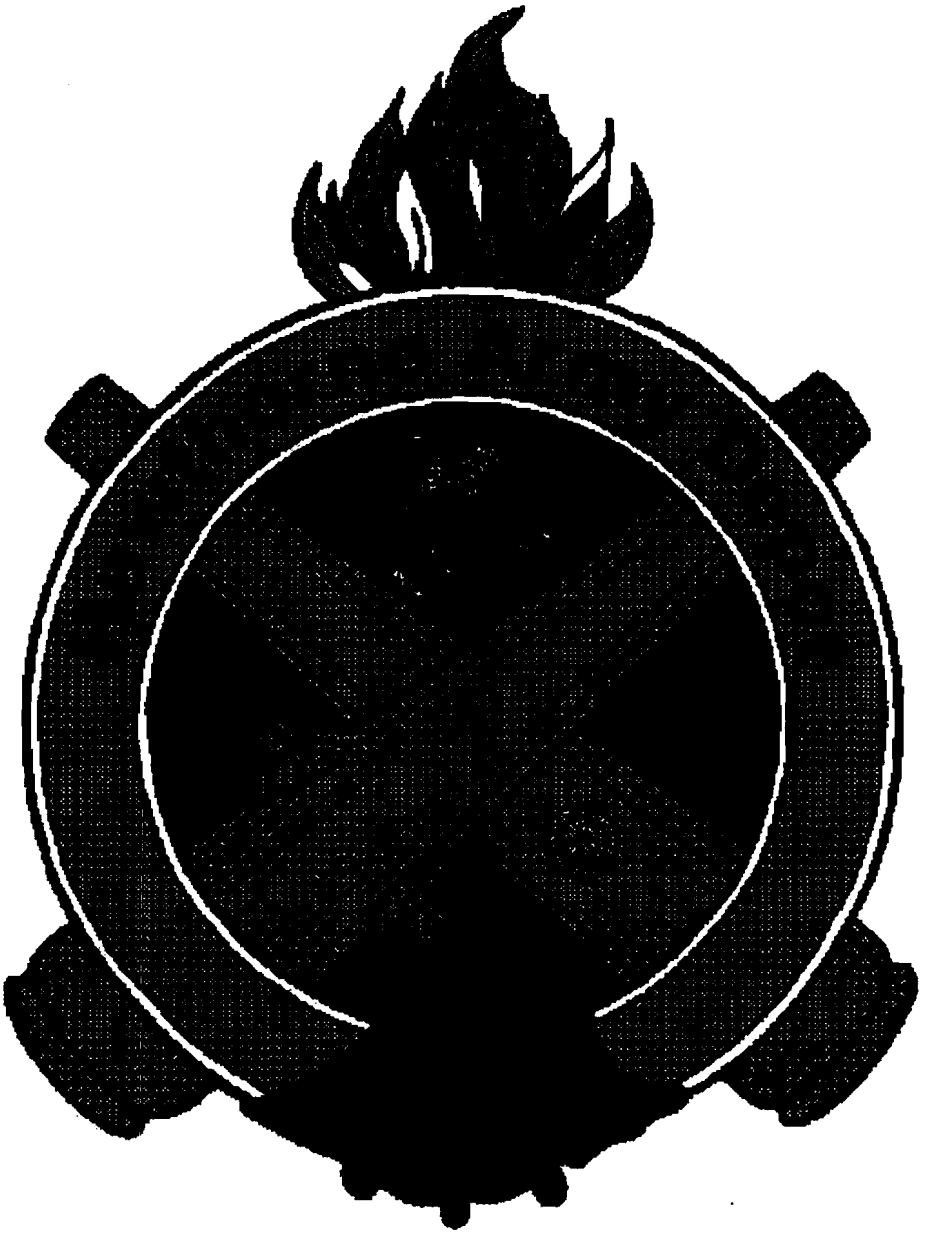
DCN: 7994

Hawthorne Army Depot
Hawthorne, Nevada



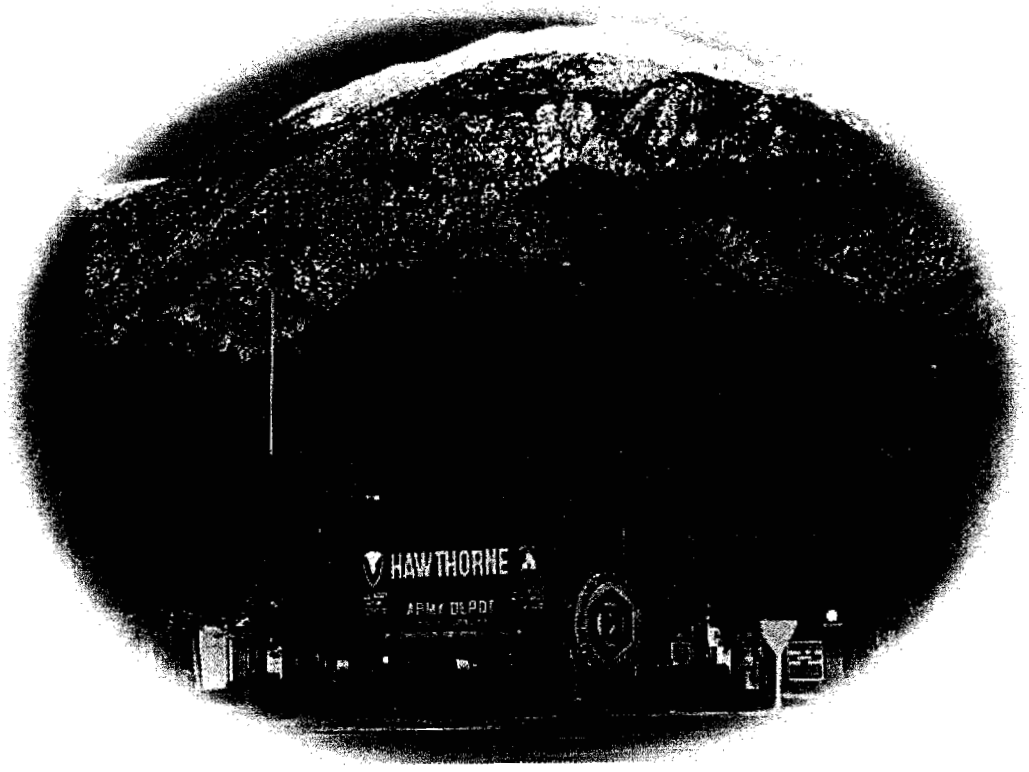
BRAC Commission

JUL 29 2005

Received

BRAC Commission Visit
26 July 2005

Hawthorne



Chairman Principi
Hawthorne Visit
26 July 2005
FINAL

26 July

1237	Arrive Reno International Airport on United Flight # 1463 from Denver
1300	Met by BG Kirkland, Adjutant General for the State of Nevada and LTC Summers, Commander, Hawthorne Army Depot.
1315-1420	Briefing with the Nevada Air National Guard, BG Kirkland/working lunch
1430	Depart Reno via UH-60 enroute to Hawthorne accompanied by Congressman Gibbons, Steve Robinson, BG Kirkland, LTC John Summers, Mr. Herbert, Mr. Van Saun, Ms. Jennifer Myers (8 passengers)
1440-1515	Hawthorne Command Briefing Presented by LTC Summers enroute
1515-1555	Aerial Tour of Hawthorne Army Depot and Range Training Areas
1555	Land in Hawthorne Army Depot Industrial Area
1600-1710	BRAC Briefing w/Govt Staff and Tenant Organizations in Building 1 Congressman Gibbons and Ms. Lauren Giles representing Sen Ensign
1710	Depart Building 1 enroute to the Hawthorne Municipal Airport
1720	Chairman Principi departs via C130 enroute to Reno w/ Congressman Gibbons, Steve Robinson, BG Kirkland, LTC Summers, Mr. Van Saun, Mr. Herbert, Ms. Jennifer Myers
1800	Arrive in Reno, LTC Summers will provide transportation to hotel, dinner and to airport on 27 July.
1800-1815	Media Event, Air National Guard Base.

27 July

0415	Depart Hotel for Reno International Airport
0600	Depart on United Flight 1460 thru Denver, CO, arrive Dulles 1530

Note: LTC Summers will attend Nevada National Guard Briefings.

BRAC Commission

JUL 29 2005

Received

Mr. Delgado

As requested by Mr. David Van Saun

Presentation Material for Chairman Principi Visit

Also extra CDs for each of the Commissioners

-vr

Jody

Hawthorne Army Depot
1 South Maine Avenue
Hawthorne, NV 89415-9404
"The World's Largest"

Mrs. Jody Gonzales
Administrative Officer

E-Mail: jody.gonzales1@us.army.mil
DSN: 830-7013 Commercial: (775) 945-7013
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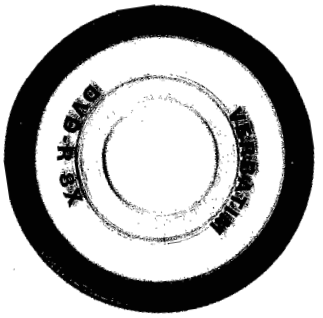
CD

BRAC Commission Vis.

of 7/11/05



CD

Hawthorne Army Depot

Hawthorne, Nevada

Base Realignment and Closure Commission

LTC John Summers
Commander
DSN: 830-7001
Email: johnny.summers@us.army.mil

Hawthorne
Will
Always
Deliver

Briefing Topics

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- Military Value..... 4
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- FY06 Reset Ammunition Movement..... 23
- Military Training..... 30
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- Tri-Service..... 57
- Additional Benefits..... 59

Overview

Hawthorne Army Depot (HWAD) provides inside storage capacity in excess of 7,680,000 gross square feet and has proven to be an excellent and established deployment network that can support all DOD readiness scenarios. HWAD is a multi-functional depot that provides unsurpassed conventional demilitarization and resource recovery of munitions assets. The depot is providing support to joint military training, munitions testing, aircraft target ranges sustainability, range scrap processing support for BRAC and Formally Used Defense Sites (FUDS), and consolidation of Defense Logistics Agency stockpiles.

Quantitative Military Value

- HWAD has a high storage quantitative military value score (2 of 23 assessed)
- HWAD has a high demilitarization quantitative military value score (1 of 13 assessed)
- HWAD ranked 31 for current value and 12 for future value out of 97 installations evaluated
- The Industrial Joint Cross Service group used military "judgment" to recommend closure of HWAD
- HWAD's underutilized storage capacity could be used to store most overseas retrograde.
- PEO Ammo estimates all existing organic depots to be 100% of storage capacity by FY08

Revised from Commissioner Coyle's visit of 11 July 2005

Candidate Recommendation #IND-0108

Supporting Information

Known or Potential Conflicts: None

Capacity Analysis: Attached. Closure of Hawthorne eliminates 16,510 STONS of Demilitarization capacity and **4,993.8 KSF** of storage capacity. **(5,650KSF Net)**

Military Value Analysis: This recommendation relocates storage functions from Hawthorne Army Depot which has a quantitative military value score of 0.578853 (2nd of 23) to Tooele Army Depot which has a quantitative military value score of 0.328174 (5th of 23). The recommendation also relocates demil from Hawthorne Army Depot which has a quantitative military value score of 0.818122 (1st of 13) to Tooele Army Depot which has a quantitative military value score of 0.725705 (2nd of 23). Although Hawthorne has a higher quantitative military value score than Tooele, " it is the **military judgment** of the Industrial Joint Cross Service group that Tooele is the preferred location" for storage [illegible] it establishes a deployment network that supports the readiness posture of [illegible]ments. As far as out-loading of the Services stocks, the readiness [illegible]rk at Tooele far exceeds that of Hawthorne. Tooele is used to store immediate response or primary sustainment stocks. "**Accessibility and ease of out-loading** are major factors in determining this response category." Hawthorne is used to store secondary sustainment or tier 2 level stocks. Accessibility is the greatest hindrance to Hawthorne ability to support immediate go-to-war readiness.

BRAC Plan Calls For Shipment of over 51,000 stons Per year for 3 years, plus Receive retrograde.

BRAC Military Value Rating

IND-0047 & 53 Scenarios: Close Hawthorne. Retain Crane, Iowa, Lake City, McAlester, Milan, Pine Bluff, Radford, Blue Grass, and Tooele.

	Installation Comparison Using BRAC 03 Data	MPV	Future MPV	All Storage Capacity (data from BRAC)	Excess Storage Capacity
Tier I	McAlester	27	18	10.64 Mil Sq. Ft.	4.12 Mil Sq. Ft.
Tier II	**Hawthorne***	**31**	**12**	9.73 Mil Sq. Ft.	4.14 Mil Sq. Ft.
Tier I	Crane	32	27	8.02 Mil Sq. Ft.	2.30 Mil Sq. Ft.
Tier I	Tooele	42	41	5.24 Mil Sq. Ft.	1.97 Mil Sq. Ft.
Tier I	Blue Grass	45	80	6.02 Mil Sq. Ft.	1.20 Mil Sq. Ft.
Plant	Milan	59	55	3.26 Mil Sq. Ft.	2.43 Mil Sq. Ft.
Chem	Pine Bluff	64	64	4.19 Mil Sq. Ft.	.40 Mil Sq. Ft.
Plant	Lake City	69	46	1.09 Mil Sq. Ft.	0 Mil Sq. Ft.
Plant	Iowa	70	45	1.15 Mil Sq. Ft.	.65 Mil Sq. Ft.
Plant	Radford	80	52	.9 Mil Sq. Ft.	.30 Mil Sq. Ft.

*Lower number equals higher military value

BRAC Data Corrections

- Outloading Capability
- Railroad Capability
- Ammunition Demilitarization
- Ammunition Renovation
- Closing Costs vs. Current Operating Costs
- Number of personnel employed at HWAD
- Impact on local economy

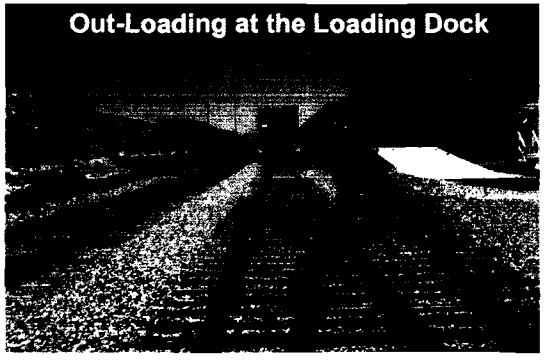
Revised from Commissioner Coyle's visit of 11 July 2005

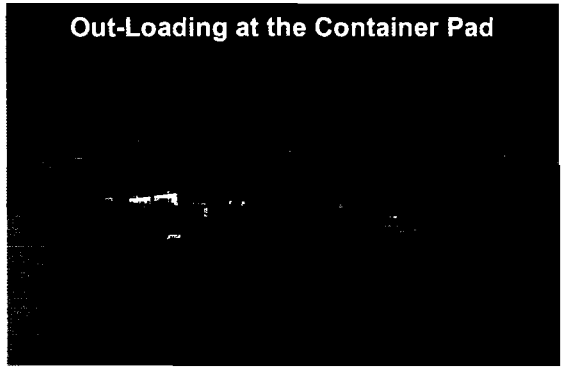
Outloading Capability

BRAC says that HWAD cannot off-load & receive munitions because of isolation and infrastructure problems.

This is incorrect. HWAD shipped more than any other depot during Desert Storm.

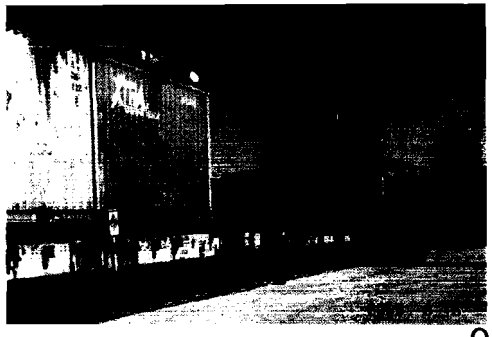
BRAC Plan calls for shipment of over 51,000 stons per year for 3 years, plus receive demilitarization retrograde stocks.





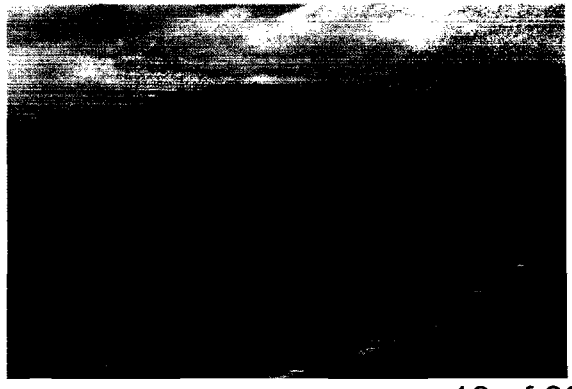
Outloading Capability

- HWAD has three state-of-the-art container loading/offloading pads
- HWAD has six loading/offloading docks with multiple rails and truck access
- HWAD has 1,130 magazines accessible by both rail and truck (two railcars or trucks at each magazine)
- HWAD has 1,298 magazines accessible by truck
- Container Repair Facilities
- Rail Interchange Yard with a capacity of 271 railcars
- 45,392 tons received and 40,346 tons shipped each year - averaged over last 19 years
- Truck Inspection Lot capability of 150 trucks and is a safe-haven for commercial vehicles

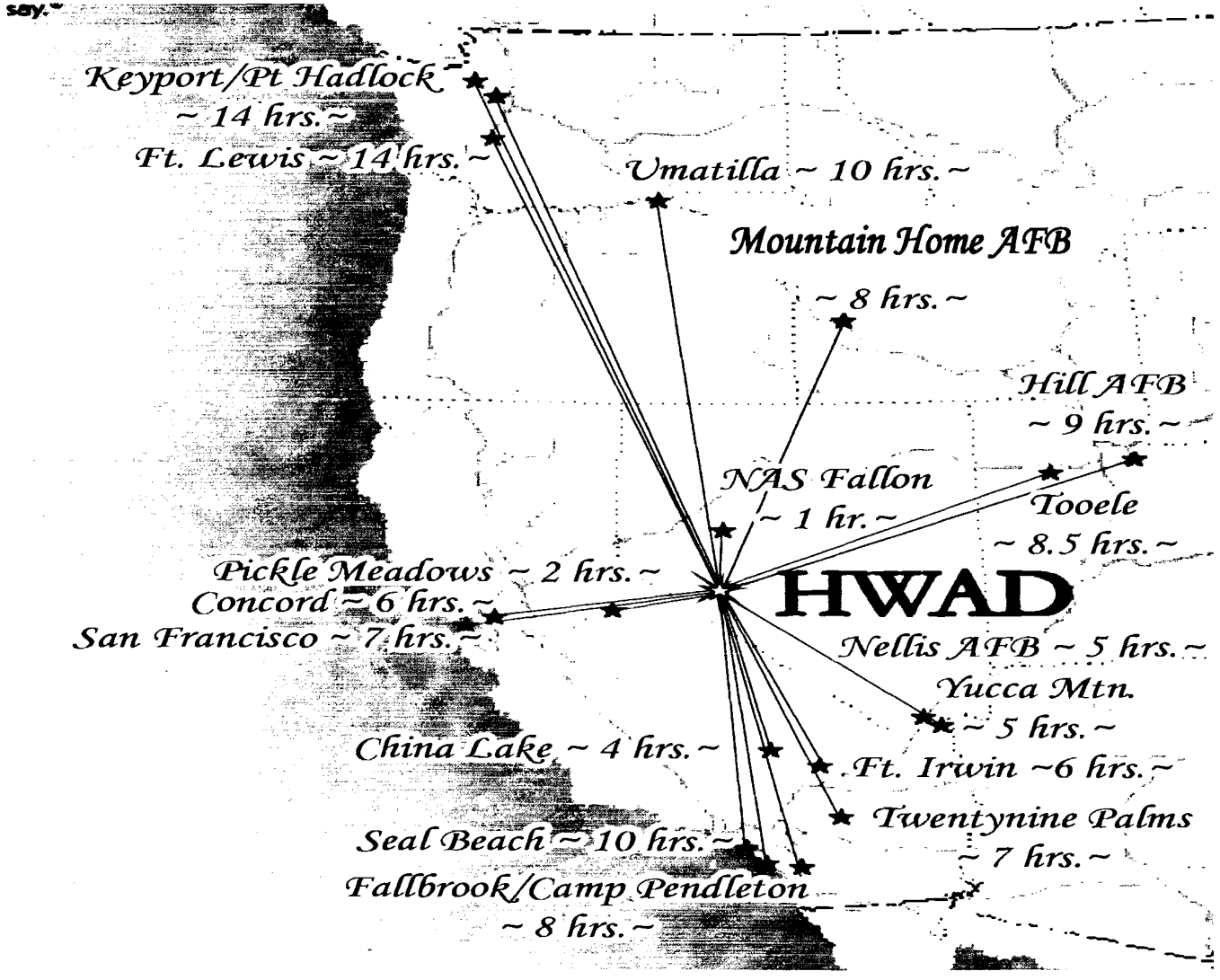


HWAD Railroad/Road Capabilities

- HWAD has 213 miles of in-house rail serving the magazine areas
- HWAD Army owned rail line is connected to a major east-west rail line by a 54 mile spur to Wabuska, NV. This rail was upgraded in 1997 at a cost of $23M and included rebuilding of three trestles and installation of 133 pound continuous welded rail.
- HWAD's surge capacity 30 days into a mobilization would be 329 containers per day for outloading (unconstrained)
- HWAD has 600 miles of internal roadway network
- HWAD can support training ammunition shipments to Fallon Naval Air Station and Nellis Air Force Base within 1 day
- HWAD is the closest to all West Coast Ports and travel times by truck can be seen on the next chart



Truck Travel Time From HWAD to Ports/Customers



Transportation Modes

- The Federal and state highway systems serving HWAD are major highways connecting I-5, I-40, and I-80. The road network is in excellent condition and capable of handling thousands of ammo laden trucks per day.
- HWAD is located 60 miles south of NAS Fallon which can provide C17 aircraft out loading capabilities and is one of the largest air fields in the Navy Command.
- HWAD is located one mile from the Mineral County Industrial Airport which has a 6,000 ft runway with a 200 ft runoff. This runway can support large cargo aircraft.
- HWAD is the only major ammunition distribution point capable of supporting west coast ports within hours.

Hawthorne Army Depot

Workload History

Hawthorne Workload

Year	Renovation (Tons)	Demil (Tons)	Shipping	Receiving	
FY90			37263	55408	
FY91			98093	112913	
FY92			53900	139600	
FY93			34189	70936	Tier II
FY94	5647	19145	31113	51662	
FY95	311	20768	40387	45394	
FY96	2087	11925	45792	38169	
FY97	4056	13186	51243	30045	
FY98	5745	9680	51600	27386	
FY99	1847	9789	52730	13267	
5th Qtr 99	4105	2490			
CY00	1500	4577	22051	6319	5-Y IDIQ
CY01	6210	4278	32373	9752	
CY02	2548	8065	17445	3452	
CY03	3510	6535	15050	41406	Demil
CY04	3193	6918	16342	21459	
CY05*	1413	3492	12940	13614	
*As of 30 Jun					
TOTALS	42172	118421	599571	667168	

BRAC Question 519 & 520 Demil & Renovation: Current usage is defined as the average monthly output from that portion of the current capacity that is actually in use as of the end of 4th Quarter FY03. On the 30st of Sep 2003, we had no Demil or Renovation activity on that day. Our average became 0 vs. 544 stons of Demil and 0 stons vs. 292 on Renovation

Hawthorne Army Depot

Demilitarization

Western Area Demil Processes

(Resource Recovery & Recycling & Disposal)

- **Ammo Preparation**
  - Breakdown/Pull Apart Equipment
  - Explosive Sawing
  - Waterjet Cutting
  - Defuzing Equipment
  - Remote Capabilities
- **Explosive Removal/Recyle**
  - Melt out
  - Steam out
  - Hot Water Washout
  - High Pressure Washout
  - Press Out
  - Slurry Gel (propellant)
- **Decontamination**
  - Flashing Furnace
  - Hot Gas Decontamination
  - Plasma Ordnance Destruction System
  - Rotary Furnace (Aug 06)
  - Bulk Energetic Demilitarization System (Feb 08)
- **Support**
  - State Certified Analytical Laboratory
  - Water Treatment Facility
  - Range Scrap Facility

Revised from Commissioner Coyle's visit of 11 July 2005

Past and Present Demilitarization Projects and Benefits

- Depth Bombs
- Depth Charges
- MK25 Undersea Mines
- Russian Mines
- 3" thru 8" Projectiles
- 90mm/105mm/106mm Ctgs
- Bullpups Warheads
- M687 Projectiles
- Torpedo Warheads
- Harm Warheads
- 750# Bombs
- HAWK Rocket Motors
- 5" Rockets
- 81mm and 4.2" Mortars
- MK115 Continuous Rod Bombs
- 8" & 155 ICM Projectiles

In the past 12 years, HWAD has R3'd 120,848 tons.

Recovered Value of Explosives/Metals

- Explosives/metals recovered from demilitarization operations at HWAD for the past 12 years:

  Explosives 24,650,000 pounds @ $1.596 per pound = $39,341,400. This figure represents a cost avoidance of buying new explosives.

  Mixed Metals 91,400,000 pounds with an estimated value of $7,000,000

Hawthorne Army Depot

Renovation

Renovation Last Year

- **105 MM C445**
  77,693 Ea
  Completed Mar 2004

- **105 MM C445**
  136,500.
  Aug 2004 – Oct 2005

- **TNT**
  70,969 boxes representing 3,548,000 lbs were inspected and repacked as required in support of bomb loading at McAlester Army Ammo Plant.

- **Ammunition Containers**
  18,075 (M2A1 & M548) containers were renovated in support of LAP operations at other installations.

- **Milvans**
  Repaired and shipped 236 milvans to support Tooele K-180 mine shipment to Iraq.

PAST RENOVATION ITEMS

- 105MM Projectiles
- 60MM HE
- 60MM WP
- 81MM HE
- 81MM Ill
- Hand Grenades
- 155MM HEAT
- 155MM Ill
- 155MM Copperhead
- FMU139 Bomb Fuzes
- Imbiber Beads
- 40MM Ctgs
- 30MM Ctgs
- Rocket Launchers
- Projectile Fuzes
- Fin Assemblies
- 120MM Ctg
- Linear Charges

Employment and Economic Impact

BRAC Position:

"Potential reduction of 326 jobs over period 2006-2011. Less than .1% of economic area employment" (measured against Reno-Sparks, Nevada).

	HWAD Certified-Data (2003)	BRAC Data	Actual: (2005)
Military Personnel	1	74	1
Government Civilian Personnel	45	45	50
Contractor Personnel	463	80	531
Totals	509	199	582
Employment Displacement	42%	0.1%	49%

Reno/Sparks is 135 miles away

Unemployment percentages do not reflect total impact and loss of jobs that will occur in the Town of Hawthorne.

Ammunition Reset Plan

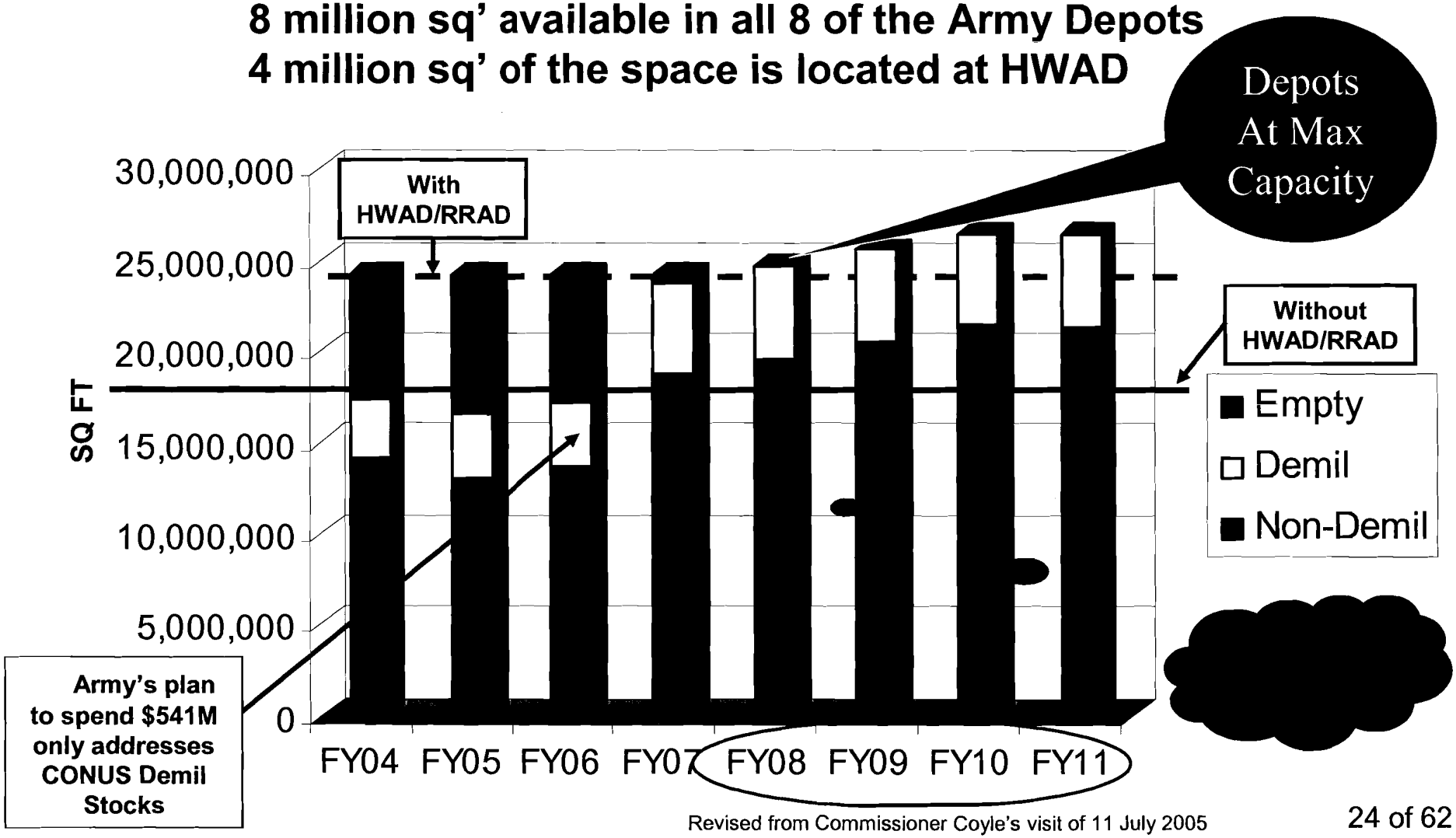
FY06 Plan

- Army 56,000 tons
- Other Services 17,500 tons
- Total Reset 73,500 tons
- Reset will require over 661,500 square feet of storage space
- All reset ammunition could be stored at HWAD
- PEO Ammo estimates all existing organic depots to be 100% of storage capacity by FY 08

Revised from Commissioner Coyle's visit of 11 July 2005

Wholesale Depot Occupancy Profile by Fiscal Year by PEO Ammo Organization

8 million sq' available in all 8 of the Army Depots
4 million sq' of the space is located at HWAD



Revised from Commissioner Coyle's visit of 11 July 2005

IJCSG Capacity and Usage

Includes Outside Storage

Chemical Depot

Ammunition Plants

Depots

Plants Not Designed For Storage and Outload

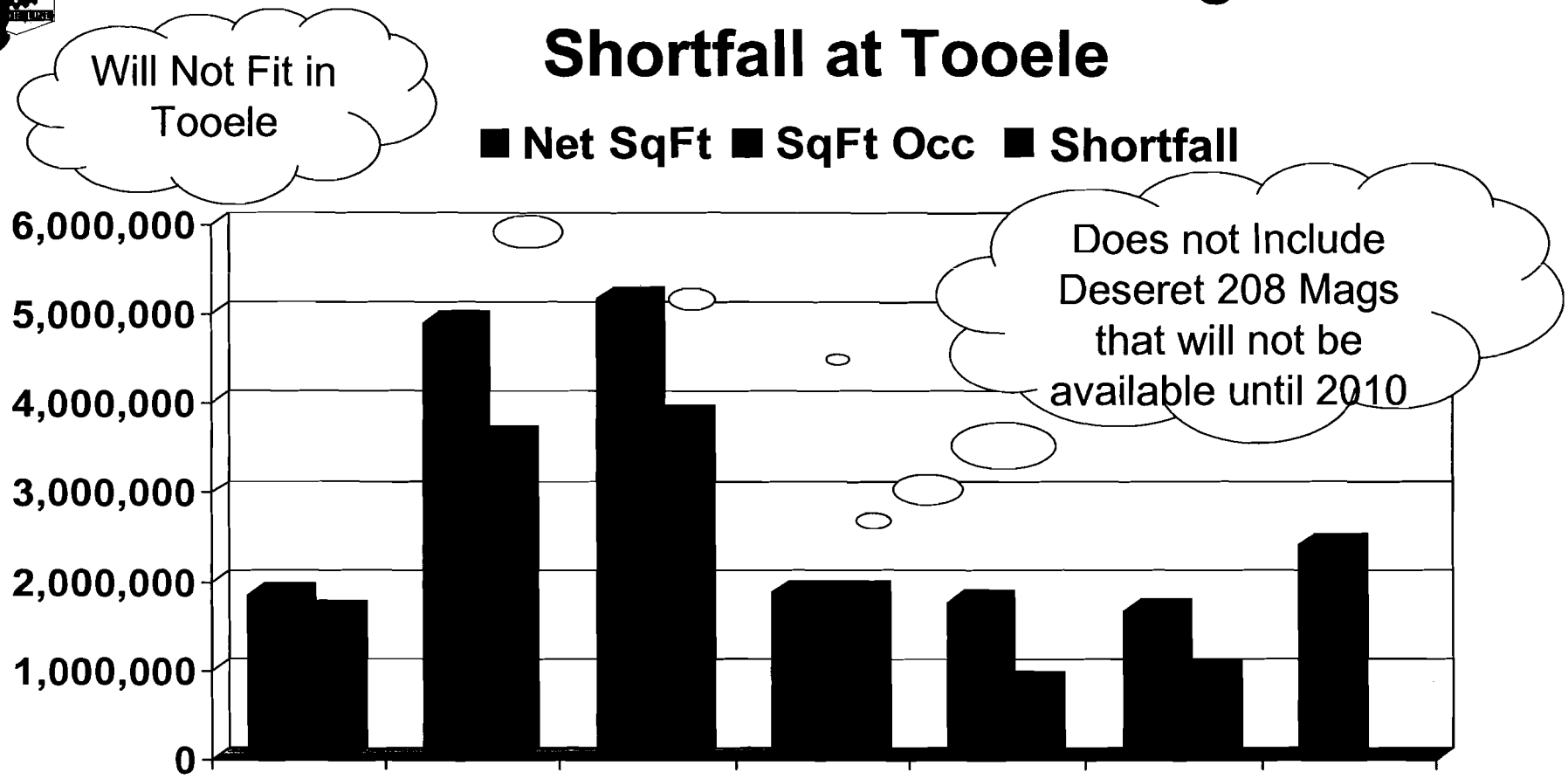
IJCSG - Munitions / Armaments Capacity Report

Function	Site	Current Capacity*	Current Usage*	Maximum Capacity*	Capacity Required to Surge*	Capacity Available to Surge/Excess Capacity*
MUNITIONS STORAGE						
	ANNISTON ARMY DEPOT	3,296.4	2,293.9	3,296.4	0	1,002.5
	BLUE GRASS ARMY DEPOT	6,021.0	4,817.4	6,021.0	0	1,203.6
	CRANE ARMY AMMUNITION ACTIVITY	8,020.8	5,721.3	8,020.8	0	2,299.5
	HAWTHORNE ARMY DEPOT	9,738.0	5,603.0	9,738.0	0	4,135.0
	HOLSTON AAP	405.8	90.6	405.8	0	315.2
	IOWA AAP	1,148.8	503.4	1,148.8	0	645.4
	KANSAS ARMY AMMUNITION PLANT	1,238.5	895.9	1,238.5	0	342.6
	LAKE CITY AAP	1,094.0	1,094.0	1,094.0	0	0.0
	LETTERKENNY ARMY DEPOT	3,613.4	2,472.2	3,613.4	0	1,141.2
	LONE STAR AAP	1,030.6	824.5	1,030.6	0	206.1
	LOUISIANA AAP	350.0	270.4	350.0	0	79.6
	MCALESTER AAP	10,637.1	6,522.0	10,637.1	0	4,115.1
	MILAN AAP	3,258.1	829.9	3,258.1	0	2,428.2
	MISSISSIPPI AAP	105.4	0.0	105.4	0	105.4
	RADFORD AAP	921.2	641.6	921.2	0	279.6
	RED RIVER ARMY DEPOT	2,747.6	1,732.9	2,747.6	0	1,014.7
	TOOELE ARMY DEPOT	5,239.6	3,265.0	5,239.6	0	1,974.6

*Capacity is measured in ksf *Report Date: Thursday, April 21, 2005* *Database Date: April 18, 2005*

Revised from Commissioner Coyle's visit of 11 July 2005

Post-BRAC Covered Storage Shortfall at Tooele

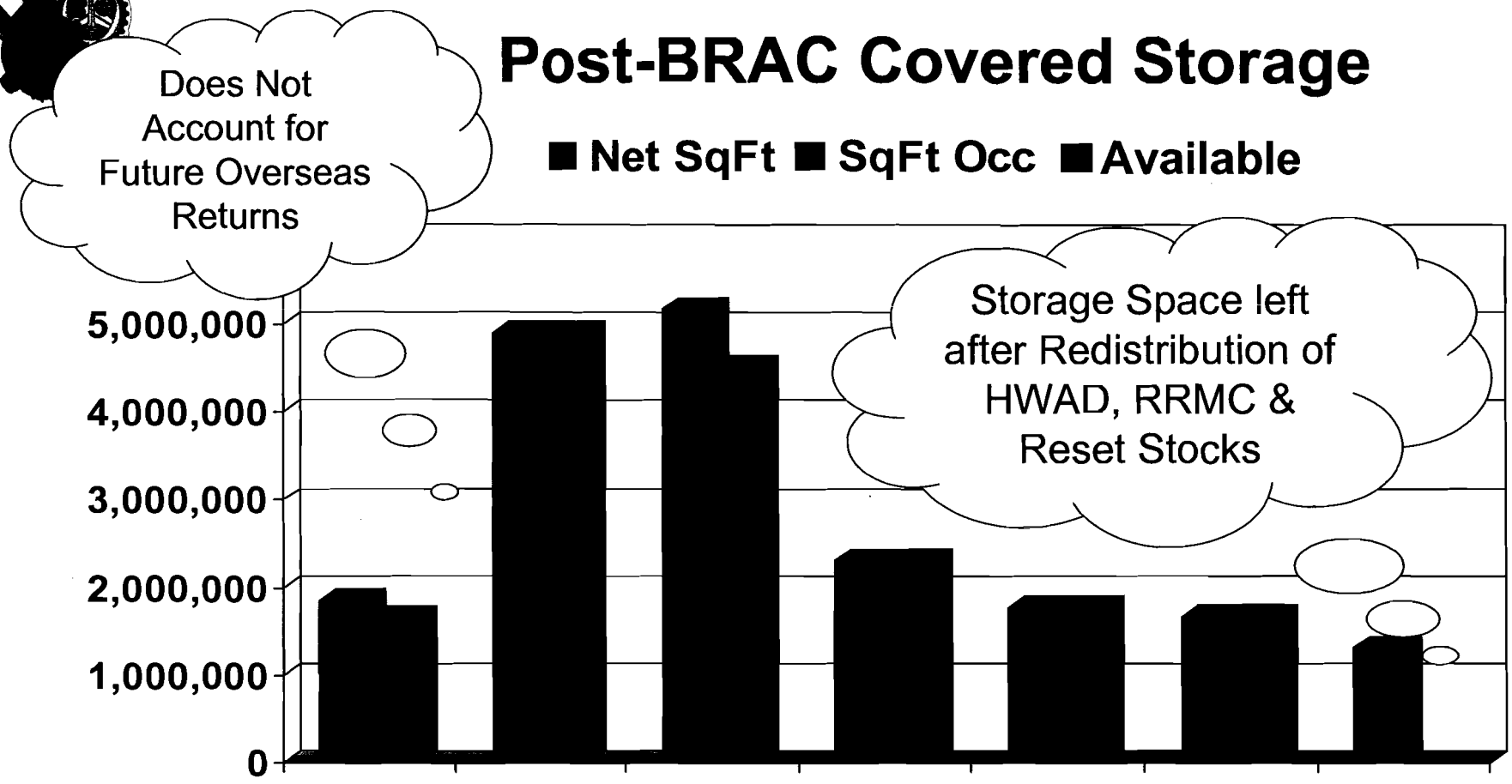


	BGAD	CAAA	McAAP	TEAD	ANMC	LEMC	Shortfall
Net SQ FT	1,846,916	4,893,000	5,175,840	1,880,658	1,766,634	1,666,988	2,411,064
Occupied SQ FT	1,648,540	3,613,438	3,842,255	1,880,658	849,617	999,404	0
Percent Occupied	89%	74%	74%	100%	48%	60%	0%
Short Tons	190,599	463,256	579,022	208,962	120,386	98,432	267,896

Note: Chart excludes HWAD's 140K tons of demilitarization stocks.
Does include 12,652 tons of IPE.

Revised from Commissioner Coyle's visit of 11 July 2005

Post-BRAC Covered Storage

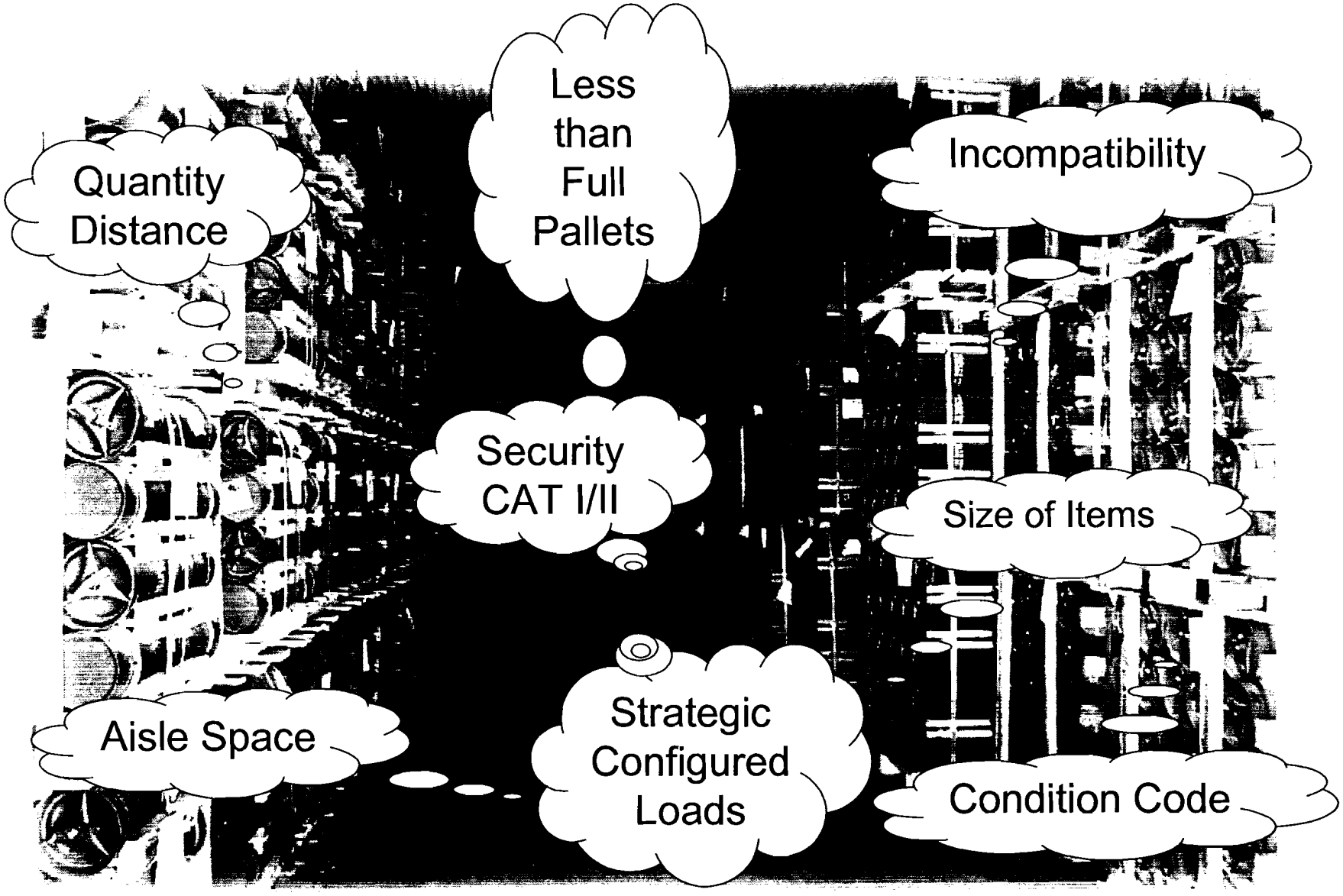


	BGAD	CAAA	McAAP	TEAD	ANMC	LEMC	AVAILABLE
Net SQ FT	1,846,916	4,893,000	5,175,840	1,880,658	1,766,634	1,666,988	1,311,502
Occupied SQ FT	1,648,540	4,893,000	4,517,174	1,880,658	1,766,636	1,666,988	
Percent Occupied	89%	100%	87%	100%	100%	100%	
Short Tons	190,599	605,403	654,073	223,876	222,277	172,608	145,721
Density	8.65	8.08	6.91	8.40	7.95	9.66	

McAAP space required for bomb production

*** Revised from Commissioner Coyle's visit of 11 July 2005**

IMPACTS TO STORAGE



Revised from Commissioner Coyle's visit of 11 July 2005

COBRA DATA IMPACT ON SAVINGS

	COBRA	ACTUAL
➢ **MILITARY PAYROLL** (Army of One)		
Yearly Savings	$ 6,183,000	$ 95,000
➢ **SUSTAINMENT** (Maintain Life of Buildings)		
Yearly Savings	$ 30,420,932	$ 6,800,000
➢ **BASE OPERATIONS SUPPORT**		
Yearly Savings	$ 0	$ 5,095,000
➢ **RECAPITALIZATION** (Modernization of Facilities)		
Yearly Savings (Historical)		$ 4,316,000 or
Yearly Savings (Formula)	$34,912,754	$ 11,986,712

➢ Total 20 Year Savings (Vol. 8) $777,700,000 vs. $86,320,000 or $239,734,240

COBRA DATA VS. ACTUAL DATA

HAWTHORNE PERSONNEL	199 (74 Military)	553 (1 Military)
TOOELE PERSONNEL	1,083 (557 Military)	749 (2 Military)
HAWTHORNE SQ. FOOTAGE	9,578,000	7,680,000 storage
TOOELE SQ. FOOTAGE	9,415,000	2,483,000 storage

HAWTHORNE YEARLY OPERATING COSTS + PAYROLL	$41,400,761
TOOELE YEARLY OPERATING COSTS + PAYROLL	$66,800,000

Hawthorne Army Depot

Military Training

Training Mission

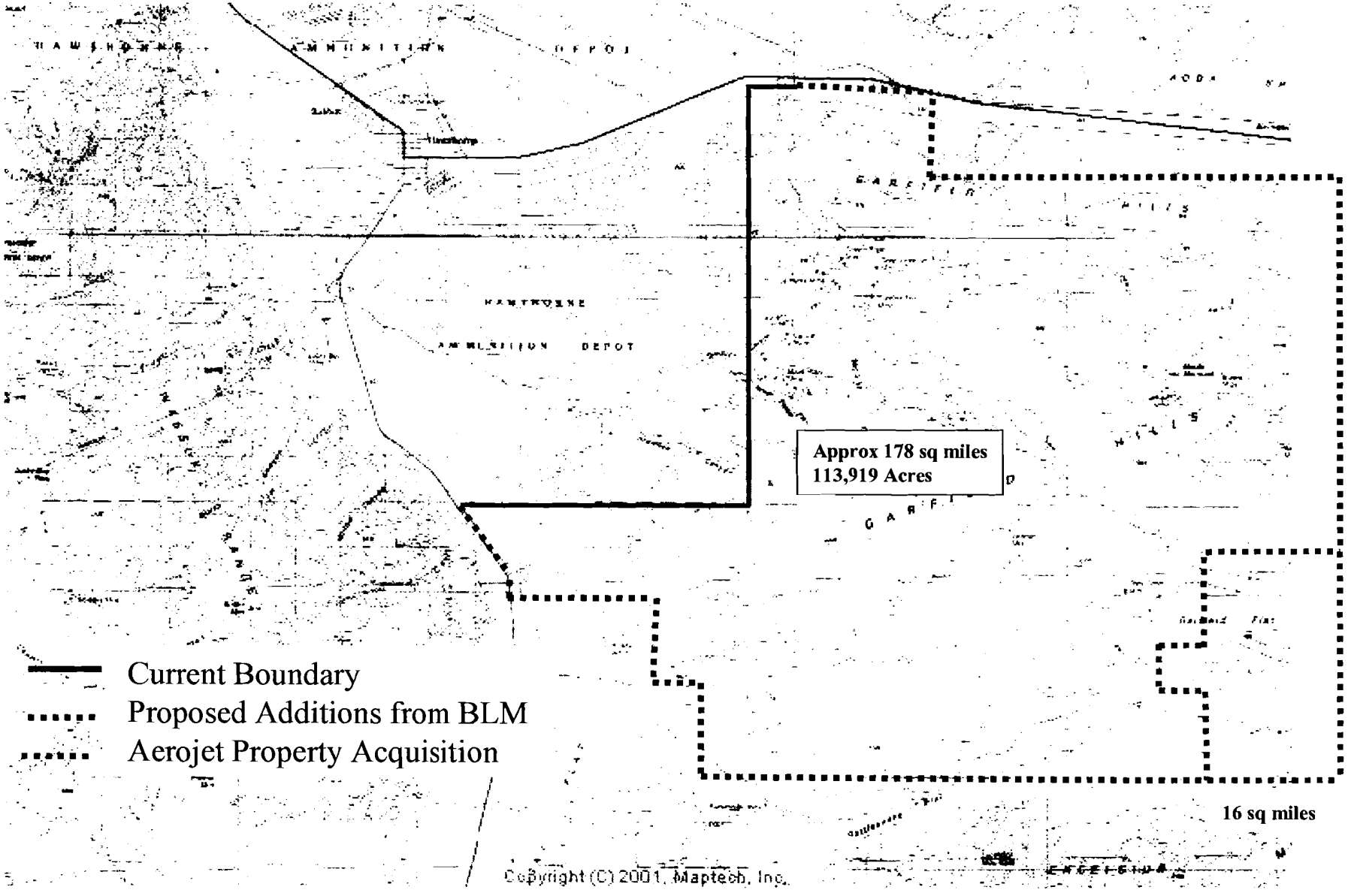
- Training Mission Approved Oct 04
- High Altitude Desert Terrain Environment
- Joint Training Environment
  - ✓ Navy Special Warfare Groups
  - ✓ Marine Force RECON
  - ✓ Marine Corps Battalions
  - ✓ Army National Guard and Reserves
  - ✓ Army Special Forces
  - ✓ 71,287 acres available similar to terrain in Afghanistan and Iraq

Revised from Commissioner Coyle's visit of 11 July 2005

Existing Training Opportunities

- High Altitude Mountain Training – 49,566 acres (Mount Grant)
- High Angle Sniper Range (Formal USMC School) and Desert Live Fire Convoy Training – 18,703 acres (Old Bomb)
- Walker Lake Training Area (49 square miles)
- Desert Convoy Operations - Unlimited
- C130/Helicopter/Parachute Training at Hawthorne Aviation Facility – 6,000 ft runway (777 acres)
- Demo & Explosive Breaching – 3,183 acres (New Bomb)
- POW Compound- 4.3 acres (103-30 Compound)
- Industrial Combat Training Facilities – 161 acres (101 Compound)
- Over 1,500 military personnel trained in Jan – Apr 05

Proposed Training Area Expansion



Hawthorne Army Depot

Navy Region SW Range Scrap Processing

NRSW RANGE RESIDUE MANAGEMENT

- **PROBLEM:**
  Scrap Processors and Dealers Have Failed To Provide the Proper Environment To Recycle Range Residue Scrap
- **SOLUTION:**
  Establish Standardized Region Program
  +Employing Centralized Processing/Recycling/ Demilitarizing Center
  *On Site Management
  *Cost Savings / 20% to 25% Less Than Commercial Contractor
- NRSW Has Over 20 Million Pounds Of Legacy Ordnance and Target Range Scrap On Its Operational Training Ranges
- Approximately 6 Million Pounds Of Ordnance Is Dropped Annually On NRSW Training Ranges

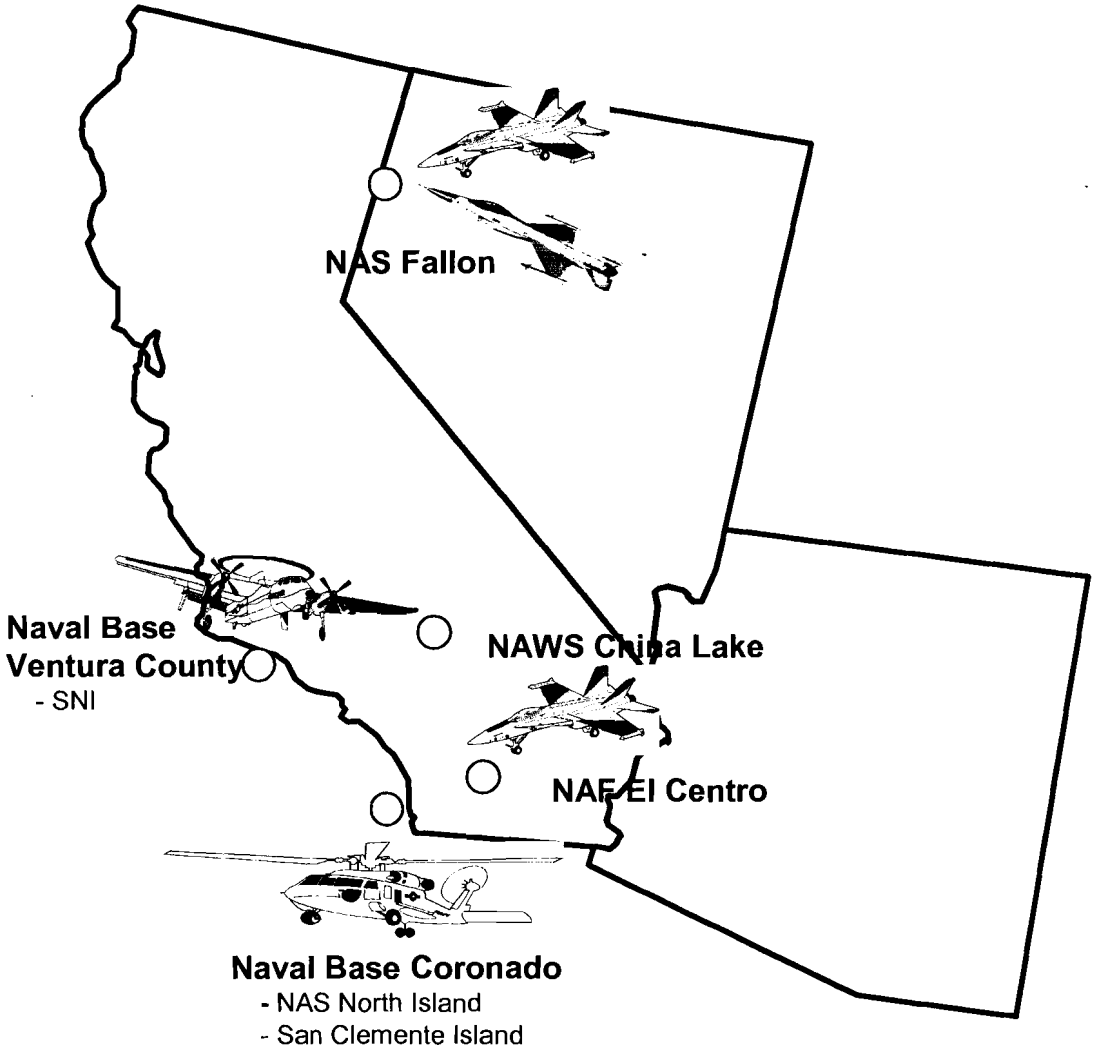
AREA OF RESPONSIBILITY

IMAP:

Other Operations Support:

- -Ranges
- -EOD Detachments (Weapons)

- NAS FALLON
  - -4 AIR-TO-GROUND RANGES
- NAF EL CENTRO
  - -4 AIR-T0-GROUND RANGES
- SAN CLEMENTE ISLAND
  - -13 RANGES
    - +AIR-TO-GROUND/SHIP-TO-GROUND
    - +MISSILE IMPACT AREA (SPAWAR)
    - +SMALL ARMS (SPECWAR)
- NAWS CHINA LAKE / SNI
  - -RDT&E
  - -AIR-TO-GROUND
- SNI
  - -AIR-TO-GROUND



85% OF ALL NAVY ORDNANCE DROPPED IN TRAINING

RANGE RESIDUE PROCESSING PROGRAM

➢ PURPOSE

- Ensuring All Range Residue Scrap Is Released To Recycling Markets Is Demilitarized In Accordance With DOD Standards

➢ RESULTS

- To date approx 2.0 million pounds of range scrap has been transported and processed at Hawthorne

- The cost to process is $341 per ton. This is a 20-25% cost savings

- NRSW Range Support has established a centralized site to process range scrap. Navy Range Office has designated Hawthorne as the model for range scrap processing. Closing Hawthorne would require establishing another site for this mission, or lose the benefits of a consolidated site.

A COST-EFFECTIVE LIABILITY-REDUCTING SOLUTION

Hawthorne Army Depot

Tenant/Customer Impact

Tenants/Customers

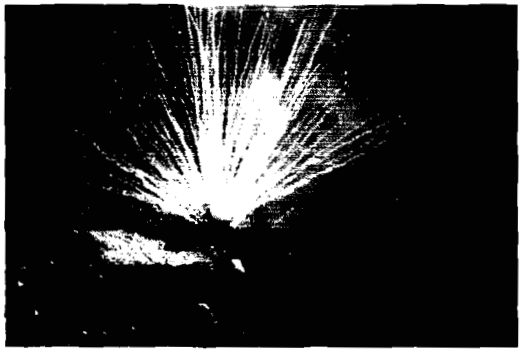
Marine Corps Program Office
Naval Undersea Warfare Center
U.S. Marine Corps Mountain Warfare Training Center
U.S. Navy Special Warfare Group 2
High Desert Special Operations Training Center

Lance Corporal Carter Test Range

- History
  - Established under joint agreement in 1989 between the U. S. Army and Marine Corps
  - Supports multi-service testing with a dedicated, responsive, rapid turn-around capability
  - Relieved/removed the need to perform emergency LFT&E of ordnance and weapon systems at heavily committed Marine Corps Training facilities
- Capabilities
  - 18,703 acre Test Range that is not encumbered by encroachment, is FAA cleared, fully environmentally compliant, and not impeded by adverse weather (available 360 days/year)
  - 50,000 sq. ft. of administrative and range support facilities
  - Supports DT, LUT, LAT, ACTD, In-Service, and OT testing of weapon systems ranging from small arms through mortars, rockets, and artillery
  - Fully Instrumented state-of-art range including data collection equipment, radar tracking systems, environmental condition chambers, and video analysis cameras

Lance Corporal Carter Test Range

- Flexibility/Priority
  - Range is government (MCPD) controlled and operated. This allows quick changes to schedule priority, and the flexibility to change test criteria during test if warranted
  - Computerized data collection equipment allows for same day analysis and reporting of results
  - Range can be quickly reconfigured to accommodate testing and training
- Test Range Usage Data
  - Average of 30 test events each year
  - Average of 258 test days each year
  - Average of 81,000 man-hours performing tests each year
- Major Customers
  - MARCORSYSCOM
  - ARDEC
  - AMC



Lance Corporal Carter Test Range

- Value Added to Warfighter
  - West Coast location within reasonable driving distance of major Marine Corps and Navy Headquarters at Camp Pendleton (I MEF) and San Diego
  - Rapid response to safety and reliability concerns with both fielded and developmental weapon systems
  - Interaction of operating forces during testing is an approved and encouraged method used during assessment and evaluation of ordnance/weapon systems to help ensure testing fully meets ("reality check") needs of warfighter
  - Ability for LFT&E to include the Active Duty operator, improves the test item assessment while concurrently training the operator
  - Independent assessments in near battlefield conditions contribute to War on Terrorism and Homeland Defense capabilities
- COBRA Model Costs
  - Did not include the cost of closing the Lance Corporal Carter Test Range
  - Did not include the cost of moving full-up Test Range operations to a new location.

Mines, DEMIL, Ordnance and Battery Reclamation
Division Code 3343 – Hawthorne, NV

NAVSEA

KEYPORT

Undersea Warfare Center Division

Mr. Ron Allman
Mr. John Nester

Mines, DEMIL, Ordnance and Battery Reclamation Division

NAVSEA
KEYPORT
Undersea Warfare Center Division

Major Functions:

- Mines and Mine Systems (PMS495)
  - DEPOT level repair facility for 29 yrs
  - Unique Mines Knowledge and Expertise
  - Mechanical Assemblies
  - Ordnance Experience
- Battery Management (PMS495, PMS 404)
  - Storage, Testing, Shelf-life extension
  - End-of-Life cycle Management
    - Reclamation and Recycling
    - Best-Cost Disposal
- Material management (PMS495, PMS 404)
- 1,500 annual Receipts
  - 650 annual issue documents
  - Material Deep Storage
- Material Reclamation (PMS495, PMS 404)
  - Demilitarization, Best-Source Disposal, Recycling
  - Batteries and Mines

Facilities & Equipment Examples:

- 400,000 Square Feet of Storage Space
  - Secure, Controlled Access, Arid Atmosphere Storage
- Two Explosive operations facilities
- Battery Reclamation Facility (BRF)
- Refrigerated/Frigid material Storage
- Renewable Energy Resource
  - (Solar Power System)
- Building 104-3 Certified High Explosives Magnetic test site

Man Power

- (10) Government
  - (7) Oversight
  - (3) Mechanics
- (6) Technical Services Support Contractors
- (6) Logistics Support Contractors

Product Examples:

- BRF Reclaimed over 885K Troy ounces of silver of program silver (Targets and Mines) to date at a combined cost savings to the programs of over 2.2 Million (PMS 404)
- BRF Recycled over 15K Mercury and Mercury Cadmium batteries at a cost avoidance to the programs of over 1.5 Million (PMS 495)
- Fleet return SLQQ-48 Pyro Cable Inerting and screening for refurbishment (PMS 404)
- SLQQ-48 Shipping container manufacturing (PMS 404)
- MK32 Arming Device inerting (PMS495)
- All In-Service and Exercise Mines Depot Support (PMS495)
- MK 141 Battery Magnetic testing (PMS495)
- Since FY01 to date the Site has Demil (ed) over 200K items and cleared over 1K outstanding Demil documents (PMS495)

Cobra did not include cost of $20M for shipping & $85M for new construction

Revised from Commissioner Coyle's visit of 11 July 2005

MCMWTC TRAINING USAGE OF HAWTHORNE ARMY DEPOT

LtCol Joseph Dennison
Capt Robert Dinero

Why Hawthorne?

- **Land Manager Status**

  -MWTC is on Forest Service lands

  -HWAD is DOD-owned

- **Live Fire Capability**

  -HWAD provides exponentially greater opportunities for:

  - ✓ Demolitions training
  - ✓ Live fire infantry assault training
  - ✓ Overhead/indirect fire support training

Why Hawthorne?

- **Climatic/seasonal/environmental variations**

  -MWTC is sub-alpine, HWAD is high desert

  -Snow cover heavy at MWTC, minimal at HWAD

  -HWAD closely resembles key Afghan operational areas

  -Synergy: Dispersion of sub-units between MWTC and HWAD duplicates logistical and command and control challenges of operating in Afghanistan

Current Training Activities

- **Mountain Scout Sniper Course**
  - -8 classes per year
  - -2 weeks per class
  - -20 students per class
  - -Joint training: SF, Rangers, SEALs, Allied Special Forces

Current Training Activities

- **Unit Pre-Afghanistan Deployment Training**

  -Current and future USMC battalions deploying to Afghanistan scheduled to train at HWAD

  -2000+ Marines already trained

  -1st Battalion, 3d Marines scheduled for September 05

  -I Marine Expeditionary Force Afghan Army Combat Advisor Team scheduled for October 05

Projected USMC Investment in HWAD/MCMWTC Partnership

- **Range Scheduling Integration**

  -Range Facility Management Support System HWAD Fire Desk

- **Afghan Village**

  -Modular, semi-permanent small urban training facility

- **LCpl Carter Test Range Upgrades**

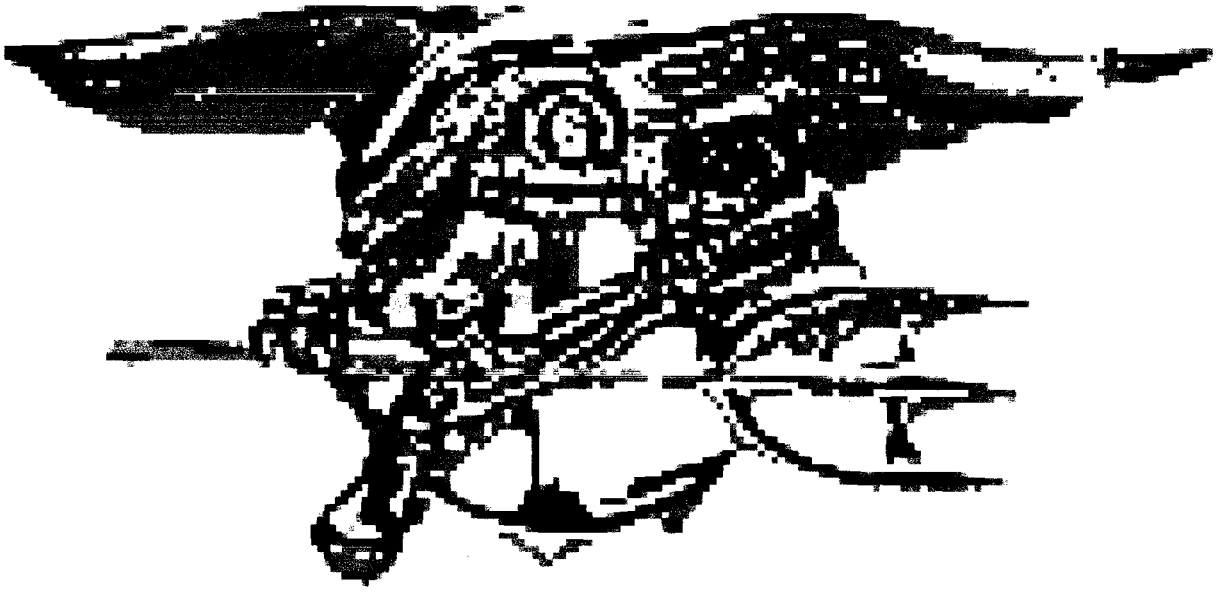
  -High angle sniper firing range targetry

  -Classroom and hygiene facilities

Conclusion

"Hawthorne Army Depot directly supports the Marine Corps Mountain Warfare Training Center's mission with critical and unique capabilities. Loss of access to HWAD's training areas will significantly reduce MWTC's ability to train Marine and other US Forces for combat in Afghanistan, as well as other mountain/cold weather potential contingency areas worldwide."

Navy Special Operations Group 2

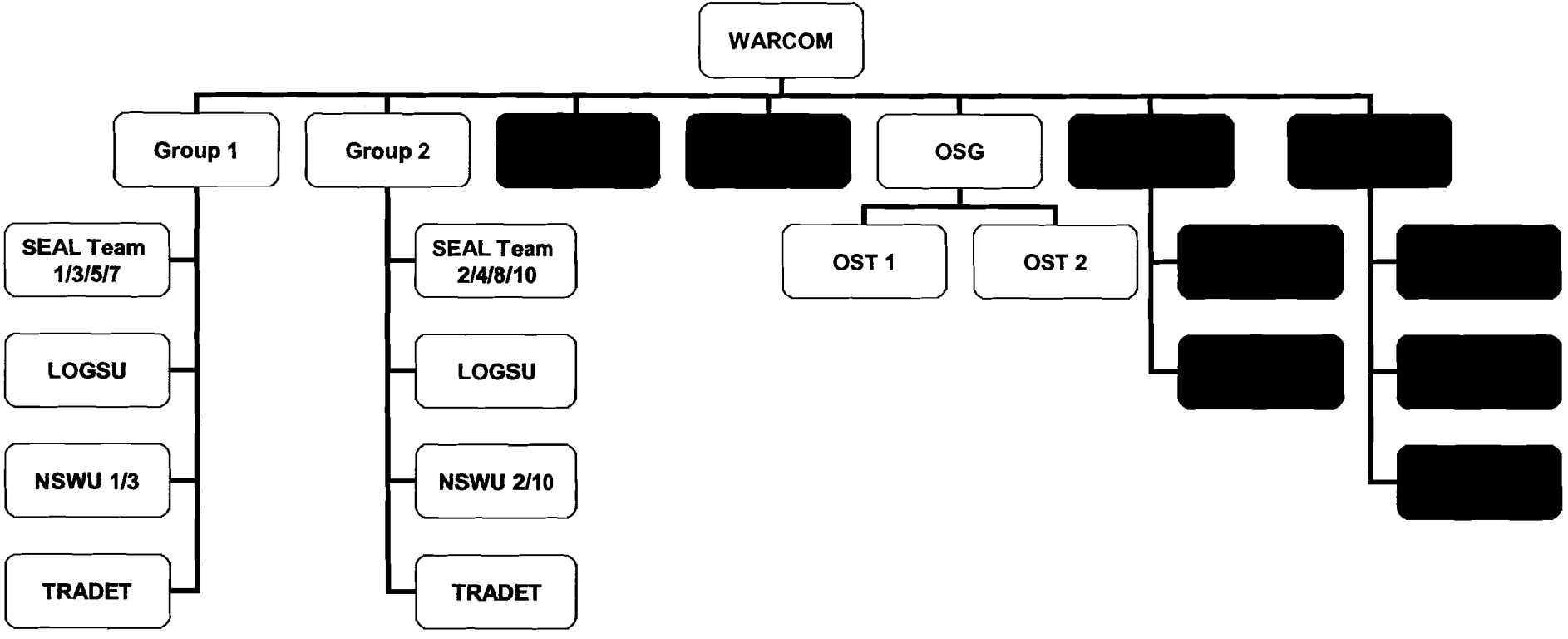


CPO Brock Davidson

Naval Special Warfare

- **Active duty NSW force ~6,000**
  - –Includes support personnel
  - –A little more than 1 percent of total Navy manpower
- **A Navy Warfare Community with ~2,900 Active Duty Operators**
  - –2,320 officer/enlisted SEALs (SEa, Air, Land)
  - –573 enlisted SWCCs (Special Warfare Combatant-craft Crewman)
- **Reserve NSW force ~1,100 personnel**
  - –340 SEAL/SWCCs
  - –775 Support Tech
- **Maritime Component of Special Operations Command (SOCOM)/ Special Operations Branch of U.S. Navy**

How We Are Organized



Naval Special Warfare
Hawthorne Army Depot

- Provides Naval Special Warfare Realistic Training Area to continue the Global War on Terrorism
  - Provides Desert Training at Altitude/Climate and Conditions and Terrain associated with Afghanistan
  - HMWVV Mobility Training and Convoy Training Long range day and night
  - High Angle/Long Distance shooting ranges
  - Mortar and shooting ranges
  - Close Proximity to NAS Fallon
  - Low cost/ 6-8 training cycles a year

HDSOC, LLC

Mr. Jerry Bailey

HDSOC, LLC

- Private limited liability company (LLC), 12 full-time employees, upwards 30 temporary employees will augment every month.
- Terrain and climate mirrors that of the current operational areas.
- Utilizes HWAD facilities and lands to train:
  - Department of Defense military units (USMC, USN)
  - USG Agencies – Border Patrol, US Department of State
  - Other private security companies fulfilling USG contracts in high threat regions in the world.
- Beginning 1 Aug 05, 70 - 110 personnel per month are projected to rotate through HDSOC'S training programs, completely reliant on the services of Hawthorne and Mineral County.
- Continued long term access to HWAD is critical to HDSOC'S success.

Hawthorne Army Depot

Tri-Service Activities

HWAD Tri-Service Activities

- United States Navy Undersea Warfare Center (NUWC) Detachment Hawthorne (tenant)
- United States Marine Corps Programs Office ammunition testing (tenant)
- United States Navy SEAL training
- United States Marine Corps training
- Army Special Forces training
- Puget Sound Naval Shipyard Bulge Plate Explosive Testing/Loading of explosives charges
- United States Navy Range Scrap Processing
- Corps of Engineers FUDS and BRAC Sites Range Scrap Processing
- DLA Elementary Mercury Storage
- HWAD is the test bed for the next generation of robotic security systems

Hawthorne Army Depot

Additional Benefits

Additional Benefits

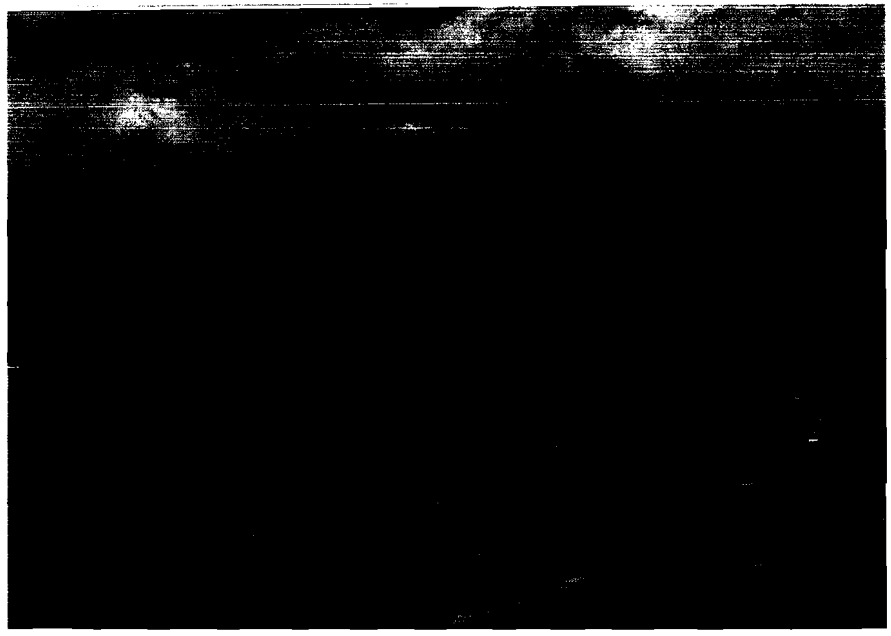
- HWAD is the only Army site with real possibilities for development of Geothermal Energy
  - Seismic evaluation completed
  - Potential 15 to 20 MW power generation plant
  - Uninterrupted power supply in national emergencies to support shipping/receiving
- HWAD's Isolation ensures
  - No encroachment at all
  - Arid desert climate – ideal for storage of munitions or other equipment
  - Environmental friendly permitting
  - Security benefits
  - Continued opportunities for training the war fighter and operation of test range
  - Public safety
- Buildable acreage
  - Magazines
  - Demil Facilities
  - Training Ranges
  - Future Defense Needs
  - Homeland Security Storage Activity

Conclusion

- Hawthorne's mission is to Receive, Store and Issue/Ship, Renovate and Demil conventional ammunition thereby dispelling the "non-deployment" assertion.
- Born out of a disaster in 1926. Hawthorne has served the Warfighter for 75 years. The mission essential nature of the depot remains and can grow. The strategic location of the depot and the unique functions available testify to the current and future military value of the depot.

* Revised from Commissioner Coyle's visit of 11 July 2005

Mission & Training To Support The Joint Warfighter



for HWAD Briefing
in slide order

SINGLE MANAGER CONVENTIONAL AMMUNITION

31 MARCH 1995

Joint Ordnance Commanders Group
Storage Managers Handbook
65th Edition

3AD Party
motorac of
702-2
10,000 sq ft

J-SAC

PCN LFG-0054880

STORAGE MANAGERS HANDBOOK

INSTALLATION SUMMARY-PLANT

SQ FT IN THOUSANDS
SHORT TON (S/T)

AS OF DATE: 31 MAR 95

INSTALLATION NAME: HAWTHORNE LOCATION: HAWTHORNE, NEVADA

	MAGAZINE EARTH-COVERED A	MAGAZINE ABOVE-GROUND B	WAREHOUSE C	OTHER COVERED D	TOTAL COVERED E	OPEN IMPROVED F	UNIMPROVED G
01 GROSS STORAGE SPACE	3,334	2,357	1,980	1994	7,671	152	2,000
02 UNUSABLE	4	5			9		
03 OUTGRANTED	24	136	402		562		
04 STANDBY							
05 AISLE, STRUC, SUPPORT.	661	443	316		1,420	30	
06 NET STORAGE SPACE	2,645	1,773	1,262		5,680	122	2,000
07 TOTAL OCCUPIED	1,759	1,477	818		4,054	122	1,577
08 % OCCUPANCY	67	83	65		71		
09 (S/T)	236,860	170,223	59,800		466,883	17,085	16,144
10 TOTAL VACANT	886	296	444		1,626		423
11 INDUSTRIAL SPACE	70	100	125		295		225
12 OCCUPIED	68	45	17		130		40
13 % OCCUPANCY	97	45	14		44		18
14 (S/T)	7,592	7,217	916		15,725		609
15 VACANT	2	55	108		165		185
16 WHOLESALE SPACE	2,575	1,673	1,137		5,385	122	1,775
17 OCCUPIED	1,691	1,432	801		3,924	122	1,537
18 % OCCUPANCY	66	86	70		73	100	87
19 (S/T)	229,268	163,006	58,884		451,158	17,085	15,535
20 VACANT	884	241	336		1,461		238
21 ARMY OCCUPIED	453	513	100		1,066	3	116
22 (S/T)	70,501	68,885	5,798		145,184	818	1,396
23 AIR FORCE OCCUPIED	265	54	132		451	16	20
24 (S/T)	32,784	7,074	10,145		50,003	2,609	149
25 NAVY OCCUPIED	370	301	418		1,089	78	1,275
26 (S/T)	39,527	24,549	25,964		90,040	9,806	12,217
27 MARINE OCCUPIED	217	202	80		499		44
28 (S/T)	41,893	28,096	13,666		83,655		2
29 DEMIL OCCUPIED	341	333	48		722	23	80
30 (S/T)	40,500	32,767	2,242		75,509	3,851	1,578
31 OTHER OCCUPIED	45	29	23		97	2	2
32 (S/T)	4,063	1,635	1,069		6,767	1	193

[illegible]

This annex contains the rank and score by capability of each Army installation studied during BRAC 2005.

Installation	Rank	Overall Score	Rank	Training Score	Rank	Future Score	Rank	PP Score	Rank	Logisitics Score	Rank	Cost Score	Rank	WB Score
Ft Bliss	1	6.25	3	8.71	7	6.07	13	6.21	7	2.65	21	6.32	41	4.26
Ft Lewis	2	5.76	8	6.56	9	5.87	1	8.29	14	1.87	16	6.57	59	3.28
Ft Hood	3	5.70	10	6.19	1	7.67	5	7.04	16	1.83	38	5.74	50	3.71
Ft Stewart / Hunter AAF	4	5.48	13	5.84	2	6.95	3	7.78	17	1.83	41	5.65	89	2.27
Ft Bragg	5	5.37	9	6.30	10	5.84	2	7.81	25	1.25	35	5.81	77	2.64
Yuma PG	6	5.31	2	9.36	8	5.90	67	1.92	5	2.90	69	4.66	95	1.57
Ft Carson	7	5.26	6	7.10	20	4.35	7	7.00	19	1.80	66	4.82	51	3.62
Dugway PG	8	5.25	5	8.12	10	5.84	64	1.98	4	2.93	18	6.55	56	3.32
Ft Benning	9	5.24	7	6.57	25	4.03	4	7.50	27	1.18	34	5.84	20	5.11
White Sands MR	10	5.16	4	8.39	15	5.23	48	2.43	3	3.26	39	5.72	92	1.89
Ft Wainwright	11	5.09	1	9.71	17	4.69	57	2.14	6	2.78	97	2.50	76	2.64
Ft Knox	12	4.91	14	5.77	23	4.21	12	6.44	12	1.92	14	6.67	52	3.59
Ft Riley	13	4.89	16	5.49	3	6.43	8	6.71	30	1.15	68	4.72	82	2.40
Ft Campbell	14	4.81	17	5.10	4	6.14	6	7.03	28	1.18	59	5.08	84	2.37
Ft Drum	15	4.71	12	6.05	5	6.13	26	4.68	31	1.15	71	4.57	53	3.47
Ft Polk	16	4.67	15	5.76	6	6.11	21	5.16	31	1.15	54	5.22	87	2.28
Ft Irwin	17	4.56	11	6.18	24	4.18	38	3.76	8	2.60	83	4.00	8	5.69
Aberdeen PG	18	4.18	25	3.06	16	4.92	19	5.22	13	1.90	2	7.79	33	4.75
Ft Sill	19	4.03	18	5.03	57	2.26	9	6.62	29	1.17	53	5.30	78	2.49
Schofield Barracks	20	3.95	19	4.88	33	3.82	18	5.26	18	1.82	96	2.96	66	2.97
Ft Huachuca	21	3.86	20	4.34	19	4.54	39	3.60	38	0.99	30	5.96	42	4.22
Ft AP Hill	22	3.68	21	4.06	14	5.34	45	2.83	33	1.13	49	5.40	57	3.32
Ft Dix	23	3.47	29	2.12	34	3.74	16	5.81	64	0.16	23	6.31	4	6.08
Ft Mc Coy	24	3.21	23	3.53	35	3.65	34	3.96	41	0.72	78	4.28	68	2.95
Anniston AD	25	3.19	35	1.04	61	2.01	11	6.46	2	3.42	7	7.05	94	1.68
Ft Jackson	26	3.14	24	3.16	31	3.86	40	3.51	65	0.15	32	5.88	58	3.31
McAlester AAP	27	3.10	37	0.95	18	4.64	20	5.18	21	1.63	26	6.22	85	2.34
Ft Rucker	28	3.07	22	3.63	50	2.53	47	2.73	39	0.94	13	6.71	64	3.02
Ft Richardson	29	3.00	27	2.75	29	3.91	33	3.99	62	0.18	73	4.48	54	3.46
Redstone Arsenal	30	2.99	30	2.00	40	3.20	42	3.15	42	0.71	1	8.47	44	4.09
Hawthorne AD	31	2.97	26	2.87	12	5.56	61	1.99	35	1.11	86	3.65	83	2.39
Crane AD	32	2.92	32	1.22	27	3.97	30	4.39	9	2.38	63	4.98	86	2.31
Ft Eustis	33	2.91	43	0.77	49	2.57	10	6.55	58	0.23	27	6.17	17	5.17
Ft Gordon	34	2.80	28	2.62	30	3.88	77	1.77	54	0.33	42	5.64	26	5.01
Ft Leonard Wood	35	2.79	31	1.60	13	5.44	76	1.78	26	1.19	70	4.61	34	4.70
Ft Lee	36	2.79	49	0.59	39	3.21	14	6.08	67	0.15	37	5.74	37	4.57
Tobyhanna AD	37	2.79	69	0.36	81	1.06	32	4.38	1	4.24	6	7.29	39	4.39
Ft Belvoir	38	2.70	46	0.67	32	3.82	37	3.93	44	0.63	5	7.41	47	3.76
Letterkenny AD	39	2.69	42	0.78	36	3.63	28	4.51	34	1.13	52	5.34	48	3.75
Red River AD	40	2.61	39	0.88	60	2.02	15	5.81	24	1.31	50	5.38	73	2.67
Sierra AD	41	2.49	34	1.07	26	4.00	27	4.57	47	0.55	94	3.37	80	2.44
Tooele AD	42	2.48	40	0.87	41	3.19	31	4.38	45	0.62	46	5.54	70	2.81
Ft Sam Houston	43	2.42	33	1.21	65	1.84	44	2.97	57	0.24	3	7.78	14	5.31
Deseret Chem Plant	44	2.36	41	0.80	28	3.96	46	2.82	63	0.16	57	5.10	30	4.84
Bluegrass AD	45	2.34	53	0.43	80	1.09	17	5.54	43	0.68	56	5.12	12	5.35

Installation	Rank	Overall Score	Rank	Training Score	Rank	Future Score	Rank	PP Score	Rank	Logisitics Score	Rank	Cost Score	Rank	WB Score
Walter Reed AMC	46	2.33	81	0.31	48	2.60	35	3.93	73	0.14	9	6.94	29	4.91
Picatinny Arsenal	47	2.33	50	0.49	21	4.34	79	1.62	50	0.44	15	6.66	16	5.18
Watervliet Arsenal	48	2.25	79	0.33	63	1.96	25	4.69	53	0.33	28	6.13	43	4.11
Ft Meade	49	2.25	78	0.34	38	3.28	51	2.34	67	0.15	17	6.55	2	6.27
Ft Monmouth	49	2.25	62	0.36	58	2.20	36	3.93	48	0.53	11	6.88	46	3.80
Ft McPherson	51	2.22	83	0.30	82	0.97	22	5.10	81	0.14	12	6.75	28	4.92
Ft Gillem	52	2.20	82	0.30	83	0.92	23	5.01	61	0.18	20	6.37	13	5.32
Rock Island Arsenal	53	2.14	59	0.37	73	1.38	29	4.41	37	1.00	19	6.50	72	2.67
MOT Sunny Point	54	2.09	69	0.36	51	2.46	24	4.74	81	0.14	60	5.07	90	2.25
Pueblo Chem Depot	55	2.03	36	1.02	37	3.54	54	2.24	49	0.48	74	4.46	91	2.21
Ft Detrick	56	1.98	69	0.36	62	1.98	58	2.12	59	0.22	4	7.42	18	5.16
Soldier Systems Center	57	1.96	66	0.36	79	1.18	43	3.09	76	0.14	8	7.00	19	5.16
Charles Kelley	58	1.93	69	0.36	84	0.86	41	3.34	73	0.14	43	5.61	1	6.64
Milan AAP	59	1.92	54	0.40	55	2.36	53	2.27	15	1.86	48	5.52	93	1.87
Mississippi AAP	60	1.91	69	0.36	44	2.96	49	2.39	55	0.30	24	6.28	79	2.46
West Point	61	1.88	38	0.93	43	3.09	78	1.67	69	0.15	75	4.42	49	3.73
Ft Leavenworth	62	1.85	60	0.37	47	2.60	82	1.55	66	0.15	47	5.54	5	5.78
Newport Chem Depot	63	1.85	51	0.46	22	4.34	91	1.09	83	0.14	55	5.16	75	2.66
Pine Buff Arsenal	64	1.84	46	0.67	64	1.86	75	1.79	11	1.98	22	6.32	97	0.91
Ft Mc Nair	65	1.83	52	0.44	56	2.27	63	1.98	83	0.14	33	5.87	38	4.52
Ft Myer	66	1.81	62	0.36	59	2.12	65	1.98	76	0.14	31	5.89	27	5.00
Kansas AAP	67	1.80	45	0.68	54	2.38	97	0.74	23	1.46	36	5.81	60	3.28
Ft Monroe	68	1.79	62	0.36	70	1.57	50	2.36	73	0.14	45	5.57	10	5.48
Lake City AAP	69	1.78	66	0.36	46	2.70	93	0.91	46	0.58	51	5.37	11	5.45
Iowa AAP	70	1.78	44	0.68	45	2.73	94	0.88	20	1.66	79	4.18	55	3.37
Lone Star AAP	71	1.73	69	0.36	42	3.18	95	0.86	22	1.48	67	4.77	73	2.67
Adelphi Labs	72	1.71	56	0.37	69	1.74	60	2.00	60	0.22	44	5.59	36	4.62
Ft Hamilton	73	1.69	85	0.27	53	2.40	66	1.92	83	0.14	80	4.16	15	5.30
Detroit Arsenal	74	1.63	61	0.36	75	1.35	87	1.32	71	0.14	10	6.92	31	4.79
Carlisle	75	1.62	55	0.38	71	1.53	80	1.57	76	0.14	40	5.70	21	5.05
Lima Tank Plant	76	1.60	84	0.30	72	1.42	62	1.99	36	1.07	61	5.07	61	3.23
Corpus Christi ADA	77	1.59	62	0.36	85	0.65	90	1.18	10	2.09	25	6.26	65	3.02
Scranton AAP	78	1.55	80	0.33	68	1.75	81	1.56	51	0.41	72	4.53	35	4.63
USAG Michigan	79	1.51	69	0.36	78	1.20	89	1.28	83	0.14	29	6.04	31	4.79
Radford AAP	80	1.51	86	0.24	52	2.41	92	1.02	40	0.85	64	4.97	71	2.75
Ft Shafter	81	1.48	58	0.37	74	1.35	55	2.18	76	0.14	65	4.91	62	3.22
Ft Buchanan	82	1.47	66	0.36	89	0.32	56	2.17	69	0.15	76	4.35	3	6.23
Holston AAP	83	1.44	77	0.34	67	1.78	95	0.86	56	0.28	58	5.08	40	4.37
Presidio Of Monterey	84	1.35	56	0.37	77	1.22	52	2.33	71	0.14	81	4.11	81	2.43
Umatilla Chem Depot	85	1.31	48	0.62	66	1.78	88	1.32	76	0.14	84	3.85	88	2.27
Tripler AMC	87	1.26	69	0.36	86	0.58	58	2.12	83	0.14	77	4.34	66	2.97
Riverbank AAP	89	1.18	87	0.18	76	1.30	86	1.48	51	0.41	62	5.06	96	1.13
Lease - HQ, ATEC	86	1.27	87	0.18	87	0.58	68	1.91	88	0.00	82	4.04	22	5.02
Lease - Rosslyn Complex	88	1.20	87	0.18	88	0.48	68	1.91	88	0.00	87	3.46	22	5.02
Lease - Bailey's Crossroads	90	1.16	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	7	5.74
Lease - Army Research Office	91	1.15	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	9	5.53
Lease - Crystal City Complex	92	1.11	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	22	5.02
Lease - Hoffman complex	92	1.11	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	22	5.02
Lease - ARPERCEN	94	1.06	87	0.18	91	0.00	83	1.49	88	0.00	95	3.22	6	5.75
Lease - PEO STRICOM	95	1.01	87	0.18	90	0.29	83	1.49	88	0.00	87	3.46	45	4.02
Lease - Army JAG Agency	96	0.94	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	69	2.83
Lease - Army JAG School	97	0.91	87	0.18	91	0.00	83	1.49	88	0.00	85	3.80	63	3.07

Candidate Recommendation #IND-0108

Supporting Information

Known or Potential Conflicts: None

Capacity Analysis: Attached. Closure of Hawthorne eliminates 16,510 STONS of Demilitarization capacity and 4,993.8 KSF of storage capacity.

Military Value Analysis: This recommendation relocates storage functions from Hawthorne Army Depot which has a quantitative military value score of 0.578853 (2nd of 23) to Tooele Army Depot which has a quantitative military value score of 0.328174 (5th of 23). The recommendation also relocates demil from Hawthorne Army Depot which has a quantitative military value score of 0.818122 (1st of 13) to Tooele Army Depot which has a quantitative military value score of 0.725705 (2nd of 23). Although Hawthorne has a higher quantitative military value score than Tooele, it is the military judgment of the Industrial Joint Cross Service group that Tooele is the preferred location for storage functions because it establishes a deployment network that supports the readiness posture of all Military departments. As far as out-loading of the Services stocks, the readiness deployment network at Tooele far exceeds that of Hawthorne. Tooele is used to store immediate response or primary sustainment stocks. Accessibility and ease of out-loading are major factors in determining this response category. Hawthorne is used to store secondary sustainment or tier 2 level stocks. Accessibility is the greatest hindrance to Hawthorne ability to support immediate go-to-war readiness.

COBRA Reports: Attached

Criterion Six Report: Attached.

Criterion Seven Report: Attached

Criterion Eight Report: Attached

Summary of Scenario Environmental Impacts: Attached

Force Structure Capabilities: Based upon certified data call to the Military Departments regarding capacity and capability requirements, each Service verified that their response either met or exceeded the capability requirements dictated by the 20-Year Force Structure Plan. This scenario is consistent with their capability requirements.

Candidate Recommendation #IND-0108

Candidate Recommendation: Close Hawthorne Army Depot, NV. Relocate Storage and Demilitarization functions to Tooele Army Depot, UT.

Justification: Capacity and capability for Storage and Demilitarization exists at numerous munitions sites. To reduce redundancy and remove excess from the Industrial Base, the closure allows DoD to create centers of excellence and establish deployment networks that support readiness. Hawthorne AD has infrastructure problems that severely limit the ability to offload.

Payback: The total estimated one-time cost to the Department of Defense to implement this recommendation is $100.98M. The net of all costs and savings to the Department during the implementation period is a cost of $139.42M. Annual recurring savings to the Department after implementation are $74.98M with a payback beginning immediately. The net present value of the costs and savings to the Department over 20 years is a savings of $833.75M.

Impacts

Economic Impact on Communities: Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 146 jobs (86 direct jobs and 60 indirect jobs) over the period 2006-2011 in the Reno-Sparks, NV metropolitan statistical area, which is less than 0.1 percent of the economic area employment.

Community Infrastructure: A review of community attributes indicates no issues regarding the ability of the infrastructure of the community to support missions, forces, and personnel.

Environmental Impact: This recommendation has potential impact on air quality at Tooele Army Depot. While no air permits will be necessary for demilitarization activities, New Source Review and Air Conformity analysis will be required. Additional operations may impact these resources, which may lead to further restrictions. Surveys and consultation with the State Historic Preservation Officer will be required at Hawthorne Army Depot to ensure protection of cultural and historic resources at that installation. Disposition and cleanup of 13 operational ranges will be required at Hawthorne. Federally listed species at Hawthorne include Lahontan cutthroat trout and bald eagle. Continued management and or deed restrictions may be necessary to ensure future protection. Special waste management areas at Hawthorne include RCRA, TSDF, and solid waste disposal facility. Restoration monitoring/sweeps, access controls and/or deed restrictions may be required to prevent disturbance and health/safety risks from these areas. The on-installation sewage treatment plant at Tooele may require upgrade

based on reported permitted/maximum daily outflows or services may need to be purchased from off-installation plant to accommodate additional personnel. Ground water contamination issues at Hawthorne include TCE, TNT, RDX, Petroleum Hydrocarbons (gasoline), PCE, TNB, Tetryl, and DNT. Surface water contamination issues at Hawthorne include UXO. Restoration and/or monitoring of contaminated media may be required after closure. Hawthorne also has domestic and industrial wastewater treatment plants that may require closure. This recommendation has no impact on dredging; marine mammals, resources, or sanctuaries; noise; or wetlands. This recommendation will require a New Source Review and an Air Conformity Analysis at Tooele, and Environmental Baseline Survey at Hawthorne, and National Environmental Policy Act documentation at both Tooele and Hawthorne. The approximately $1.45M cost of these actions was included in the payback calculation. This recommendation does not otherwise impact the costs of environmental restoration, waste management, and environmental compliance activities.

Herman Millsap (PKI)

From: David L. Dillingham (PKI)
Sent: Monday, May 23, 2005 10:25 AM
To: LTC John Summers (PKI); Florentino Cardenas (PKI); Herman Millsap (PKI); Robert Schleef
Cc: Donna Roberts (PKI)
Subject: Mileage from HWAD & Tooele

Here is a break down of mileage to military installations from HWAD and Tooele. The mileage underlined shows distances favorable to Tooele. I used the web application http://www.symsys.com/~ingram/mileage/index.php to calculate the milage.

	Hawthorne, NV	Tooele, UT
Fallon, NV	70	350
Nellis, NV	300	336
Twenty-nine Palms, CA	335	487
Fort Irwin, CA	345	435
Camp Pendleton/Fallbrook, CA	363	564
Camp Parks, CA	230	567
Fort Hunter-Leggett, CA	230	567
San Diego, CA	407	601
China Lake, CA	205	445
El Centro, CA	431	564
Miramar, CA	394	584
Davis-Monthan, AZ	619	580
Fort Huachuca, AZ	678	635
Yuma, AZ	459	554
'ill, UT	390	27
ɔrt Lewis, WA	632	684

David Dillingham
Safety Manager (SJMHW-SF)
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Cell: (775) 316-0005

Candidate Recommendation #IND-0108

Supporting Information

Known or Potential Conflicts: None

Capacity Analysis: Attached. Closure of Hawthorne eliminates 16,510 STONS of Demilitarization capacity and 4,993.8 KSF of storage capacity.

Military Value Analysis: This recommendation relocates storage functions from Hawthorne Army Depot which has a quantitative military value score of 0.578853 (2nd of 23) to Tooele Army Depot which has a quantitative military value score of 0.328174 (5th of 23). The recommendation also relocates demil from Hawthorne Army Depot which has a quantitative military value score of 0.818122 (1st of 13) to Tooele Army Depot which has a quantitative military value score of 0.725705 (2nd of 23). Although Hawthorne has a higher quantitative military value score than Tooele, it is the military judgment of the Industrial Joint Cross Service group that Tooele is the preferred location for storage functions because it establishes a deployment network that supports the readiness posture of all Military departments. As far as out-loading of the Services stocks, the readiness deployment network at Tooele far exceeds that of Hawthorne. Tooele is used to store immediate response or primary sustainment stocks. Accessibility and ease of out-loading are major factors in determining this response category. Hawthorne is used to store secondary sustainment or tier 2 level stocks. Accessibility is the greatest hindrance to Hawthorne ability to support immediate go-to-war readiness.

COBRA Reports: Attached

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Criterion Seven Report: Attached

Criterion Eight Report: Attached

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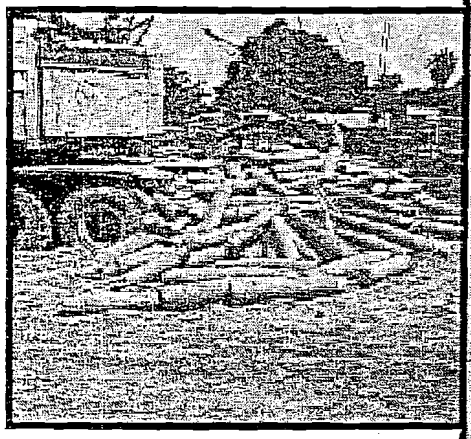
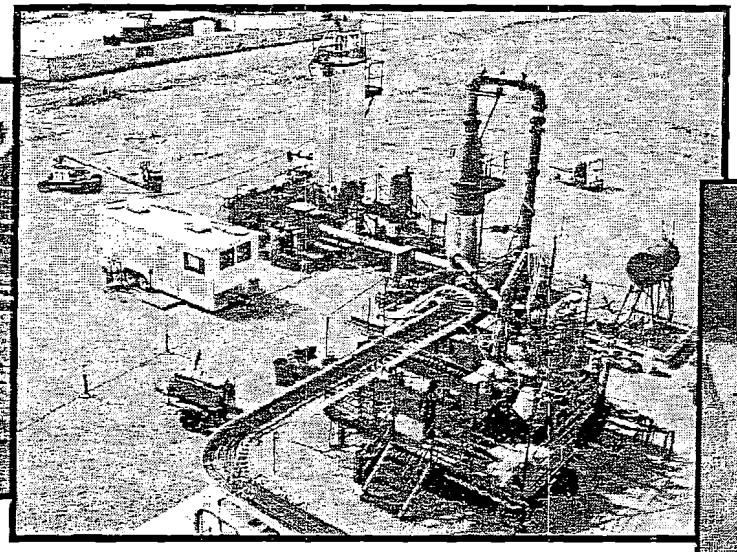
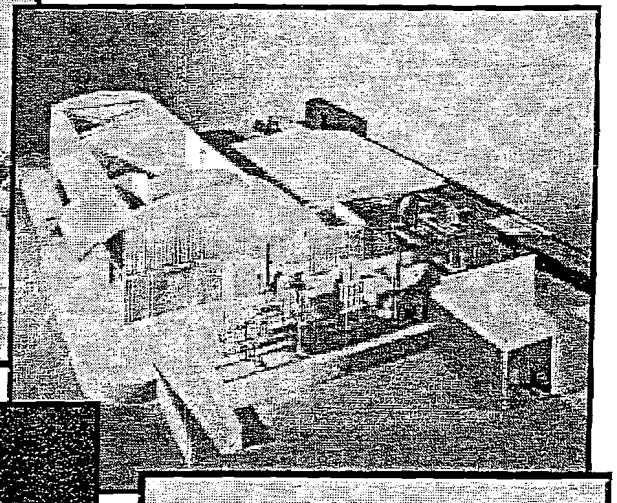
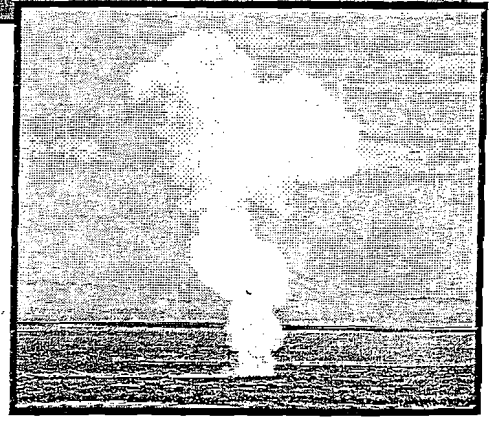
Demilitarization Enterprise







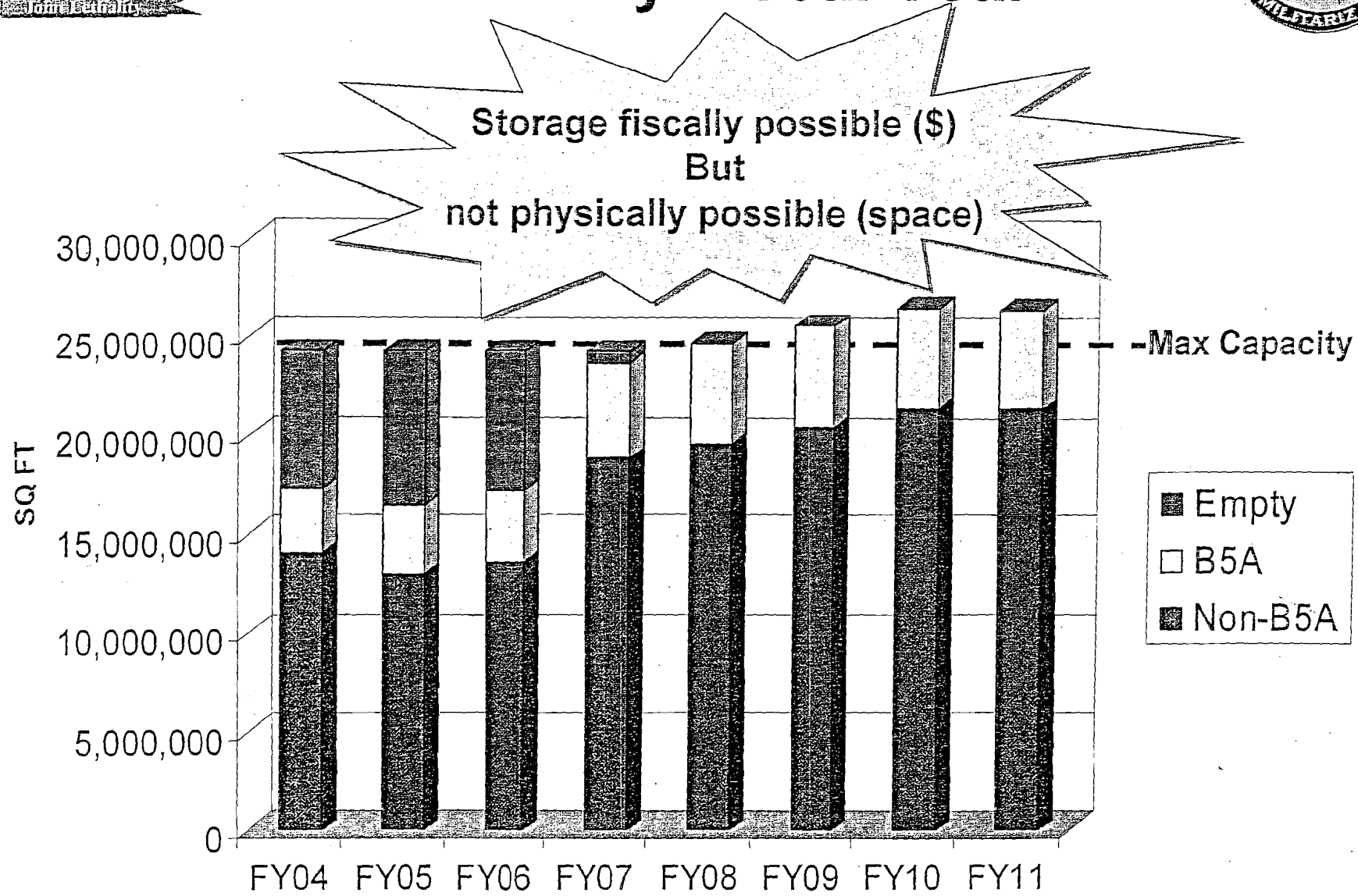
Update for the Joint Demilitarization Symposium



LTC Kevin Jennings
PM Demilitarization

10 May 2005

Wholesale Depot Occupancy Profile by Fiscal Year



Candidate Recommendation #IND-0108

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CLOSE HOLD

Material contained herein is sensitive. Release of data or analysis pertaining to evaluation of military Bases for closure or realignment is restricted until the Secretary of Defense forwards recommendations To the Defense Base Closure and Realignment Commission in May 2005. All individuals handling this Information should take steps to protect the material herein from disclosure.

Deliberative Document – For Discussion Purposes Only
Do Not Release Under FOIA

IND

Sub group and Scenario name

Scenarios "that enable" closure.

Industrial Joint Cross-Service Group
2301 Gallows Rd
Dunn Loring, VA 22182
POC:
Phone:

IJCSG-IND###

[illegible]

This annex contains the rank and score by capability of each Army installation studied during BRAC 2005.

Installation	Rank	Overall Score	Rank	Training Score	Rank	Future Score	Rank	PP Score	Rank	Logisitics Score	Rank	Cost Score	Rank	WB Score
Ft Bliss	1	6.25	3	8.71	7	6.07	13	6.21	7	2.65	21	6.32	41	4.26
Ft Lewis	2	5.76	8	6.56	9	5.87	1	8.29	14	1.87	16	6.57	59	3.28
Ft Hood	3	5.70	10	6.19	1	7.67	5	7.04	16	1.83	38	5.74	50	3.71
Ft Stewart / Hunter AAF	4	5.48	13	5.84	2	6.95	3	7.78	17	1.83	41	5.65	89	2.27
Ft Bragg	5	5.37	9	6.30	10	5.84	2	7.81	25	1.25	35	5.81	77	2.64
Yuma PG	6	5.31	2	9.36	8	5.90	67	1.92	5	2.90	69	4.66	95	1.57
Ft Carson	7	5.26	6	7.10	20	4.35	7	7.00	19	1.80	66	4.82	51	3.62
Dugway PG	8	5.25	5	8.12	10	5.84	64	1.98	4	2.93	18	6.55	56	3.32
Ft Benning	9	5.24	7	6.57	25	4.03	4	7.50	27	1.18	34	5.84	20	5.11
White Sands MR	10	5.16	4	8.39	15	5.23	48	2.43	3	3.26	39	5.72	92	1.89
Ft Wainwright	11	5.09	1	9.71	17	4.69	57	2.14	6	2.78	97	2.50	76	2.64
Ft Knox	12	4.91	14	5.77	23	4.21	12	6.44	12	1.92	14	6.67	52	3.59
Ft Riley	13	4.89	16	5.49	3	6.43	8	6.71	30	1.15	68	4.72	82	2.40
Ft Campbell	14	4.81	17	5.10	4	6.14	6	7.03	28	1.18	59	5.08	84	2.37
Ft Drum	15	4.71	12	6.05	5	6.13	26	4.68	31	1.15	71	4.57	53	3.47
Ft Polk	16	4.67	15	5.76	6	6.11	21	5.16	31	1.15	54	5.22	87	2.28
Ft Irwin	17	4.56	11	6.18	24	4.18	38	3.76	8	2.60	83	4.00	8	5.69
Aberdeen PG	18	4.18	25	3.06	16	4.92	19	5.22	13	1.90	2	7.79	33	4.75
Ft Sill	19	4.03	18	5.03	57	2.26	9	6.62	29	1.17	53	5.30	78	2.49
Schofield Barracks	20	3.95	19	4.88	33	3.82	18	5.26	18	1.82	96	2.96	66	2.97
Ft Huachuca	21	3.86	20	4.34	19	4.54	39	3.60	38	0.99	30	5.96	42	4.22
Ft AP Hill	22	3.68	21	4.06	14	5.34	45	2.83	33	1.13	49	5.40	57	3.32
Ft Dix	23	3.47	29	2.12	34	3.74	16	5.81	64	0.16	23	6.31	4	6.08
Ft Mc Coy	24	3.21	23	3.53	35	3.65	34	3.96	41	0.72	78	4.28	68	2.95
Anniston AD	25	3.19	35	1.04	61	2.01	11	6.46	2	3.42	7	7.05	94	1.68
Ft Jackson	26	3.14	24	3.16	31	3.86	40	3.51	65	0.15	32	5.88	58	3.31
McAlester AAP	27	3.10	37	0.95	18	4.64	20	5.18	21	1.63	26	6.22	85	2.34
Ft Rucker	28	3.07	22	3.63	50	2.53	47	2.73	39	0.94	13	6.71	64	3.02
Ft Richardson	29	3.00	27	2.75	29	3.91	33	3.99	62	0.18	73	4.48	54	3.46
Redstone Arsenal	30	2.99	30	2.00	40	3.20	42	3.15	42	0.71	1	8.47	44	4.09
Hawthorne AD	31	2.97	26	2.87	12	5.56	61	1.99	35	1.11	86	3.65	83	2.39
Crane AD	32	2.92	32	1.22	27	3.97	30	4.39	9	2.38	63	4.98	86	2.31
Ft Eustis	33	2.91	43	0.77	49	2.57	10	6.55	58	0.23	27	6.17	17	5.17
Ft Gordon	34	2.80	28	2.62	30	3.88	77	1.77	54	0.33	42	5.64	26	5.01
Ft Leonard Wood	35	2.79	31	1.60	13	5.44	76	1.78	26	1.19	70	4.61	34	4.70
Ft Lee	36	2.79	49	0.59	39	3.21	14	6.08	67	0.15	37	5.74	37	4.57
Tobyhanna AD	37	2.79	69	0.36	81	1.06	32	4.38	1	4.24	6	7.29	39	4.39
Ft Belvoir	38	2.70	46	0.67	32	3.82	37	3.93	44	0.63	5	7.41	47	3.76
Letterkenny AD	39	2.69	42	0.78	36	3.63	28	4.51	34	1.13	52	5.34	48	3.75
Red River AD	40	2.61	39	0.88	60	2.02	15	5.81	24	1.31	50	5.38	73	2.67
Sierra AD	41	2.49	34	1.07	26	4.00	27	4.57	47	0.55	94	3.37	80	2.44
Tooele AD	42	2.48	40	0.87	41	3.19	31	4.38	45	0.62	46	5.54	70	2.81
Ft Sam Houston	43	2.42	33	1.21	65	1.84	44	2.97	57	0.24	3	7.78	14	5.31
Deseret Chem Plant	44	2.36	41	0.80	28	3.96	46	2.82	63	0.16	57	5.10	30	4.84
Bluegrass AD	45	2.34	53	0.43	80	1.09	17	5.54	43	0.68	56	5.12	12	5.35

Installation	Rank	Overall Score	Rank	Training Score	Rank	Future Score	Rank	PP Score	Rank	Logistics Score	Rank	Cost Score	Rank	WB Score
Walter Reed AMC	46	2.33	81	0.31	48	2.60	35	3.93	73	0.14	9	6.94	29	4.91
Picatinny Arsenal	47	2.33	50	0.49	21	4.34	79	1.62	50	0.44	15	6.66	16	5.18
Watervliet Arsenal	48	2.25	79	0.33	63	1.96	25	4.69	53	0.33	28	6.13	43	4.11
Ft Meade	49	2.25	78	0.34	38	3.28	51	2.34	67	0.15	17	6.55	2	6.27
Ft Monmouth	49	2.25	62	0.36	58	2.20	36	3.93	48	0.53	11	6.88	46	3.80
Ft McPherson	51	2.22	83	0.30	82	0.97	22	5.10	81	0.14	12	6.75	28	4.92
Ft Gillem	52	2.20	82	0.30	83	0.92	23	5.01	81	0.18	20	6.37	13	5.32
Rock Island Arsenal	53	2.14	59	0.37	73	1.38	29	4.41	37	1.00	19	6.50	72	2.67
MOT Sunny Point	54	2.09	69	0.36	51	2.46	24	4.74	81	0.14	60	5.07	90	2.25
Pueblo Chem Depot	55	2.03	36	1.02	37	3.54	54	2.24	49	0.48	74	4.46	91	2.21
Ft Detrick	56	1.98	69	0.36	62	1.99	58	2.12	59	0.22	4	7.42	18	5.16
Soldier Systems Center	57	1.96	66	0.36	79	1.18	43	3.09	76	0.14	8	7.00	19	5.16
Charles Kelley	58	1.93	69	0.36	84	0.86	41	3.34	73	0.14	43	5.61	1	6.64
Milan AAP	59	1.92	54	0.40	55	2.36	53	2.27	15	1.86	48	5.52	93	1.87
Mississippi AAP	60	1.91	69	0.36	44	2.96	49	2.39	55	0.30	24	6.28	79	2.46
West Point	61	1.88	38	0.93	43	3.09	78	1.67	69	0.15	75	4.42	49	3.73
Ft Leavenworth	62	1.85	60	0.37	47	2.60	82	1.55	66	0.15	47	5.54	5	5.78
Newport Chem Depot	63	1.85	51	0.46	22	4.34	91	1.09	83	0.14	55	5.16	75	2.66
Pine Buff Arsenal	64	1.84	46	0.67	64	1.86	75	1.79	11	1.98	22	6.32	97	0.91
Ft Mc Nair	65	1.83	52	0.44	56	2.27	63	1.98	83	0.14	33	5.87	38	4.52
Ft Myer	66	1.81	62	0.36	59	2.12	65	1.98	76	0.14	31	5.89	27	5.00
Kansas AAP	67	1.80	45	0.68	54	2.38	97	0.74	23	1.46	36	5.81	60	3.28
Ft Monroe	68	1.79	62	0.36	70	1.57	50	2.36	73	0.14	45	5.57	10	5.48
Lake City AAP	69	1.78	66	0.36	46	2.70	93	0.91	46	0.58	51	5.37	11	5.45
Iowa AAP	70	1.78	44	0.68	45	2.73	94	0.88	20	1.66	79	4.18	55	3.37
Lone Star AAP	71	1.73	69	0.36	42	3.18	95	0.86	22	1.46	67	4.77	73	2.67
Adelphi Labs	72	1.71	56	0.37	69	1.74	60	2.00	60	0.22	44	5.59	36	4.62
Ft Hamilton	73	1.69	85	0.27	53	2.40	66	1.92	83	0.14	80	4.16	15	5.30
Detroit Arsenal	74	1.63	61	0.36	75	1.35	87	1.32	71	0.14	10	6.92	31	4.79
Carlisle	75	1.62	55	0.38	71	1.53	80	1.57	76	0.14	40	5.70	21	5.05
Lima Tank Plant	76	1.60	84	0.30	72	1.42	62	1.99	36	1.07	61	5.07	61	3.23
Corpus Christi ADA	77	1.59	62	0.36	85	0.65	90	1.18	10	2.09	25	6.26	65	3.02
Scranton AAP	78	1.55	80	0.33	68	1.75	81	1.56	51	0.41	72	4.53	35	4.63
USAG Michigan	79	1.51	69	0.36	78	1.20	89	1.28	83	0.14	29	6.04	31	4.79
Radford AAP	80	1.51	86	0.24	52	2.41	92	1.02	40	0.85	64	4.97	71	2.75
Ft Shafter	81	1.48	58	0.37	74	1.35	55	2.18	76	0.14	65	4.91	62	3.22
Ft Buchanan	82	1.47	66	0.36	89	0.32	56	2.17	69	0.15	76	4.35	3	6.23
Holston AAP	83	1.44	77	0.34	67	1.78	95	0.86	56	0.28	58	5.08	40	4.37
Presidio Of Monterey	84	1.35	56	0.37	77	1.22	52	2.33	71	0.14	81	4.11	81	2.43
Umatilla Chem Depot	85	1.31	48	0.62	66	1.78	88	1.32	76	0.14	84	3.85	86	2.27
Tripler AMC	87	1.26	69	0.36	86	0.58	58	2.12	83	0.14	77	4.34	66	2.97
Riverbank AAP	89	1.18	87	0.18	76	1.30	86	1.48	51	0.41	62	5.06	96	1.13
Lease - HQ, ATEC	86	1.27	87	0.18	87	0.58	68	1.91	88	0.00	82	4.04	22	5.02
Lease - Rosslyn Complex	88	1.20	87	0.18	88	0.48	68	1.91	88	0.00	87	3.46	22	5.02
Lease - Bailey's Crossroads	90	1.16	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	7	5.74
Lease - Army Research Office	91	1.15	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	9	5.53
Lease - Crystal City Complex	92	1.11	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	22	5.02
Lease - Hoffman complex	92	1.11	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	22	5.02
Lease - ARPERCEN	94	1.06	87	0.18	91	0.00	83	1.49	88	0.00	95	3.22	6	5.75
Lease - PEO STRICOM	95	1.01	87	0.18	90	0.29	83	1.49	88	0.00	87	3.46	45	4.02
Lease - Army JAG Agency	96	0.94	87	0.18	91	0.00	68	1.91	88	0.00	87	3.46	69	2.83
Lease - Army JAG School	97	0.91	87	0.18	91	0.00	83	1.49	88	0.00	85	3.80	63	3.07

IJCSG - Munitions / Armaments Capacity Report

Function	*Site*	*Current Capacity**	*Current Usage**	*Maximum Capacity**	*Capacity Required To Surge**	*Capacity Available to Surge/Excess Capacity**
MUNITIONS STORAGE						
	ANNISTON ARMY DEPOT	3,296.4	2,293.9	3,296.4	0	1,002.5
	BLUE GRASS ARMY DEPOT	6,021.0	4,817.4	6,021.0	0	1,203.6
	CRANE ARMY AMMUNITION ACTIVITY	8,020.8	5,721.3	8,020.8	0	2,299.5
	DESERET CHEMICAL DEPOT	909.0	709.0	909.0	0	200.0
	HAWTHORNE ARMY DEPOT	9,738.0	5,603.0	9,738.0	0	4,135.0
	HOLSTON AAP	405.8	90.6	405.8	0	315.2
	IOWA AAP	1,148.8	503.4	1,148.8	0	645.4
	KANSAS ARMY AMMUNITION PLANT	1,238.5	895.9	1,238.5	0	342.6
	LAKE CITY AAP	1,094.0	1,094.0	1,094.0	0	0.0
	LETTERKENNY ARMY DEPOT	3,613.4	2,472.2	3,613.4	0	1,141.2
	LONE STAR AAP	1,030.6	824.5	1,030.6	0	206.1
	LOUISIANA AAP	350.0	270.4	350.0	0	79.6
	MCALESTER AAP	10,637.1	6,522.0	10,637.1	0	4,115.1
	MILAN AAP	3,258.1	829.9	3,258.1	0	2,428.2
	MISSISSIPPI AAP	105.4	0.0	105.4	0	105.4
	NEWPORT CHEM DEPOT	11.6	11.6	11.6	0	0.0
	PINE BLUFF ARSENAL	4,192.2	3,794.4	4,192.2	0	397.8
	PUEBLO CHEM DEPOT	1,475.2	161.6	1,475.2	0	1,313.6

* Capacity is measured in ksf

IJCSG - Munitions / Armaments Capacity Report

Function	*Site*	*Current Capacity**	*Current Usage**	*Maximum Capacity**	*Capacity Required To Surge**	*Capacity Available to Surge/Excess Capacity**
MUNITIONS STORAGE						
	RADFORD AAP	921.2	641.6	921.2	0	279.6
	RED RIVER ARMY DEPOT	2,747.6	1,732.9	2,747.6	0	1,014.7
	SIERRA ARMY DEPOT	5,649.5	1,019.0	5,649.5	0	4,630.5
	TOOELE ARMY DEPOT	5,239.6	3,265.0	5,239.6	0	1,974.6
	UMATILLA CHEM DEPOT	2,457.7	728.1	2,457.7	0	1,729.6

* Capacity is measured in ksf

HWAD Challenge: Inaccurate data on HWAD's transportation network that paints a negative shipping/receiving scenario. In fact, HWAD's on time shipping and receiving statistics are among the best among all depots.

- **BRAC Question 333**: Rail Capacity
- **BRAC Question 829**: Rail Outload Capability (Railhead – Capacity)
- **BRAC Question 831**: Rail Outload Capability (Railhead – Infrastructure)
- **BRAC Question 833**: Motor Outload Capability
- **BRAC Question 834**: Motor Outload Support Capability
- **BRAC Question 835**: Air Outload Capability
- **BRAC Question 2830**: Distance in Miles to Most Frequently Used Distribution Nodes
- **BRAC Question 2429**: Maximum STONS Munitions Outload Per Day

Discussion:

Answers provided to the above certified questions factually show a robust deployment network that has a proven record that supports the readiness posture of all military departments. Under Section 6 recommendations (page Ind – 12) Industrial Joint Cross-Service Group states that "Hawthorne Army Depot has infrastructure problems that severely limit the ability to offload" and Candidate Recommendation #IND-0108 – supporting information states that "accessibility is the greatest hindrance to Hawthorne ability to support immediate go-to-war readiness". These assessments were based on military judgment opinions and not well analyzed. These judgments should be changed or revised to reflect the true military value at HWAD which is the primary criteria for consideration of total military value under the BRAC criteria requirements.

HWAD also has the following intangible attributes that appear not to have been considered by those doing the review.

- Three state-of-the-art container pads for loading and unloading MILVANs and commercial containers. These sites are located in different areas of the depot which enables non-congested loading from different magazine area. These sites are in the Central Magazine Area, South Magazine Area, and North Magazine Area. Each independent site has been cited for 500,000 lbs of N.E.W. The sites have a work area of 500x200 feet of concrete pad with a square yardage of 10,000 sq yds. Each site contains an office building, block and bracer shops, covered dock and lumber storage, railroad spurs, paved access roads, lightning protection, site lighting, and associated utilities. The pads were constructed in 1996, with a total cost of the three pads $8,113,000. These pads give HWAD an unprecedented off-loading capability. In addition, HWAD has MHE in abundant supply to meet all Army scenarios.
- Six loading/offloading docks with multiple rails and truck access each with 12,000 sq ft of inside preparation area and the outside docks are 14 ft in width on all four sides of the docks. Docks 4 and 6 have four rail spur lines to support operations.
- A newly completed 6,000 ft runway.
- Access to Naval Air Station Fallon, one-hour from HWAD, for virtually unlimited C-17 sorties per day. This Naval Air Station is one of the largest in the Navy Command.

- 1,130 magazine sites, serviced by both rail and truck, which give HWAD unlimited shipping and receiving capabilities. Additionally, 1,298 sites are serviced by truck and offloading docks.
- HWAD has 600 miles of road network and 213 mile of rail serving its magazine areas, ensuring accessibility and multiple shipping operations of ammunition commodities. HWAD's spur line to the commercial railroad is 54 miles of Army owned track, which is maintained by the depot contractor and operated by Southern Pacific Railroad. The track is inspected weekly and maintained in accordance with FRA Class II standards. The 54 mile line was upgraded with 133 lb continuous welded rail (CWR) at a cost of $23,000,000. The construction included rebuilding the trestles over the Walker River and eliminates potential delays from rare flooding events of this river. The track is in very good condition and able to support Army shipping/receiving missions for the foreseeable future.
- HWAD is the closest major facility to the west coast shipping ports and major users of ammunition assets and can provide assets on-time more quickly than any other facility on the west coast to these users.
- HWAD is served by excellent state and federal highways with access to the east, south and north. These highway systems are not encumbered by high traffic volumes or frequent weather problems. The federal and state highway systems serving HWAD are major highways connecting to I-5, I-40 and I-80. The road network is in excellent condition and capable of handling thousands of vehicles and trucks per day. These existing road networks ensure HWAD can receive and ship on schedule and on time to support critical Army requirements.

Bottom Line: Isolation of HWAD, which was cited as a reason to close the depot, is in fact an attribute that supports keeping this vital depot open. Review of historical records at HWAD reveal, in no case, was isolation a factor in meeting our primary objective in shipping and receiving ammunition. The isolation cited has intangible benefits, such as, preventing exposure of heavily populated areas to possible risk from explosion or fire, safety and public relations benefits, no encroachment, no air containment, and friendly environmental permitting. Isolation and limited population also provides excellent opportunities for training the warfighters and test ranges. HWAD is no more vulnerable to natural occurring events that could effect any installation in meeting its obligations in shipping and receiving.

Florentino Cardenas (PKI)

From: Florentino Cardenas (PKI)
Sent: Thursday, July 07, 2005 10:49 AM
To: 'Beuster, Alan R Mr JMC'; Florentino Cardenas (PKI)
Cc: 'Lundberg, Jay A Mr JMC'; 'Budelier, Gary L Mr JMC'; 'Blake, Kevin C Mr JMC'; LTC John Summers (PKI); Florentino Cardenas (PKI)
Subject: RE: Results of Logistics Review, HWAD

Al,
Thanks, this is exactly what were looking for.

R-
TINY

-----Original Message-----
From: Beuster, Alan R Mr JMC [mailto:alan.r.beuster@us.army.mil]
Sent: Wednesday, July 06, 2005 3:34 PM
To: Florentino Cardenas (PKI)
Cc: Lundberg, Jay A Mr JMC; Budelier, Gary L Mr JMC; Blake, Kevin C Mr JMC
Subject: RE: Results of Logistics Review, HWAD

Tiny--Sorry I didn't get this to you sooner but please find attached a summary on the HWAD review, as requested. We will continue working to get the full report done.

Thanks.
Al Beuster

From: Florentino F. Cardenas [mailto:florentino.f.cardenas@us.army.mil]
Sent: Friday, June 24, 2005 1:54 PM
To: 'Beuster, Alan R Mr JMC'
Subject: RE: Results of Logistics Review, HWAD

Al,
Thanks, this is great. We just ggot news from the Clovis, N.M. hearings that the Commission will do a site visit of HWAD sometime mid-July so your summary next week will go along ways towards helping us hopefully turn the tide. Thanks again and look forward to hearing from you.

R-
TINY

-----Original Message-----
From: Beuster, Alan R Mr JMC [mailto:alan.r.beuster@us.army.mil]
Sent: Friday, June 24, 2005 11:27 AM
To: Florentino Cardenas (PKI)
Subject: RE: Results of Logistics Review, HWAD

Tiny--I'm sorry the report has not yet been completed. Sure

have had good intentions but life has been very hectic and I'm way behind.

Do not have a summary ready to send but will work on that and get one done. Will try to get that prepared in the next few days and get it out to you.

I know life must be very tough with the BRAC announcements but I hope otherwise things are okay. Hang in there.

Thanks, and will get something out to you.

Al Beuster

From: florentino.f.cardenas@us.army.mil [mailto:florentino.f.cardenas@us.army.mil]
Sent: Thursday, June 23, 2005 10:32 AM
To: alan.r.beuster@us.army.mil
Cc: johnny.summers@us.army.mil; florentino.f.cardenas@us.army.mil
Subject: Results of Logistics Review, HWAD

Al,
I need a favor. As you are probably aware we are attempting to get a site vist by the BRAC Commission and compiling information to dispel the ambiguous data in the Comission recommedation to close HWAD. We are using the last two JMC assessments as part of our briefing charts and would like to use a summarized version of your findings if you are willing to share the info. I am being told that the entire report is not completed; therfore, a summary would more than suffice. Thanks for your consideration.

R-
TINY

SUMMARIZATION FROM THE AMMUNITION LOGISTICS REVIEW HELD AT HAWTHRONE ARMY DEPOT 6-7 APRIL 2005

The Ammunition Life Cycle Management Command must deliver the right ammunition on time to meet both training and warfighter needs. Therefore, the Government owned depot base must have the right capability/capacity and trained people "on the ground" to meet the logistics requirements. To establish a capability/capacity baseline, an ammunition logistics onsite review was conducted at Hawthorne Army Depot (HWAD), April 2005. The purpose of the review was to create a living document that outlines the current capacities/capabilities for storage, outloading, demil, and maintenance at HWAD. While a full report is being prepared from this review, the paragraphs that follow is a summarization of the findings.

HWAD has tremendous logistics capabilities that can be relied on to perform their mission. At a size of 147,236 acres, HWAD is the largest depot in the Army. Their capabilities mirror this size. Consider, for example, the infrastructure. HWAD has 2,915 structures, 267 miles of railway, 600 miles of roadway, and 7.68 million square feet of storage space. Their workforce is skilled and experienced. HWAD is a Government Owned facility operated by Day and Zimmermann (D&Z). D&Z has the workforce in place to meet all mission needs. During the review they demonstrated a professionalism and responsiveness reflective of the private sector business world.

Outloading is the most critical function at any logistics facility. Most everything at HWAD is mobile (with over 147,000 acres they have to be). That is, rail capability exists right to storage sites and trucks can be loaded right at the igloos. In total, 6 outloading/transfer docks exist (one side rail and the other side trucks), 3 container pads and a rail interchange yard.

Another important aspect of outloading is available transportation modes and routes. In this regard HWAD looks to be more than adequately suited. Specific means of transportation available to HWAD includes access to two highways (routes 95 and 359), direct access to main railroad line, and relatively close to three airfields (Hawthorne Airport which was upgraded in the last year (longer runway) now allowing for bigger aircraft and larger loads to takeoff and land, 73 miles to Fallon where the Navy drops 85% of its CONUS bombs for training, and overnight to Travis Air Force Base). One of the

concerns that had been expressed regarding rail access was rail shutdown due to weather related damages and only one rail line into the depot. However; investigation in these areas revealed that only one rail shut down had occurred in the last 20 years and that was only for a short time; and, the rail access could be corrected at an estimated $1 million with the addition of a rail spur.

Storage space represented by HWAD is enormous and dwarfs all other depots. HWAD has more than 2,400 storage structures. Because of the desert environment HWAD is in, maintenance of these facilities and equipment is relatively easy. Covered available storage space is 5,650,000 square feet with 56 percent of this space being occupied. Density for storage (occupied square feet divided by short tons) is 10.41. Because of their location and access the Navy has begun treating HWAD as a primary storage site. In addition to munitions, HWAD also has become the storage site for industrial plant equipment. More than 11 warehouses store equipment. HWAD was chosen for this purpose because of their maintenance free desert environment.

HWAD has a very extensive resource recovery and recycling center of conventional ammunition. The Western Area Demilitarization Facility (WADF), perhaps the most versatile conventional ammunition demilitarization facility ever constructed, was built at HWAD between 1974 and 1982 at a cost of $80 million. The 160 acre complex consists of nine production buildings and six support buildings with the capability to perform various remotely operated ammunition breakdown operations followed by extensive melt-out or washout/ steam-out explosive removal operations. Deactivation and decontamination operations are conducted in either the RF-9 rotary kiln furnace, a refractory lined flashing furnace, or a hot gas decontamination chamber for large items. In addition, capability is being established for a Plasma Ordnance Demilitarization System (PODS). For those items that cannot be recovered or recycled, Hawthorne has two ranges for open burning and open detonation.

HWAD also has many buildings/facilities capable for ammunition maintenance operations. Some of these facilities are located within WADF, but many are not. Hawthorne was built by the US Navy and therefore construction is typical of Navy facilities. Most of the structures constructed with concrete and with the arid conditions in Nevada, are still in very good structural condition.

A unique mission/capability that HWAD possesses that is worth special mention is their training facilities. Because of the desert, mountain environment they are in, as well as the large space they have, this installation has been determined to have ideal facilities for training troops for overseas assignments. This includes high altitude patrolling, high angle sniper range, desert live fire convoy training, and desert convoy operations. Since 1 January until the time of this review in April; 2,500 soldiers, sailors, and Marines had been trained at HWAD. During this review, Navy Seals were observed to be out in the area training.

HWAD truly represents tremendous logistics capabilities. And thanks to the professionalism, knowledge and cooperation of all the folks at HWAD, this review was considered a success.

BILBRAY: Let's talk about, you know, Hawthorne Army Depot. You're closing down certain Army depots, and of course, it's not in my old district, but it's in Northern Nevada, and I'm just curious what the rationale – I know that you go out there and you see pillbox after pillbox – not pillbox, but storage facility after storage facility.

Do we have the capability to store munitions like you do at Hawthorne in other areas?

HARVEY: Yes, we have significant excess in munitions storage in the complex. And again, what we're trying to do is to get production and storage, distribution and demilitarization all in a couple of places.

And we have these five joint munitions centers that we're going to do that in, Crane, McAlester, Milan, Iowa and Pine Bluff. So we have significant excess capacity, and Hawthorne was simply a storage facility. It had no active production, no active demil, no active distribution.

BILBRAY: Let's talk a little bit about the forts, McPherson, Gillem and Monroe. What was the logic behind closing of those?

HARVEY: That, again, is to – that's a move to get multiuse sites and to get out of bases that are confined, that are in urban centers, that really don't have a lot of military value in that sense. So what we wanted to do was to go from basically installations of low military value to ones that are higher.

And if you look at the list of military value of those, Fort McPherson, Gillem and Monroe, they were on the low side, and then as we migrate, we get the synergies and the cost of ownership that is associated – for example, taking ForceCom to the Bragg complex. That was the thought there.

COLLEGE: The smaller, single-function installations from a military value perspective – one of the things that we looked at was not just what was the installation doing today, but what was its capabilities for new or increased missions in the future.

And at places like Monroe and McPherson and Gillem, there is not very much ability to expand and perform new missions in the future. And yet you have relatively large overhead accounts to be able to run those posts to the standard that the Army needs to achieve.

So it made a lot of sense to us to put them on multifunction, larger posts with other organizations that they would work with, and to have buildable acres and other capabilities, potentially to pick up new missions as their part of the Army's mission evolves over time. So it's really a combination of how do you transform the installations (inaudible) so that the Army is more effective in the future than it is today, and at the same time you generate efficiencies by getting out of some of the overhead of running the smaller installations that, frankly, could close, and we could still get the mission accomplished somewhere else.

BILBRAY: You know, in our discussions amongst ourselves on this commission, in looking at the amount of troops that are coming home, many of us felt like maybe the Army rushed in the last BRACs to close too many bases, and that when the military comes home from Europe, the 70,000, or 42,000 for the Army, that you may need another Fort Ord or something like that to be able to handle these kind of troops.

Have you thought about in the future – again, you're talking about how you're going to split these all up, but the fact is if you're increasing your Army by 30,000, you're bringing 42,000 people home, it seems like to me that we shouldn't rush into closing down facilities that we may need in the future, even if it's five, 10, 15 years, because it's going to be very difficult in the future to obtain military bases.

As you well said, the ranges, the training facilities that you cannot get, and you go back today and try to open a military base, and it's going to be damn hard on the Army to ever open a new base that has adequate facilities.

And so that's what we're trying to do across the complex. And there are clearly, as you articulated, there are clearly risks involved in that, and it's our job to try to manage that risk. It's to get that capability, and I guess personally I've been involved where I've had people look around for Mr. Right for two or three years rather than hiring a bright guy out of a great technical school and giving him six months and saying, wow, he really knows what he's doing.

And so there are people, there are young people out there that surprise you, and quickly get up to speed. So it's a balance between those two things. It's life I guess -- I guess what I'm saying, life's a compromise. And this is a balancing act to take advantage of that center of excellence.

MR. BILBRAY: Well, I disagree with that decision, but let's go on to question two. Let's talk about Hawthorne Army Depot. You're closing down certain Army depots. And of course, it's not in my old district, but it's in Northern Nevada. I'm just curious what the rationale -- I know you go out there and you see pillboxes after pillboxes -- not pillbox, but storage facility after storage facility. Do we have the capability to store munitions like we do at Hawthorne and other areas?

MR. HARVEY: We have significant excess in munition storage in the complex. And again, what we're trying

to do is to get production and storage distribution and demilitarization all in a couple of places. And we have these five joint munition centers that we are going to do that in Crane, McCleeser, and Pine Bluff.

So we have significant excess capacity and Hawthorne was simply a storage facility. It had no active production, no active demil, no active distribution.

MR. BILBRAY: Let's talk a little about the Forts McPherson, Gillem and Monroe. What was the logic behind the closing of those?

MR. HARVEY: That, again, is to -- that's a move to get -- to get multiuse sites and to get out of bases that are confined and have -- that are in urban centers that really don't have a lot of military value in that sense.

So what we wanted to do was to go from basically installations of low military value to ones at higher. And if you look at the list of military value of those, Fort McPherson, Gillem and Monroe, they were on the low side. And then as we migrate, we get -- we get the synergies and the cost of ownership that is associated, for example, taking FORSCOM to the Bragg -- to the Bragg/Pope complex. That was the thought there.

DR. COLLEGE: The smaller single function installations from a military value perspective, one of the

10 February 2005

Industrial JCSG Briefing Notes

Date: Friday, February 4, 2005 **Time:** 15:00-16:00 **Place:** 3E1019

JCSG Chairman: Acting USD (AT&L) Honorable Michael Wynne
JCSG Executive Secretary: Mr. Jay Berry

JCSG Key Attendees:
- RADM Bill Klemm, Naval Sea Systems Command, Logistics, Maintenance and Industrial Operations Directorate
- Mr. Allen Beckett, Associate Director for Maintenance, USAF
- Ms. Willie Smith

Red Team Attendees:
- Honorable H.T. Johnson
- Honorable Robin Pirie
- General Leon Salomon
- Mr. John Turnquist

Subject: Candidate Recommendation Briefing by Industrial JCSG to BRAC Red Team

Presenter: Honorable Michael Wynne

Items of import:
- Functional breakout: munitions, maintenance, ship overhaul and repair
- Utilized tools: optimization model, IVT, COBRA
- Be aware there are some negative paybacks
- Contingencies/followers/enablers are exist and are clearly noted

Questions that arose:
- Data Security (Johnson and Salomon)
  - One individual gate-keeper
  - Data will be available to Commission and Congress
  - Updates were made to a copy, to double check for mistakes, then originals were changed
- Specific data question: Labor Rates (Salomon)
  - Not often similar estimates across services, how were these reconciled/verified?
    - Suggestion made to make chart to explain how labor rates were made comparable across depots/installations/services
- Combat field support – new terminology (Salomon)
  - Included all non-deployable intermediate
    - Suggestion made to not use this term, as it is unclear what it means
- Did 50-50 play into recommendations? (Salomon)
- Does intermediate follow the fleet? *Yes.* (Johnson)
- How did you ensure you accounted for all IM activity, the universe?
  - Depot work done at non-depot centers

- How did you handle special repair activities? Is this depot repair? (Salomon)
- What are the time limits on CDM closure/missions completeness?
  - RE: does this follow the BRAC rule for being completed in 6 year time frame?
  - Furthermore, how do these closures fit into strategy?

Informal observations provided at briefing:

- Refrain from using new terminology like combat field support
- BRAC goals should be your strategy while stated strategy should be your approach
- Strategy is what you want to keep as it falls in line with the FSP

Additional observations to consider:

- IND – 0024: Does not seem to be consistent with strategy. There is a stated strategy to consolidate depots with intermediate-level ship maintenance activities. Relationship of working capital fund accounting conversion and application of criteria 1-4 is very unclear.
- IND – 0030: Criteria 7 indicates increased housing cost in San Diego. By policy, criteria 7 examines "the availability if both the existing and potential receiving communities infrastructure to support the force, missions, and personnel." BAH allowance adjust for differing cost of housing expenses, does it not?
- IND – 0096: Should strengthen ties to strategy justification to better explain why a realignment of $15K NPV and 18 year payback is worthwhile.
- IND – 0108: Relocation to a receiving site which has lower military value. Explanation is military judgment due to readiness support, accessibility and out-loading ease, however, none of these are mentioned in the strategy. Should strengthen argument by using strategy to augment military judgment in over-riding military value.
- IND – 0118, IND – 0119, IND – 0120: Chemical demilitarization mission extends past BRAC completion date; may be considered disestablishments rather than closures. Should strengthen justification and strategy argument to explain inclusion in institutions not yet built with on-going missions past 6 years.
- IND – 0121: Please indicate to what PBX and Zuni refer.

Herman Millsap (PKI)

From: HWAD (PKI)
Sent: Thursday, June 30, 2005 7:31 AM
To: Herman Millsap (PKI)
Subject: FW: BRAC 2005 Inquiry - E0127

Errors - Tier III; no maintenance of munitions done; heavy rainfall
-----Original Message-----
From: Debbie Sitton
Sent: Wednesday, June 29, 2005 2:44 PM
To: Lucy Engebretsen
Subject: FW: BRAC 2005 Inquiry - E0127

Lucy,
Here is the email that I have. I hope this is what you are looking for. Let me know.

I apologize it took me so long to do.
Debbie
-----Original Message-----
From: BRACO Webmaster [mailto:brac2005@hqda.army.mil]
Sent: Wednesday, May 18, 2005 8:22 AM
To: 'debbie.sitton@us.army.mil'
Subject: BRAC 2005 Inquiry - E0127

Thank you for your recent inquiry. In a recent e-mail you asked:

You state in your back up data why Hawthorne was selected - infrastructure offload capabilities. Would you be more specific?

In addition, you also state that the impact to jobs, etc. is less than .0% in the Reno/Sparks area. In case you didn't notice, we are 135 miles southeast of Reno. The closure of this facility will devastate this town of a population of 3000 people."

In response:

Hawthorne is right now serving as a TIER III serviceable stock storage site, rather than immediate readiness response to the war-fighter it has only one rail spur and has problems with offloading during heavy rainfall. Additionally, Hawthorne's principal mission is for the storage of and demilitarization of munitions; it does not produce or maintain munitions. Based on the Demil and storage requirements generated by the Military Department out through 2025, the modernized industrial based retained will be multi-functional and capable of fulfilling customer requirements for production, maintenance, Demil, and storage.

The assigned Metropolitan Statistical Area (MSA), based on census data, for Hawthorne Army Depot is the Reno/Sparks Area.

Army BRAC 2005 Operations Center
RAC2005@hqda.army.mil

1-888-309-6359
http://www.hqda.army.mil/acsim/brac/default.htm

Explanation of Munitions Storage Chart

The chart quotes the Army numbers for Ammunition Storage (see Table 61 – Ammunition Storage – Army Analyses and Recommendations). The sites highlighted in red are sites that are scheduled for closure or realignment as follows:

Deseret Chemical Depot: Deseret is scheduled for closure by BRAC. In addition DA-BRAC 2005-Analyses and Recommendations Page A-88 says, "...and the four chemical demilitarization sites, which will close at the completion of the Chem Demil mission." The storage igloos and magazines will transfer to Tooele Army Depot.

Hawthorne Army Depot: Closed by BRAC

Kansas AAP: Closed by BRAC

Lone Star AAP: Closed by BRAC

Mississippi AAP: Closed by BRAC

Newport Chemical Depot: Newport is scheduled for closure by BRAC. In addition DA-BRAC 2005-Analyses and Recommendations Page A-88 says, "...and the four chemical demilitarization sites, which will close at the completion of the Chem Demil mission."

Pueblo Chemical Depot: DA-BRAC 2005-Analyses and Recommendations Page A-88 says, "...and the four chemical demilitarization sites, which will close at the completion of the Chem Demil mission."

Red River: Closed by BRAC

Sierra Army Depot: Sierra is being realigned and the munitions storage function is moving to Tooele Army Depot.

Umatilla Army Chemical Depot: Umatilla is scheduled for closure by BRAC. In addition DA-BRAC 2005-Analyses and Recommendations Page A-88 says, "...and the four chemical demilitarization sites, which will close at the completion of the Chem Demil mission."

LOGIC:

1. When determining available assets, the Army included installations that are closing when they figured their assets. They will not have these assets if they close them and cannot be included as available assets. Rather than 49,393 KSF, they will actually have 33,319 KSF after BRAC. (49,393 – 16074 = 33319) Note: This total includes the assets that Tooele will get from Deseret.

2. The goal of JMC is to be filled at 85% capacity (Army Analyses and Recommendations – page A-89). If you subtract 15% so that capacity will be at 85%, the **remaining assets equal 28,321 KSF.**

3. The requirements will remain the same – **29949 KSF**. The stock at the sites slated to be closed will have to be moved to the remaining sites. The requirements exceed the capacity. Perhaps, the requirements at the chemical plants will be depleted. Even deducting those requirements (547+12+162=721) the requirements will still be **29228 KSF which still exceeds the assets 907 KSF.**

4. None of these figures takes into consideration security and safety concerns such as storage compatibility, CAT I, and CAT II. There are also no references to retrograde that will be returned when the war is over.

Munitions Storage Capacity

SITE	FUNCTION	CAPACITY*	CURRENT USAGE*	AVAILABLE*
ANNISTON	MC	1990	1404	587
BLUEGRASS	MC	3966	3173	793
CRANE	PROD	4892	3515	1377
DESERET	CHEM	717	547	170
HAWTHORNE	MC	6303	3712	2591
HOLSTON AAP	PROD	203	45	158
IOWA AAP	PROD	1143	503	639
KANSAS	PROD	939	661	278
LAKE CITY	PROD	942	942	0
LETTERKENNY	MC	2343	1404	939
LONE STAR	PROD	902	722	180
LOUISIANA	PROD	350	270	80
MCAAP	PROD	6925	4240	2686
MILAN	PROD	2169	590	1579
MISSISSIPPI	PROD	105	0	105
NEWPORT	CHEM	12	12	0
PINE BLUFF	PROD	3970	3702	268
PUEBLO	CHEM	1475	162	1314
RADFORD	PROD	461	321	140
RED RIVER	MC	1801	1203	598
SIERRA	PROD	4537	845	3691
TOOELE	MC	3250	1977	1273
UMATILLA	CHEM	0	0	0
TOTAL		**49393**	**29949**	**19445**

Assets After BRAC**	**33319**		
Less 15%***	**4998**		
Actual Assets	**28321**		
Requirements		**29949**	
Requirements without chemical		**29228**	
Assets/Requirements (rqmts less ch	**28321**	**29228**	-907

*KSF
Current assets minus assets that will be lost during BRAC (includes those gained by Tooele from Deseret when they close)
**JMC Storage Goal 85%

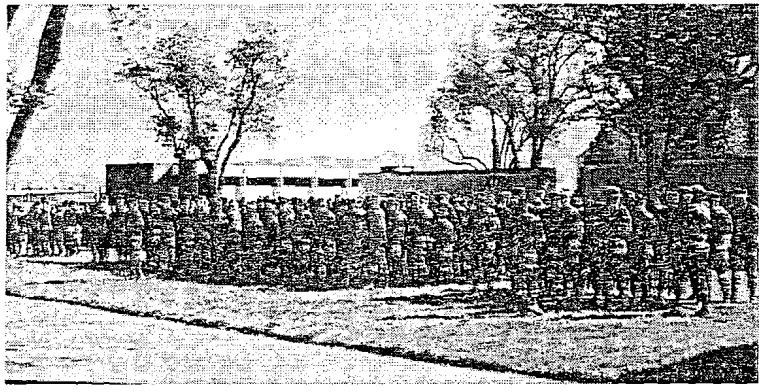
SITE	FUNCTION	CAPACITY	CURRENT USAGE	AVAILABLE
ANNISTON	MC	1990	1404	587
BLUEGRASS	MC	3966	3173	793
CRANE	PROD	4892	3515	1377
DESERET	CHEM		547	-547
HAWTHORNE	MC		3712	-3712
HOLSTON AAP	PROD	203	45	158
IOWA AAP	PROD	1143	503	639
KANSAS	PROD		661	-661
LAKE CITY	PROD	942	942	0
LETTERKENNY	MC	2343	1404	939
LONE STAR	PROD		722	-722
LOUISIANA	PROD	350	270	80
MCAAP	PROD	6925	4240	2686
MILAN	PROD	2169	590	1579
MISSISSIPPI	PROD		0	0
NEWPORT	CHEM		12	-12
PINE BLUFF	PROD	3970	3702	268
PUEBLO	CHEM		162	-162
RADFORD	PROD	461	321	140
RED RIVER	MC		1203	-1203
SIERRA	PROD		845	-845
TOOELE	MC	3250	1977	1273
UMATILLA	CHEM	0	0	0
TOTAL		**32603**	**29949**	2654

Assets After BRAC	32604	
Less 15%	4891	
Actual Assets	27713	
Requirements		29949
Requirements without chemical		29228

HIGHLIGHTS

OUTLOADING & RECEIVING ACTIVITIES

- **DESERT STORM/DESERT SHIELD SHIPMENTS**
  - 70,140 Tons 8/90 – 2/91
  - 3,156 Trucks / 1,005 LTL's / 890 Railcars
- **DESERT SHIELD RETURNS**
  - 175,000 Tons / 1 Shipment 60,000 Tons / 2,500 Containers
- **KOSOVO**
  - 467 Containers Out-loaded in 10 Days – 96 Containers p/Day
- **GOLDEN CARGO**
  - 21,900 Tons in 6 Weeks / 34 Trucks p/Day
- **TURBO CADS**
  - 50+ Containers p/Exercise
- **SIERRA**
  - 23,000 Tons – 6 Weeks
- **KOREAN RETROGRADE**
  - 1,100 Containers



Current Warfighter Support 7,800+ Tons!

did not develop an overall military value score for activities in the depot and intermediate maintenance functions. Because military value scores were only determined for activities by commodity, activities were only ranked within their respective commodities. For example, Rock Island Arsenal, Illinois, received a military value score for its combat vehicle maintenance workload and was ranked accordingly against all the other depot level activities that perform combat vehicle maintenance. In addition, because most activities involve multiple commodities, such as major maintenance functions like aircraft engines, electronics, etc., many of the activities received multiple military value scores. In the case of Rock Island Arsenal, it not only received a military value score for its combat vehicle maintenance work but also for its tactical vehicle maintenance work and its other equipment maintenance work. These military value scores were then used in an optimization model to determine the best locations to consolidate various like commodities among the three services. In all cases, the subgroup examined redistributing the workload to activities with a higher military value score for that commodity. According to the maintenance subgroup, determining military value by commodity allowed for more opportunities to create interservicing[3] and consolidations of workload among the services. The maintenance subgroup's process was focused on military value and available capacity without regard to service. The final recommendations were tempered by financial and operational considerations. However, as we discuss later, our analysis shows that while some interservicing may be achieved, most of the group's recommendations remained relatively service-centric. The ship overhaul and repair and munitions and armaments subgroups, on the other hand, developed overall military value scores for activities within their respective functions and ranked their activities within those functions accordingly. For example, all shipyards were ranked together under the depot maintenance function, and all industrial activities that perform munitions production were ranked together under the munitions production function.

DOD Inspector General's and Service Audit Agencies' Role in the Process

The DOD Inspector General and the service audit agencies played important roles in ensuring that the data used in the industrial group's data analyses were certified and properly supported. Through extensive audits of the data collected from field activities during the process, these audit

[3] The term interservicing is used here to refer to the consolidation of common workloads of more than one service under a single military service.

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY JOINT MUNITIONS COMMAND
1 ROCK ISLAND ARSENAL
ROCK ISLAND, IL 61299-6000

REPLY TO
ATTENTION OF:

S: 18 Jul 05

SFSJM-DC

JUN 29 2005

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Hawthorne Army Depot (HWAD) Final Installation Report and Corrective Action Plan

1. Reference the US Army Joint Munitions Command Assessment Team's 18-22 Apr 05 on-site visit. Enclosures 1 and 2 are the visit's final report and corrective action plan.

2. I am strongly committed to ensuring our Supply Depot Operation (SDO) processes are in strict compliance with all governing regulations and munitions movements are handled with extreme safety and security. The referenced assessment report identifies recommendations that will bring non-compliant SDO processes into compliance and enhance process efficiencies at HWAD. The recommendations must be implemented by Headquarters, US Army Field Support Command; Headquarters, US Army Joint Munitions Command; and the HWAD staffs. I expect prompt implementation of all recommendations identified. Full compliance with established SDO regulations and guidance at your storage activity is paramount.

3. Corrective actions will be tracked using the excel spreadsheet at enclosure 2. The organizations listed below are responsible for ensuring their respective recommendations are properly implemented and reported conditions are promptly resolved.

a. Inventory: JMC SFSJM-CT and HWAD.

b. Document Control: JMC SFSJM-CT and HWAD.

c. Physical Security: AFSC AMSFS-FP and HWAD.

d. Quality Assurance/Surveillance: JMC SFSJM-QA and HWAD.

e. Transportation: AFSC AMSFS-ST and HWAD.

f. Explosive Safety: AFSC AMSFS-SF, DAC SJMAC-ES, and HWAD.

Printed On Recycled Paper

JUN 22 2005

SFSJM-DC
SUBJECT: Hawthorn Army Depot (HWAD) Final Installation Report and Corrective Action Plan

4. The Command staffs and HWAD will establish corrective actions, completion dates, and forward them to SFSJM-LG NLT COB 11 Jul 05 for consolidation. Follow on status updates will be provided NLT the fifth working day of each month. AMSFS-IA will assist SFSJM-LG in monitoring the corrective actions implementation until completion.

5. The POC is Mr. Rickey Peer, SFSJM-CTA, DSN 793-2307, e-mail peerr@afsc.army.mil.

2 Encls
as

BILLY J. DOWDY
Colonel, OD
Deputy Commander

DISTRIBUTION:

LTC Johnny M. Summers, Commander, 1 South Maine Avenue, Hawthorne, NV 89415-9404
US Army Field Support Command, Mr. Dave Enders/AMSFS-FP, Mr. Richard Nesbitt/AMSFS-ST, Ms. Lorraine Jestel/AMSFS-IA, 1 Rock Island Arsenal, Rock Island, IL 61299-6500
US Army Joint Munitions Command, Mr. Steve Mapley/SFSJM-LG, Mr. Raymond McMillin/SFSJM-LGG, Ms. Kathy George-Reading/SFSJM-CT, Mr. Greg Zelnio/SFSJM-QA, 1 Rock Island Arsenal, Rock Island, IL 61299-6000

Action Required from AR 15-6 Investigation
8 Mar 2005

Activity	Suspense Date	Status	Corrective Action	Additional Corrective Action	17-Mar-05	POC
AD Management Control Program POC: Maintains a copy ·sessment report in the Management Control Program files ıent the assessment was performed in FY 05 and its results; the existing "MANAGEMENT CONTROL EVALUATIONS CTED WITHIN (HAWTHORNE ARMY DEPOT) IN FISCAL 005" enclosure and forward a copy to the BGAD ment Control Administrator (MCA) for forwarding to the HQ, CA. List this assessment as P – Process Review; Receives ıle of audits, inspections, and other reviews, performed and ɜd at HWAD during the FY. Any audits, inspections, and /iews, completed during the FY and before the HQ, AFSC ment control suspense should appear in enclosure 2, EMENT CONTROL EVALUATIONS CONDUCTED WITHIN IORNE ARMY DEPOT) IN FISCAL YEAR XX. For those ıspections, and other reviews completed after the HQ, anagement control suspense, they should go into enclosure following FY.						HWAD
icable HWAD managers must evaluate the audit, n, or other reviews, results and determine if key controls ıce and working as intended. After this evaluation, provide ɔcumentation regarding their evaluation to the HWAD ıder and HWAD Management Control Program POC.						HWAD

U S ARMY JOINT MUNITIONS COMMAND MUNITIONS FACILITIES ASSESSMENT TEAM

HAWTHORNE ARMY DEPOT ASSESSMENT REPORT

17 – 21 APRIL 2005 ON-SITE VISIT

12 MAY 2005

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INTRODUCTION

The US Army Joint Munitions Command (JMC) munitions facilities assessment team performed a Supply Depot Operations (SDO) on-site compliance review at Hawthorne Army Depot (HWAD) during the period 18 - 21 Apr 05. Specifically, a thirteen (13) person team visited HWAD and reviewed its inventory and accountability (receipt, storage, and issue), document control, physical security, quality assurance and surveillance, transportation, explosive safety, maintenance, and demilitarization, munitions functions for compliance with governing SDO regulations and Command guidance and policies. Headquarters, US Army Field Support Command (HQ, AFSC), Headquarters, US Army Joint Munitions Command (HQ JMC), US Army Defense Ammunition Center (DAC), and Blue Grass Army Depot (BGAD), logistics Subject Matter Experts (SMEs) participated in the assessment.

Assessment standards:

- Assigned staff collectively has the knowledge and skills to properly perform the assessment.

- Exercise due professional care: Use sound judgment in establishing the assessment's scope, methodology, tests, and procedures.

- Properly plan assessment's work.

- Gather, review, and analyze, the best available relevant, sufficient, and competent, documentary, physical, and testimonial, information to determine if the sites properly follow policies, procedures, and regulations, governing the JMC SDO mission and functions.

Assessment approach: Use Command checklists, Army Regulation (AR) 11-2, 01 Aug 94, Army Programs - Management Control, and DAC review guides, to assess the functional areas compliance with governing SDO guidance.

In-brief: 18 Apr 05 briefed HWAD Commander, HWAD Civilian Executive Assistance (CEA), Day and Zimmerman Hawthorne Corporation (DZHC) Plant Manager and key HWAD and DZHC functional personnel, on the assessment's objectives.

Out-brief: 21 Apr 05 discussed the draft assessment results with the HWAD Commander, HWAD CEA, DZHC Plant Manager, and key HWAD and DZHC functional personnel, and provided them with the installation's Wellness Report.

EXECUTIVE SUMMARY

1. We evaluated the following functional areas during the review and assigned them a Green, Amber, or Red rating.

- Green rating: Controls are established and working as intended. The process is in full compliance with governing SDO regulations, Command guidance, or both.

- Amber rating: Controls are established; but not working as intended. The process is in partial compliance with governing SDO regulations, Command guidance, or both.

- Red rating: Controls are not established or personnel are not following established controls. The process is in non-compliance with governing SDO regulations, Command guidance, or both.

2. During the 18 - 21 Apr 05 on-site visit, the Assessment Team reviewed six (6) mission areas and 53 individual processes within these areas. We found the following conditions at HWAD: (I) controls established and working as intended and (II) controls established; but not working as intended. Based upon this report's established rating criteria, HWAD receives an overall Green report rating.

3. The assessment team prepared 54 daily worksheets and assigned 48 Green ratings, five (5) Amber ratings, and zero (0) Red ratings, to the 53 individual processes reviewed. *Note: Two (2) daily worksheets pertained to the same mission area individual process and we rolled them into one (1) process rating. HWAD can accomplish continuous process improvements through implementing and executing the 80 recommendations identified in this section. In addition, HWAD resolving the reported Amber ratings and bringing them into full compliance with the governing SDO regulations should achieve process improvements. The Assessment Team's recommendations are as follows. We are establishing target dates of completion for the applicable HQ, AFSC, HQ, JMC, and HWAD/DZHC, organizations.

a. Inventory overall report rating: Green. HWAD received eleven (11) Green, one (1) Amber, and zero (0) Red, individual process ratings from the Assessment Team SMEs. The Green rating recommendations are for additional inventory process improvements. To move the one (1) Amber report rating to a Green report rating, HWAD needs to

properly attach the two dimensional bar codes to the pallets.

1. Count Five Program:

- Recommendation(s): None.

2. Two-Dimensional (2-D) Bar Coding:

- Recommendation(s):

- HWAD immediately corrects the deficiencies identified in the Discussion section.

- HWAD consistently comply with Headquarters, US Army Operations Support Command memorandum, 11 Oct 02, subject: Application of Two-Dimensional (2-D) Bar Code Labels to Ammunition Stockpile, as bar codes will become extremely important in depot operations and ensure that bar code labels are properly attached to all assets stored in the magazine.

3. Inventory Adjustments:

- Recommendation(s):

- HWAD immediately reconciles the Korean assets to properly support the country agreement requiring strict stored assets monitoring and tracking.

- HQ JMC, SFSJM-CTA, follow-ups on the reconciliation within 30 days from this review.

4. Inventory Reconciliation:

- Recommendation(s): None.

5. Physical Inventory - Category (CAT) III and IV:

- Recommendation(s):

- HWAD immediately corrects the noted deficiencies at buildings 002006, 005018, 008013, 081007, 112013, 11610A, and 11614A.

- HWAD must ensure all stored assets properly have their 2-D bar code label(s) and MDC(s) attached.

6. Critical Storage Capacity:

- Recommendation(s):

- HQ, JMC, SFSJM-CTA, supports HWAD by inducting more serviceable and training stocks.

- HQ, JMC, SFSJM-CTA, use the HWAD available space to provide relief to the near capacity Crane Army Ammunition Activity (CAAA) and McAlester Army Ammunition Plant (MCAAP) storage activities.

7. Regulations, Standard Operating Procedures (SOPs), and Desk Procedures:

- Recommendation(s): HWAD continues to keep their Internal Operating Procedures (IOPs) current and updated to reflect current processes.

8. Investigations and Reports of Survey:

- Recommendation(s): None.

9. Physical Inventory - CAT I and II:

- Recommendation(s):

- HWAD considers re-warehousing buildings with small lots into one building.

- HWAD places the MDCs on each pallet in the building and change markings on boxes with Lot #DUW80K0001-002 with correct quantity.

- HWAD properly attaches all bar code labels to assets utilizing twist-wire or zip ties to prevent lost.

- HQ, JMC, SFSJM-CTA, review this process in the next Command assessment.

10. Local Account (11) Management:

- Recommendation(s):

- HWAD updates their valid accounts with proper account Points of Contact (POCs) and viable address.

- HWAD appoints an Accountable Property Book Officer (ACTPO), in accordance with AR 735-5, 28 Feb 05, Property Accountability - Policies and Procedures for Property Accountability, chapter 2, section III, paragraph 2-10, for the 11 accounts and provides a copy to the HQ, JMC, SFSJM-CTA, ACTPO.

- HQ, JMC, SFSJM-CTA, review this process in the next Command assessment.

11. Sealed and Unsealed Sites:

- Recommendation(s):

- HWAD continues to monitor the building dropping problem and check all sealed buildings through Standard Depot System (SDS) screen 9323 before accepting into the physical program.

- HQ, JMC, SFSJM-CTA, clearly defines performing the sealed site inventory process in the forthcoming US Army Materiel Command Regulation (AMC-R) 740-27 revision.

12. Inventory Quality Control:

- Recommendation(s):

- HWAD continues to execute its Quality Control (QC) program in their usual thorough and efficient manner.

- HWAD Surveillance immediately starts using DA Form 4508 instead of their local Form 389.

b. Recordkeeping and Document Control overall report rating: Green. HWAD received 11 Green, one (1) Amber, and zero (0) Red, individual process ratings from the Assessment Team SMEs. The Green rating recommendations are for additional document control process improvements. To move the one (1) Amber report rating to a Green report rating, HWAD must properly display and positions its multiple lots' Magazine Data Cards (MDCs).

1. Key Control Process:

- Recommendation(s):

- HWAD continues with existing procedures and ensures all personnel received updated training/guidance for the current manual key control program.

- HWAD considers the feasibility of installing the HQ, JMC automated key control program.

2. Supply Discrepancy Report (SDR) Controls:

- Recommendation(s):

- HWAD establishes an IOP for processing SDRs.

- HWAD establishes a log that tracks all incoming and outgoing SDRs.

- HWAD and DZHC pursue converting the manual SDR log to an automated SDR log.

- HQ, JMC, SFSJM-CTA, follow-up within 30 days of receipt of the final assessment report to ensure HWAD fully complies with SFSJM-CTA memorandum, 03 Mar 05, Headquarters, US Army Joint Munitions Command (JMC) Policy for Munitions Supply Discrepancy Reports (SDRs).

3. Management Control Number (MCN) Processing:

- Recommendation(s): HQ, JMC, SFSJM-CTA, provides fully coordinated and properly vetted instructions to the installation regarding the administration of MCNs and MCN Inventories (MCNIs), and the complete instruction for viable data migration.

4. Ammunition Transfer Record (ATR) Controls:

- Recommendation(s):

- HWAD continues its efficient and accurate ATR processing. The HWAD organizations submitting ATRs should be instructed on the importance of timely submission of paperwork.

- HWAD Surveillance uses the DA Form 4508 to record ammunition moves in accordance with (IAW) AMC-R 740-25, 01 May 00, Storage and Supply Activities - Ammunition Stock Location System, and submits it to Inventory in a timely manner.

- HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

5. Magazine Data Card (MDC) Controls:

- Recommendation(s): HWAD immediately complies with the AMC-R 740-25 requirement to place each individual MDC with its corresponding lot.

6. Concealed Discrepancy Reporting:

- Recommendation(s): HWAD provides notification of concealed discrepancies to HQ, JMC, SFSJM-CTA, on a quarterly basis.

7. Receipt Posting:

- Recommendation(s):

- HWAD continues stressing the importance of accurate and timely receipt postings.

- HWAD develops a follow-up process for a tenant such as the Marine Corps, since their documentation tardiness counts against HWAD.

- HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

8. Receipt Control Number (RCN) Process:

- Recommendation(s): HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

9. Receipt Reversal:

- Recommendation(s): HWAD works with HQ, JMC to help bring other installations up to standard.

10. Materiel Release Order (MRO) Processing and Controls:

- Recommendation(s):

- HWAD immediately reconcile the open ZAXs and ZAX listing to ensure there are no shipping documents on the ZAX listing for materiel already shipped.

- HWAD continues to maintain current OPTEMPO for upkeep expediting the obligation of new MROs, the immediate input of phone-out MROs and the attention to use of ZMR/ZMXs.

- HWAD continues maintaining current oversight of the use of ZMR/ZMXs.

- HWAD promptly administers cancellations to the custodial record and informs shipping location supervisors of the cancelled requirement so that return to storage location can be accomplished.

- HWAD schedules one-on-one training with the site coordinator to use the Munitions Transportation Management System - Field Module (MTMS-FM) transportation system that is already in place at Hawthorne.

11. Maintenance and Demilitarization Planning and Management:

- Recommendation(s):

- HWAD continues to pay great attention to the details for ensuring safe and efficient operations.

- HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

12. Storage Planning and Management:

- Recommendation(s):

- HQ, JMC, SFSJM-CTA, make greater use of unused HWAD storage space, which should decrease the cost per ton.

- HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

c. Physical Security overall report rating: Green. HWAD received six (6) Green, zero (0) Amber, and zero (0) Red, individual process ratings from the Assessment Team SME. The Green rating recommendations are for additional investigations and reports process improvements and continuing interim measures to protect their CAT I and II materiel until the Department of the Army responds to the HWAD waiver.

1. Serious Incident Report (SIR) Processing:

- Recommendation(s): None.

2. Security Plan:

- Recommendation(s): None.

3. Investigations and Report Processing:

- Recommendation(s): To make a good investigations and reports process even better, DZHC should consider adding the use of the following two (2) forms to the reporting system when they apply:

- DA Form 3056, Report of Missing/Recovered Firearms, Ammunition and Explosives. This will give closure to SIRs filed in cases of stolen or unaccounted for AA&E. Both this form and the SIR are filed with the Office of the Provost Marshal General.

- DA Form 4833, Commander's Report of Discipline or Administrative Action. This will show in the file the final outcome of an investigation when a perpetrator is identified and judicial or administrative action is taken.

4. Intrusion Detection System (IDS) Requirement:

- Recommendation(s): HWAD continues with existing compensatory measures and await approval action from the Department of the Army.

5. Entry and Exit Control:

- Recommendation(s): None.

6. Maintenance Operations:

- Recommendation(s): None.

d. Quality Assurance and Surveillance overall report rating: Amber. HWAD received two (2) Green, three (3) Amber, and zero (0) Red, individual process ratings from the Assessment Team SMEs. The Green rating recommendations are for additional suspension and restriction verification process improvements. To move the three (3) Amber report ratings to Green report ratings, HWAD must address its

Condition Code K (CC-K) inspection backlog, properly complete DD Form 626, and implement and execute its proposed magazine inspections "get-well" plan.

1. Return Material Operations:

- Recommendation(s): None.

2. Condition Code K:

- Recommendation(s): SFSJM-QAS evaluate the CC-K backlog at the storage activities and determine its effect(s) on war-fighter stocks asset posture. For HWAD, if the backlog's effect is negative, elevate the need for contract modification and additional funding to AMSFS-CC.

3. Verification of Suspension and Restriction:

- Recommendation(s):

- HWAD reviews the suspension tag program for accuracy and completeness.

- When stocks can not be found in storage, immediately notify Inventory and follow-up until stocks are found or adjustment made.

4. Transportation and Conveyance Inspection:

- Recommendation(s):

- HWAD Quality Assurance Specialist (Ammunition Surveillance) (QASAS) immediately instructs DZHC to complete required the required DD Form 626 blocks.

- When monitoring this process, the HWAD QASAS places more emphasis on the inbound shipments' required DD Form 626 blocks.

5. Storage Magazines Inspection:

- Recommendation(s): HWAD executes its proposed get well-plan identified in the Discussion section.

e. Transportation overall report rating: Green. HWAD received ten (10) Green, zero (0) Amber, and zero (0) Red, individual process ratings from the Assessment Team SMEs.

The Green rating recommendations are for additional process improvements.

1. Shipping Process, Procedures, and Documentation:

- Recommendation(s): None.

2. Receiving Process, Procedures, and Documentation:

- Recommendation(s):

- HWAD continues reviewing all the IOPs and making updates as needed/required.

- HWAD revises the Incoming Shipments IOP and forwards the revision to HQ, AFSC, AMSFS-ST, care of Mr. Dave Tipp and Mr. Melvin Outen.

3. Tracking (Inbound and Outbound):

- Recommendation(s): None.

4. Carrier Performance Program:

- Recommendation(s): HQ, AFSC, AMSFS-ST, pursues a quicker and simpler process for issuing Letters of Warning (LOWs). IAW the Defense Transportation Regulation (DTR) Department of Defense (DOD) 4500.9 (4500.9-R), November 2004, Part II - Cargo Movement, chapter 207, LOWs and non-use notification currently must be sent via registered mail to carriers. Replies/responses from carriers are also sent via U.S. Postal Service. A possible solution may be to allow LOWs be sent via electronic mail (email). Also, allow carriers to respond via email. Non-use notification would remain via registered mail.

5. Secure Holding:

- Recommendation(s):

- HWAD updates the 19 Mar 03 IOP to reflect name change of Military Traffic Management Command (MTMC) to Surface Distribution and Deployment Command (SDDC). In addition, add a statement on the 48 hour rule for compliance with the 19 Apr 03 MTMC/SDDC memo.

- HWAD forwards a copy of the updated IOP to HQ, AFSC, AMSFS-ST, care of Mr. Dave Tipp and Mr. Melvin Outen.

6. Equitable Distribution of Movement Workload:

- Recommendation(s): None.

7. Container Control Management:

- Recommendation(s): HQ, AFSC, AMSFS-ST, provides the JMC storage activities with Command Container Management Policy that provides clear container management requirements guidance within 120 days of final report release.

8. Transportation Facility Guide (TFG):

- Recommendation(s): HWAD continues with current operation. Global Freight Management (GFM) is being updated as required and within required guidelines. If any problems with Electronic Transportation Acquisition (ETA)/TFG program arise, identify "exact" program/software problems and forward to HQ, AFSC, AMSFS-ST, care of Mr. David Tipp and Mr. Melvin Outen.

9. Standard Operating Procedures and Desk Procedures:

- Recommendation(s): None.

f. Explosive Safety overall report rating: Green. HWAD received (8) Green, zero (0) Amber, and zero (0) Red, individual process ratings from the Assessment Team SME. The Green rating recommendations are for additional process improvements.

1. Responsibility Assignment and Organizational Staffing:

- Recommendation(s):

- HWAD and DZHC continue to execute the safety program in accordance with established regulatory guidance.

- The DZHC Safety Program document is shared with other organizations as an example that presents a comprehensive compilation of safety requirements.

- Both HWAD and DZHC continue to execute and enforce an effective safety program.

2. Regulations Availability and Currency:

- Recommendation(s): None.

3. Explosive Licenses:

- Recommendation(s): HWAD consider pursuing the acquisition of DOD sponsored free software (ESS) that will provide an automated means of maintaining the explosive license program as well as installation master maps with explosive safety quantity distance arcs. The DAC US Army Technical Center for Explosive Safety (USATCES) will provide information for the acquisition of the program.

4. Department of Defense Explosive Safety Board (DDESB) Finding(s):

- Recommendation(s): HWAD contacts HQ, AFSC, AMSFS-SF, to obtain status of these submissions.

5. Site Plans and Installation Master Plan:

- Recommendation(s):

- HWAD Safety and DZHC continue to work together to provide accurate and effective site plan submissions.

- HWAD considers pursuing the acquisition of DOD sponsored free software (ESS) that will provide an automated means of maintaining the explosive license program as well as installation master maps with explosive safety quantity distance arcs. The DAC USATCES will provide information for the acquisition of the program.

6. Demolition and Demilitarization Operations:

- Recommendation(s):

- HWAD continues to execute the demilitarization process in accordance with the procedures established for these operations.

- HWAD maintains the excellent coordination and cooperation of all organizations required to execute the operations safely and efficiently.

7. Material Handling Operations:

- Recommendation(s): DZHC continues to execute the material handling operations safely and in accordance with regulatory guidance.

g. International Standards Organization (ISO) 9001:2000: We did not rate ISO 9001:2000 as Green, Amber, or Red. Instead, we examined its applicability at HWAD. Given Major Army Command (MACOM) and Major Subordinate Command (MSC) support and resources, it would be appropriate for the HWAD Administrative Contracting Office (ACO) staff to pursue ISO certification. DZHC has been ISO 9001:2000 certified since July 2001 and has a very effective and successful Quality Management System (QMS) in place.

1. Applicability:

- Recommendation(s): DZHC has established an excellent, comprehensive QMS that could be used as an example for other installations in establishing an ISO certifiable QMS.

h. Staffing/Manpower:

1. Quality Assurance and Surveillance:

- Recommendation(s): None. Career Program 20 Manager is addressing this concern as Higher Headquarters directed.

i. Training:

1. Transportation:

- Recommendation(s): HWAD ensure both government and contractor employees, that are hazard material (HAZMAT) certified, are appointed in writing (appointment orders). Government employees should be appointed by the Commander. HWAD should make an internal decision as to who signs/appoints DZHC employees. Either the Commander or a DZHC representative is acceptable. Copy must be provided

to the HWAD Transportation Officer (TO). Upon completion of appointment orders, the HWAD TO sends an email to HQ, AFSC, AMSFS-ST, care of Mr. Dave Tipp and Mr. Melvin Outen, stating this action is completed. AMSFS-ST does not need copies of appointment orders/letters.

3. Explosive Safety:

- Recommendation(s):

- DZHC continues to emphasize and execute an effective explosive safety-training program.

- AMSFS-HR considers adopting the "PC Compliance-Training Management Software (v.3.0)" command-wide to forecast, schedule, and record, personnel training.

j. Special Interest Items:

1. Automation:

- Recommendation(s): None.

2. MRO Denials:

- Recommendation(s): HQ, JMC, SFSJM-CTA, requests the Air Force (AF) Liaison Office located at Rock Island Arsenal assistance in training Hill Air Force Base (AFB) item managers on the proper procedure for requisitioning Single Manager for Conventional Ammunition (SMCA) controlled stock.

3. Propellant Stability Program:

- Recommendation(s): None.

k. Management Control:

1. Assessment:

- Recommendation(s):

- The HWAD Management Control Program POC:

- Maintains a copy of the assessment report in the Management Control Program files to document the assessment was performed in Fiscal Year (FY) 05 and its results.

- Updates the existing "MANAGEMENT CONTROL EVALUATIONS CONDUCTED WITHIN (HAWTHORNE ARMY DEPOT) IN FISCAL YEAR 2005" enclosure and forward a copy to the BGAD Management Control Administrator (MCA) for forwarding to the HQ, AFSC MCA. List this assessment as P - Process Review.

- Receives a schedule of audits, inspections, and other reviews, performed and completed at HWAD during the FY. Any audits, inspections, and other reviews, completed during the FY and before the HQ, AFSC management control suspense should appear in enclosure 2, MANAGEMENT CONTROL EVALUATIONS CONDUCTED WITHIN (HAWTHORNE ARMY DEPOT) IN FISCAL YEAR XX. For those audits, inspections, and other reviews completed after the HQ, AFSC management control suspense, they should go into enclosure 2 for the following FY.

- The applicable HWAD managers evaluate the audit, inspection, or other reviews, results and determine if key controls are in place and working as intended. After this evaluation, provide written documentation regarding their evaluation to the HWAD Commander and HWAD Management Control Program POC.

I - INVENTORY

A. COUNT FIVE PROGRAM: Status: Green.

1. Conclusion: The HWAD Commander completed the FY 05 first and second quarter count five requirement in December 2004 and 15 Mar 05 respectively. HWAD memorandum, 01 Jan 05, published the FY 05 annual count five inspection dates and has the Commander's signature. Our review of the program's 01 Jan 05 internal operating procedure and count five results are a clear indication that regulatory controls are in place and working as intended at HWAD.

2. Discussion: We reviewed the HWAD Count Five program files and determined HWAD implements the program in accordance with AMC-R 740-27, 16 Jun 99, Storage and Supply Activities - Ammunition Inventory and Accountability, paragraph 1-4.j. The HWAD quarterly count five consist of a random sample of one (1) magazine with 100 percent of its items inventoried. Planographs are annotated with any corrections or changes and signed by the HWAD Commander/participants. The FY 05, 04, and 03, count five documentation is on file IAW AMC-R 740-27.

3. Recommendation(s): None.

B. TWO-DIMENSIONAL (2-D) BARCODE APPLICATION: Status: Amber.

1. Conclusion: HWAD does not always properly attach the 2-D barcodes to the pallets. As a result, HQ, JMC policy controls are established and not working as intended at HWAD.

2. Discussion: The assessment Team selected 36 buildings within the HWAD complex to be used as a sample of the total population of 2600 ammunition storage facilities. Our sample results indicate that overall 2-D barcodes are being attached to stock in storage per Headquarters, US Army Operations Support Command memorandum, 11 Oct 02, subject: Application of Two-Dimensional (2-D) Bar Code Labels to Ammunition Stockpile with limited consistency.

- 008013: Bar code labels were stowed at the front of a grid with or near the MDCs in a plastic bag.

- 005108: Bar code labels are missing at grid ADEF.

- 002006: Bar code labels are missing at grids ACAF, and their quantities are wrong at grids DFAD and ABHK.

3. Recommendation(s):

- HWAD immediately corrects the deficiencies identified in the Discussion section.

- HWAD consistently comply with Headquarters, US Army Operations Support Command memorandum, 11 Oct 02, subject: Application of Two-Dimensional (2-D) Bar Code Labels to Ammunition Stockpile, as bar codes will become extremely important in depot operations and ensure that bar code labels are properly attached to all assets stored in the magazine.

C. **INVENTORY ADJUSTMENTS**: Status: Green.

1. Conclusion: HWAD's gain and loss causative research contains the proper supporting documentation. As result, regulatory controls are established and working as intended at HWAD.

2. Discussion: We reviewed the HWAD causative research process. AR 735-5, chapter 12, and AR 740-26, 12 Mar 03, Physical Inventory Control, chapter 2, require adequate explanation narratives, sufficient supporting documentation, and documented supervisory approval, to support the causative research conclusion(s). Our review of 10 folders and the adjustment logs disclosed each package's causative research is properly completed. Packages contain all required data: 3Q/4A, Stockpile Inventory List Comparator (SILC) discrepancy reports, MDC copies, SDS screens, ATR copies, and DD Form 1348s copies if necessary. All supply clerks have been extensively trained on causative/reconciliation process.

HWAD recently receipted WSAR-K assets marked for demilitarization. Receipt discrepancies have surfaced and must be reconciled immediately. Receipt adjustments must be correctly posted to align the Korean asset posture.

3. Recommendation(s):

- HWAD immediately reconciles the Korean assets to properly support the country agreement requiring strict stored assets monitoring and tracking.

- HQ JMC, SFSJM-CTA, follow-ups on the reconciliation within 30 days from this review.

D. INVENTORY RECONCILIATION: Status: Green.

1. Conclusion: HWAD is performing its inventory reconciliation IAW all applicable regulatory requirements. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: None. See C. Inventory Adjustments and H. Investigations/Reports of Survey narratives.

3. Recommendation(s): None.

E. PHYSICAL INVENTORY - CAT III and IV: Status: Green.

1. Conclusion: HWAD is doing a very good job planning, performing, and documenting, CAT III and IV ammunition physical inventories IAW AMC-R 740-27. Our review disclosed HWAD accomplished complete inventories in FY 03 and FY 04. Processes and controls are well established and consistently applied at HWAD.

2. Discussion: The Assessment Team selected a sampling of 26 CAT III and IV buildings located at HWAD to represent the total population of 2600 storage sites to test the physical inventory controls. These buildings were divided among two teams. Sites inspected are as follows: PLOT04, 002006,005018, 008013, 012009, 036004, 050022, 059001, 072003, 081007, 100095, 105031, 111014, 112013, 11301C, 11335C, 11363A, 114035, 115029, 11550E, 11607A, 11610A, 11614A, 11639C, 11643A, and 67RX01.

Following is a summary of observations:

- PLOT04: No discrepancies.

- 002006: At grids ACAF, stock was missing bar codes. Bar codes are wrong at grids ABHK and DFAD. Very clean building and good storage practices.

- 005018: At grid ADEF, stock was missing bar codes. Very clean building and good storage practices.

- 008013: Bar code labels were stowed at the front of a grid with or near the MDCs in a plastic bag.

- 012009: No discrepancies.

- 036004: No discrepancies.

- 050022: No discrepancies.

- 059001: Several light boxes are not banded to pallets.

- 072003: MDC has a quantity of 116,935. The 2-D bar code, planograph, and actual count agree and have a quantity of 116,930. HWAD corrected MDC on the spot.

- 081007: Empty site. It needs cleaning as there is considerable dunnage and steel banding.

- 100095: No discrepancies.

- 105031: No discrepancies.

- 111014: No discrepancies.

- 112013: Mixed condition codes were observed stowed on the same pallet.

- 11301C: No discrepancies.

- 11335C: This building has some dunnage and empty pallets.

- 11363A: No discrepancies.

- 114035: No discrepancies.

- 115029: No discrepancies.

- 11550E: No discrepancies.

- 11607A: No discrepancies.

- 11610A: Grid FGLL stock found at grid FGDD. 2-D bar codes are wrong at grids KMNN and KMOO.

- 11614A: Two (2) light containers of the same lot were on the same pallet.

- 11639C: No discrepancies.

- 11643A: No discrepancies.

- 67RX01: No discrepancies.

3. Recommendation(s):

- HWAD immediately corrects the noted deficiencies at buildings 002006, 005018, 008013, 081007, 112013, 11610A, and 11614A.

- HWAD must ensure all stored assets properly have their 2-D bar code label(s) and MDC(s) attached.

F. CRITICAL STORAGE CAPABILITY: Status: Green.

1. Conclusion: Hawthorne has good control of explosive space management. HWAD provides storage utilization feeder data to JMC and internally uses the feeder data to measure space allocation or usage. When queried, the storage space manager provided the excluded storage space and available empty buildings for munitions storage. A "master plan" and license record serves as the template for where materiels should be re-located upon re-warehousing or receipt. The explosive compatibility and magazine content listing is used on a recurring basis to ensure HWAD maintains cleared and safe munitions storage. HWAD is at 56 percent capacity. Hawthorne possesses excellent structures and a workforce capable of serving a critical storage shortfall of overloaded depots. All consideration should be given to Hawthorne to locate more training or war-fighter munitions within the complex.

2. Discussion: Our interview with space management personnel indicates a good working process is in effect to rapidly assign incoming receipts, replace shipped space into reuse, and provide storage feeder data to JMC. Grid changes and management is exceptional. HWAD has 680 magazines currently empty and could immediately intake storage of conventional munitions. The storage planner would appreciate any advance shipment notification, Report of Shipment (REPSHIP), to HWAD as it greatly enhances the planners' job. First, the storage planner checks for like National Stock Numbers (NSNs)/Lot #s. If this does not work, the planner looks at like NSN or Department of Defense Identification Codes (DODICs). Next, if that approach does not work, the storage planner checks for like materiel. The storage planner has made great progress in

getting the truck drivers to provide 24 hours advance notice for incoming shipments.

3. Recommendation(s):

- HQ, JMC, SFSJM-CTA, supports HWAD by inducting more serviceable and training stocks.

- HQ, JMC, SFSJM-CTA, use the HWAD available space to provide relief to the near capacity Crane Army Ammunition Activity (CAAA) and McAlester Army Ammunition Plant (MCAAP) storage activities.

G. REGULATIONS, SOPs, and DESK PROCEDURES: Status: Green.

1. Conclusion: HWAD has policies in place for the majority of their inventory functions. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: Policies, desk procedures, and SOPs, are in place for the following: Site Inventory, In-float, found on post, Scheduling, 2-D Bar Coding, Quality Control, Key Control, Time Standards, ATR, Demilitarization, Receipts, Denials, Cancellations, 11 Accounts, Transportation Discrepancy Reports, and SDRs. All IOPs are well prepared and updated. Last update was 27 Feb 04.

3. Recommendation(s): HWAD continues to keep their IOPs current and updated to reflect current processes. Very good HWAD program.

H. INVESTIGATIONS AND REPORTS OF SURVEY: Status: Green.

1. Conclusion: HWAD properly processes Inventory Adjustment Report (IAR) investigations. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: HWAD had seven (7) investigations initiated in FY 04 and three (3) in FY 05 with 80 percent of their inventory completed. There is one (1) open investigation and the DA Form 444 requires the Commander's approval. The rest are waiting for HQ, JMC approval. We reviewed completed and in-process IAR investigations. For completed investigations, our review disclosed HWAD met all

causative research investigation requirements. In addition, the HWAD files are complete and in outstanding order.

3. Recommendation(s): None. Excellent Job! Continue with existing procedures and ensure all personnel received updated training/guidance for Automatic Identification Technology (AIT).

I. PHYSICAL INVENTORY - CAT I and II: Status: Green.

1. Conclusion: HWAD does a good job in maintaining accountability in risk category I and II sites. The regulatory controls are established and working as intended at HWAD.

2. Discussion: The Assessment Team selected a sampling of ten (10) CAT I and II buildings located at HWAD to represent the total population of 2600 storage sites to test the physical inventory controls. We divided the ten (10) buildings among three (3) teams. When the floor to record inventory was completed, we found no major quantity discrepancies in these sites.

We verified HWAD sent a memorandum to HQ, JMC notifying SFSJM-CTA of the CAT I semi-annual inventories completion for FY 04. HWAD completed its FY 05 semi-annual CAT I inventory and its annual CAT II inventory. The Certification letter is forthcoming to HQ, JMC.

Results for the ten (10) CAT I and II buildings are as follows:

CATEGORY I:

- 13006: Good: Assets in building reflect ownership to B5A, 11K, FG5, and NCB accounts. All barcode labels and magazine data cards were filled out properly and matched assets in storage location. All serial numbered assets stored in magazine matched planograph. Building has an active Intrusion Detection System (IDS). Last inventory of building conducted 13 Apr 05.

- 13009: Good: Assets in building reflect ownership to 115 account. All bar code labels and magazine data cards were filled out properly and matched assets in storage location. All serial numbered assets stored in

magazine matched planograph. Building has an active IDS. Last inventory of building conducted 13 Apr 05.

CATEGORY II:

- 13004: Good: Assets in building reflect ownership to B5A account. All bar code labels and magazine data cards were filled out properly and matched assets in storage location. Building has an active IDS. CAT I Buildings 13006 and 13009 and CAT II Buildings 13001, 13002, 13003, 13007, 13008, and 13010, are using the test program Mobile Detection Assessment Response System (MDARS) to monitor magazine activity. Last inventory of buildings conducted 04 Oct 04 and 13 Apr 05.

- 14018: Good: Assets in building reflect ownership to MHQ and B14 accounts. Barcode labels attached and magazine data cards filled out properly. Building has an active IDS. Last inventory of building conducted 05 Oct 04.

- 16008: Good: Assets in building reflect ownership to B5A, FG5, 11Y, and B14, account. It was noted that this magazine had many loose pallets with assets not banded to pallet. Planograph and bar code for Lot #DUW80K0001-002 reflected quantity of 81, however, stored assets reflected 20 lbs one (1) Roll. Inventory personnel stated catalog change submitted by JMC to change quantity to nine (9) each. Bar code labels attached, and magazine data cards matched assets correctly. Building has an active IDS. Last inventory of building conducted 11 Oct 04.

- 21010: Good: Anti-Tank Mines. Assets in building reflect ownership to B14 account. Barcode labels attached and magazine data cards filled out properly. Building has an active IDS. Last inventory of building conducted 05 Oct 04.

- 23008: Good: Anti-Tank Mines. Assets in building reflect ownership to B5A account. Barcode labels attached and magazine data cards filled out properly. Building has an active IDS. Last inventory of building conducted 11 Oct 04. Building had four (4) small lots stored in entire building.

- 23018: Good: Anti-Tank Mines. Assets in building reflect ownership to B5A account. Bar code labels attached

and magazine data cards filled out properly. Building has an active IDS. Last inventory of building conducted 11 Oct 04. Building had four (4) small lots stored in entire building.

- 27009: Good: Assets in building reflect ownership to B5A account. Bar code labels attached and magazine data cards filled out properly. Last inventory of building conducted 11 Oct 04. Building had only two (2) small lots stored in entire building.

- 29018: Good: Assets in building reflect ownership to B14, 11D, and NCB accounts. Bar code labels attached and magazine data cards filled out properly. Last inventory of building conducted 05 Oct 04. Building had three (3) small lots stored in entire building.

3. Recommendation(s):

- HWAD considers re-warehousing buildings with small lots into one building.

- HWAD places the MDCs on each pallet in the building and change markings on boxes with Lot #DUW80K0001-002 with correct quantity.

- HWAD properly attaches all bar code labels to assets utilizing twist-wire or zip ties to prevent lost.

- HQ, JMC, SFSJM-CTA, review this process in the next Command assessment.

J. **LOCAL ACCOUNT (11) MANAGEMENT:** Status: Green.

1. Conclusion: Hawthorne has adequate control of 11 account assets. HWAD has 24 11 accounts are on hand. Storage planner segregates the stocks from other owners and maintains record of facility use. The 11D account is used for Local Depot Property production, maintenance and donor storage. 11D account receipts are verified by the Storage Planner for proper input into the account. The 11D Account appears to be managed; but should validate the assets on a frequent basis and be purged of all unneeded assets and routinely recorded as reviewed with the Inventory chief.

2. Discussion: The 11 accounts are in good order. Addresses and Points of Contacts (POCs) should be updated

on all accounts, and an annual reconciliation should be noted by the 11 Account ammunition manager.

11 accounts reviewed are 11A, 11B, 11D, 11E, 11F, 11T, 11Y, and 11Z.

There was not a current letter on file designating an ACTPO for the 11D account.

3. Recommendation(s):

- HWAD updates their valid accounts with proper account Points of Contact (POCs) and viable address.

- HWAD appoints an ACTPO, in accordance with AR 735-5, chapter 2, section III, paragraph 2-10, for the 11 accounts and provides a copy to the HQ, JMC, SFSJM-CTA, ACTPO.

- HQ, JMC, SFSJM-CTA, review this process in the next Command assessment.

K. SEALED AND USEALED SITES: Status: Green.

1. Conclusion: HWAD performs the five (5) percent sealed site sealed sites regulatory requirement. In addition, the current HWAD sealed site process is effective and efficient and complies with AMC-R 740-27. As a result, regulatory controls are in place and are working as intended at HWAD.

2. Discussion: AMC-R 740-27, chapter 5, paragraph 3.h., requires HWAD to inventory five (5) percent of their sealed structures and report the results to HQ, JMC. HWAD has consistently exceeded the five (5) percent sampling. No findings of materiel were found. However, HWAD found a problem with the key control program in SDS as it was dropping buildings. Approximately 20 percent of the sites showed no movement while checking the scheduling sheet would indicate movement had happened. HWAD has a very good tracking program and does maintain a record of their sealed sites inventoried. HWAD does a tremendous job in keeping as many magazines sealed as possible. As of this on-site visit, out of 75,000 grids HWAD has 40,000 grids sealed. This is aspects attributes to HWAD going through their inventory in such a timely matter.

3. Recommendation(s):

- HWAD continues to monitor the building dropping problem and check all sealed buildings through SDS screen 9323 before accepting into the physical program.

- HQ, JMC, SFSJM-CTA, clearly defines performing the sealed site inventory process in the forthcoming AMC-R 740-27 revision.

L. INVENTORY QUALITY CONTROL: Status: Green.

1. Conclusion: HWAD performs its ammunition quality control program as AMC-R 740-27 requires. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: HWAD performs quality control checks in accordance with AMC-R 740-27, chapter 4. Specifically, HWAD performs receipts, DA Form 4508 Ammunition Transfer Records, shipment/issues, physical inventory counts, access control program, document control, and cataloging. The program is thoroughly documented, done on a monthly basis, and reported to HQ, JMC on a monthly basis. In addition, HWAD is retaining the files for two (2) years plus the current inventory year. However, during review of the monthly QC reports, it was discovered that Surveillance is not using the DA Form 4508 IAW AMC-R 740-25 when they move materiel for inspection. Surveillance uses a local form, Form 389, which appears to be simply a planning document. Additionally, the time lag from when the movement occurred to when the paperwork was submitted can be as long as three (3) weeks.

3. Recommendation(s):

- HWAD continues to execute its QC program in their usual thorough and efficient manner. This program is a valuable tool for upper management to assess its accountability procedures.

- Surveillance immediately starts using DA Form 4508 instead of the local Form 389. In our opinion, Form 389 is not designed to provide adequate information on ammunition moves. In addition, Form 389 is not submitted to Inventory until after materiel movement into and out of the Surveillance workshop has been accomplished. As a

result, HWAD loses accountability during the time ammunition is moved out of storage until paperwork submission to Inventory.

II - DOCUMENT CONTROL

A. KEY CONTROL PROCESS: Status: Green.

1. Conclusion: HWAD is currently not using the automated key control program, but does have an active key control program. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: Our review disclosed HWAD has a good key control program. The key and lock custodians are well trained and efficient. HWAD uses a manual key control program. Review included physical observation of the process. The manual key control process is working as intended. We observed the signing in and out of keys to several depot personnel.

3. Recommendation(s):

- HWAD continues with existing procedures and ensures all personnel received updated training/guidance for the current manual key control program.

- HWAD considers the feasibility of installing the HQ, JMC automated key control program.

B. SUPPLY DISCREPANCY REPORT (SDR) CONTROLS: Status: Green.

1. Conclusion: The ACO Surveillance Chief is responsible for oversight of the SDR program at HWAD. The Surveillance Chief is a member of the Commander's staff. HWAD Surveillance does not maintain a system to track all incoming and outgoing SDRs. DZHC prepares outgoing and respond to incoming SDRs as Surveillance directs. DZHC submits all reports to the ACO and Surveillance for final processing. DZHC maintains a manual log that tracks issued and received SDRs. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: Through interview and documentation review, we determined DZHC team maintains a manual log that tracks HWAD issued and received SDRs. The manual log contains entries from Calendar Year (CY) 2003 to the present. We selected CY 04 and 05 SDRs for review.

- FY 04 has eight (8) entries. HWAD issued six (6) SDR and received two (2). Supporting documentation was readily available for review. All SDRs were submitted to the ACO and properly closed.

- FY 05 has nine (9) entries. HWAD issued eight (8) SDRs and received one (1). Supporting documentation was readily available for our review. All SDRs were submitted to the ACO and properly closed.

SFSJM-CTA memorandum, 03 Mar 05, Headquarters, US Army Joint Munitions Command (JMC) Policy requires incoming SDR replies be forwarded to HQ, JMC 48 hours of preparation. The HQ, JMC 48 hours submission requirement is dated 03 Mar 05. None of the FY 05 SDRs have a date of 03 Mar 05 or later. HWAD does not have internal operating procedures in place for processing and tracking SDRs.

Per interviews with the government and contractor personnel, DZHC does not receive all incoming SDRs. HWAD respond directly on SDRs that are determined to be invalid or instances of condition code discrepancies. Development of an automated SDR tracking log reviewable by both HWAD and HZDC personnel will improve program effectiveness.

3. Recommendation(s):

- HWAD establishes an IOP for processing SDRs.

- HWAD establishes a log that tracks all incoming and outgoing SDRs.

- HWAD and DZHC pursue converting the manual SDR log to an automated SDR log.

- HQ, JMC, SFSJM-CTA, follow-up within 30 days of receipt of the final assessment report to ensure HWAD fully complies with SFSJM-CTA memorandum, 03 Mar 05, Headquarters, US Army Joint Munitions Command (JMC) Policy for Munitions Supply Discrepancy Reports (SDRs).

C. MANAGEMENT CONTROL NUMBER (MCN) PROCESSING: Status: Green.

1. Conclusion: HWAD requires immediate clarification to de-conflict the data cleansing process and new direction for MCN assignment and the existing AR 708-1, 21 Jul 00,

Logistics - Management Data and Cataloging of Supplies and Equipment mandates.

2. Discussion: Interview and observation of the MCN controls in place at HWAD indicated that MCN assignment is being processed and a log maintained containing pertinent data on non standard items. HWAD is monitoring the data cleansing progression and has 132 remaining, for purpose of successful migration to the Logistics Modernization Program (LMP) platform. Discussion with the data cleanser reveals that a process definition for MCN assignment from the DAC staff poses the potential of misidentification or delay in non standard assignment. Our review disclosed the data cleansing list and the MCNI lists are not aligned. This finding is not a negative to Hawthorne, as they are operating as instructed. The finding is an US Army Field Support Command (AFSC) responsibility to de-conflict and provide properly vetted instructions to the installations which will preclude any potential rework in the MCN and MCNI reconciliation.

3. Recommendation(s):

- HQ, JMC, SFSJM-CTA, provides fully coordinated and properly vetted instructions to the installation regarding the administration of MCNs and MCNIs, and the complete instruction for viable data migration.

- HQ, JMC, SFSJM-CTA, follow-ups within 30 days of receipt of the final assessment report.

D. **AMMUNITION TRANSFER RECORD (ATR) CONTROLS:** Status: Green.

1. Conclusion: HWAD has excellent control of both the preparation and processing of ATRs. Interview with processing personnel reveals that a thorough understanding exists regarding the responsibilities they have in the administration of SDS changes via ATRs. Processors of transactions are cognizant of the goals established that provide for timely processing and thorough validation of the transaction processed to SDS.

However, Surveillance uses local Form 389 to record ammunition moves. The form is not submitted until the movement to and from Surveillance has been done. This practice can lead to potential loss of material visibility.

One (1) document we inspected indicated a three (3) week time lag between the material's movement and submission to Inventory for processing. See Section II - Inventory, L. Inventory Quality Control.

2. Discussion: Our interview with lead managers of the area operations leads the team to conclude the ATRs function as designed, are monitored for accuracy, and provide for an auditable trail of all activities surrounding the reclassification, movement, lot changing, re-identification, and demilitarization of munitions assets. We checked six (6) documents for accuracy and timeliness of processing with no discrepancies noted. HWAD should be commended for their actions leading to a full expertise in this discipline. Registry control is good and currently mitigates the risk to the inventory when not returning an ATR within the required 24 hour timeframe. We found HWAD consistently processes ATRs within 24 hours of receipt. Any delays in processing were the results of outside influences. The daily follow-ups performed by the ATR clerks are ingeniously incorporated into the QC program.

3. Recommendation(s):

- HWAD continues its efficient and accurate ATR processing. The HWAD organizations submitting ATRs should be instructed on the importance of timely submission of paperwork.

- HWAD Surveillance uses the DA Form 4508 to record ammunition moves IAW AMC-R 740-25, 01 May 00, Storage and Supply Activities - Ammunition Stock Location System, and submits it to Inventory in a timely manner.

- HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

E. MAGAZINE DATA CARD (MDC) CONTROLS: Status: Amber.

1. Conclusion: HWAD prepares and maintains MDCs in accordance with the governing regulations. However, we noted instances where HWAD consolidated numerous MDCs in one (1) plastic document protector at the front of a grid of assets. AMC-R 740-25, Appendix A, paragraph 2, directs HWAD to locate the MDCs either on the top or the front of the ammunition stack as near an operating aisle as is

possible. As a result, controls are established; but not working as intended at HWAD.

2. Discussion: Our inventory reviews disclosed that HWAD consolidates MDCs. Specifically, in grids where HWAD locates multiple lots all the MDCs are kept in one (1) package at the front of the grid. Regulatory guidance requires each individual MDC placed with its corresponding lot. MDC consolidation results in time consuming inventory operations that would otherwise be very expeditious and is a breeding ground for potential inventory errors. Other than this noted discrepancy, HWAD prepares and maintains the MDCs IAW AMC-R 740-25 and AMC-R 740-27.

3. Recommendation(s): HWAD immediately complies with the AMC-R 740-25 requirement to place each individual MDC with its corresponding lot.

F. CONCEALED DISCREPANCY PROCESSING: Status: Green.

1. Conclusion: HWAD has a very good concealed discrepancy program and is aggressively researching all submitted and noted discrepancies. Hawthorne uses the correct document number, starts with "W81YG8", when processing all concealed discrepancies and has a management code "F" assigned. As a result, controls are established and working as intended at HWAD.

2. Discussion: Hawthorne posted 40 concealed discrepancies within the last 12 months for FY 04; but has conducted causative research to post correct changes to SDS. HWAD inventory personnel were made aware of the new reporting procedures for concealed discrepancies and new policy letter due out from HQ JMC, SFSJM-CTA.

3. Recommendation(s): HWAD provides notification of concealed discrepancies to HQ, JMC, SFSJM-CTA, on a case by case basis.

G. RECEIPT POSTING: Status: Green.

1. Conclusion: HWAD performs receipt posting to SDS within the regulatory timeframes. The HWAD processes provide reliable posting. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: Our interviews, direct observation, and document reviews revealed that HWAD posts receipts to SDS in a timely manner. DZHC regularly reviews and revises their IOPs. The IOP, Inbound Receipts Truck Lot Procedures, was last updated on 27 Feb 04. DZHC uses an automated data base and ARTIS to track receipts by RCN, Transportation Control Number (TCN), or Government Bill of Lading (GBL).

We pulled 43 days of SDS receipts for review. HWAD routinely meets the six (6) and nine (9) day posting requirements. Two (2) late receipts were discovered and researched. HWAD posted one, RCN 08214TA1, 15 days after receipt due to the Marine Corps not returning the Receipt Inspection document until 15 days later. HWAD had apparently posted a second receipt, RCN 03409STR3, 69 days after receipt based on the printout we received for review. Research showed that HWAD originally posted it the same day; but an error was discovered; a serial number was required from Tooele Directorate of Information Management (DOIM), by Inventory. The reversal is still in process.

3. Recommendation(s):

- HWAD continues stressing the importance of accurate and timely receipt postings.

- HWAD develops a follow-up process for a tenant such as the Marine Corps, since their documentation tardiness counts against HWAD.

- HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

H. RECEIPT CONTROL NUMBER (RCN) PROCESS: Status: Green.

1. Conclusion: Hawthorne immediately assigns a RCN to all materiel upon the conveyance's arrival. HWAD uses the RCN to properly document the receipt into the SDS custodial file and does so within one (1) day of arrival by recording receipt at the truck lot. As a result, controls are established and working at HWAD as intended.

2. Discussion: Using an automated local database, ARTIS, HWAD establishes and tracks the RCNs from conveyance inspection. Receipts are posted to record reflecting the receiving site as the storage location. The RCN number

represents the Julian date, the arrival hour, and trailer, DROM, or Military Van (MILVAN) number. HWAD fully reviews the receipt process, validates the posting, monitors the final storage, and properly posts the associated grid(s) to the planograph. HWAD has superb tracing and follow-through processes for receipt processing and RCN assignment.

3. Recommendation(s): HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

I. RECEIPT REVERSALS: Status: Green.

1. Conclusion: HWAD processes receipt reversals IAW regulatory guidance and with outstanding attention to detail and timeliness. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: We evaluated 45 days, 1,118 records, of receipt processing. Of those, 82 receipts, seven (7) percent, were reversed and reposted. All examples reviewed indicate that the HWAD receiving team processes their receipt document reversals well within regulatory guidance. The overall receipt review process ensures that HWAD corrects inconsistencies and errors within one (1) to three (3) days. Document receipt reversals reviewed were necessitated by corrections to condition codes, lot numbers, and receipt document number erroneous input. No quantity errors were found in the sample reviewed.

3. Recommendation(s): HWAD works with HQ, JMC to help bring other installations up to standard.

J. MATERIEL RELEASE ORDER (MRO) PROCESSING AND CONTROLS: Status: Green.

1. Conclusion: Hawthorne has an excellent method in place to control the shipping processes. HWAD processes MROs for shipment of conventional ammunition for MILVAN shipping, truck, rail, and special account, requirements. HWAD has met all FY 05 Required Delivery Dates (RDDs) and exhibits an expedited shipment processing method. The shipping operation's technicians are experts in their designated duties. In talking with the Chief, the office very much wants MTMS-FM training. Todate, they have received very little training; but have all the equipment in place to operate. We sampled open ZAXs and found

shipping documents still on the ZAXs listing that have been shipped.

2. Discussion: Obligations, lot changes, ZAXs, and MRO closeouts are administered to the SDS record immediately. ZAX suspense listings are used to verify shipments and report overall MRO posture for HWAD. SDS transactions and has a staff of three (3) persons assigned to the multi-task function. SOPs and desk procedures are available.

3. Recommendation(s):

- HWAD immediately reconcile the open ZAXs and ZAX listing to ensure there are no shipping documents on the ZAX listing for materiel already shipped.

- HWAD continues to maintain current OPTEMPO for upkeep expediting the obligation of new MROs, the immediate input of phone-out MROs and the attention to use of ZMR/ZMXs.

- HWAD continues maintaining current oversight of the use of ZMR/ZMXs.

- HWAD promptly administers cancellations to the custodial record and informs shipping location supervisors of the cancelled requirement so that return to storage location can be accomplished.

- HWAD schedules one-on-one training with the site coordinator to use the MTMS-FM transportation system that is already in place at Hawthorne.

K. MAINTENANCE AND DEMILITARIZATION PLANNING AND MANAGEMENT: Status: Green.

1. Conclusion: HWAD is to be commended for their efficient document processing. They have an excellent system of IOPs for their maintenance and demilitarization programs. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: The Munitions Operations Directorate will canvass the stockpile to determine sequencing of lots before each job. They will meet with all appropriate offices (Facilities, Safety, Storage, Transportation, etc.)

to plan what is required to complete each demilitarization or maintenance job as part of the set up process. Work requests are then given to Facilities Maintenance to configure the lines, if necessary. For any job that has been out of production for 15 days or more, each worker involved must read and sign all SOPs. New jobs begin with an inert walk-through, followed by a live walk-through and a Low Rate Initial Production (LRIP) before full production begins. Each shift reports production on the shift reports with any problems noted on reports when planned quantities are not met. Billing takes place when jobs are complete. For example, for the 8" ICM Demilitarization program, billing will take place only when grenades and expulsion charges are destroyed.

ATRs serve as records of disposal. The ATRs are processed in a timely manner. Three (3) documents were inspected and no discrepancies were noted. Personnel interviewed were very cognizant of the proper procedures for processing ATRs.

3. Recommendation(s):

- HWAD continues to pay great attention to the details for ensuring safe and efficient operations.

- HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

L. STORAGE PLANNING AND MANAGEMENT: Status: Green.

1. Conclusion: HWAD has outstanding control of explosive space management, explosive compatibility, and all aspects of efficient use of available storage space. The DZHC Storage Planner has years of experience which is evident in the outstanding overall operation. Databases, SDS and ARTIS, are used to plan and track the storage and movement of all assets in and out of HWAD. HWAD is 56 percent full, with nearly 25 percent of its buildings empty. HQ, JMC should make more use of this space where HWAD is not facing the same problems as other overused depots.

2. Discussion: We conducted an interview with the DZHC Storage Planner. The interview indicated that there is a strong working process in effect to plan for storage of known receipts and rapidly assign storage locations for

unexpected receipts, track and post storage plan changes, and utilization reporting. The storage management plan was last updated 18 Nov 03, and includes regulations and procedures for storage including density factors, capacities, and compatibilities. The recent 1.2 criteria changes did not have a major effect since many igloos were full due to capacity rather than explosive weight.

Decisions on storage locations for incoming assets are made based on lot, NSN, condition code, like material, and intended future disposition. For example, HWAD stores assets destined for maintenance or demilitarization in the North Area to minimize future transportation costs. Grids are assigned by the munitions handling crews. Crew leaders conduct training to ensure this is done properly. Re-warehousing requirements are reviewed at least quarterly for buildings 50 percent full or less.

3. Recommendation(s):

- HQ, JMC, SFSJM-CTA, make greater use of unused HWAD storage space, which should decrease the cost per ton.

- HQ, JMC, SFSJM-CTA, review this process during the next Command assessment.

III - PHYSICAL SECURITY

A. SERIOUS INCIDENT REPORT PROCESSING: Status: Green.

1. Conclusion: The HWAD SIR process is working as intended. The responsible sections report Arms, Ammunition, and Explosives (AA&E) shortages or overages to the Depot Protection Division. They initiate an investigation and prepare the SIR when necessary. Security and the reporting section work together to resolve the discrepancies. When appropriate, these reports are coordinated with affected law enforcement agencies.

2. Discussion: There have been three (3) SIRs reported at HWAD since January 2003. Only one (1) of these involved ammunition/explosives. Specifically, eight (8) two pound blocks of M118 Demolition Munitions were not accounted for. The investigation was referred to the Mineral County Sheriff, Federal Bureau of Investigation (FBI), and US Army Criminal Investigation Division (CID). CID's final report indicates that investigation by the FBI concludes the munitions were stolen by persons unknown and by means unknown. No logical suspects were identified and neither the FBI nor CID is actively pursuing further investigation.

3. Recommendation(s): None.

B. SECURITY PLAN: Status: Green.

1. Conclusion: The HWAD Physical Security Plan is complete and in the correct format. As a result, controls are established and working as intended at HWAD.

2. Discussion: There are no provisions or omissions apparent in the Physical Security Plan that makes it easy for unauthorized entry and exit, pilferage, or sabotage. The Plan is well organized and mission oriented. Good job!

3. Recommendation(s): None.

C. INVESTIGATIONS AND REPORT PROCESSING: Status: Green.

1. Conclusion: HWAD has a process for reporting, investigating, documenting, and filing, alleged offenses. The personnel involved in this process are knowledgeable

and capable. As a result, controls are established and working as intended.

2. Discussion: Reports are received by the Guard Operations Center or Security Manager. An offense report is initiated. If required, a SIR is filed. When the investigation is complete, it is filed or sent for prosecution/administrative action. Since HWAD is a concurrent jurisdiction installation, the Depot Protection Division reports offenses to the Mineral County Sheriff or state and federal law enforcement agencies when appropriate.

3. Recommendation(s): To make a good investigations and reports process even better, HWAD and DZHC should consider adding the use of the following two (2) forms to the reporting system when they apply:

- DA Form 3056, Report of Missing/Recovered Firearms, Ammunition and Explosives. This will give closure to SIRs filed in cases of stolen or unaccounted for AA&E. Both this form and the SIR are filed with the Office of the Provost Marshal General.

- DA Form 4833, Commander's Report of Discipline or Administrative Action. This will show in the file the final outcome of an investigation when a perpetrator is identified and judicial or administrative action is taken.

D. INTRUSION DETECTION SYSTEM (IDS): Status: Green.

1. Conclusion: The IDS used to protect the sensitive CAT I and II munitions at HWAD is not operable. However, they have instituted compensatory measures and requested a waiver to the regulatory requirements as required. The Department of the Army (DA) has not yet responded to their request.

2. Discussion: HWAD is in the process of installing a new ICIIDS intrusion detection system. A necessary part of this installation process is the dismantling of the existing IDS. HWAD recognizes the requirement for IDS and has taken reasonable compensatory measures to protect the stored CAT I and II materiel in the interim. Their waiver request is at DA awaiting action. It was recommended for approval at HQ, AMC and HQ, AFSC. There are no further logical steps for HWAD to undertake at this time.

3. Recommendation(s): HWAD continues with existing compensatory measures and await approval action from DA.

E. ENTRY AND EXIT CONTROL: Status: Green.

1. Conclusion: The guards assigned at the entry/exit to the AA&E storage area are knowledgeable of their control duties and are proficient in executing them. As a result, controls are established and working as intended at HWAD.

2. Discussion: During inspection at the AA&E storage area gate, the guards performed their duties controlling entry and exit in a professional and effective manner. Their efforts are commendable. Good Job!

3. Recommendation(s): None.

F. MAINTENANCE OPERATIONS: Status: Green.

1. Conclusion: Security procedures in effect for demilitarization and demolition processes are adequate and in keeping with current policy. As a result, controls are established and working as intended at HWAD.

2. Discussion: At the New Bomb Disposal Area, about 25 miles south of HWAD on Route 359, there were no operations in progress at the time of inspection. However, the procedures established for protection of the materiel and personnel appear functional and appropriate. The area was relatively clear of demolition residue with no evidence of explosive materiel apparent. There was minor shrapnel residue; but such was considered insignificant and within toleration limits.

At the Western Area Demilitarization Facility, we reviewed the 750 pound bomb demilitarization process. The bombs are taken to a workshop where they are cut into sections. Then the explosive materiel is removed from the sections. Explosive materiel residue taken from the bombs is removed from the workshop, boxed, and stored in the magazines. The explosive materiel then becomes DZHC property and used for donor material in other demilitarization operations.

3. Recommendation(s): None.

IV - QUALITY ASSURANCE AND SURVEILLANCE

A. RETURNED MATERIEL OPERATIONS: Status: Green.

1. Conclusion: HWAD has adequate controls in place and follows procedures. As a result, controls are established and working as intended at HWAD.

2. Discussion: SOP DZHC-0000-L-002, 5 April 05, Logistics Services, Revision 1, is an adequate SOP. We observed a receipt process at a Less Than Truck Load (LTL) building DZHC operates. The QASAS performed all the necessary checks which included suspension/restriction status, annotation of DD Form 1348-1, verification of materiel markings with documentation accompanying the materiel, and Damage-In-Transit (DIT) inspection.

We selected a nine (9) document sample for review. Our review indicated that all DD Form 1348s had been annotated with the date of receipt/inspection, name of inspector, condition code, and that DIT inspection was done. The sample's Depot Surveillance Record (DSR) cards were consistent with information contained on the DD Form 1348s and SDS data input.

3. Recommendation(s): None.

B. CONDITION CODE K: Status: Amber.

1. Conclusion: The current contract does not require DZHC to manage the CC-K program. As a result, controls are established; but not working as intended at HWAD.

2. Discussion: Under the previous contract, HQ, AFSC required DZHC to formally monitor the CC-K stocks. DZHC ensured that no lot remained in CC-K over 45 days in accordance with AR 725-50, 15 Nov 95, Requisition, Receipt and Issue System, paragraph 5-44.c(2)(a). The current fixed price contract does not contain the regulatory requirement for DZHC to monitor the CC-K stocks. As a stop-gap measure, the HWAD Ammunition Surveillance Division has included the CC-K stocks in their own funded inspection program.

3. Recommendation(s): SFSJM-QAS evaluate the CC-K backlog at the storage activities and determine its effect(s) on war-fighter stocks asset posture. For HWAD,

if the backlog's effect is negative, elevate the need for contract modification and additional funding to AMSFS-CC.

C. VERIFICATION OF SUSPENSION AND RESTRICTION: Status: Green.

1. Conclusion: HWAD has effective suspension/restriction procedures in place for all the Services' suspensions/restrictions. However, we did note HWAD does not always affix suspension tags to low priority stocks in a timely manner. Overall, controls are established and working as intended at HWAD.

2. Discussion: HWAD maintains a database of all suspension/restriction actions by all Services. The database is effectively used to identify when suspension notices are not received in sequence as well as routine checks during cyclic inspections or shipment operations.

During our review, we noted that suspension tags had been prepared for stocks; but the stocks could not be found in storage and the tags had been brought back to the office. Two (2) of the lots were suspended in 2003. A check of one of the lots (1320-D245, lot BK-7-MCA-69, CC-H, Location 11362E, Grid JMPP) indicated that it is still shown on records as in storage. Although Inventory may have been notified that the items were not found in storage, no "paper-trail" exists to indicate that Inventory was notified or that Inventory took any action.

The suspension tags have not consistently been placed in storage because of higher priority activities and deployments. When applied to stocks, suspension tags are placed with the stocks during magazine inspections or during special trips to the sites for the sole purpose of applying the tags.

3. Recommendation(s):

- HWAD reviews the suspension tag program for accuracy and completeness.

- When stocks can not be found in storage, immediately notify Inventory and follow-up until stocks are found or adjustment made.

D. TRANSPORTATION AND CONVEYANCE INSPECTION: Status: Amber

1. Conclusion: We selected and reviewed five (5) outbound shipments. Our review determined all their applicable documentation was adequate. We selected and reviewed five (5) inbound shipments. Our review determined their documentation was deficient because required DD Form 626 blocks were not completed. As a result, controls are established; but not working as intended at HWAD.

2. Discussion: The HZHC Quality Assurance (QA) inspector signed the DD Form 626 in the Destination block; but did so without filling out any of the required inspection blocks. HWAD SOP HW-000-R-305, 16 Nov 00, Shipping and Receiving Inspection, Revision 3, requires that QASAS monitor 15 percent of all aspects of the contractor's process.

3. Recommendation(s):

- HWAD QASAS immediately instruct DZHC to complete required the required DD Form 626 blocks.

- When monitoring this process, the HWAD QASAS places more emphasis on the inbound shipments' required DD Form 626 blocks.

E. STORAGE MAGAZINES INSPECTIONS: Status: Amber.

1. Conclusion: HWAD has a well-written magazine inspection SOP HW-0000-T-314, 06 Nov 02, Magazine, Building Sites Containing Ammunition or Explosive in Storage, Revision 3, Change 3, that is under revision and a well-maintained database documenting magazine inspections. However, HWAD has not performed magazine inspections since July/August 2004. At that time, HWAD inspected over 400 magazines. As of 20 Apr 05, 1,353 magazines are overdue for their biennial inspections. Regulatory controls are established; but not working as intended at HWAD.

2. Discussion: Supply Bulletin (SB) 742-1, 17 Jan 05, Ammunition Surveillance Procedures, Chapter 10, requires magazine inspections be performed annually. However, HWAD in accordance with SB 742-1, chapter 10, paragraph 10-2.c. and IOP QA-001, 15 Jun 04, Magazine Inspection, has extended the annual requirement to 24 months. HWAD

extended the annual requirement due to the absence of a pattern of magazine facility or materiel deficiencies.

HWAD magazine inspections are not current because of higher priority workload and personnel shortages. HWAD plans to resume magazine inspections when two (2) annuitants and four (4) interns start work in May 2005.

Nine (9) storage sites were inspected and we found no discrepancies during our visits.

- Triple Arch Magazines: 116-72A, 116-39C, 116-43A, 115-50E, and 113-63A.

- Outdoor Storage Area: PLOT4

- Earth Covered Magazines: 114-15, 115-44, and 111-87.

3. Recommendation(s): HWAD executes proposed get well-plan identified in the Discussion section.

V - TRANSPORTATION

A. SHIPPING PROCESS, PROCEDURES, AND DOCUMENTATION:
Status: Green.

1. Conclusion: HWAD has a good shipping process. Formal procedures, IOPs, and documentation are complete. As a result, controls are established and working as intended at HWAD.

2. Discussion: We discussed the overall shipping process with HWAD transportation personnel and reviewed 25 outbound records/files. Our review disclosed procedures are in place and working as intended. DZHC shipping files/packets have all required material per previous US General Accounting Office (GAO) audit. Additional detailed information and forms are included, i.e. Transportation Priorities 1 - 3 and CAT I and II material notification form for each shipping packet. They have a check sheet attached to the front page of each packet listing required documentation. This is used for internal control and completion of files.

3. Recommendation(s): None.

B. RECEIVING PROCESS, PROCEDURES, AND DOCUMENTATION:
Status: Green.

1. Conclusion: HWAD has written procedures, IOPs, for incoming shipments. During our review, we found two (2) inadequate procedures.

- The incoming truck receipt traffic technician was not aware of the need to inform the traffic management office when shipments were received without advance REPSHIPS. Eight (8) of 15 files, 53 percent, did not have REPSHIPS. The traffic management office issues a Transportation Deficiency Report when required. This was a deficiency GAO noted.

- DD Form 626 is not always completely filled out. Specifically, the DD Form 626s are being signed, but do not indicate checks/inspections were conducted.

For this process, overall controls are established and working as intended at HWAD.

2. Discussion: We discussed the REPSHIP deficiency with the HWAD Transportation Officer, HWAD Traffic Technician (at truck lot), and DZHC Traffic Manager. The inbound procedure is being updated. This update will include the REPSHIP requirement and process notification in the revised IOP.

DD Form 626 is a QA function. SFSJM-QAS addresses this in their assessment. See Section IV - Quality Assurance and Surveillance, D. Transportation and Conveyance Inspection.

3. Recommendation(s):

- HWAD continues reviewing all IOPs and making updates as needed/required.

- HWAD revises the Incoming Shipments IOP and forwards the revision to HQ, AFSC, AMSFS-ST, care of Mr. Dave Tipp and Mr. Melvin Outen.

C. TRACKING (INBOUND AND OUTBOUND): Status: Green.

1. Conclusion: HWAD currently tracks all inbound and outbound shipments to final destination. As result, regulatory controls are established and working as intended at HWAD.

2. Discussion: HWAD tracks and monitors (traces when appropriate) all movements of munitions and sensitive materials into the depot and to the final destination for outbound shipments. As a result, HWAD fully complies with the DTR DOD 4500.9-R, November 2004, Part II - Cargo Movement, chapter 202. HWAD receives daily reports (via fax) from the Defense Transportation Tracking System (DTTS) on all shipments for both incoming and outbound movement. Procedures are in place for tracking outbound shipments and are currently being used as intended. If/when a shipment "appears" that the RDD is questionable, HWAD take proactive action by contacting the carrier to ensure on time delivery.

3. Recommendation(s): None.

D. CARRIER PERFORMANCE PROGRAM: Status: Green.

1. Conclusion: HWAD has an excellent Carrier Performance Program (CPP). As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: We interviewed the HWAD TO and discussed the process/procedures in place and viewed records/files. Our review disclosed HWAD applies the CPP criteria in accordance with the DTR DOD 4500.9-R, November 2004, Part II - Cargo Movement, chapter 207. HAWD maintains records of violations by individual carriers. Both inbound and outbound discrepancies by carriers are being funneled to one central location/person for appropriate action. Monthly reports for all LOWs are being sent via email to the HQ, AFSC transportation office, AMSFS-ST, each month in a timely manner.

3. Recommendation(s): HQ, AFSC, AMSFS-ST, pursues a quicker and simpler process for issuing LOWs. IAW DTR DOD 4500.9-R, Chapter 207, LOWs and non-use notification currently must be sent via registered mail to carriers. Replies/responses from carriers are also sent via U.S. Postal Service. A possible solution may be to allow LOWs be sent via email. Also, allow carriers to respond via email. Non-use notification would remain via registered mail.

E. SECURE HOLDING: Status: Green.

1. Conclusion: HWAD has a secure holding policy and complies with the DTR DOD 4500.9-R requirements. As a result controls are in place and working as intended at HWAD.

2. Discussion: The secure hold area information is properly noted in the TFG. We reviewed the current procedures and DZHC IOP dated 19 Mar 03. Specific procedures for managing and controlling access into and out of the secure holding/safe haven areas are clearly written for both duty and non-duty hours. The log for non-duty entry includes date, time, driver, carrier/company, tractor name, trailer number, copy of Commercial Bill of Lading (CBL), DODIC, seal numbers, explosive type, and the driver must sign the form/log. HWAD conducts daily Secure Holding inspections/inventories. The Guard Operations Center (GOC) faxes daily inventory reports to the government TO and DZHC traffic office. The TO takes appropriate action when required. The IOP is over two (2) years old, but is still

applicable and accurate, except MTMC has changed their name to SDDC. The IOP does not state "a shipment must not be held in secure holding greater than 48 hours without prior approval of the shipping activity" per MTMC/SDDC memorandum dated 19 Apr 03.

3. Recommendation(s):

- HWAD updates the 19 Mar 03 IOP to reflect name change of MTMC to SDDC. In addition, add a statement on the 48 hour rule for compliance with the 19 Apr 03 MTMC/SDDC memo.

- HWAD forwards a copy of the updated IOP to HQ, AFSC, AMSFS-ST, care of Mr. Dave Tipp and Mr. Melvin Outen.

F. EQUITABLE DISTRIBUTION OF MOVEMENT WORKLOAD: Status: Green.

1. Conclusion: HWAD properly performs equitable distribution of transportation/movement workload. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: We discussed equitable carrier distribution procedures with the HWAD TO. The TO provided carrier distribution spreadsheet and backup data. Additionally, we reviewed carrier distribution data report for December 2004 - March 2005. JMC data measured both cost/dollars by percentage and by weight/tons for each carrier. HWAD is in compliance with the GFM guidance. Hawthorne transportation maintains files/documentation and includes as an attachment, the ETA/GFM routing screen to show reasons for non-selection of equal rated/listed carriers. In most cases, reason was to ensure fair and equal distribute of transportation workload to all ammunition approved carriers.

3. Recommendation(s): None.

G. CONTAINER CONTROL MANAGEMENT: Status: Green.

1. Conclusion: The HWAD Container Management Program is excellent. As a result, local controls are established and working as intended at HWAD.

2. Discussion: We interviewed the Container Program

Manager and reviewed the program files. Our review disclosed the files contain the most recent regulatory requirements. The one (1) area HWAD needs to concentrate on is the Container Control Officer (CCO) appointment letter. HWAD verified their container upload list is completed and forwarded IAW the DOD Directive and provided to the Headquarters, Department of Army Container Manager via the US Army Field Support Command (AFSC) inventory database and Army Intermodal Distribution Platform Management Office. Hawthorne updates the AFSC inventory database monthly as required. Currently, on-hand Hawthorne has 615 leased Textainer containers under prefixes PRSU, MLCU, TGHU and TEXU. Arrangements have been made with the HQ, AFSC Container Manager to get the list of these containers and provide it to Textainer for their removal of all; but 200 containers. The HWAD CCO requested keeping at least 200 leased containers on-hand for future movements.

3. Recommendation(s): AMSFS-ST provides the JMC storage activities with Command Container Management Policy that provides clear container management requirements guidance within 120 days of final report release.

H. TRANSPORTATION FACILITY GUIDE (TFG): Status: Green.

1. Conclusion: During our assessment, we reviewed the HWAD TFG screens/listings in ETA. The TFG is current as of 31 Jan 05. As a result, regulatory controls are in place and working as intended at HWAD.

2. Discussion: We discussed the TFG update procedures and process using ETA. HWAD has indicated using ETA/TFG system/software is slow. Other JMC TOs have expressed similar concerns/problems with TFG program/software.

3. Recommendation(s): HWAD continues with current operation. GFM is being updated as required and within required guidelines. If any problems with ETA/TFG program arise, identify "exact" program/software problems and forward to HQ, AFSC, AMSFS-ST, care of Mr. David Tipp and Mr. Melvin Outen.

I. STANDARD OPERATING PROCEDURES AND DESK PROCEDURES: Status: Green.

1. Conclusion: DZHC has written IOPs for each functional area reviewed. As a result, local controls are established and working as intended at HWAD.

2. Discussion: We reviewed transportation outbound procedures, receiving, met/missed RDDs, export (water, air, Foreign Military Sales), container management, and secure hold area. Our review disclosed DZHC has very good written procedures. These procedures are readily accessible to all personnel.

3. Recommendation(s): None.

VI - EXPLOSIVE SAFETY

A. RESPONSIBILITY ASSIGNMENT AND ORGANIZATIONAL STAFFING:
Status: Green.

1. Conclusion:

a. The ACO Safety Officer at HWAD, responsible for the oversight of the explosive safety program at HWAD, is a member of the Commander's Staff with unencumbered access to the Commander in accordance with regulatory guidance. Safety responsibilities throughout the installation are identified in the HWAD Regulation (HWADR) 385-10, 31 Oct 00, Safety Program Management. The DZHC Safety Manager has unencumbered access to the DZHC General Manager. Safety responsibilities throughout the organization are identified in the DZHC Safety Program. As a result, regulatory controls are established and working as intended at HWAD and DZHC.

b. The HWAD and DZHC Safety Offices are fully staffed with current manning requirements. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion:

a. Both organizations operate within the regulatory guidance or are aligned with the spirit of the regulations with respect to the unencumbered access of the Safety Managers to the senior member of their respective organizations. HWADR 385-10 clearly identifies safety related responsibilities throughout the organization. This regulation is currently under review with changes forthcoming. The DZHC Safety Program is a comprehensive controlled document providing detailed requirements for explosive safety concerns.

b. The HWAD ACO Safety Office is staffed with a manager responsible for oversight of the installation explosive safety arena. This office provides oversight of the many and varied explosive operations being executed at HWAD (by DZHC, US Marine Corps, and US Navy). The DZHC Safety office is fully staffed as required by current work requirements. They have also instituted a program that requires Quality Assurance Specialists to focus daily efforts with respect to explosive safety duties.

3. Recommendation(s):

- HWAD and DZHC continue to execute the safety program in accordance with established regulatory guidance.

- The DZHC Safety Program document is shared with other organizations as an example that presents a comprehensive compilation of safety requirements.

- Both HWAD and DZHC continue to execute and enforce an effective safety program.

B. REGULATIONS AVAILABIITY AND CURRENCY: Status: Green.

1. Conclusion: HWAD Safety, responsible for oversight of the explosive safety program at HWAD, has access to (either hardcopy at their workstation or online) the required current regulations. DZHC has a current copy of DOD 4145.26, September 1997, Standard Contractors Safety Manual for Ammunition and Explosives (DOD 4145.26M) available. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: Both HWAD and DZHC Safety personnel exhibit strong in-depth regulatory requirements knowledge. Their on-hand resources are extensive and supplemented by publications available on-line. Note: As required by the fixed-cost contract, DZHC must follow regulatory guidance in effect at the time of contract award.

3. Recommendation(s): None.

C. EXPLOSIVE LICENSES: Status: Green.

1. Conclusion: The HWAD Ammunition Storage Plan contains required explosive licensing information. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: The HWAD Ammunition Storage Plan is a very comprehensive document that provides the "backbone" of the licensing program. The document is current and being reviewed on an annual basis. HWAD Safety maintains this document. As indicated in the regulatory controls, an explosive license is a required and permanent document listing Hazard Division limits for all Department of Defense Explosive Safety Board (DDESB) approved ammunition

and explosive approved sites. The HWAD Ammunition Storage Plan currently lists all storage sites, operating buildings, and loading docks, to include information required by Department of the Army Pamphlet 385-64 (DA PAM 385-64), 15 Dec 1999, Ammunition and Explosives Safety Standards.

3. Recommendation(s): HWAD consider pursuing the acquisition of DOD sponsored free software (ESS) that will provide an automated means of maintaining the explosive license program as well as installation master maps with explosive safety quantity distance arcs. The DAC US Army Technical Center for Explosive Safety (USATCES) will provide information for the acquisition of the program.

D. DEPARTMENT OF DEFENSE EXPLOSIVE SAFETY BOARD (DDESB) FINDINGS: Status: Green.

1. Conclusion: HWAD provided responses to the two (2) findings surfaced during the 2004 DDESB survey. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: Findings identified during the 2004 DDESB Survey were responded to by initiating and executing two (2) separate Safety Site Plan Submissions. These submissions have been forwarded as required by regulatory guidance.

3. Recommendation(s): HWAD contacts HQ, AFSC, AMSFS-SF, to obtain status of these submissions.

E. SITE PLANS AND INSTALLATION MASTER PLAN: Status: Green.

1. Conclusion: The HWAD Safety Office provided evidence of compliance with the explosive safety site plan submission process and presence of an Installation Master Map with explosive safety quantity distance arcs. As a result, the regulatory controls are established and working as intended.

2. Discussion:

The HWAD Safety Office executes a very effective site plan safety submission process. DZHC provides input to the process. There is evidence of a strong, close working

relationship between the organizations. No new construction or modification to existing buildings occurs without discussion among interested parties and obtaining final concurrence of the Depot Commander. Of special note, HWAD Safety has forwarded submissions for all existing facilities requiring DDESB approval.

The HWAD Safety Office maintains an Installation Master Plan (map), titled "HWAD Strategic Plan 2000-2010". Also, a series of maps displaying explosive safety quantity distance arcs is present in the safety office.

HWAD has no exemptions or waivers in effect at this time.

3. Recommendation(s):

- HWAD Safety and DZHC continue to work together to provide accurate and effective site plan submissions.

- HWAD considers pursuing the acquisition of DOD sponsored free software (ESS) that will provide an automated means of maintaining the explosive license program as well as installation master maps with explosive safety quantity distance arcs. DAC USATCES will provide information for the acquisition of the program.

F. DEMOLITION AND DEMILITARIZATION OPERATIONS: Status: Green.

1. Conclusion: The DZHC demolition and demilitarization processes observed comply with the approved standard operating procedures. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion:

The Plasma Ordnance Disposal System (PODS) operation is still in a pre-operational phase. No energetic material is being processed at this time. Evidence was provided indicating compliance with conditions set forth in the safety site plan submission.

The M483A1 Disassembly and C445 Renovation operations are good examples of safe and efficient operations.

3. Recommendation(s):

- HWAD continues to execute the demilitarization process in accordance with the procedures established for these operations.

- HWAD maintains the excellent coordination and cooperation of all organizations required to execute the operations safely and efficiently.

G. MATERIAL HANDLING OPERATIONS: Status: Green.

1. Conclusion: DZHC personnel execute material handling in accordance with the required current regulations. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: Material handling operations were observed at Buildings 108-20 and 103-16. Forklifts were serviceable, with current inspections, and operated appropriately. Slings and chain hoists were serviceable, with current inspections, and operated appropriately. Operators are properly trained and licensed with records available at the Human Resources Training Coordinator's office.

3. Recommendation(s): DZHC continues to execute the material handling operations safely and in accordance with regulatory guidance.

VII - INTERNATIONAL STANDARDS ORGANIZATION (ISO) 9001:2000:
Status: No rating.

A. APPLICABILITY:

1. Conclusion: Pursuit of ISO certification is appropriate for the HWAD ACO given MACOM/MSC support and sufficient resources.

2. Discussion: The HWAD ACO does not have an established QMS. This is a requirement for an organization desiring ISO certification. Resources, funding and personnel, preclude HWAD from actively seeking ISO certification. The HWAD Office of the Commander is fully cognizant of the benefits of an organization being certified to the ISO Standard.

DZHC does have an established QMS and was certified to ISO 9001:2000 on 13 Jul 01. Evidence was provided indicating the organization is working within the QMS. The QMS is tested regularly as required by ISO. Documentation supporting the QMS includes Quality Management Policies, SOPs, and IOPs.

3. Recommendation(s): DZHC has established an excellent, comprehensive QMS that could be used as an example for other installations in establishing an ISO certifiable QMS.

VIII - ADMINISTRATION

A. STAFFING AND MANPOWER:

IV - Quality Assurance and Surveillance: Status: No rating.

1. Conclusion: Currently critical mission areas are being adequately supported, but only through using QASAS interns to fill these positions during their on-the-job training.

2. Discussion:

Four (4) new interns report for work in May 2005 and will not be on the HWAD Table of Distribution and Allowance unlike the three (3) departing interns who were. The three (3) departing interns are being transferred as they become journeymen QASAS. Two (2) new annuitants will report for work in May 2005.

One (1) QASAS is currently deployed.

For all HWAD journeymen QASAS currently assigned, one (1) has been at HWAD for more than four (4) months and will leave in May 2005.

In June 2005, two (2) QASAS supervisors will be certified in HAZMAT transportation.

Inexperience and high turnover of personnel result in inadequate training of interns.

Some QASAS administrative functions have been tasked to the office secretary.

3. Recommendation(s): None. Career Program 20 Manager is addressing this concern as Higher Headquarters directed.

B. TRAINING:

V - Transportation: Status: Green.

1. Conclusion: HWAD transportation employees are being properly trained and certified. Records are maintained. Training plans for each DZHC employee by job

description are laid out very clearly and precisely. HWAD has a very good overall training plan in place, with one exception. HAZMAT certifiers do not have "appointment orders" outlining scope of authority from the activity, Commander or his representative. As a result, regulatory controls are in place and working as intended at HWAD.

2. Discussion: We discussed training requirements with the DZHC Training Officer and HWAD TO. The DZHC Training Officer demonstrated the DZHC program and made all queries sought. We reviewed the transportation employee training program.

SPECIAL NOTE: The DZHC Traffic Manager requested JMC assistance for additional AIT training to include key control, security, and MTMS-FM software. AMSFS-ST has been contacted and is willing to work with HWAD and provide them with MTMS-FM training. SFSJM-CTA will discuss further as a "special interest item".

3. Recommendation(s): HWAD ensure both government and contractor employees, that are HAZMAT certified, are appointed in writing (appointment orders). Government employees should be appointed by the Commander. HWAD should make an internal decision as to who signs/appoints DZHC employees. Either the Commander or a DZHC representative is acceptable. Copy must be provided to the HWAD TO. Upon completion of appointment orders, the HWAD TO sends an email to HQ, AFSC, AMSFS-ST, care of Mr. Dave Tipp and Mr. Melvin Outen, stating this action is completed. AMSFS-ST does not need copies of appointment orders/letters.

VI - Explosives Safety: Status: Green.

1. Conclusion: DZHC has developed and maintains a comprehensive and extensive training program in accordance with regulatory guidance. As a result, controls are established and working as intended at HWAD.

2. Discussion: DZHC executes its explosive training IAW the DZHC Master Training Plan and Safety Program. The DZHC Safety Manager provides general and job related training during new employee orientation. Employees must pass a written test at the conclusion of the explosive safety portion. HAZMAT training is conducted after completion of new employee training. Employees report to

their assigned supervisor to receive job specific, standard operating procedure training. The Human resources Division Training Coordinator keeps detailed records for all training. Our records review indicates that explosive safety training is a high priority in personnel development.

3. Recommendation(s):

- DZHC continues to emphasize and execute an effective explosive safety-training program.

- AMSFS-HR considers adopting the "PC Compliance-Training Management Software (v.3.0)" command-wide to forecast, schedule, and record, personnel training.

IX - SPECIAL INTEREST ITEMS

A. AUTOMATION: Status: Not Rated.

1. Conclusion: HWAD has implemented several automation initiatives. In addition, HWAD would like to expand their MTMS-FM knowledge and use. HWAD has a manual key control process; but expressed interest in the HQ, JMC automated key control process.

2. Discussion:

SILC: HWAD has embraced SILC and is reaping the benefits of greater efficiencies in their inventory program. Inventory is doing an excellent job; but feels the storage, receipt, and shipping, crews could use more training on scanner use to reproduce needed bar codes without manual data entry. The SILC help desk is more than willing to assist HWAD. This should help in the bar codes continued accuracy.

MTMS-FM: HWAD has purchased all the MTMS-FM equipment to use the system. At this time HWAD is currently printing MROs using the AIT server; but needs training on the functionality of the screens and use between departments. They are able to write tags using the Smart Chain Client Tools (previously TAV tools), but have not been trained on MTMS-FM software. Hawthorne is currently creating Transportation Control and Movement Documents (TCMDs) using the Command's web site. HWAD is eagerly waiting on training so they can use the entire system.

Product Manager Joint-Automatic Identification Technology (PM-J-AIT): HWAD is awaiting the PM-J-AIT team Site Survey before proceeding with training. Hawthorne wants to ensure correct functioning and communication exists. The team was recently in HWAD the week of 27 - 29 Mar 05. POC during the site survey came from the Information Technology department.

Mobile Detection Assessment and Response System (MDARS) - Exterior System: HWAD is the MDARS prototype for a joint Army - Navy development effort to provide automated intrusion detection and inventory assessment capability for use in DOD warehouses and storage sites. The MDARS' objective is to provide an autonomous platform utilizing robotics technology with the following capabilities:

surveillance of assets and facility grounds, intruder detection, barrier assessment using sensors for door lock detection, and inventory control assistance.

Key Control Program (Check-It-Out): At this time, this automated program has not been initiated at HWAD, but they are open to its installation and the available HQ, JMC, SFSJM-CTA, training.

3. Recommendation(s): None.

B. MRO DENIALS: Status: Not Rated.

1. Conclusion: On two (2) separate instances, Hill AFB item managers by-passed the HQ, JMC process for requisitioning SMCA materiel and created in-line denials. The unauthorized MRO generated a 16 percent denial rate in March 2004 and a 27 percent denial rate in February 2005 for HWAD. This resulted in a poor MRO performance at HWAD.

2. Discussion: The AF item managers loaded requisitions without HQ, JMC knowledge or authorization and the MROs automatically denied in-line with a management code 7 - no requesting stock number. The denials are reflected on the US Army Materiel Command Depot Report of Supply Performance (304 Report) for March and April 2004 and February and March 2005. The erroneous denial data reflected in the 304 Report is not correctable and elevates the HWAD denial rate well above the HQ, AMC one (1) percent denial goal. These AF item manager requisition generated errors must be corrected to avoid future denial at HWAD.

3. Recommendation(s): HQ, JMC, SFSJM-CTA, requests the AF Liaison Office located at Rock Island Arsenal assistance in training Hill AFB item managers on the proper procedure for requisitioning SMCA controlled stock.

C. PROPELLANT STABILITY PROGRAM: Status: Green.

1. Conclusion: HWAD has properly established a Propellant Stability Program. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: Our review determined HWAD has a local procedure, IOP QA-004, 16 Jun 04, Propellant Management Policy, and database with current stability values that form the foundation for their Propellant Stability

Program's implementation and execution. We selected ten (10) lots for review. Each lot reviewed has the current percent stability and test date recorded on the DSR Card and the local database. As a result, HWAD complies with SB 742-1 and DAC Guide, December 2003, Ammunition Logistics - Propellant Management Policy.

3. Recommendation(s): None.

X - MANAGEMENT CONTROL

A. ASSESSMENT:

1. Conclusion: As previously stated, we found two (2) instances at HWAD. (I) Controls are established and working as intended. (II) Controls are established and not working as intended. It is HWAD management's responsibility to periodically test key management controls and verify they are in place and working as intended so they eliminate or reduce the procedure, process, or system, associated high, medium, or low, risk(s). This constitutes the Army management control policy, specifically - risk management.

2. Discussion: Risk management is a Management Control Program and process component and managerial responsibility. During the assessment we reviewed the HWAD FY 05 Assurance Statement on Management Control forwarded to HQ, AFSC. Our intent was to confirm through supporting documentation that in FY 05 HWAD tested the functional areas we assessed and verified key controls are in place and working as intended. We were unable to accomplish this effort because a documented audit trail did not exist to show the tests HWAD conducted and their results. Retaining supporting documentation to verify performing key management controls testing and verification is something we need to address to the HQ, AFSC Management Control Administrator and ensure is present in the FY 06 Management Control Program guidance. Supporting documentation provides an independent reviewer such as our Assessment Team with reasonable assurance key management controls are in place and operating as intended before the review begins.

In accordance with AR 11-2, chapter 2, paragraph 2-6, the absence or ineffectiveness of management controls constitutes a management control weakness that requires correction. In addition, the organization must evaluate the management control weakness for materiality. As a result, HWAD must review this assessment's instances where controls are not working as intended and (1) determine if any are material and (2) correct them. Correction applies to the instance even if it is not considered a material weakness. *Note: Resource deficiencies in themselves are not considered management control weaknesses.

3. Recommendation(s): The HWAD Management Control Program POC:

- Maintains a copy of the assessment report in the Management Control Program files to document the assessment was performed in FY 05 and its results.

- Updates the existing "MANAGEMENT CONTROL EVALUATIONS CONDUCTED WITHIN (HAWTHORNE ARMY DEPOT) IN FISCAL YEAR 2005" enclosure and forward a copy to the BGAD MCA for forwarding to the HQ, AFSC MCA. List this assessment as P - Process Review.

- Receives a schedule of audits, inspections, and other reviews, performed and completed at HWAD during the FY. Any audits, inspections, and other reviews, completed during the FY and before the HQ, AFSC management control suspense should appear in enclosure 2, MANAGEMENT CONTROL EVALUATIONS CONDUCTED WITHIN (HAWTHORNE ARMY DEPOT) IN FISCAL YEAR XX. For those audits, inspections, and other reviews completed after the HQ, AFSC management control suspense, they should go into enclosure 2 for the following FY.

- The applicable HWAD managers evaluate the audit, inspection, or other reviews, results and determine if key controls are in place and working as intended. After this evaluation, provide written documentation regarding their evaluation to the HWAD Commander and HWAD Management Control Program POC.

APPENDIX A - HWAD AND DZHC KEY PERSONNEL CONTACTED

NAME	ORGANIZATION	DSN 830
LTC Johnny Summers	Commander	7001
Mr. Florentino Cardenas	CEA	7002
Mr. Ray Montoya	Inv/Accountability	7502
Ms. Clezie Brantley	DZHC Inv/Accountability	7205
Ms. Teresa McNally	DZHC Inv/Accountability	7447
Ms. Rita Vaden	DZHC Inv/Accountability	7765
Ms. Debbie Sitton-Baker	DZHC Inv/Accountability	7275
Ms. Gloralyn Rath	DZHC Inv/Accountability	7023
Ms. Gina Buum	DZHC Inv/Accountability	7970
Mr. Lotus Rubert	DZHC Inv/Accountability	7463
Ms. Rita Barnhurst	DZHC Inv/Accountability	7987
Mr. Tom Lyle	Physical Security	7012
Mr. Joe Carlos	DZHC Physical Security	7601
Ms. Sue Teters	DZHC Physical Security	7555
Mr. Ed Simkins	Quality Assurance	7407
Mr. Jon Allie	Quality Assurance	7834
Ms. Renee Holt	Quality Assurance	7400
Mr. Kent Wofford	Quality Assurance	7835
Ms. LeAnne Cornell	DZHC Quality Assurance	7041
Mr. Steve Wheeler	DZHC Quality Assurance	7043
Mr. Steve Clark	Transportation	7118
Ms. Donna Kovacs	DZHC Transportation	7415
Ms. Nora Selby	DZHC Transportation	7306
Mr. Gene Dillard	DZHC Transportation	7850
Mr. Dave Dillingham	Safety	7020
*Mr. Jim Holt	DZHC Safety	7930
Mr. Wayne Larson	DZHC Safety	7842
Ms. Donna Roberts	Management Controls	7341

*Retired 28 Apr 05.

APPENDIX B - ASSESSMENT TEAM MEMBERS

NAME	ORGANIZATION	DSN 793
Mr. Rickey Peer	JMC Inv/Acct	2307
Ms. Mazie Angus	JMC Inv/Acct	3596
Mr. Marvin Elmore	JMC Inv/Acct	6644
Mr. Mark Lile	JMC Inv/Acct	0132
Mr. Howard Hill	JMC Inv/Acct (BGAD)	DSN 745-6547
Mr. Sebastian Curtis	AFSC Internal Review	2497
Mr. James Moore	AFSC Force Protection	1530
Mr. Quinn Williams	JMC QASAS	6617
Mr. Bill Akins	JMC QASAS	7552
Mr. Dave Tipp	AFSC Transportation	6243
Mr. Rick Gates	AFSC Transportation	4873
Mr. Dan Linehan, Jr.	DAC	DSN 956-8867
Mr. Jay Lundberg	JMC Facilities Mgmt	2318

Historical Data Renovation/Demil at HWAD

Year	Renovation (Tons)	Demil (Tons)	Shipping	Receiving	
FY90			37263	55408	
FY91			98093	112913	
FY92			53900	139600	
FY93			34189	70936	
FY94	5647	19145	31113	51662	
FY95	311	20768	40387	45394	
FY96	2087	11925	45792	38169	
FY97	4056	13186	51243	30045	
FY98	5745	9680	51600	27386	
FY99	1847	9789	52730	13267	
5th Qtr 99	4105	2490			
CY00	1500	4577	22051	6319	
CY01	6210	4278	32373	9752	
CY02	2548	8065	17445	3452	
CY03	3510	6535	15050	41406	
CY04	3193	5525	16342	21459	
CY05	1413	2458			
TOTALS	**42172**	**118421**	**599571**	**667168**	

519: Production => Munitions Demilitarization Capacity by Munitions MIDAS Classes

Location: HAWTHORNE ARMY DEPOT

Question Status: Approved

Question Text: Answer the following questions only if you perform any form of MUNITIONS demilitarization: 1) Indicate by "Y" (yes) or "N" (no) whether a permit exists for each form of demilitarization: -Open burn/open detonation (OB/OD) -Melt-out -Wash-out -Incineration -Reclamation 2) For current capacity columns, enter the current capacity amount in the appropriate column ("EA" (each) or "Short Tons"). Current capacity is defined as the expected monthly output from utilization of all active lines or workstations running a 1-8-5-shift basis, under current operating conditions. 3) For current usage columns, enter the current usage amount in the appropriate column ("EA" (each) or "Short Tons"). Current usage is defined as the average monthly output from that portion of the current capacity that is actually in use (as of end of 4th Qtr FY03. 4) For maximum capacity columns, enter the maximum capacity amount in the appropriate column ("EA" (each) or "Short Tons") using current workloadf mix as a baseline. Maximum capacity is defined as the total monthly output attainable running a 1-8-5-shift basis, with full utilization of ALL lines or workstations, active and inactive. Maximum capacity INCLUDES hiring skilled labor and reactivation of inactive lines, but EXCLUDES facility expansion. Your capacity CANNOT EXCEED the maximum capacity of a 40 hour workweek.

Data Element Definition: This question is to be answered by government-owned, government operated (GOGO) and government-owned, contractor-operated (GOCO) facilities performing the following activities: munitions and/or armaments production; depot level munitions storage; deepstow and short-term storage; depot level munitions and/or armaments maintenance; munitions and/or armaments demilitarization and repair at traditional depot- and intermediate-levels as defined below. For specific definitions, see the OSD BRAC library.

Data Element Reference: Defense Ammunition Center Munitions Items Disposition Action System (MIDAS) (http://206.37.241.30/)

Answer Source: MIDAS Family CD: PODs RCRA Permit HW0013, Rev 2002; Service Demilitariation Generations Distribution Guide; Historical Process Data.

Reason for Change: Revised feed list for the Plasma Ordnance Demilitarization System (PODS).

MIDAS Classes CD: Dyes

Permit:	Y
Method of Demil - OB/OD Permit:	N
Method of Demil -Melt-Out Permit:	N
Method of Demil - Wash-out Permit:	N
Method of Demil - Incineration Permit:	Y
Method of Demil - Reclamation Permit:	N
Current Capacity: Unit Of Measure: Ea (Each) **Allow Decimal**	121120
Current Capacity: Unit Of Measure: Short Tons (Short Tons) **Allow Decimal**	134
Current Usage: Unit Of Measure: Ea (Each) **Allow Decimal**	0
Current Usage: Unit Of Measure: Short Tons (Short Tons) **Allow Decimal**	0
Maximum Capacity: Unit Of Measure: Ea (Each) **Allow Decimal**	121120
Maximum Capacity: Unit Of Measure: Short Tons (Short Tons) **Allow Decimal**	134

520: Production => Munitions Maintenance Capacity by Munitions Commodity Family

Location: HAWTHORNE ARMY DEPOT

Question Status: Approved

Question Text: For the commodity/commodities on which you are performing maintenance, fill in the table below. If you are performing maintenance on a component of that commodity, include the capacity for that component on the end item line. 1) For current capacity columns, enter the current capacity amount in direct labor hours (DLHs). Current capacity is defined as the expected monthly output from utilization of all active lines or workstations running a 1-8-5-shift basis, under current operating conditions. 2) For current usage columns, enter the current usage amount in direct labor hours (DLHs). Current usage is defined as the expected monthly output from that portion of the current capacity that is actually in use (as of end of 4th Qtr FY03). 3) For maximum capacity columns, enter the maximum capacity amount in direct labor hours (DLHs) using current workload mix as a baseline. Maximum capacity is defined as the total monthly output attainable running a 1-8-5-shift basis, with full utilization of ALL lines or workstations, active and inactive. Maximum capacity INCLUDES hiring skilled labor and reactivation of inactive lines, but EXCLUDES facility expansion. Your capacity CANNOT EXCEED the maximum capacity of a 40 hour workweek.

Data Element Definition: This question is to be answered by government-owned, government operated (GOGO) and government-owned, contractor-operated (GOCO) facilities performing the following activities: munitions and/or armaments production; depot level munitions storage; deepstow and short-term storage; depot level munitions and/or armaments maintenance; munitions and/or armaments demilitarization and repair at traditional depot- and intermediate-levels as defined below. For specific definitions, see the OSD BRAC library.

Data Element Reference: DoD Depot Maintenance Capacity and Utilization Measurement Handbook, DoD 4151.18H

Answer Source: HWAD has capabilities for several commodity families listed and has identified thses by entering 1 for current capacity. HWAD cannot report direct labor manhours as the operating contractor is not required to use DoD 4151.18H.

Commodity Family Sea Sparrow Missile

Current Capacity: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0
Current Usage: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0
Maximum Capacity: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0

Commodity Family AMRAAM

Current Capacity: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0
Current Usage: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0
Maximum Capacity: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0

Commodity Family Harpoon Missile

Current Capacity: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0
Current Usage: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0
Maximum Capacity: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0

Commodity Family HARM Missile

Current Capacity: Unit Of Measure: DLH (K) (Direct Labor Hours in Thousands) **Allow Decimal**	0

Rebecca Benscoter (PKI)

From: Debbie Sitton
Sent: Tuesday, July 05, 2005 9:22 AM
To: Herman Millsap (PKI); Rebecca Benscoter (PKI)
Subject: 750# bombs

Herman and Jewell,
I did not put the demil of 750# bombs on the spreadsheet.

We processed 2427 tons of 750# bombs in CY04 and CY05 under demil.

Thanks,
Debbie

Rebecca Benscoter (PKI)

om: Debbie Sitton
ent: Tuesday, June 28, 2005 1:10 PM
To: Rebecca Benscoter (PKI); Herman Millsap (PKI)
Subject: Tons renovated and demiled, plus tons received and shipped

Okay, let's try this again. This is the most current version.
I put today's date after the title so we do not get them confused.

Thanks
Debbie

Historical Data.xls (46 KB)

Historical Data Renovation/Demil at HWAD

Year	Renovation (Tons)	Demil (Tons)	Shipping	Receiving
FY90			37263	55408
FY91			98093	112913
FY92			53900	139600
FY93			34189	70936
FY94	5647	19145	31113	51662
FY95	311	20768	40387	45394
FY96	2087	11925	45792	38169
FY97	4056	13186	51243	30045
FY98	5745	9680	51600	27386
FY99	1847	9789	52730	13267
5th Qtr 99	4105	2490		
CY00	1500	4577	22051	6319
CY01	6210	4278	32373	9752
CY02	2548	8065	17445	3452
CY03	3510	6535	15050	41406
CY04	3193	5525	16342	21459
CY05	1413	2458		
TOTALS	**42172**	**118421**	**599571**	**667168**

Items Processed At HWAD

	FY95			FY96			FY97		
	Reno	QTY	Tons	Reno	QTY	Tons	Reno	QTY	Tons
361	60MM	27178	95	81MM Ill	19529	172	Harm Missiles	214	7
479	M76 Grenades	67171	187	Fins	2768	171	Signals Ill	11200	1
40	81MM Test	198	2	M58 Demo Chg	268	402	81MM Fuze	19737	81
15	40MM	15799	10	X-Ray 105MM	22147	664	Inspect MICLICs	804	2423
85	Fin Assy	582	17	60MM Mortars	114360	553	Xray 105MM	24399	732
463				155MM Cop.Hd.	98	10	30MM Ctg.	786	41
90				Repack M58 Fz	70144	115	Fins Assy	6657	265
347							MFG Chgs	100	1
758							Reno 155MM	5328	266
9							Load HARMS	110	15
							C4 Reclamation	137	175
							Remark CNU Cor	994	49
647		110928	311		229314	2087		70466	4056
	Demil	Tons		Demil	Tons		Demil	Tons	
	175MM Proj,	4613		105MM HE	8186		8" Proj	3793	
	Download Propellant	91		CBU	152		105MM Ctg	2551	
	Emer. Demil	463		Emer. Demil	82		UD Prog 1	1986	
	105MM APT/HEP	4678		MK10 Rkt Mtr			UD Prog 2	2607	
	RDA Stocks	83		UD Program	2299		90MM Ctg	1521	
	UD Program	721		MK19 Demil	1206		Bomb Fins	400	
	MK10 Rkt Mtrs	333					MK19 Bullpups	111	
	MK9 Depth Charges	1537					Emerg. Demil	179	
	105MM HE	5839					Harms	38	
	demil CBUs	2306							
	Demil Fins	104							
		20768			11925			13186	

Items Processed At HWAD

	FY99			5th Qtr 00			CY00			CY01		
	Reno	QTY	Tons	Reno	QTY	Tons	Reno	QTY	Tons	Reno	QTY	Tons
560	155Mm Proj D579	13130	663	MICLICs M913	493	739	MICLICs	1000	1500	MICLICs M913	2677	4016
79	MICLICs ML25	306	459	MICLICs ML25	311	381				155MM D544	20000	1092
586	MICLICs M913	254	560	155MM D579	54652	2985				155MM D579	4032	220
85	120MM Ctg	4381	165							105MM C518	26727	882
435												
745		18071	1847		55456	4105		1000	1500		53436	6210

	Demil	Tons		Demil	Tons		Demil	Tons		Demil	Tons	
	OB	803		OD	695		3/50 Ctg	978		81MM C256	1000	
	UD Program	2710		5/38 Proj	587		Prop Chgs	156		MK115 Bombs	569	
	Emerg. Demil	7		105MM CTG	352		Inert	1214		MK25 Mines	1228	
	M687 Proj.	5970		OB Propellant	551		7.2Depth Chg	835		3/50 Ctgs	9	
	105MM Tungsten	23		RDA Demil	113		Unstable Prop	630		Inert	886	
	5/38 Proj.	276		7.2Depth Chg	192		5/38 Projectiles	649		Unstable Prop	586	
							M60/M61 Rkts	115				
		9789			2490			4577			4278	

Items Processed At HWAD (June 28, 2005)

	CY03			CY04			CY05		
	Reno	QTY	Tons	Reno	QTY	Tons	Reno	QTY	Tons
8	155MM D544	6428	351	105MM C445	52973	2330	105MM C445	47128	1413
	155MM D544	2815	153	TNT Segregation	27002	810			
	TNT Segregation	70969	2129	Imbiber Beads	1638	36			
	M2A1 Cans	6744	19	Lau10 Launchers	80	10			
	M548 Cans	10767	116	FMU139 Fuzes	969	7			
	105MM C445	24720	742						
8		122443	3510		82662	3193		47128	1413
	Demil	Tons		Demil	Tons		Demil	Tons	
	8" ICM	2046		8" ICM	1688		8" ICMs	1500	
	MK25 Mines	1226		MK14 Torpedos	8		155MM ICMs	630	
	81MM C256	764		Initiators	1		MK25 Mines	63	
	Inert	316		155MM ICMs	1638		Emergency Demil	14	
	Torpedo	1		MK25 Mines	1409		Unstable Prop	147	
	Unstable Prop	1808		Smoke Pots	8		Range Scrap	104	
	Range Scrap	101		Titans	8				
	Emergency Demil	273		Emergency Demil	762				
				Unstable Prop	3				
		6535			5525			2458	

Rebecca Benscoter (PKI)

Debbie Sitton
Wednesday, June 22, 2005 1:31 PM
Herman Millsap (PKI); Denise Munger; Rebecca Benscoter (PKI); Robert Schleef
Subject: Generated scrap metal and explosives Revision 1

This is the correct sheet for generated explosives and metals.

Generated Scrap
Metal from Ope...

Generated Scrap Metal from Operations at HWAD

91,400,000 pounds at a value of $7,000,000

Generated High Explosives

TNT	4,100,000 pounds
Comp B	6,899,000 pounds
Comp A3	910,000 pounds
HBX	9,240,000 pounds
H-6	800,000 pounds
PBXN	20,000 pounds
Tritonal	1,926,000 pounds
Comp B Oxamide	550,000 pounds
Cyclotol	205,000 pounds
Totals	24,650,000 pounds

The value of the explosives is approximately $39,341,400.

We used the SDS records for TNT, HBX, Comp B, Comp A3 with an average price of $1.596 per pound.

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Inflation Calculators

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Contents

- **Consumer Price Index (CPI) Inflation Calculator**
  This is an inflation calculator for adjusting cost of living from one year to another using the Consumer Price Index (CPI) inflation index. This inflation calculator is based on the average inflation index during the calendar year. This inflation calculator will compute inflation rates for any years between 1913 and 2003.
- **Employment Cost Index (ECI) Inflation Calculator**
  This is an inflation calculator for adjusting costs from one year to another using the Employment Cost Index (ECI) inflation index. This inflation calculator is based on the average inflation index during the calendar year. This inflation calculator will compute inflation rates between 1981 and 2003. The Employment Cost Index measures changes in wages, salaries and benefits for civilian workers (private industry plus state and local government).
- **GDP Deflator Inflation Calculator**
  This is an inflation calculator for adjusting costs from one year to another using the Gross Domestic Product (GDP) Deflator inflation index. This inflation calculator is based on the inflation rate during the US Government Fiscal Year, which begins on October 1 and ends on September 30. This inflation calculator will compute inflation for any years from 1940 to 2009.
- **Import Price Index (MPI) Inflation Calculator**
  This is an inflation calculator for adjusting costs from one year to another using the Import Price Index (MPI) inflation index. This inflation calculator is based on the average inflation index during the calendar year. This inflation calculator will compute inflation rates between 1982 and 2003. The Import Price Program produces U.S. Export and Import Price Indexes. The export and import price indexes measure the transaction prices of goods and services exported from or imported into the United States.
- **NASA New Start Index**
  This is an inflation calculator for adjusting costs from one year to another using the NASA New Start Inflation Index. This inflation calculator is based on the inflation rate during the US Government Fiscal Year, which begins on October 1 and ends on September 30. This calculator computes inflation from 1959 to 2020.
- **Producer Price Index (PPI) Inflation Calculator**
  This is an inflation calculator for adjusting costs from one year to another using the Producer Price Index (PPI) inflation index. This inflation calculator is based on the average inflation index during the calendar year. This inflation calculator will compute inflation rates between 1947 and 2003. The Producer Price Index measures changes in the wholesale prices of finished goods.

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Other on-line inflation calculators:

- Cost-of-Living Calculator - This calculator computes cost of living changes from 1913 to the present based on the US CPI. This one includes major subcategories and cities.
- Cost of Living Comparison - A calculator to compare cost of living between 399 major US metro areas.
- The Inflation Calculator - Use this calculator to adjust any given amount of money, according to the Consumer Price Index, from 1800 to the present.
- The Salary Calculator - Use this calculator to compare the cost of living in hundreds of U.S. and international cities.

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NASA

Web Curator: Kelley Cyr
NASA Official: Kelley Cyr

Updated: 21-Jan-2005

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Consumer Price Index (CPI) Inflation Calculator

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Consumer Price Index (CPI)

Cost:	80000000	
From:	1973	calendar year
To:	2004	calendar year
Inflation Index:	4.255	
% Change:	325.5	
Inflated Cost:	340400000	

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This is an inflation calculator for adjusting costs from one year to another using the Consumer Price Index (CPI) inflation index. This inflation calculator is based on the average inflation index during the calendar year. This inflation calculator will compute inflation rates between 1913 and 2004. Data for 2005 will not be available until early 2006.

The CPI represents changes in prices of all goods and services purchased for consumption by urban households. User fees (such as water and sewer service) and sales and excise taxes paid by the consumer are also included. Income taxes and investment items (like stocks, bonds, and life insurance) are not included.

Note. These models are provided as educational examples of technology developed and used by cost engineers. Use at your own risk. These tools are written in JavaScript and require a browser with JavaScript capability. If you have trouble viewing or using these tools, please consult the frequently asked questions.

Source:

Table Containing History of CPI-U U.S. All Items Indexes and Annual Percent Changes From 1913 to Present.

Bureau of Labor Statistics (BLS), Consumer Price Index, All Urban Consumers - (CPI-U).

See also:

- Consumer Price Index

- Employment Cost Index
- GDP Deflator
- Import Price Index
- NASA New Start Index
- Producer Price Index

More Cost Models:

- Advanced Missions Cost Model
- Aircraft Turbine Engine Cost Model
- Airframe Cost Model
- COCOMO Software Cost Model
- Cost Estimating Guidelines
- Cost Spreading Calculator
- DSN Cost Estimating Cost Model
- Expendable Launch Vehicles - International
- Expendable Launch Vehicles - US
- Inflation Calculators
- Learning Curve Calculator
- Mission Operations Cost Model
- NASA/Air Force Cost Model (NAFCOM)
- Space Operations Cost Model (SOCM)
- Spacecraft/Vehicle Level Cost Model

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NASA Official: Kelley Cyr

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NASA New Start Index Inflation Calculator

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NASA New Start Inflation Index

Cost:	80000000	
From:	1973	fiscal year
To:	2005 est.	fiscal year
Inflation Index:	4.762	
% Change:	376.2	
Inflated Cost:	380959999.9	

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MyNASA

This is an inflation calculator for adjusting costs from one year to another using the NASA New Start Inflation Index. This inflation calculator is based on the inflation rate during the US Government Fiscal Year, which begins on October 1 and ends on September 30. This calculator computes inflation from 1959 to 2020.

Code BC maintains this index. In the past, it has been derived using a weighted average of commercially available inflation indices that represent the "market basket" of goods and services that NASA purchases. As such, it is meant to reflect price changes for the composite group of contractors, vendors and suppliers with whom NASA deals.

As a result of recent discussions with OMB, we have decided to modify the way the out-years portion of the index is developed. Instead of commercially available projections of future inflation, we will begin using OMB projections of future inflation. We are not changing the way we calculate the past-years portion of the index. It will continue to be based on actual inflation data we obtain from commercial sources. But this approach will make the out-years portion of the index consistent with OMB inflation projections. In recent years the OMB projections and the commercial projections have been relatively close. Code BC will monitor this and if a significant spread develops, we will re-consider this approach. I intend to issue the next update to the index about mid CY 2004.

Two other points of guidance relative to inflation: (1) For situations where a project has existing contracts, the use of those contractors' DCAS forward pricing rates should probably be preferred over the general index being discussed here. (2) We recommend that for long-term trade studies (more than 5 years out) that are comparing options and are not being used directly for a budgetary input, there is no need to inflate to future year prices. Staying in constant dollars generally makes the comparisons more understandable in terms of today's yardstick of prices.

Note. These models are provided as educational examples of technology developed and used by cost engineers. Use at your own risk. These tools are written in JavaScript and require a browser with JavaScript capability. If you have trouble viewing or using these tools, please consult the frequently asked questions.

Source: NASA New Start Inflation Index.

See also:

- Consumer Price Index
- Employment Cost Index
- GDP Deflator
- Import Price Index
- NASA New Start Index
- Producer Price Index

More Cost Models:

- Advanced Missions Cost Model
- Aircraft Turbine Engine Cost Model
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Updated: 21-Jan-2005

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	WAREHOUSE					NON	HOUSE					
	HEATED	UNHEATED	CONTROL HUMIDITY	FLAMMABL	CHILL FREEZE	SHED	IGLOO	MAGAZINE	CONTROL HUMIDITY	OTHER	OPEN IMPROVED	OPEN UNIMPROV	COVERED TONS	OPEN TONS
AAG 1														
AAG 2														
AAG 3		8600												
AAG 11		795											795	
AHB 1														
AHB 2														
AHB 3		100												
AHB 11		1										33	1	33
BDC 1														
BDC 2														
BDC 3		200						650						
BDC 11								20					20	
B14 1														
B14 2														
B14 3		112650					295522	313200		400	3000	20000		
B14 11		5049					42607	43731		89	609	277	91475	886
B5A 1														
B5A 2														
B5A 3		148400					730131	562150		20	25	60000		
B5A 11		4734					79277	56229		1		14	140241	14
B64 1														
B64 2														
B64 3		50						10025						
B64 11								1520					1521	
FGZ 1														
FGZ 2														
FGZ 3														
FGZ 11														
FG5 1														
FG5 2														
FG5 3		109600					32794	65075						
FG5 11		8348					4418	5536					18352	
MHQ 1														
MHQ 2														
MHQ 3		13400					29210	3800		140				
MHQ 11		1774					4013	647		21			6455	

AMMUNITION FEEDER

	----------WAREHOUSE----------					/ /----------NON							
	HEATED	UNHEATED	CONTROL HUMIDITY	FLAMMABL	CHILL FREEZE	SHED	IGLOO	MAGAZINE	CONTROL HUMIDITY	OTHER	OPEN IMPROVED	OPEN UNIMPROV	COVERED TONS	OPEN TONS
NCB 1														
NCB 2														
NCB 3		311450					165108	116175				700000		
NCB 11		13942					17815	9898				2665	41655	2665
N24 1														
N24 2														
N24 3							20							
N24 11														
P87 1														
P87 2														
P87 3							510							
P87 11							18						18	
S9I 1														
S9I 2														
S9I 3														
S9I 11														
1S1 1														
1S1 2														
1S1 3												40000		
1S1 11												446		446
1S5 1														
1S5 2														
1S5 3												20000		
1S5 11												34		34
11A 1														
11A 2														
11A 3							940	150						
11A 11							82	7					89	
11D 1														
11D 2														
11D 3		21950					4150	900				40000		
11D 11		672					436	46					1154	
11E 1														
11E 2														
11E 3							200							
11E 11							6						8	

AMMUNITION FEEDE

	WAREHOUSE						NON	HOUSE					
	HEATED	UNHEATED	CONTROL HUMIDITY	FLAMMABL	CHILL FREEZE	SHED	IGLOO	MAGAZINE	CONTROL HUMIDITY	OTHER	OPEN IMPROVED	OPEN UNIMPROV	COVERED TONS	OPEN TONS
11F 1														
11F 2														
11F 3							40							
11F 11							2	27					29	
11G 1														
11G 2														
11G 3		3050					20	1450						
11G 11		95						39					134	
11H 1														
11H 2														
11H 3							9960							
11H 11							162						162	
11J 1														
11J 2														
11J 3		27500					420	175						
11J 11		202					10	12					224	
11K 1														
11K 2														
11K 3		50					1470							
11K 11							9	1					10	
11L 1														
11L 2														
11L 3		200					6580							
11L 11		3					24	7					33	
11M 1														
11M 2														
11M 3														
11M 11														
11P 1														
11P 2														
11P 3								875						
11P 11								264					264	
11Q 1														
11Q 2														
11Q 3							890							
11Q 11							8						8	

AMMUNITION FEEDE

	WAREHOUSE						NON	HOUSE					
	HEATED	UNHEATED	CONTROL HUMIDITY	FLAMMABL	CHILL FREEZE	SHED	IGLOO	MAGAZINE	CONTROL HUMIDITY	OTHER	OPEN IMPROVED	OPEN UNIMPROV	COVERED TONS	OPEN TONS
11R 1														
11R 2														
11R 3								18050						
11R 11								1316					1316	
11S 1														
11S 2														
11S 3		100												
11S 11		12											12	
11T 1														
11T 2														
11T 3							480							
11T 11							16	9					25	
11U 1														
11U 2														
11U 3							760	4375						
11U 11							23	338					361	
11V 1														
11V 2														
11V 3							160	675						
11V 11								34					34	
11W 1														
11W 2														
11W 3							510	4000						
11W 11							18	5					23	
11Y 1														
11Y 2														
11Y 3		3250												
11Y 11		207					3						210	
11Z 1														
11Z 2														
11Z 3							5890	3600						
11Z 11							386	122					508	
110 1														
110 2														
110 3							80							
110 11							1						1	

AMMUNITION TEEDE

	WAREHOUSE					NON HOUSE							
	HEATED	UNHEATED	CONTROL HUMIDITY	FLAMMABL	CHILL FREEZE	SHED	IGLOO	MAGAZINE	CONTROL HUMIDITY	OTHER	OPEN IMPROVED	OPEN UNIMPROV	COVERED TONS	OPEN TONS
111 1														
111 2														
111 3							120							
111 11							3						3	
112 1														
112 2														
112 3		8000					40	775						
112 11							43	246					289	
113 1														
113 2														
113 3							50	75						
113 11							1	4					5	
114 1														
114 2														
114 3							2580	825		80				
114 11							326	15		7			347	
115 1														
115 2														
115 3		400					3910	1250						
115 11		10					2027	187					2224	
116 1														
116 2														
116 3		7500						3250						
116 11		296						677					973	

AMMUNITION FEEDI

	----------WAREHOUSE----------					/ /----------NON		HOUSE----------/					
	HEATED	UNHEATED	CONTROL HUMIDITY	FLAMMABL	CHILL FREEZE	SHED	IGLOO	MAGAZINE	CONTROL HUMIDITY	OTHER	OPEN IMPROVED	OPEN UNIMPROV	COVERED TONS	OPEN TONS
DEPOT TOTALS														
4														
5		10000					4500							
6							122000							
7														
8														
9		406000					639098	478800		400	1750			
10		776450					1292545	1111700		640	3025	880000	308979	4079

REMARKS

UNOCCUPIED Y-SITE SPACE = 153800 SQ FT

1--GROSS ASSIGNED/ALLOCATED
2--NET (SERVICE ALLOCATION)
3--OCCUPIED
4--TOTAL GROSS STORAGE SPACE
5--SPACE OUTLEASED/PERMITTED
6--STANDBY SPACE (GROSS)
7--SUPPORT STORAGE FUNCTIONS
8--STRUCTURAL LOSS-EXCL STB
9--AISLE LOSS-EXCL STB
10--TOTAL OCCUPIED
11--TONNAGE BY OWNER

Savings for Chemical Depots after Implementation

The net annual recurring savings may be overstated for the three chemical depots recommended for closure—Newport, Umatilla, and Deseret—and it is unclear whether such facilities are appropriately included in the BRAC process.[9] The industrial group estimated net annual recurring savings of $127 million for the three chemical demilitarization facilities, $20 million of which is from anticipated savings by not recapitalizing these closed BRAC installations. However, the current missions of each of these installations are focused on the destruction of existing chemical weapons stockpiles, and after the stockpiles are destroyed, the destruction facilities themselves are scheduled to be dismantled and disposed of in accordance with applicable laws and agreements with the governors of the states in which they are located. With the exception of the recommended transfer of storage igloos and magazines from Deseret to Tooele Army Depot, Utah, Army officials have not identified any existing plans for future missions at these depots once the chemical destruction mission is complete. Consequently, it is unclear how the closure of the depots will result in recapitalization savings. Additionally, given the general delays in the Army's chemical weapons destruction program[10] it is uncertain that it will be able to complete the chemical weapons destruction mission and close these depots within the 6-year BRAC statutory implementation period.

Hawthorne Army Depot

There is uncertainty surrounding the Army's ability to close the Hawthorne Army Depot, Nevada, by 2011, the final year as prescribed by the BRAC legislation for implementing BRAC actions. The Army may be unable to demilitarize all the unserviceable munitions stored at the depot by 2011, thereby placing the Army at risk for closing the depot by that date. Army officials told us that demilitarization funds have not been fully used for demilitarization purposes in recent years, but for other purposes. As a

[9]Pueblo Chemical Depot was removed from the BRAC closure list two weeks before the recommendations were released. During the BRAC process, we expressed our concerns that Pueblo would not be able to successfully demilitarize its stockpiles within the statutory BRAC timeframe because a plant has yet to be built.

[10]GAO, *Chemical Weapons: Destruction Schedule Delays and Cost Growth Continue to Challenge Program Management*, GAO-04-634T (Washington, D.C.: Apr. 1, 2004), GAO, *Nonproliferation: Delays in Implementing the Chemical Weapons Convention Raise Concerns About Proliferation*, GAO-04-361 (Washington, D.C.: Mar. 31, 2004), and GAO, *Chemical Weapons: Sustained Leadership, Along with Key Strategic Management Tools, Is Needed to Guide DOD's Destruction Program*, GAO-03-1031 (Washington, D.C.: Sept. 5, 2003).

result, the stockpile of unserviceable munitions is growing. The funding situation is of such concern that an Army official told us they intend to request the DOD Comptroller issue a memorandum that would administratively "fence" funding in the demilitarization account to better ensure that the funds will be used for reducing the stockpiles of unserviceable munitions. This official also told us that this funding situation could be further exacerbated with the potential for the return to the United States of additional unserviceable munition stockpiles that are currently stored in Korea, even though the group considered these stocks in its analysis. This official stated that if these unserviceable munitions are returned for demilitarization to Hawthorne, there will be added pressure to finish the demilitarization process in time to close the facility by 2011.

Closure of Ammunition Plants

Currently, the Army leases some property at its ammunition plants through the Army's program called the Armament Retooling and Manufacturing Support Initiative. DOD has recommended for closure four ammunition plants that are part of this initiative—Mississippi, Kansas, Lone Star, and Riverbank. We previously reported that, while this initiative has offset some of the Army's maintenance costs, maintaining ammunition plants in an inactive status still represents a significant cost to the federal government.[11] Through this initiative, the Army contracts with an operating contractor that conducts maintenance, repair, restoration, and remediation in return for use of the inactive part of the facility. The operating contractor, in turn, locates and negotiates with tenants regarding lease rates, facility improvements, and contract terms. However, the effect on these tenants of closing the four ammunition plants involved with the initiative is currently unknown. Army officials responsible for the initiative told us that past transfers of such property outside of the BRAC process have been handled poorly in that the General Services Administration or Army Corps of Engineers, the agencies responsible for transferring excess property, evicted the tenants and then sold the property separately, as was the case in past closures such as the Indiana Army Ammunition Plant. Army officials said that property transfers conducted in this manner could be costly because the government must incur some costs that were paid by the tenants, such as for security and maintenance. For example, an Army analysis showed that retaining the ARMS tenants on Indiana Army Ammunition plant rather than evicting them would have saved about

[11]GAO, *Military Bases: Cost to Maintain Inactive Ammunition Plants and Closed Bases Could be Reduced*, GAO/NSIAD-97-56 (Washington, D.C.: Feb. 20, 1997).

HWAD Comment: HWAD is considered the center of expertise in demilitarization of conventional ammunition and has $340 million in today's dollars invested in state-of-the-art demil equipment that no other organic base has. To attempt to move and rebuild these types of capacities at another facility would not appear to be in the best interest of the Army.

Discussion:

BRAC Cobra data states that $35,862K will be required to duplicate some of the facilities located at the Western Area Demilitarization Facility (WADF) at the Tooele Army Depot. Other facilities will apparently be abandoned in place. This strategy by the Army defeats a long-term goal of DOD for centralizing demilitarization operations at one location to reduce the cost of redundant systems at various installations scattered throughout the United States. The centralization of WADF at HWAD also simplifies and reduces shipping costs for ammunition assets scheduled for demil. The systems at WADF are operational and permitted, or in the permitting process. Additionally, the workforce is trained and experienced to operate and maintain these complex processes. Even though the Army plans a large scale demilitarization of demil stocks prior to movement, the movement and eventual operations of these systems will require years of effort and cost. In some cases, the utilization of the equipment may never be realized at the new location due to environmental restrictions at the receiving installation, particularly in air emissions. During the elapse of time between installing and permitting these systems, the systems may become antiquated for the newer munitions entering the demil inventory; stocks will simply grow to an unmanageable tonnage for the storage space remaining after this round of BRAC.

Bottom Line: Reevaluation of the closure of HWAD is warranted based on the loss of WADF facilities and capabilities alone. The $35+M dollars, planned for relocating some of the WADF equipment and building new facilities to house it, would provide a better value for the taxpayer if it were spent on developing new demilitarization technology and upgrading WADF for the next generation of munitions, which will become obsolete in a few years. Relocating demil functions results in a loss of a $340M investment of taxpayers money and the elimination of 25,000 tons a year demil capacity from the organic base.

A portion of the Ammunition mission at Tooele Army Depot is to store ammunition and explosives until it is required for use by the soldier. Quality Assurance Specialists at TEAD periodically inspect all ammunition to assure it is safe for continued storage, and useable for the military. Unfortunately, some powders or other components deteriorate even while stored under the nearly ideal conditions in Utah. Deteriorated items then must be destroyed locally at TEAD, usually by open detonation.

The Army has invested several hundred thousands of dollars on equipment and testing to lessen the detonation impact on surrounding communities. This includes seismic testing at TEAD completed by the University of Utah in 1996. All testing has shown that other than a minor atmospheric overpressure wave, there is no impact. That, however, has not lessened the responsibility of the Depot to being a good neighbor. Voluntarily in 1996, TEAD decided to reduce the size of the detonations by 50%. This is now a part of the detonation permit issued by the State of Utah, which allows the Depot to operate on its demilitarization range located in the Southwest corner of the Depot.

During the mid-1990s, it was discovered that rarely, a wind shear occurs under ideal detonation weather periods. This was the case on October 26 and 27, 1999. It does not appear under any of the normal weather testing that is done before detonations are scheduled and so is currently is not a part of the criteria that has to be met. Ammunition Operations at TEAD is working with the National Weather Service in Salt Lake City and the meteorological station at Deseret Chemical Depot to develop a method of detecting these wind shear so their presence becomes a critical element in detonation decision making. The Depot committed to the surrounding communities in 1995 to reduce detonations 60% within 5 years. By 1999 the detonations had been reduced by nearly 75% over 1995 levels. More Resource, Recovery and Recycling (R3) technology, and partnering with industry to mitigate impacts and the maximum use of shipments to other installations for destruction have all played a part in the efforts to be a better neighbor of the community.

The Deactivation Furnace (Ammunition Peculiar Equipment 1236) upgrade, which began in 1997, consists of improving the Air Pollution Abatement System by removing the afterburner, the high and low temperature gas cooling blocks and the baghouse and replacing them with extended stainless steel ductwork and a ceramic baghouse. Other changes include upgrading and increasing the incineration feed list and installing new computer software. These modifications greatly enhance throughout capacity of the furnace and make it one of the premier incinerators in the United States. The Deactivation Furnace is a key element to both our organic and commercial partnership efforts. TEAD has signed a contract with Parson Brinckerhoff/Nordic Ammunition Company (PB/NAMMO) to incinerate fuzes and primers in support of the 5-year Industrial Operations Command contract. This program will be worth up to $3,000,000 annually and is a key alternative to open burning/open detonation of these items. Because of the new efficiencies of the furnace, hundreds of open detonations that would have been scheduled for the fuzes and primers will now be processed through the Deactivation Furnace. In doing so, the potential air emissions from open burning/open detonation of the fuzes and primers will be significantly mitigated in the Air Pollution Abatement System of the Deactivation Furnace.

During the months of April and May 2001, TEAD hosted an Army Reserve training exercise called Golden Cargo. This is the third Golden Cargo training exercise conducted at TEAD. Previous exercises were held in 1998 and 1999. The exercise served a number of purposes. It provided reserve personnel an exceptional real life training opportunity in the handling and transportation of ammunition. It served a Base Realignment and Closure (BRAC) action by transferring obsolete ammunition from TEAD and replacing it with go to war stock. It integrated Reserve, National Guard, Active Army and Civilian personnel into a Total Army Team. Finally it provided valuable information on TEAD requirements to move large amounts of ammunition over a short period of time which is critical during mobilization. TEAD provided billeting, meal facilities and overall mission coordination. The Golden Cargo mission consists of three phases: 1. Load and transport ammunition from TEAD to a port in the state of Washington for shipment overseas to the warfighters; 2. Load and transport obsolete/non-mobilization ammunition from TEAD to Hawthorne Army Depot, Hawthorne, Nevada; 3. Load and transport mobilization ammunition from Hawthorne Army Depot to TEAD. Approximately 16,000 tons of ammunition was moved over the course of the exercise. Approximately, 1,750 reserve personnel from around the country will be participating. This was a conventional ammunition exercise only. It did not involve any chemical ammunition from Deseret Chemical Depot.

BRANCH: Army

Rebecca Benscoter (PKI)

om: Debbie Sitton
ent: Tuesday, June 28, 2005 1:10 PM
To: Rebecca Benscoter (PKI); Herman Millsap (PKI)
Subject: Tons renovated and demiled, plus tons received and shipped

Okay, let's try this again. This is the most current version.
I put today's date after the title so we do not get them confused.

Thanks
Debbie

Historical Data.xls (46 KB)

Historical Data Renovation/Demil at HWAD

Year	Renovation (Tons)	Demil (Tons)	Shipping	Receiving
FY90				
FY91			37263	55408
FY92			98093	112913
FY93			53900	139600
FY94			34189	70936
FY95	5647	19145	31113	51662
FY96	311	20768	40387	45394
FY97	2087	11925	45792	38169
FY98	4056	13186	51243	30045
FY99	5745	9680	51600	27386
5th Qtr 99	1847	9789	52730	13267
CY00	4105	2490		
CY01	1500	4577	22051	6319
CY02	6210	4278	32373	9752
CY03	2548	8065	17445	3452
CY04	3510	6535	15050	41406
CY05	3193	5525	16342	21459
	1413	2458		
TOTALS	**42172**	**118421**	**599571**	**667168**

Items Processed At HWAD

	FY95			FY96			FY97		
	Reno	QTY	Tons	Reno	QTY	Tons	Reno	QTY	Tons
361	60MM	27178	95	81MM Ill	19529	172	Harm Missiles	214	7
479	M76 Grenades	67171	187	Fins	2768	171	Signals Ill	11200	1
40	81MM Test	198	2	M58 Demo Chg	268	402	81MM Fuze	19737	81
15	40MM	15799	10	X-Ray 105MM	22147	664	Inspect MICLICs	804	2423
85	Fin Assy	582	17	60MM Mortars	114360	553	Xray 105MM	24399	732
463				155MM Cop.Hd.	98	10	30MM Ctg.	786	41
90				Repack M58 Fz	70144	115	Fins Assy	6657	265
347							MFG Chgs	100	1
758							Reno 155MM	5328	266
9							Load HARMS	110	15
							C4 Reclamation	137	175
							Remark CNU Cor	994	49
647		110928	311		229314	2087		70466	4056
	Demil	Tons		Demil	Tons		Demil	Tons	
	175MM Proj,	4613		105MM HE	8186		8" Proj	3793	
	Download Propellant	91		CBU	152		105MM Ctg	2551	
	Emer. Demil	463		Emer. Demil	82		UD Prog 1	1986	
	105MM APT/HEP	4678		MK10 Rkt Mtr			UD Prog 2	2607	
	RDA Stocks	83		UD Program	2299		90MM Ctg	1521	
	UD Program	721		MK19 Demil	1206		Bomb Fins	400	
	MK10 Rkt Mtrs	333					MK19 Bullpups	111	
	MK9 Depth Charges	1537					Emerg. Demil	179	
	105MM HE	5839					Harms	38	
	demil CBUs	2306							
	Demil Fins	104							
		20768			11925			13186	

Items Processed At HWAD

	FY99			5th Qtr 00			CY00			CY01		
	Reno	QTY	Tons	Reno	QTY	Tons	Reno	QTY	Tons	Reno	QTY	Tons
560	155Mm Proj D579	13130	663	MICLICs M913	493	739	MICLICs	1000	1500	MICLICs M913	2677	4016
79	MICLICs ML25	306	459	MICLICs ML25	311	381				155MM D544	20000	1092
686	MICLICs M913	254	560	155MM D579	54652	2985				155MM D579	4032	220
85	120MM Ctg	4381	165							105MM C518	26727	882
435												
745		18071	1847		55456	4105		1000	1500		53436	6210
	Demil	Tons		Demil	Tons		Demil	Tons		Demil	Tons	
	OB	803		OD	695		3/50 Ctg	978		81MM C256	1000	
	UD Program	2710		5/38 Proj	587		Prop Chgs	156		MK115 Bombs	569	
	Emerg. Demil	7		105MM CTG	352		Inert	1214		MK25 Mines	1228	
	M687 Proj.	5970		OB Propellant	551		7.2Depth Chg	835		3/50 Ctgs	9	
	105MM Tungsten	23		RDA Demil	113		Unstable Prop	630		Inert	886	
	5/38 Proj.	276		7.2Depth Chg	192		5/38 Projectiles	649		Unstable Prop	586	
							M60/M61 Rkts	115				
		9789			2490			4577			4278	

Items Processed At HWAD (June 28, 2005)

CY03			CY04			CY05		
Reno	QTY	Tons	Reno	QTY	Tons	Reno	QTY	Tons
155MM D544	6428	351	105MM C445	52973	2330	105MM C445	47128	1413
155MM D544	2815	153	TNT Segregation	27002	810			
TNT Segregation	70969	2129	Imbiber Beads	1638	36			
M2A1 Cans	6744	19	Lau10 Launchers	80	10			
M548 Cans	10767	116	FMU139 Fuzes	969	7			
105MM C445	24720	742						
	122443	3510		82662	3193		47128	1413
Demil	Tons		Demil	Tons		Demil	Tons	
8" ICM	2046		8" ICM	1688		8" ICMs	1500	
MK25 Mines	1226		MK14 Torpedos	8		155MM ICMs	630	
81MM C256	764		Initiators	1		MK25 Mines	63	
Inert	316		155MM ICMs	1638		Emergency Demil	14	
Torpedo	1		MK25 Mines	1409		Unstable Prop	147	
Unstable Prop	1808		Smoke Pots	8		Range Scrap	104	
Range Scrap	101		Titans	8				
Emergency Demil	273		Emergency Demil	762				
			Unstable Prop	3				
	6535			5525			2458	

HWAD Challenge: Incorrect employment information concerning HWAD. Apparent bias data which showed only -0.01% impacts to employment to Mineral County, when in reality the employment impact will be approximately 48%. Other bases in Nevada were not compared with their nearest metropolitan area which Hawthorne was when depicting their employment impact.

- **BRAC Question 827:** Metropolitan Statistical Area of Installation
- **BRAC Question 1412:** Nearest City
- **BRAC Question 2848**: Area Employment Number

Discussion:

Question 827 was answered N/A as HWAD did not fall within a metropolitan area. However, BRAC Analyses and Recommendations show HWAD under Reno-Sparks Metropolitan Statistical Area on page B-33.

Question 1412 simply asked what the name and distance to the nearest city of 100,000 in population. No where in this question is it addressed that this population center would be used to calculate unemployment figures for the proposed closure of Hawthorne Army Depot.

Question 2848 asked for area employment numbers and our response was 1,200 for Mineral County. If the BRAC Committee was interested in employment numbers for Mineral County, why then were unemployment figures based on Reno, Nevada in Washoe County which is 133 miles away and has no relation to the unemployment in Mineral County?

Based on an analysis of reduction in employment for Mineral County, dated September 1996, performed by the University of Nevada-Reno for a reduction of 210 employees from Hawthorne Army Depot, the following conservative data can be extrapolated based upon the proposed closure of HWAD.

- Mineral County Economic Activity is expected to decline by $35.8 million per year.
- Employee compensation income will decline by $17.6 million per year.
- Total place of work income will decline by $21.0 million per year.
- Using the above data it can be projected using an average of 3 individuals per family, a total population for Mineral County is expected to decline by 1,536 out of the current population of 3,800.

Bottom Line – closure of HWAD under the Army scenario of total closure, and no reutilization by DOD or commercial sources for the original intent of HWAD, it can be assumed Mineral County will fall into receivership (bankruptcy) to the State of Nevada within 6 to 8 years. The calculations of 1,536 people are based upon the total closure of HWAD in which the local economy would not be able to absorb displaced workers. Based on final selection criteria economic impact on existing communities was to be considered and this was not the case for Mineral County.

Economic Area Installation	Action	Out Mil	Out Civ	In Mil	In Civ	Net Gain/(Loss) Mil	Net Gain/(Loss) Civ	Net Mission Contractor	Total Direct	Indirect Changes	Total Job Changes	Economic Area Employment	Changes as Percent of Employment
Providence-New Bedford-Fall River, RI-MA Metropolitan Statistical Area													
Harwood U.S. Army Reserve Center, Providence	Close	(20)	(4)	0	0	(20)	(4)	0	(24)	(30)	(54)	864,734	0.0%
USARC Bristol	Close	(24)	0	0	0	(24)	0	0	(24)	(28)	(52)	864,734	0.0%
Naval Station Newport	Gain	(122)	(225)	647	309	525	84	(76)	533	654	1,187	864,734	0.1%
Quonset State Airport Air Guard Station	Gain	0	0	17	29	17	29	0	46	67	113	864,734	0.0%
	Total	(166)	(229)	664	338	498	109	(76)	531	663	1,194	864,734	0.1%
Rapid City, SD Metropolitan Statistical Area													
Ellsworth Air Force Base	Close	(3,315)	(438)	0	0	(3,315)	(438)	(99)	(3,852)	(2,915)	(6,767)	79,970	-8.5%
	Total	(3,315)	(438)	0	0	(3,315)	(438)	(99)	(3,852)	(2,915)	(6,767)	79,970	-8.5%
Reading, PA Metropolitan Statistical Area													
Navy-Marine Corps Reserve Center Reading	Close	(18)	0	0	0	(18)	0	0	(18)	(6)	(24)	213,550	0.0%
	Total	(18)	0	0	0	(18)	0	0	(18)	(6)	(24)	213,550	0.0%
Reno-Sparks, NV Metropolitan Statistical Area													
Hawthorne Army Depot	Close	(74)	(45)	0	0	(74)	(45)	(80)	(199)	(126)	(325)	243,270	-0.1%
Reno-Tahoe International Airport Air Guard Station	Realign	(23)	(124)	0	0	(23)	(124)	0	(147)	(115)	(262)	243,270	-0.1%
	Total	(97)	(169)	0	0	(97)	(169)	(80)	(346)	(241)	(587)	243,270	-0.2%
Richmond, VA Metropolitan Statistical Area													
Leased Space - VA	Close/Realign	0	(215)	0	0	0	(215)	0	(215)	(166)	(381)	715,302	-0.1%
Defense Supply Center Richmond	Gain	0	(77)	0	83	0	6	0	6	4	10	715,302	0.0%
Fort Lee	Gain	(392)	(2)	6,531	1,151	6,139	1,149	56	7,344	4,425	11,769	715,302	1.6%
Richmond International Airport Air Guard Station	Realign	(25)	(101)	0	0	(25)	(101)	0	(126)	(92)	(218)	715,302	0.0%
	Total	(417)	(395)	6,531	1,234	6,114	839	56	7,009	4,171	11,180	715,302	1.6%

This list does not include locations where no changes in military or civilian jobs are affected.
Military figures include student load changes.

	Base	Economic Region
	Moffett Field	San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area
	Naval Air Station Lemore	Hanford-Corcoran, CA Metropolitan Statistical Area
	Naval Air Weapons Station China Lake	Bakersfield, CA Metropolitan Statistical Area
	Naval Base Coronado	San Diego-Carlsbad-San Marcos, CA Metropolitan Statistical Area
	Naval Base Point Loma	San Diego-Carlsbad-San Marcos, CA Metropolitan Statistical Area
	Naval Base Ventura City	Oxnard-Thousand Oaks-Ventura, CA Metropolitan Statistical Area
	Naval Medical Center San Diego	San Diego-Carlsbad-San Marcos, CA Metropolitan Statistical Area
	Naval Station San Diego	San Diego-Carlsbad-San Marcos, CA Metropolitan Statistical Area
	Naval Support Activity Corona	Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area
	Naval Weapons Station Concord	Oakland-Fremont-Hayward, CA Metropolitan Division
	Naval Weapons Station Fallbrook	San Diego-Carlsbad-San Marcos, CA Metropolitan Statistical Area
	Naval Weapons Station Seal Beach	Santa Ana-Anaheim-Irvine, CA Metropolitan Division
	Navy-Marine Corps Reseve Center, Encino	Los Angeles-Long Beach-Glendale, CA Metropolitan Division
	Navy-Marine Corps Reseve Center, Los Angeles	Los Angeles-Long Beach-Glendale, CA Metropolitan Division
	Onizuka Air Force Station	San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area
	Richey U.S. Army Reserve Center, San Jose	San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area
	Riverbank Army Ammunition Plant	Modesto, CA Metropolitan Statistical Area
	Schroeder Hall U.S. Army Reserve Center, Long Beach	Los Angeles-Long Beach-Glendale, CA Metropolitan Division
	Sierra Army Depot	Susanville, CA Micropolitan Statistical Area
	U.S. Army Reserve Center Moffett Field	San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area
	Vandenberg Air Force Base	Santa Barbara-Santa Maria-Goleta, CA Metropolitan Statistical Area
	Vandenburg Air Force Base	Santa Barbara-Santa Maria-Goleta, CA Metropolitan Statistical Area
Colorado	Air Reserve Personnel Center	Denver-Aurora, CO Metropolitan Statistical Area
	Buckley Air Force Base	Denver-Aurora, CO Metropolitan Statistical Area
	Fort Carson	Colorado Springs, CO Metropolitan Statistical Area
	Leased Space - CO	Colorado Springs, CO Metropolitan Statistical Area
	Peterson Air Force Base	Colorado Springs, CO Metropolitan Statistical Area
	Schriever Air Force Base	Colorado Springs, CO Metropolitan Statistical Area
	United States Air Force Academy	Colorado Springs, CO Metropolitan Statistical Area
Connecticut	Army National Guard Reserve Center Manchester	Hartford-West Hartford-East Hartford, CT Metropolitan Statistical Area
	Army National Guard Reserve Center Naugatuck	New Haven-Milford, CT Metropolitan Statistical Area
	Army National Guard Reserve Center New Britain	Hartford-West Hartford-East Hartford, CT Metropolitan Statistical Area
	Army National Guard Reserve Center Newington	Hartford-West Hartford-East Hartford, CT Metropolitan Statistical Area
	Army National Guard Reserve Center Norwalk	Bridgeport-Stamford-Norwalk, CT Metropolitan Statistical Area
	Army National Guard Reserve Center Putnam	Willimantic, CT Micropolitan Statistical Area
	Bradley International Airport Air Guard Station	Hartford-West Hartford-East Hartford, CT Metropolitan Statistical Area
	New Haven	New Haven-Milford, CT Metropolitan Statistical Area
	New Middletown Armed Forces Reserve Center	Hartford-West Hartford-East Hartford, CT Metropolitan Statistical Area
	New Newtown Armed Forces Reserve Center	Bridgeport-Stamford-Norwalk, CT Metropolitan Statistical Area
	SGT George D. Libby U.S. Army Reserve Center, New Haven	New Haven-Milford, CT Metropolitan Statistical Area
	Submarine Base New London	Norwich-New London, CT Metropolitan Statistical Area
	Sutcovoy U.S. Army Reserve Center, Waterbury	New Haven-Milford, CT Metropolitan Statistical Area
	Turner U.S. Army Reserve Center, Fairfield	Bridgeport-Stamford-Norwalk, CT Metropolitan Statistical Area

	Base	Economic Region
	Army National Guard Reserve Center Hastings	Hastings, NE Micropolitan Statistical Area
	Army National Guard Reserve Center Kearny	Kearney, NE Micropolitan Statistical Area
	Army National Guard Reserve Center McCook	Red Willow County, NE
	Greenlief TS Hasting	Hastings, NE Micropolitan Statistical Area
	Kearney Army National Guard	Kearney, NE Micropolitan Statistical Area
	Naval Recruiting District Omaha	Omaha-Council Bluffs, NE-IA Metropolitan Statistical Area
	Navy Reserve Center Lincoln	Lincoln, NE Metropolitan Statistical Area
	Offutt Air Force Base	Omaha-Council Bluffs, NE-IA Metropolitan Statistical Area
	U.S. Army Reserve Center Hastings	Hastings, NE Micropolitan Statistical Area
	U.S. Army Reserve Center McCook	Red Willow County, NE
	U.S. Army Reserve Center Wymore	Beatrice, NE Micropolitan Statistical Area
	U.S. Army Reserve Columbus	Columbus, NE Micropolitan Statistical Area
Nevada	Hawthorne Army Depot	Reno-Sparks, NV Metropolitan Statistical Area
	Naval Air Station Fallon	Fallon, NV Micropolitan Statistical Area
	Nellis Air Force Base	Las Vegas-Paradise, NV Metropolitan Statistical Area
	Reno-Tahoe International Airport Air Guard Station	Reno-Sparks, NV Metropolitan Statistical Area
New Hampshire	Armed Forces Reserve Center Pease Air Force Base	Rockingham County-Strafford County, NH Metropolitan Division
	Army National Guard Reserve Center Dover	Rockingham County-Strafford County, NH Metropolitan Division
	Army National Guard Reserve Center Portsmouth	Rockingham County-Strafford County, NH Metropolitan Division
	Army National Guard Reserve Center Rochester	Rockingham County-Strafford County, NH Metropolitan Division
	Army National Guard Reserve Center Somersworth	Rockingham County-Strafford County, NH Metropolitan Division
	Doble U.S. Army Reserve Center Portsmouth	Rockingham County-Strafford County, NH Metropolitan Division
	Pease International	Rockingham County-Strafford County, NH Metropolitan Division
New Jersey	Armed Forces Reserve Center Camden (New)	Camden, NJ Metropolitan Division
	Army National Guard Reserve Center Burlington	Camden, NJ Metropolitan Division
	Atlantic City International Airport Air Guard Station	Atlantic City, NJ Metropolitan Statistical Area
	Fort Dix	Camden, NJ Metropolitan Division
	Fort Monmouth	Edison, NJ Metropolitan Division
	Kilmer U.S. Army Reserve Center, Edison	Edison, NJ Metropolitan Division
	Marine Corps Reseve Center West Trenton	Trenton-Ewing, NJ Metropolitan Statistical Area
	McGuire Air Force Base	Camden, NJ Metropolitan Division
	Naval Air Engineering Station Lakehurst	Edison, NJ Metropolitan Division
	Naval Aviation Engineering Station Lakehurst	Edison, NJ Metropolitan Division
	Naval Weapons Station Earle	Edison, NJ Metropolitan Division
	Picatinny Arsenal	Newark-Union, NJ-PA Metropolitan Division
	SFC Nelson B. Brittin U.S. Army Reserve Center	Camden, NJ Metropolitan Division
	x Local - Trenton	Trenton-Ewing, NJ Metropolitan Statistical Area
New Mexico	Armed Forces Reserve Center Kirtland Air Force Base	Albuquerque, NM Metropolitan Statistical Area
	Cannon Air Force Base	Clovis, NM Micropolitan Statistical Area
	Holloman Air Force Base	Alamogordo, NM Micropolitan Statistical Area
	Jenkins Armed Forces Reserve Center Albuquerque	Albuquerque, NM Metropolitan Statistical Area
	Kirtland Air Force Base	Albuquerque, NM Metropolitan Statistical Area
	White Sands Missile Range	Las Cruces, NM Metropolitan Statistical Area

ANALYSIS OF REDUCTIONS IN EMPLOYMENT

IN MINERAL COUNTY

Study Conducted By

Thomas R. Harris

Chang Kyu Seung

Manuel N. Lopez

and

William L. Cooper

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September 1996

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OVERVIEW

- According to the Nevada Department of Employment, Training and Rehabilitation, between 1992 and 1993 the ammunitions depot realized a reduction in employment of approximately 210 employees.

- The Mineral County Commissioners requested an estimate of the economic and employment impacts of these employment reductions on the Mineral County economy.

ECONOMIC IMPACTS

- The U.S. Forest Service input-output model, IMPLAN, was used to estimate impacts from these employment reductions.

- With these employment reductions, total Mineral County economic activity was projected to decline by $17.9 million, employee compensation income declined by $8.5 million, and total place of work income declined by $10.5 million.

- Also from the employment reductions, total Mineral County employment was projected to decline by 270 full- and part-time employees which would yield a population decline of 497.

ANALYSIS OF REDUCTIONS IN EMPLOYMENT IN MINERAL COUNTY

EXECUTIVE SUMMARY

This study was commissioned by the Mineral County Commissioners. This study estimates the impacts to the Mineral County economy from a 210 employee reduction by the ammunition depot.

BASELINE

- Population in Mineral County increased from 6,217 in 1980 to 6,510 in 1990 or a 4.71 percent increase over this ten year period. Population growth in Mineral County has continued in the 1990's, increasing to 6,700 in 1995 or a 2.92 percent over the last five years.

- Unemployment rate for Mineral County from 1985 to 1994 ranged from 4.2 percent to 12.1 percent.

- Unemployment peaked at 12.1 percent in January, 1994.

- The Service Sector is the largest employment sector in Mineral County, employing 1,693 employees or 51 percent of total employment in 1993.

- Taxable sales for Mineral County have fluctuated from 1985 through 1995. Nominal taxable sales were highest in 1990 at $45.9 million and in 1994 were $42.0 million.

- Real taxable sales for Mineral County were highest at $41.2 million in 1988 while in 1994 real taxable sales were $33.1 million.

This publication, *Analysis of Reductions in Employment in Mineral County*, was published by the University Center for Economic Development in the Department of Applied Economics and Statistics at the University of Nevada, Reno. This study was requested by the Mineral County Commissioners. Funds for the publication were provided by the United States Department of Commerce Economic Development Administration under University Centers Program contract #07-06-03262-95. This publication's statements, conclusions, recommendations, and/or data represent solely the findings and views of the authors and do not necessarily represent the views of the U.S. Department of Commerce, the Economic Development Administration, the University of Nevada, Reno, Mineral County Commissioners or any reference sources used or quoted by this study. Reference to research projects, programs, books, magazines, or newspaper articles does not imply an endorsement or recommendation by the authors unless otherwise stated. Correspondence regarding this document should be sent to:

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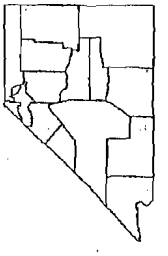
University of Nevada, Reno
Department of Applied Economics and Statistics
Mail Stop 204
Reno, Nevada 89557-0105



UCED
University of Nevada, Reno
Nevada Cooperative Extension
Department of Applied Economics and Statistics

evada QuickFacts

al County, Nevada

eople QuickFacts	Mineral County	Nevada
opulation, 2003 estimate	4,791	2,241,154
opulation, percent change, April 1, 2000 to July 1, 2003	-5.5%	12.2%
opulation, 2000	5,071	1,998,257
opulation, percent change, 1990 to 2000	-21.7%	66.3%
ersons under 5 years old, percent, 2000	5.3%	7.3%
ersons under 18 years old, percent, 2000	24.4%	25.6%
ersons 65 years old and over, percent, 2000	19.8%	11.0%
emale persons, percent, 2000	49.6%	49.1%
hite persons, percent, 2000 (a)	73.9%	75.2%
lack or African American persons, percent, 2000 (a)	4.8%	6.8%
merican Indian and Alaska Native persons, percent, 2000 (a)	15.4%	1.3%
sian persons, percent, 2000 (a)	0.8%	4.5%
ative Hawaiian and Other Pacific Islander, percent, 2000 (a)	0.1%	0.4%
ons reporting some other race, percent, 2000 (a)	2.7%	8.0%
s reporting two or more races, percent, 2000	2.4%	3.8%
hite persons, not of Hispanic/Latino origin, percent, 2000	70.1%	65.2%
ersons of Hispanic or Latino origin, percent, 2000 (b)	8.4%	19.7%
iving in same house in 1995 and 2000', pct age 5+, 2000	56.0%	37.4%
oreign born persons, percent, 2000	2.4%	15.8%
anguage other than English spoken at home, pct age 5+, 2000	7.0%	23.1%
igh school graduates, percent of persons age 25+, 2000	77.1%	80.7%
achelor's degree or higher, pct of persons age 25+, 2000	10.1%	18.2%
ersons with a disability, age 5+, 2000	1,419	375,910
ean travel time to work (minutes), workers age 16+, 2000	16.9	23.3
ousing units, 2002	2,872	901,597
omeownership rate, 2000	72.5%	60.9%
ousing units in multi-unit structures, percent, 2000	10.7%	32.2%
edian value of owner-occupied housing units, 2000	$59,500	$142,000
ouseholds, 2000	2,197	751,165
ersons per household, 2000	2.26	2.62
an household income, 1999	$32,891	$44,581
ita money income, 1999	$16,952	$21,989

ersons below poverty, percent, 1999	15.2%	10.5%

usiness QuickFacts	Mineral County	Nevada
rivate nonfarm establishments with paid employees, 2001	92	48,863
rivate nonfarm employment, 2001	1,200	916,981
rivate nonfarm employment, percent change 2000-2001	-3.5%	1.6%
onemployer establishments, 2000	266	113,744
anufacturers shipments, 1997 ($1000)	NA	6,361,782
etail sales, 1997 ($1000)	32,128	18,220,790
etail sales per capita, 1997	$5,672	$10,874
inority-owned firms, percent of total, 1997	F	11.7%
omen-owned firms, percent of total, 1997	47.4%	25.7%
ousing units authorized by building permits, 2002	7	35,615
ederal funds and grants, 2002 ($1000)	79,984	10,736,904

eography QuickFacts	Mineral County	Nevada
and area, 2000 (square miles)	3,756	109,826
ersons per square mile, 2000	1.3	18.2
politan Area	None	
Code	021	32

ludes persons reporting only one race.
panics may be of any race, so also are included in applicable race categories.

otnote on this item for this area in place of data
ot available
pressed to avoid disclosure of confidential information
applicable
pressed; does not meet publication standards
ue greater than zero but less than half unit of measure shown
er than 100 firms

U.S. Census Bureau: State and County QuickFacts. Data derived from Population Estimates, 2000 Census of Population and Housing, 1990 Census of Population
using, Small Area Income and Poverty Estimates, County Business Patterns, 1997 Economic Census, Minority- and Women-Owned Business, Building Permits,
idated Federal Funds Report, 1997 Census of Governments

evised: Tuesday, 01-Feb-2005 15:49:26 EST

Census Bureau Links: . . . . . .

development conveyances.[37] The potential for significant revenue may exist at certain locations. For example, the Navy sold some unneeded property from prior round actions in California at the former El Toro Marine Corps Air Station for about $650 million and the former Tustin Marine Corps Air Station for $208.5 million. The extent to which sales will play a role in the disposal of unneeded property arising from the 2005 BRAC round remains to be seen.

Impact of BRAC Recommended Actions on Communities

The recommended actions for the 2005 BRAC round will have varying degrees of impact on communities surrounding bases undergoing a closure or realignment. While some will face economic recovery challenges as a result of a closure and associated losses of base personnel, others, which expect large influxes of personnel due to increased base activity, face a different set of challenges involving community infrastructure necessary to accommodate growth.

In examining the economic impact of the 222 BRAC recommendations as measured by the percentage of employment, DOD data indicate that most economic areas across the country are expected to be affected very little but a few could face substantial impact. Almost 83 percent of the 244 economic areas affected by BRAC recommendations fall between a 1 percent loss in employment and a 1 percent gain in employment.[38] Slightly more than 9 percent of the economic areas had a negative economic impact of greater than 1 percent, but for some of these areas, the projected impact is fairly significant, ranging up to a potential direct and indirect loss of up to nearly 21 percent. Almost 8 percent of the economic areas had a positive economic impact greater than 1 percent. Appendix XIV provides additional detail on our economic analyses.

Of those communities facing potential negative economic impact, six communities face the potential for a fairly significant impact. They include communities surrounding Cannon Air Force Base, New Mexico;

[37] Economic development conveyances are used to transfer unneeded property to communities for uses that promote economic recovery and job creation. The National Defense Authorization Act for Fiscal Year 2002 (P.L. 107-107, Title XXX, section 3006 (Dec. 28, 2001)) included a provision stipulating that DOD seek to obtain fair market value for BRAC-related transfers of property in the 2005 round. The effect this provision will have on the generation of revenue for DOD is unknown at this time.

[38] Some of the recommendations had multiple actions that affected more than one economic area.

Hawthorne Army Depot, Nevada; Naval Support Activity Crane, Indiana; Submarine Base New London, Connecticut; Eielson Air Force Base, Alaska; and Ellsworth Air Force Base, South Dakota, where the negative impact on employment as a percent of area employment ranges from 8.5 percent to 20.5 percent. Our prior work has shown that a variety of factors will affect how quickly communities are able to rebound from the negative economic consequences of closures and realignments. They include such factors as the trends associated with the national, regional, and local economies; natural and labor resources; effective planning for reuse of base property; and federal, state, and local government assistance to facilitate transition planning and execution. In a series of reports that have assessed the progress in implementing closures and realignments in prior BRAC rounds, we reported that most communities surrounding closed bases have been faring well in relation to key national economic indicators—unemployment rate and the average annual real per capita income growth rates.[39] In our January 2005 report for example, we further reported that while some communities surrounding closed bases were faring better than others, most have recovered or are continuing to recover from the impact of BRAC, with more mixed results recently, allowing for some negative impact from the economic downturn nationwide in recent years.

The 2005 round, however, also has the potential to significantly affect a number of communities surrounding installations, which are expected to experience considerable growth in the numbers of military, civilian, and civilian support personnel. These personnel increases are likely to place additional demands on community services, such as providing adequate housing and schools, for which the communities may not have adequate resources to address in the short term. The total gains can be much more than just those personnel with the consideration of accompanying families. Table 6 shows that 20 installations are expected to realize gains of over 2,000 military, civilian, and mission support contractor personnel for an aggregate increase of more than 106,000 personnel.

[39] GAO, *Military Base Closures: Updated Status of Prior Base Realignments and Closures*, GAO-05-138 (Washington, D.C.: Jan. 13, 2005); GAO, *Military Base Closures: Progress in Completing Actions from Prior Realignments and Closures*, GAO-02-433 (Washington, D.C.: Apr. 5, 2002); and GAO, *Military Bases: Status of Prior Base Realignment and Closure Rounds*, GAO/NSAID-99-36 (Washington, D.C.: Dec. 11, 1998).

greatest negative employment change and the greatest positive employment change.

Table 45: Five Economic Areas with the Greatest Negative Impact on Employment

Economic area	Changes as percentage of employment	Reason for change
Clovis, NM Micropolitan Statistical Area	-20.5	Closure of Cannon Air Force Base, NM
Martin County, IN	-11.6	Realignment of Naval Support Activity Crane, IN
Norwich-New London, CT Metropolitan Statistical Area	-9.4	Closure of Submarine Base New London, CT
Fairbanks, AK Metropolitan Statistical Area	-8.6	Realignment of Eielson Air Force Base, AK
Rapid City, SD Metropolitan Statistical Area	-8.5	Closure of Ellsworth Air Force Base, SD

Source: DOD.

Note: Subsequent to the issuance of the recommendations, DOD identified an error with the economic impact reported for Hawthorne Army Depot, Nevada. The revised economic impact is -13.6 percent of employment and not -0.1 percent as DOD initially reported.

Table 46: Five Economic Areas with the Greatest Positive Economic Impact on Employment

Economic area	Changes as percentage of employment	Gaining installation
St. Mary's, GA Micropolitan Statistical Area	21.9	Submarine Base Kings Bay, GA
Lawton, OK Metropolitan Statistical Area	9.0	Fort Sill, OK
Columbus, GA-AL Metropolitan Statistical Area	8.5	Fort Benning, GA
Enterprise-Ozark, AL Micropolitan Statistical Area	7.4	Fort Rucker, AL
Manhattan, KS Micropolitan Statistical Area	6.5	Fort Riley, KS

Source: DOD.

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2848: Phase II (11 AUG) => Area employment number

ation: HAWTHORNE ARMY DEPOT

estion Status: Change After Precertify

Question Text: Provide the "private non-farm employment" number (from U.S. Census Bureau website) for the county in which the Supply and Storage Activity is located. If more than 25% of your workforce resides in an adjacent county or counties, combine the private non-farm employment number for those counties (see amplification).

Data Element Definition: Army Amplification: Separate responses to the datacall questions are required from specific Supply & Storage Activities at each installation. To determine which activities on an installation must respond to the Supply & Storage questions, please refer to the OSD BRAC Library under "Army Targeted Supply and Storage Activities," and in ODIN.

Data Element Reference: Go to the U.S. Census Bureau website (www.census.gov). -In the right column select: State & County Quick Facts. -Select your state. -Select your county (or counties). -Scroll to: Business QuickFacts. -Use the most current year "Private non-farm employment" number listed.

Answer Source: U.S. Census Bureau website (www.census.gov)

Reason for Change: To provide a correct response.

Submission: 2

Name of Activity:	Hawthorne Army Depot
Total No. Private Non-farm Employment Personnel in county(ies): Unit Of : # (Number) **Allow Decimal**	1200

655: Personnel => Authorized and Assigned Civilian Personnel

Location: HAWTHORNE ARMY DEPOT

Question Status: Approved

Question Text: What were the Supply and Storage Activity's numbers of authorized and assigned Government-civilian personnel by occupational series and grade as of 30 Sep 03? Also provide the estimated number of Government-civilian personnel to be assigned at surge.

Data Element Definition: Direct question to Supply and Storage Activities, as defined in the OSD BRAC Library. Surge is defined as operations 24 hours per day, 7 days per week using existing facilities and equipment. Authorized personnel are personnel validated and allocated in a manning document that defines positions in terms of functions, organization, location, skill, grades and other characteristics used to control and assign personnel. Government-civilian personnel includes DoD civilians in the pay grades GS-1 thru GS-15, SES I thru SES VI, and Wage Grade, and does not include contractor personnel.

Data Element Reference:

Answer Source: IAW HWAD TDA

Submission: 1

Occupational Series:	Civilian Executive Assistant
Grade:	GS-0301-13
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 2

Occupational Series:	Secretary (Steno/OA)
Grade:	GS-0318-07
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 3

Occupational Series:	Environmental Protection Specialist
Grade:	GS-0028-12
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 4

Occupational Series:	Environmental Protection Specialist
Grade:	GS-0028-11
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1

No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal** 1

Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal** 1

Submission: 5

Occupational Series: Environmental Protection Specialist

Grade: GS-0028-09

No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal** 1

No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal** 1

Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal** 1

Submission: 6

Occupational Series: Traffic Manager

Grade: GS-2130-11

No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal** 1

No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal** 1

Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal** 1

Submission: 7

Occupational Series: Administrative Officer

Grade: GS-0341-11

No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal** 1

No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal** 1

Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal** 1

Submission: 8

Occupational Series: Security Officer

Grade: GS-0080-11

No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal** 1

No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal** 1

Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal** 1

Submission: 9

Occupational Series: Safety & Occupational Health Specialist

Grade: GS-0018-11

No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal** 1

No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal** 1

Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal** 1

Submission: 10

Occupational Series: Supervisory Contract Administrator

Grade:	GS-1102-13
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 11

Occupational Series:	General Engineer
Grade:	GS-0801-12
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 12

Occupational Series:	Industrial Property Management Specialist
Grade:	GS-1103-11
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 13

Occupational Series:	Facility Management Specialist
Grade:	GS-1640-11
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 14

Occupational Series:	Budget Analyst
Grade:	GS-0560-11
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 15

Occupational Series:	Supply Systems Analyst
Grade:	GS-2003-11
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure:	1

Count (Count) **Allow Decimal**

Submission: 16

Occupational Series:	Telecommunications Specialist
Grade:	GS-0391-11
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	0
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 17

Occupational Series:	Telecomunications Equipment Operator
Grade:	GS-0390-07
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 18

Occupational Series:	Administrative Assistant
Grade:	GS-0303-06
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 19

Occupational Series:	Supervisory Quality Assurance Specialist (Ammo Surveillance)
Grade:	GS-1910-13
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	1
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	1
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	1

Submission: 20

Occupational Series:	Quality Assurance Specialist (Ammunition)
Grade:	GS-1910-12
No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal**	2
No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal**	2
Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal**	2

Submission: 21

Occupational Series:	Quality Assurance Specialist (Ammunition)
Grade:	GS-1910-11
No. Pers Authorized: Unit Of Measure:	7

Count (Count) **Allow Decimal**

No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal** 4

Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal** 7

Submission: 22

Occupational Series: Quality Assurance Specialist (Ammunition)

Grade: GS-1910-09

No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal** 1

No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal** 1

Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal** 1

Submission: 23

Occupational Series: Secretary (OA)

Grade: GS-0318-05

No. Pers Authorized: Unit Of Measure: Count (Count) **Allow Decimal** 1

No. Pers Assigned: Unit Of Measure: Count (Count) **Allow Decimal** 1

Estimated No. Pers at Surge: Unit Of Measure: Count (Count) **Allow Decimal** 1

BRAC 2005 - Data Collection Application

Location: HAWTHORNE ARMY DEPOT

Question Status: Approved

Question Text: What were the Supply and Storage Activity's numbers of authorized and assigned Government-civilian personnel by occupational series and grade as of 30 Sep 03? Also provide the estimated number of Government-civilian personnel to be assigned at surge.

Data Element Definition: Direct question to Supply and Storage Activities, as defined in the OSD BRAC Library. Surge is defined as operations 24 hours per day, 7 days per week using existing facilities and equipment. Authorized personnel are personnel validated and allocated in a manning document that defines positions in terms of functions, organization, location, skill, grades and other characteristics used to control and assign personnel. Government-civilian personnel includes DoD civilians in the pay grades GS-1 thru GS-15, SES I thru SES VI, and Wage Grade, and does not include contractor personnel.

Data Element Reference:

Answer:

IAW HWAD TDA

		3	4	5	
Civilian Executive Assistant iew Full Answer	GS-0301-13 View Full Answer	1	1	1	1
Secretary (Steno/Ol) ew Full Answer	GS-0318-07 View Full Answer	1	1	1	2
nvironmental Protection Specialist ew Full Answer	GS-0028-12 View Full Answer	1	1	1	3
nvironmental Protection Specialist w Full Answer	GS-0028-11 View Full Answer	1	1	1	4
[illegible]	[illegible]				

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Environmental Protection Specialist View Full Answer	GS-0028-09 View Full Answer	1	1	1	5
Traffic Manager View Full Answer	GS-2130-11 View Full Answer	1	1	1	6
Administrative Officer View Full Answer	GS-0341-11 View Full Answer	1	1	1	7
Security Officer View Full Answer	GS-0080-11 View Full Answer	1	1	1	8
Safety & Occupational Health alist Answer	GS-0018-11 View Full Answer	1	1	1	9
Supervisory Contract Administrator View Full Answer	GS-1102-13 View Full Answer	1	1	1	10
General Engineer View Full Answer	GS-0801-12 View Full Answer	1	1	1	11
Industrial Property Management Specialist View Full Answer	GS-1103-11 View Full Answer	1	1	1	12
Facility Management Specialist View Full Answer	GS-1640-11 View Full Answer	1	1	1	13
Budget Analyst View Full Answer	GS-0560-11 View Full Answer	1	1	1	14
Supply Systems Analyst	GS-2003-11	1	1	1	15

BRAC 2005 - Data Collection Application

upply Systems Analyst w Full Answer	GS-2003-11 View Full Answer	1	1	1	15
elecommunications Specialist w Full Answer	GS-0391-11 View Full Answer	1	0	1	16
elecomunications Equipment perator w Full Answer	GS-0390-07 View Full Answer	1	1	1	17
dministrative Assistant w Full Answer	GS-0303-06 View Full Answer	1	1	1	18
upervisory Quality Assurance alist (Ammo Surveillance) nswer	GS-1910-13 View Full Answer	1	1	1	19
uality Assurance Specialist ammunition) w Full Answer	GS-1910-12 View Full Answer	2	2	2	20
ality Assurance Specialist ammunition) y Full Answer	GS-1910-11 View Full Answer	7	4	7	21
ality Assurance Specialist ammunition) Full Answer	GS-1910-09 View Full Answer	1	1	1	22
retary (OA) Full Answer	GS-0318-05 View Full Answer	1	1	1	23

ver History

ver	By	Date
ssion =>1	jody.gonzales1	02/24/004

Assignment History

Assigned To	Date
jody.gonzales1	01/14/004
herman.millsap	01/14/004

BRAC 2005 - Data Collection Application

8b3. Personnel => Authorized and Assigned Civilian Personnel

View Questions

Previous Next Print

Location: HAWTHORNE ARMY DEPOT

Question Status: UnAnswered

Question Text: What were the Supply and Storage Activity's numbers of authorized and assigned Government-civilian personnel by occupational series and grade as of 30 Sep 03? Also provide the estimated number of Government-civilian personnel to be assigned at surge.

Data Element Definition: Direct question to Supply and Storage Activities, as defined in the OSD BRAC Library. Surge is defined as operations 24 hours per day, 7 days per week using existing facilities and equipment. Authorized personnel are personnel validated and allocated in a manning document that defines positions in terms of functions, organization, location, skill, grades and other characteristics used to control and assign personnel. Government-civilian personnel includes DoD civilians in the pay grades GS-1 thru GS-15, SES I thru SES VI, and Wage Grade, and does not include contractor personnel.

Data Element Reference:

Answer Source :

1. Personnel	2. Civilian	3. Total Authorized	4. Total Assigned	5. Total Assigned to Surge
View Full Answer	View Full Answer			
View Full Answer	View Full Answer			
View Full Answer	View Full Answer			
View Full Answer	View Full Answer			

.N	PSNTL	GRADE	POSCO	BRNCH	IDENT	PPSST	PSIRQ	PPSRQ	AMSCO	SWCCD	MDEPK	RQSTR	AUSTR	PRMK1	PRMK2
	OFC OF THE COMMANDER	"	"												
	COMMANDER	'O5'	'91D00'	OD	K	F	E	B	42404100	BAH	AACS	1	1	YK	
	CIV EXECUTIVE ASSIST	'13'	'00301'	GS	C	F	C	B	42404100	BAH	AACS	1	1	YK	
	SECRETARY (STENO/OA)	'07'	'00318'	GS	C	F	C	B	42404100	BAH	AACS	1	1		
		' '	' '									3	3		
	SPECIAL STAFF	"	"												
	ENVR PROT SPEC	'12'	00028'	GS	C	F	C	B	42404100	CHE	AACS	1	1		
	ENVR PROT SPEC	11	00028'	GS	C	F	C	B	42404100	CHE	AACS	1	1		
	ENVR PROT ASST	09'	00029'	GS	C	F	C	B	42404100	CHE	AACS	1	1		
	TRAFFIC MANAGER	'11'	'02130'	GS	C	F	C	B	42404100	TJA	AACS	1	1		
	ADMINISTRATIVE OFFICER	11'	'00341'	GS	C	F	C	B	42404100	ADB	AACS	1	1		
	SECURITY OFFICER	'11'	'00080'	GS	C	F	C	B	42404100	TJA	AACS	1	1	16	
	SFTY OCC HEALTH SPEC	11'	'00018'	GS	C	F	C	B	42404100	CHE	AACS	1	1		
		' '	' '									7	7		
	CONTRACT ADMIN DIV	"	"												
	SUPV CONT ADMIN	13'	'01102'	GS	C	F	C	B	42404100	GBD	AACS	1	1	YK	
	GEN ENGR	12'	'00801'	GS	C	F	C	B	42404100	EAA	AACS	1	1	YK	
	INDUST PROP MGMT SPEC	'11'	'01103'	GS	C	F	C	B	42404100	MMC	AACS	1	1		
	FACILITY MGMT SPEC	'11'	'01640'	GS	C	F	C	B	42404100	JDA	AACS	1	1		
	BUDGET ANALYST	'11'	0560'	GS	C	F	C	B	42404100	GBD	AACS	1	1		
	SUPPLY SYSTEM ANALYST	11'	2003'	GS	C	F	C	B	42404100	GBD	AACS	1	1		
	TEL COMM SPEC	'11'	'00391'	GS	C	F	C	B	42404100	DGA	AACS	1	1		
	TEL COMM EQUIPMENT OPR	'07'	'00390'	GS	C	F	C	B	42404100	DGA	AACS	1	1		
	ADMIN ASST	06'	00303'	GS	C	F	C	B	42404100	GBD	AACS	1	1		
		' '	' '									9	9		
	QUALITY ASSURANCE DIV	"	"												
	CHIEF/QA SPEC (AMMO)	'13'	01910'	GS	C	F	C	B	42404100	NJA	AACS	1	1	YK	
	QA SPEC (AMMO)	'12'	'01910'	GS	C	F	C	B	42404100	NJA	AACS	2	2		
	QA SPEC (AMMO)	'11'	'01910'	GS	C	F	C	B	42404100	NJA	AACS	7	4		
	QA SPEC (AMMO)	'09'	'01910'	GS	C	F	C	B	42404100	NJA	AACS	1	1		
	SECRETARY (OA)	'05'	'00318'	GS	C	F	C	B	42404100	NJA	AACS	1	1		
		' '	' '									12	9		
										TOTAL (INCL MIL)		31	28		

Herman Millsap (PKI)

From: LTC John Summers (PKI)
Sent: Monday, July 11, 2005 11:04 PM
To: Herman Millsap (PKI); Florentino Cardenas (PKI)
Cc: John Gray (PKI); 'Rob Schleef'
Subject: FW: Retrograde
Importance: High

Herman,
We need to get the chart from PEO Demil that lays out the funding plan for future demil work. This was recommended by one of the analyst. They also recommended that we attempt to gain more visibility on planned overseas retrograde.

John Summers
LTC, OD
Commanding
Hawthorne Army Depot
775-945-7001

-----Original Message-----
From: John Gray (PKI)
Sent: Monday, July 11, 2005 6:04 AM
To: LTC John Summers (PKI)
Subject: FW: Retrograde

Sir,

This information from JMC probably is too late for your use today.

However, this scheduled retrograde will require at least 735,000 square feet of storage space in FY06 and 563,000 square feet of storage space in FY07. NOTE: This is all services.

John
-----Original Message-----
From: Schaaf, Jeffrey A Mr JMC [mailto:jeff.schaaf@us.army.mil]
Sent: Friday, July 08, 2005 8:23 AM
To: John Gray (PKI)
Subject: Retrograde

John, I'm sure I'm a day late and dollar short, but here's the latest on retrograde:

FY06 - 56,000 tons Army, 17,500 other services

FY07 and out 35,500 Army, 20,800 other services

Jeff

Herman Millsap (PKI)

From: John Gray (PKI)
Sent: Wednesday, June 22, 2005 11:09 AM
To: Herman Millsap (PKI)
Subject: FW: CG's Staff Meeting, 01 Jun 05, Minutes

Herman,

Back-up data for the slide regarding FY06 Re-Set.

John

-----Original Message-----
From: LTC John Summers (PKI)
Sent: Wednesday, June 01, 2005 10:47 AM
To: ACO Staff
Subject: FW: CG's Staff Meeting, 01 Jun 05, Minutes

FYI.

John,
Please see highlighted portion to add to the briefing charts to show Retrograde impact.

John Summers
LTC, OD
Commanding
Hawthorne Army Depot
775-945-7001

-----Original Message-----
From: Twining, Judy A Ms AFSC [mailto:judy.ann.twining@us.army.mil]
Sent: Wednesday, June 01, 2005 8:53 AM
To: Alan Wilson; AMSTA-RI-DM; Ann Nollett; DL_AFSC/JMC-HQPERS-RI; DL_AFSC-CDRS; DL_JMC-ACTV-CDRS; Michael Bobie; Patricia Vyncke; Thomas Wick
Subject: CG's Staff Meeting, 01 Jun 05, Minutes

Minutes attached.

V/R,

Judy

<<STAFF MEETING01JUN05NEW.doc>>

STAFF MEETING
01 Jun 05

CG: Current suspense actions report presented and discussed.

EXEC OFC: Calendar of Events presented.

OER/NCOER Report and Awards for Military details provided to Chief of Staff.

Overdue Civilian Appraisals details provided to Command Group.

Retention Update and Equal Opportunity details provided to Command Group.

stfmtg1Jun.ppt
(553 KB)

DCS: TDY: Will be OCONUS the next 1-1/2 to 2 weeks.

Garrison: BRAC: Prebrief held yesterday and briefing today. Looking at data used and have questions concerning it.

AFSC Support Operations:

Activation: Some of the multifunctional unit being activated by position. They are being called forward.

Meetings During Commanders' Conference Week: Will work schedule and determine which weekly meetings will remain scheduled.

G1:

NSPS: New dates for implementation of NSPS were published last week. AFSC and JMC are both in "Spiral 1.2" conversion which is tentatively set as Mar 06 or possibly Oct 06. Labor Relations aspect deploys in September 2005. These dates have slipped several times and we will keep all posted as things develop. Training will occur prior to implementation, beginning before the end of FY 05.

David Packard Excellence in Acquisition Award: David Packard Excellence in Acquisition Award closes for nominations 6 Jun. So far, received 4 negatives, no nominations.

MLRC:

Notice of Violation at Radford AAP (RFAAP): Violation issued for failure to submit completed Virginia Pollutant Discharge Elimination System (VPDES) Application by the required date. Complete VPDES reapplication was due on 30 Oct 04; RFAAP submitted on 30 Nov 04. RFAAP is establishing environmental compliance reporting matrix to correct future reporting problems. POC is Dennis Versluys, SFSJM-LGE, x21870.

Industrial Base Assessment Tool (IBAT) Training: Three separate training sessions were conducted by DSI personnel for staff. System is very powerful and purpose of training was to further familiarize personnel with it, as well as teach them how to run simulation models, etc. Similar type training is planned for Picatinny on 29-30 Jun. POC is Al Beuster, SFSJM-LGI, x22434.

Development of BRAC Operational Plans: Began developing operational plans for implementation of BRAC. These plans include addressing options for capacities to be moved, equipment to relocate, construction needed at gaining sites, and strategies for operations of facilities being relocated. Coordination is taking place between Commodity Management, PMs and PEO Ammo in finalizing these plans. Efforts will continue toward finalization for submission to BRAC Office. POC is Al Beuster, SFSJM-LGI, x22434.

OMA - HQDA G4 FY 06 Reset Ammo Movement Plan: DA G4 in coordination with AMC G3 provided robust reset movement plan that we are using to calculate our RESET OMA requirements. Plan includes ammo retrograde tonnages of 24,400 from Korea, 14,400 from SWA and 7,200 from Europe. Our estimated CONUS SDT and depot receipt funding cost for plan is $28.3M. We are incorporating plan into AMC Summit Submission currently being worked. POC is Gary Berens, SFSJM-CTO, x23076.

OMA - Additional Cash Received: Received $6.7M additional OMA 424 Base Mission funding supporting continuance of funded depot operations through 8-9 Jun. POC is Gary Berens, SFSJM-CTO, x23076.

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY JOINT MUNITIONS COMMAND
1 ROCK ISLAND ARSENAL
ROCK ISLAND, IL 61299-6000

REPLY TO
ATTENTION OF:

S: 18 Jul 05

SFSJM-DC

JUN 29 2005

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Hawthorne Army Depot (HWAD) Final Installation Report and Corrective Action Plan

1. Reference the US Army Joint Munitions Command Assessment Team's 18-22 Apr 05 on-site visit. Enclosures 1 and 2 are the visit's final report and corrective action plan.

2. I am strongly committed to ensuring our Supply Depot Operation (SDO) processes are in strict compliance with all governing regulations and munitions movements are handled with extreme safety and security. The referenced assessment report identifies recommendations that will bring non-compliant SDO processes into compliance and enhance process efficiencies at HWAD. The recommendations must be implemented by Headquarters, US Army Field Support Command; Headquarters, US Army Joint Munitions Command; and the HWAD staffs. I expect prompt implementation of all recommendations identified. Full compliance with established SDO regulations and guidance at your storage activity is paramount.

3. Corrective actions will be tracked using the excel spreadsheet at enclosure 2. The organizations listed below are responsible for ensuring their respective recommendations are properly implemented and reported conditions are promptly resolved.

a. Inventory: JMC SFSJM-CT and HWAD.

b. Document Control: JMC SFSJM-CT and HWAD.

c. Physical Security: AFSC AMSFS-FP and HWAD.

d. Quality Assurance/Surveillance: JMC SFSJM-QA and HWAD.

e. Transportation: AFSC AMSFS-ST and HWAD.

f. Explosive Safety: AFSC AMSFS-SF, DAC SJMAC-ES, and HWAD.

Printed On Recycled Paper

JUN 22 2005

SFSJM-DC
SUBJECT: Hawthorn Army Depot (HWAD) Final Installation Report and Corrective Action Plan

4. The Command staffs and HWAD will establish corrective actions, completion dates, and forward them to SFSJM-LG NLT COB 11 Jul 05 for consolidation. Follow on status updates will be provided NLT the fifth working day of each month. AMSFS-IA will assist SFSJM-LG in monitoring the corrective actions implementation until completion.

5. The POC is Mr. Rickey Peer, SFSJM-CTA, DSN 793-2307, e-mail peerr@afsc.army.mil.

2 Encls
as

BILLY N. DOWDY
Colonel, OD
Deputy Commander

DISTRIBUTION:

LTC Johnny M. Summers, Commander, 1 South Maine Avenue, Hawthorne, NV 89415-9404
US Army Field Support Command, Mr. Dave Enders/AMSFS-FP, Mr. Richard Nesbitt/AMSFS-ST, Ms. Lorraine Jestel/AMSFS-IA, 1 Rock Island Arsenal, Rock Island, IL 61299-6500
US Army Joint Munitions Command, Mr. Steve Mapley/SFSJM-LG, Mr. Raymond McMillin/SFSJM-LGG, Ms. Kathy George-Reading/SFSJM-CT, Mr. Greg Zelnio/SFSJM-QA, 1 Rock Island Arsenal, Rock Island, IL 61299-6000

- 11643A: No discrepancies.

- 67RX01: No discrepancies.

3. Recommendation(s):

- HWAD immediately corrects the noted deficiencies at buildings 002006, 005018, 008013, 081007, 112013, 11610A, and 11614A.

- HWAD must ensure all stored assets properly have their 2-D bar code label(s) and MDC(s) attached.

F. **CRITICAL STORAGE CAPABILITY:** Status: Green.

1. Conclusion: Hawthorne has good control of explosive space management. HWAD provides storage utilization feeder data to JMC and internally uses the feeder data to measure space allocation or usage. When queried, the storage space manager provided the excluded storage space and available empty buildings for munitions storage. A "master plan" and license record serves as the template for where materiels should be re-located upon re-warehousing or receipt. The explosive compatibility and magazine content listing is used on a recurring basis to ensure HWAD maintains cleared and safe munitions storage. HWAD is at 56 percent capacity. Hawthorne possesses excellent structures and a workforce capable of serving a critical storage shortfall of overloaded depots. All consideration should be given to Hawthorne to locate more training or war-fighter munitions within the complex.

2. Discussion: Our interview with space management personnel indicates a good working process is in effect to rapidly assign incoming receipts, replace shipped space into reuse, and provide storage feeder data to JMC. Grid changes and management is exceptional. HWAD has 680 magazines currently empty and could immediately intake storage of conventional munitions. The storage planner would appreciate any advance shipment notification, Report of Shipment (REPSHIP), to HWAD as it greatly enhances the planners' job. First, the storage planner checks for like National Stock Numbers (NSNs)/Lot #s. If this does not work, the planner looks at like NSN or Department of Defense Identification Codes (DODICs). Next, if that approach does not work, the storage planner checks for like materiel. The storage planner has made great progress in

getting the truck drivers to provide 24 hours advance notice for incoming shipments.

3. Recommendation(s):

- HQ, JMC, SFSJM-CTA, supports HWAD by inducting more serviceable and training stocks.

- HQ, JMC, SFSJM-CTA, use the HWAD available space to provide relief to the near capacity Crane Army Ammunition Activity (CAAA) and McAlester Army Ammunition Plant (MCAAP) storage activities.

G. REGULATIONS, SOPs, and DESK PROCEDURES: Status: Green.

1. Conclusion: HWAD has policies in place for the majority of their inventory functions. As a result, regulatory controls are established and working as intended at HWAD.

2. Discussion: Policies, desk procedures, and SOPs, are in place for the following: Site Inventory, In-float, found on post, Scheduling, 2-D Bar Coding, Quality Control, Key Control, Time Standards, ATR, Demilitarization, Receipts, Denials, Cancellations, 11 Accounts, Transportation Discrepancy Reports, and SDRs. All IOPs are well prepared and updated. Last update was 27 Feb 04.

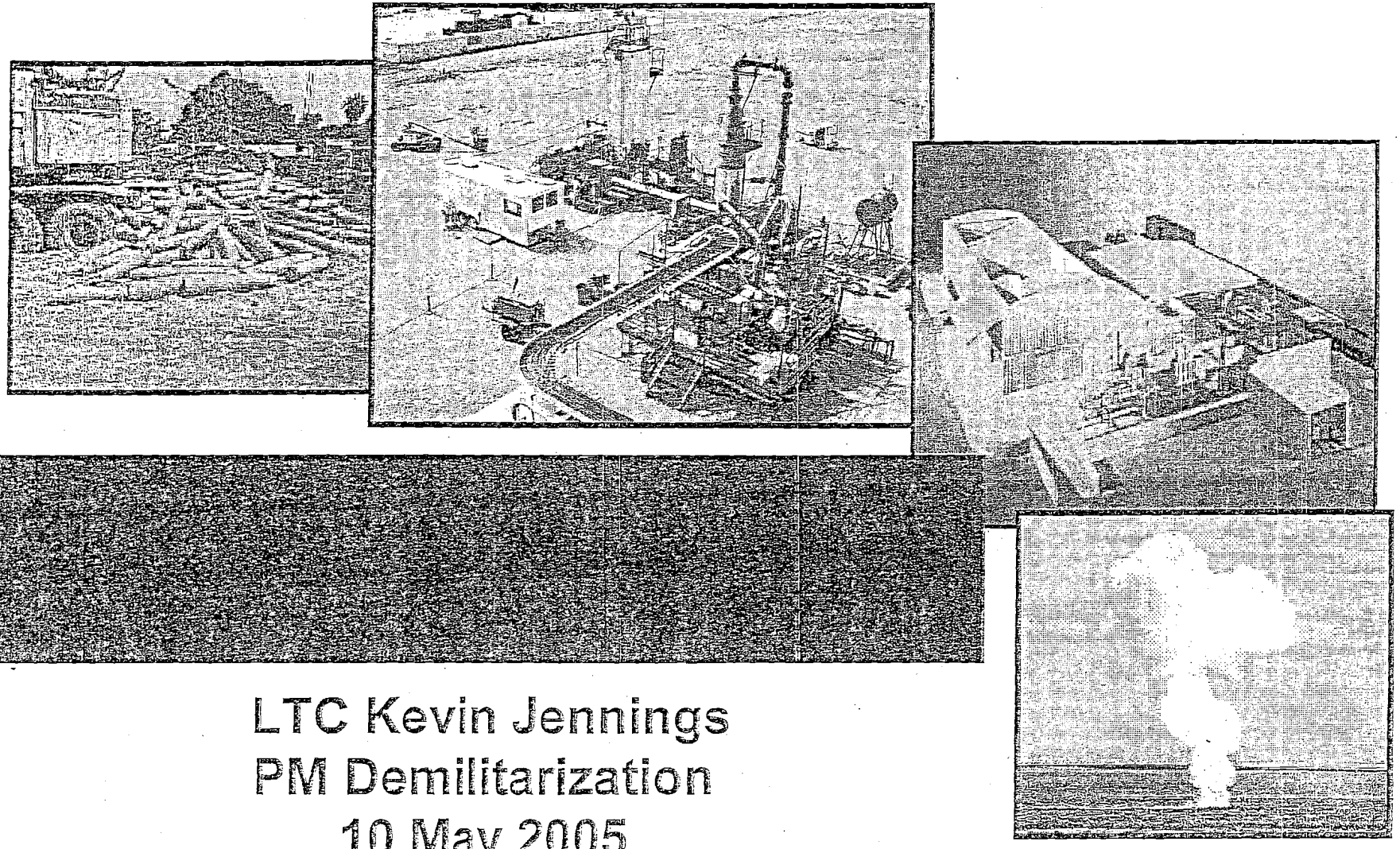
3. Recommendation(s): HWAD continues to keep their IOPs current and updated to reflect current processes. Very good HWAD program.

H. INVESTIGATIONS AND REPORTS OF SURVEY: Status: Green.

1. Conclusion: HWAD properly processes Inventory Adjustment Report (IAR) investigations. As a result, regulatory controls are established and working as intended at HWAD.

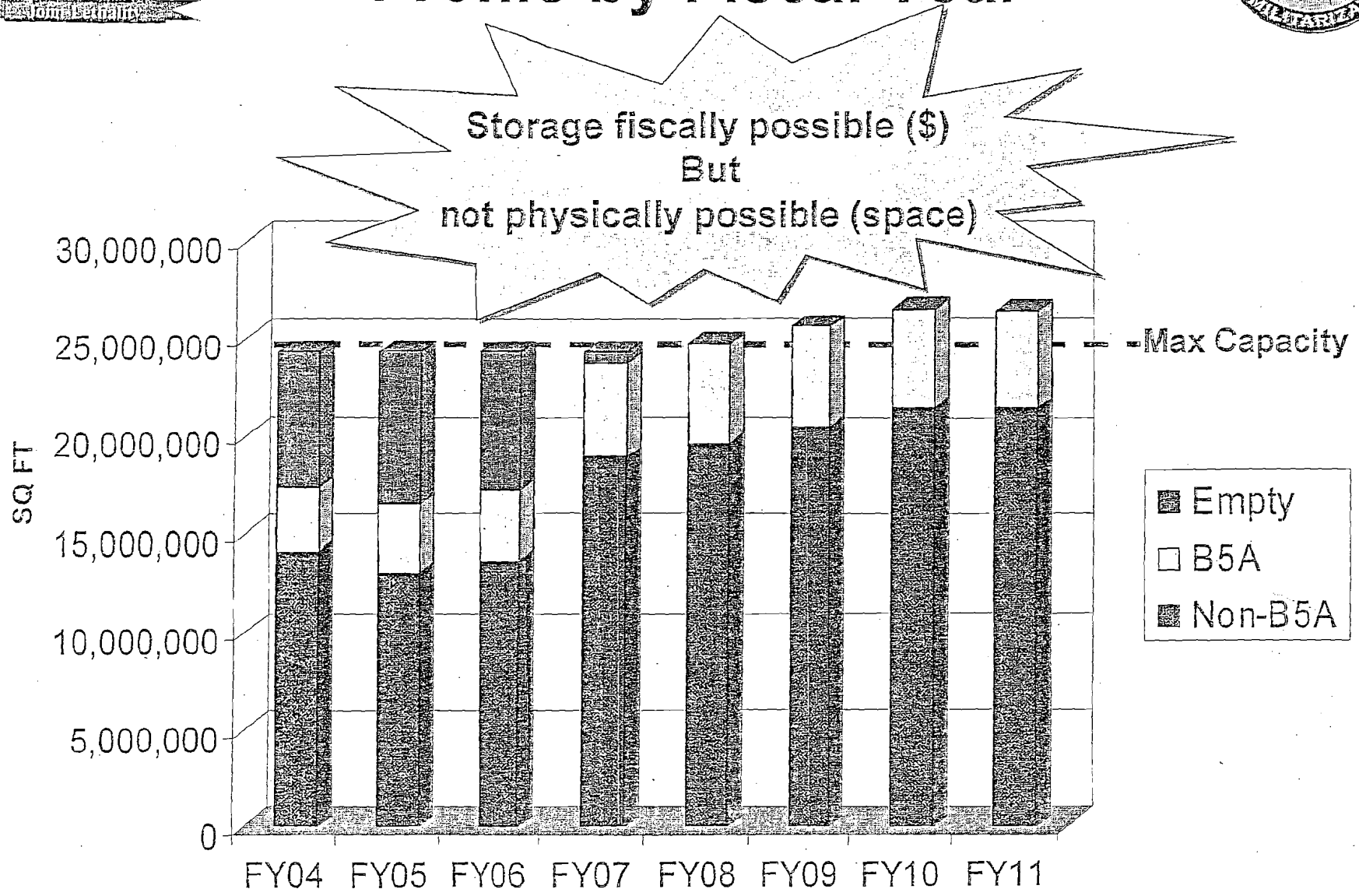
2. Discussion: HWAD had seven (7) investigations initiated in FY 04 and three (3) in FY 05 with 80 percent of their inventory completed. There is one (1) open investigation and the DA Form 444 requires the Commander's approval. The rest are waiting for HQ, JMC approval. We reviewed completed and in-process IAR investigations. For completed investigations, our review disclosed HWAD met all

Demilitarization Enterprise



LTC Kevin Jennings
PM Demilitarization
10 May 2005

Wholesale Depot Occupancy Profile by Fiscal Year



POST BRAC AVAILABLE STORAGE

Data Qualifier: Includes only wholesale depots left standing after BRAC. AAP Storage Space was not included because space may be required for storage of explosives/inert items for LAP. Additionally, space may be required for mobilization requirements. AAPs are not equipped to handle shipping/receipt requirements as would be a wholesale depot (see notes 1 & 2).

Storage Requirements after BRAC

	Square Feet	Tonnage
*HWAD	2,321,064	257,896
RRMC	583,389	64,821
SIAD	276,885	30,765
Reset	661,500	73,500
TOTAL	**3,842,838**	**426,982**

*Assuming HWAD's 140,000 tons and RRMC's 2,230 tons of demil assets have been demilitarized.
Includes 12,652 tons of Industrial Plant Equipment (IPE) and 20,000 tons of Navy tenant assets.
Does not include 2,147 tons of 16"/50 Gun Barrels.

TEAD	Net Sq Ft Available	Occupied	Available	Tonnage
	1,880,658	1,577,444	303,214	190,186

	Total Tons	Total Sq Ft
	190,186	1,577,444
	33,690	303,214
TOTAL	**223,876**	**1,880,658**

Bottom line is TEAD can receive 33,690 tons of the 426,982 tons remaining after BRAC.
Remaining tonnage/square feet 393,292 tons or 3,539,624 sq ft

CAAA	Net Sq Ft Available	Occupied	Available	Tonnage
	4,893,000	3,613,438	1,279,562	463,256

	Total Tons	Total Sq Ft
	463,256	3,613,438
	142,174	1,279,562
TOTAL	**605,430**	**4,893,000**

Bottom line is CAAA can receive 142,174 tons of the 393,292 tons remaining from TEAD.
Remaining tonnage/square feet 251,118 ton or 2,260,062 sq ft

LEMC	Net Sq Ft Available	Occupied	Available	Tonnage
	1,666,988	999,404	667,584	98,432

	Total Tons	Total Sq Ft
	98,432	999,404
	74,176	667,584
TOTAL	**172,608**	**1,666,988**

Bottom line is LEMC can receive 74,176 tons of the 251,118 tons remaining from CAAA.
Remaining tonnage/square feet 176,942 or 1,592,478 sq ft

POST BRAC AVAILABLE STORAGE

ANMC	Net Sq Ft Available	Occupied	Available	Tonnage
	1,766,634	849,617	917,017	120,386

	Total Tons	Total Sq Ft
	120,386	849,617
	101,891	917,019
TOTAL	**222,277**	**1,766,636**

ANMC can receive 101,891 tons of the 176,942 tons remaining from LEMC.
Remaining tonnage/square feet 75,051 tons or 675,459 sq ft

McAAP	Net Sq Ft Available	Occupied	Available	Tonnage
	5,175,840	3,842,255	1,333,585	579,022

	Total Tons	Total Sq Ft
	579,022	3,842,255
	75,051	675,459
TOTAL	**654,073**	**4,517,714**

McAAP can receive 75,051 tons of the 75,051 tons remaining from ANMC.

NOTES

1. One ton of ammunition equates to 9 sq ft of storage space.
2. Storage space is based on net sq ft available as shown in JMC Depot Covered Storage Briefing Chart, 10 May 2005.

AVAILABLE

	Tons	Sq Ft
BGAD	22,041	198,376
*CAAA	0	0
McAAP	73,125	658,126
*TEAD	0	0
DESERET	50,555	455,000
ANMC	0	0
*LEMC	0	0
TOTALS	**145,721**	**1,311,502**

* Already at 100%

SCAN OF HWAD'S MUNITIONS, EXPLOSIVES AND INERT ASSETS

TOTAL TONNAGE 362,743

NOMENCLATURE	QTY	TONS
3/50 SPD IHPB 84NFL NFL WR53/724A	4398	3.0786
3/50 SPDF IHPB 103 FL	102518	71.7626
3/50 SPCG PAPB 23FL	95606	66.9242
5/38 SPWF IHBE 170 FL	356956	249.8692
TORPEDO, WARSHOT F/MK 31 MOD 0	13	15.6
TORPEDO,WARSHOT,PRAC,MK 46-1 PHASE II EXERCISE NALC 1513	1	0.183
TORPEDO,MK44-1,WARSHOT,CMPLT ASSY,TUBE LAUNCHED LD495912,1623753	1820	661.57
TORPEDO,MK44-1,EXERCISE,CMPLT ASSY,TUBE LAUNCHED 1623754	15	5.31
TORPEDO,MK44-1,WARSHOT,CMPLT ASSY,AIR/HELO LAUNCHED LD495912	11	4.0315
TORPEDO,MK44-1,EXERCISE CMPLT ASSY AIR/HELO LAUNCHED 1623756	4	1.428
TORPEDO,MK 37-2,EXERCISE CMPL ASSY,,TUBE LAUNCHED LD162538	12	7.2
TORPEDO,MK37-3 WARSHOT,CMPLT ASSY TUBE LAUNCHED 2618239	1	0.715
TORPEDO,MK44-1,EXERCISE TUBE LAUNCHED,WSAT,CONFIGURATION 1623894	1	0.354
GUIDED MISSILE TRNG TYPE I,ATM-78B-1 INERT UNITS	3	3.1005
GUIDED MISSILE,TACTICAL,AGM-78C-2,CMPLT,STND-ARM CHINA LAKE MTL	23	23.7705
GUIDED MISSILE,TACTICAL,AGM-78C-C CHINA LAKE	14	14.4732
GUIDED MISSILE,TACTICAL,AGM-782-D,CMPLT STND-ARM USER NAVY ONLY	2	2.067
TAIL SECT,DST,MK12-0,F/MN MK63-0,2,3 FLIGHT GEAR KIT MK140,DST	3874	338.975
ACTUATOR,EXPLOSIVE,STAB,MK32-0,F/TAAI SEC,MK7,F/MN,MK65	746	0.07087
KIT,MINE FLIGHT GEAR MK160-0,F/MN MN MK 64-0 NALC 1W32	6524	437.108
CASE,MK65, LOADED ASSY. FAIRING/TAIL SECTION MK7-1 6169193	59	79.65
WINGS P/N 917AS7126 AND FINS P/N 917AS7129,SET OF 4 EACH,F/CTM	15	0.76125
CHAMBER AND VALVE ASSY,MK 5 MOD 2,F/TORPEDO MK 48	8	0.056
HEATER AND FINS FOR TORPEDO MK 50 MOD O P/N 537115820663	153	0.2295
TDD-SHROUD ASSEMBLY	4	0.76
CONTROL UNIT STERING MK 208-1 F/RIM-67C NALC 6W45	618	48.822
CRATE,SHIP,MK25-0,F/MN MK25 384424	35	3.535
CRATE,SHIPPING,MK52-0,F/MN MK52-0 1362585	6	0.345
CRATE,SHIPPING MK52-1 F/MN.MK52 DL 2996265 2996265	26	1.495
CRATE,UNDERWATER,MINE,MK56-0,F/MINE,MK56 2499676,LD550108	6	0.522
CRATE,MK101-0,F/EXPLOSIVE/DRILL SECTION,MN,MK56 1378345	11	0.1375
BOOSTER CNTR,F/10000LB SHOCK TEST CHG,PENTOLITE,50/50 LD 5388903	4	0.07056
TELEMETERING INSERT AN/DKT-27B W/BATTERY B FREQ 2224.5 MHZ	1	0.0915
TELEMETERING INSERT AN/DKT-27C W/BATTERY A FREQ 2212.5 MHZ	1	0.0915
TELEMETERING INSERT AN/DKT-42BF/FREQ	1	0.0695
FIN ASSY, UHF DORSAL TELEMETERING	9	0.009
FIN ASSY, UHF DORSAL TELEMETERING AN/DKT-34C G FREQ F/RIM-66	10	0.034716667
SONOBUOY,AN/SSQ57A-LS/SLC,SELF-CONTAINED, PRESET TO CHANNEL 14	2	0.049
SPACER ASSY,POLYSTYRENE FOAM,F/USE W/MARKER,MK2 MODS,REPLACES8W2	613	0.536375
SONOBUOY,AN/SSQ-57A-LS/SLC CHANNEL 26	1	0.0155
SONOBUOY,AN/SSQ-62B,SLC/LS-LAU-126/A & LITHIUM BATTERY	13	0.312
SONOBUOY,AN/SSQ-57B,CHANNEL 23	551	6.8875
SONOBUOY,AS/SSQ-110,CHANNEL 22,ACRFT,LAUNCHED EXPENDABLE,DEVICE	1	0.022
SONOBUOY,AN/SSQ62E	33	0.693
KIT,WING&YOKE, ASSY DR5917206,CONTAINS WING,YOKE ASSY DR2880650	8	0.52
EXPLOSIVE,SECTION MK 13-0, EMPTY,U/O MINE MK 67-2	1	0.15
PLUG,PIPE AN932-6	77854	603.0885833
CTG, 12 GAGE SHOTGUN, TRAP & SKEET LOAD, NO. 8 LOAD	110	0.00627
CARTRIDGE,12 GAGE,SHOTGUN, TRAP LOAD PLASTIC CASE	52	0.002964
CARTRIDGE, 10 GAGE BLANK	125	0.0025
CTG, 12 GAUGE SHOTGUN, W/PLASTIC CASE 12551623	6732	0.5537785
CARTRIDGE, 12 GAGE SHOTGUN	79	0.100725
CTG,12GA,SHOTGUN,#9 SHOT,TRAP + SKEET LDD 12551626	4425	0.2367
CTG,12GA,SHOTGUN,#4B SPEC BUCKSHOT,XM257,PLAS CAS 10542446	720	0.067885714
CARTRIDGE, 12 GAUGE SHOTGUN, PLASTIC CASE 10Z SLUG LOADED	34	0.0034
CARTRIDGE, 12 GAGE SHOTGUN	1000	0.0152
CTG,5.56MM,CTG MODEL NO M855,DSGN F/MACH GUN DWG 9354626	8065403	155.0669743
DUMMY, CARTRIDGE, 5.56MM M199 SERIES	13268	0.230976463
CTG, 5.56MM,BALL,M855 LINKED W/M27 LINK (4-1)	52805	1.237646875
CTG,5.56MM,M856 TRACER,(CTG IDENTIFIED BY ORANGE BULLET TIP)	487333	9.910094848
CTG,5.56MM,BALL,M855 & TRACER,M856,4/1 M27,LINKS	115230	2.569064063
CARTRIDGE, 5.56 MILLIMETER	47	0.022668293
CTG,5.56MM,TRACE,M196,F/RIFL AR-15,M16/M16E1 7553296I/P,10534193	231706	4.246885849
CTG,5.56MM,BALL,M193 10523632,7553296 I/P,10542258 O/P	12781	0.254859226
CTG,5.56MM,CLIPPED,TR,M196,GRADE R 10534193	1081069	21.55703065
CTG,5.56MM,BLANK,M200,M27,LINKED	93345	1.71361875
DUMMY CTG, 5.56 MM M232	720	23.22
CTG.5.56MM,BLANK,M200,2280/WRBND BX 10542379,10542291 O/P	49092	0.594282323
CTG,CAL.22,BALL,LONG RIFLE,10200/WRBND BX 7553931	2437684	11.74522294
CTG., CAL .22, TRACER CTG, CTG MODEL NO. M861, F/RIFLE M16	3000	0.012
CTG,CAL.22,BALL,LR,F/PIS/REV,WSTRN SPR MATCH,MK IV/EQAL,10200/BX	2222950	10.78751912
CTG, 22 CAL, LR MATCH REDUCED VELOCITY, 40 GTAIN LUB LEAD BALL	78364	70.5276
CTG,7.62MM,SINGALE,RD,DSGN F/AK47	300	0.00855
CARTRIDGE, 22 CALIBER, BALL F/RIFLE	128500	0.514
CARTRIDGE, 22 CALIBER, LONG RANGE HIGH VELOCITY	1506	0.005271
CTG,7.62MM,BLANK,NATO,M82,LINK,GRADE MG,800/BX 8597283	95074	3.50585375
CTG,7.62MM,BLANK,M82,20/CTN 8597283,WR-55/17	1448878	35.01371
CTG,7.62MM,NATO,BALL,M80,GRADE R,MG 10521998	34429	507.9684332
CTG,7.62MM,NATO,TR,M62/T102E2,GRADE R,920/WRBND BOX 7553705	741813	28.26834176
CTG,7.62MM,NATO,BALL,M80,5 IN MAX MEAN RADIUS,840/BX 10521998	2621994	112.8292338

CTG,7.62MM,LINK,4 BALL M80,1 TR M62,GRADE MG 7553705,8595543	150131	7.225154375
DMY CTG,7.62MM,NATO,M63,920/WRBND BX 7553706	13686	0.409092391
CTG,7.62MM,NATO,MATCH,M118,XM118,920/WRBND BX 8597555	1356	0.053797826
CTG,7.62MM,TRACE,M62,F/RIFLE M14,M40 7553705,WR-55/6,10522000	29170	1.109728261
CTG,7.62MM,NATO,BALL,LINK,M80,F/MG M60,M73,800/BX 10521998	92117	4.433130625
CTG, 7.62MM: TRACER M62 LINKED W/M13 F/MG M60	7560	0.363825
CTG,7.62MM LINKED,F/BALL M80,1 TRACER M62,F/MG M60 10523088	100	0.0048125
CTG, 7.62MM, BALL, M80, LINKED F/MG M60	3600	0.16425
CLIP,CTG,7.62MM,5 RD/CLIP,M14 SRS 7790130	25928	0.237673333
CTG 7.62MM M80	3	0.000124
CTG,7.62MM,LINK,4 BALL M80,1 TR M62,F/MG MINNI GAU 2B/A 8595543	94500	11.151
CARTRIDGE, 7.62MM BALL	380	0.005225
CARTRIDGE, 7.62 MILLIMETER BALL,M80 & TRACER M62	36	0
CTG 7.62MM MATCH M852 2	500	0.019836957
CTG,CAL.30,CARBINE,BALL,CLIP M1 10542259,6200954	1160	0.023092593
CARTRIDGE,.30 CALIBER, RIFLE	1100	0.009166667
CTG,CAL.30,AP,M2,GRADE MG,20/CTN,AS REQD/MK1-0 BX 6138194	7840	22.148
CTG,CAL.30,BALL,M2,GRADE R,5/CLIP 6137544	37986	1.418144
CTG,CAL.30,BALL,M2,GRADE R,CLIP,768/BX 6137544,MIL-C-1313B	22308	1.074734375
CTG. 30 CAL BALL LINKED	1009	0.039351
CTG,CAL.30,TRACER,M1,GRADE R 1500/MTL-LND WD00000000000000000000	53800	1.954733333
CTG,CAL.30,MATCH,M72/T291,800/WRBND CRATE 8595432,WR-55/18	42965	1.799159375
CTG,CAL.30,MATCH,M72/T291,1056/WRBND BX 8595432	306928	14.09659848
CARTRIDGE,7.62 MILLIMETER	221900	10.6789375
CARTRIDGE, 7.62MM	63000	2.478
CARTRIDGE, 9MM, SUBSONIC, F/MACHINE GUN	160	0.0008
CTG,9MM,TRACE,PRAC,M939,F/AT4 13230107	10125	1.097958333
DUMMY CTG 9MM M917	108772	2.0829838
CARTRIDGE,9MM,MK144-0,158 GRAIN BULLET, COMP OF MK26-0	350	0.005126953
CTG,9MM BALL,M882 9354343	13350	0.267
CTG. CAL. 38SP. PGU-12/B BALL	48802	0.75521095
CTG,CAL.38 SPEC,BALL,M41,30 GRAIN BULLET,2400/WRBND BX 7553580	9783712	191.5964467
CTG,CAL.38 SP,BALL,REVOLVER,MIDRANG,770FT/SEC MV,40/BX 10521459	2001	0.032519583
CARTRIDGE,38CALIBER, SPEC, BALL,STL W/TRACER	1492	0.027353333
CARTRIDGE, .380 CALIBER BALL, 95 GRAIN BULLET, 9MM	50	0.0008125
CARTRIDGE,.45CAL,ACP,SGL RD, 230 GRAIN PROJ,WT, METAL CAN	195	0.0044265
CTG,CAL.45,BALL,M1911,2000/WRBND BX 6000503	319630	8.5501025
CTG CAL45 M9 2000 BOX	100	0.043
CTG CAL45 M26 2000/BX	8123	0.214839941
CTG,CAL.45,MATCH,BALL,AUTO 185 GRAIN WADCUTTER,MATCH GRD,2000/BX	150050	3.9393125
CTG,45 CAL,BALL,M1911,MATCHGRADE	622000	16.6385
DMYCTG CAL.45 M1921	17401	0.469827
CARTRIDGE,50 CALIBER,SLAP-T,XM962 LINKED	12000	2.31
CTG,CAL.50,LINK,BALL M33,TR M17,LINK M15A2,GRADE MG 7553097	26605	5.39925
CARTRIDGE, 50 CALIBER, M2 AP	630735	100.9176
CTG CAL50 M8 120/BOX	293	0.051739286
CARTRIDGE,.50 CALIBER, API, M8, (240 PER WOODEN BOX)	1267	0.204821429
CTG,CAL.50,LINK,API M8,TR M17,LINK M9,GRADE MG 7670238,7672165	2800	0.539
CTG,CAL.50,API-T,M20,GRADE AC,240/WDN BOX 7672003,MIL-C-3066	100311	17.13914519
CARTRIDGE CAL .50: APIT M20 LINKED	100	0.01925
CTG CAL50 M8 200/BX	33246	6.478335
CTG,CAL.50 BALL,M33,LINKED W/M9 LINKS 7553097,7553346 O/P	43506	8.374905
CARTRIDGE, CALIBER.50	4403	0.8475775
CARTRIDGE, .50 CAL BLANK	5	0.002566667
DMY CTG,CAL.50,M2 240/WDN BX T2 5556579	3997	0.499395
CARTRIDGE, 50 CALIBER M17, TRACER P/N 7672165	5709	0.94436375
CARTRIDGE, CAL 50, M17, 240/BOX	97640	16.06991667
CTG,CAL.50,LINK,M17,TRACE,LINK,M2/M9,GRADE AC 7672165	50000	9.625
CTG,CAL.50,SPOTTER-TRACER,M48A1,220/WRBND BX 8594735	158598	27.48458182
CTG,CAL.50,LINK,4 API M8,1 API-T M20,GRADE AC,200/BOX 7670238	9689	1.8651325
CT,CAL.50 LINKED CTG,AP INCENDIARY TRACER CTG 7670238	6930	1.2375
CTG,CAL.50,LINK M15A26,4 API M8,1 API-T M20,170/BX 7670238	31310	6.416
CTG,CAL.50,LINK,4 AP-I M8,1 TR M17,LINKS M15A2 7672165,7670238	1000	0.205882353
CTG,CAL.50 BLANK,M1E1,LINKED W/M9 9329735	17850	3.436125
CTG.50CAL,M1A1,BLANK,LINK,M15A2,85 RD/BELT WR-55/26,9332632	906978	184.0631824
CARTRIDGE CALIBER 50: BALL PLAS PRAC M858/TR PLAS PR M860 W/LNKS	3000	0.5175
CARTRIDGE CAL .50 D 0 SINGLE ROUND	25731	4.12768125
CARTRIDGE: CALIBER .50 API MK211 MOD 0 LKD 4 TO 1 W/M17 TRACER	2200	0.00275
LINK,CTG, M9 1000 P/BX	400	0.48
CTG,7.62MM,NATO,BALL,M80,F/CONVERTED M1 RIFLE 8595543,10521998	971	0.037297526
CTG 20MM M220 SNGL RD	835145	267.26784
CTG,20MM,HEI,M56 & TP-T,M2 20 ELEC LINKED,M56A3/M220	51273	23.58558
CARTRIDGE, 20MM,TP,M55A211 TP-T M220 LINKED	4852	2.23192
CARTRIDGE, 20 MM, HEI, M56A3/ M242	354	0.16284
CARTRIDGE,20MM,HEI,M56A3,API,M53	2531824	1164.63904
CARTRIDGE, 20MM,LINKED TP M55, MK 7 MOD 1	495740	215.6469
CTG,20MM,LINK,HE-I,STL,M56,100/MTL BX M548 Q06405,7259023	17100	7.353
CTG,20MM,LINK,9 HEI M56A3,1 HEI-T M242,100/BX 7259268,7259023	465990	214.3554
CTG,20MM,LINK,9 TP M55A2,1 TP-T M220,LINK MK7,100/BX 7259146	216	0.09936
CTG,20MM,LINK,4 HEI M56A3,1 HEI-T M242 7259268,7259023	500	0.23
CTG,20MM,LINK,4 TP M204,1 APT M95/M95A1,M10 LNK,LHF,130/BLT	98580	45.49846154

CTG, 20MM, LINKED, DS, MK149-1,W/MK-7-1 (#DEPLETED URANIUM)	8600	3.698
CTG, 20MM,PGU-28/B,SEMI-ARMOR PIERCING,F/M61 GUN,M39A2/M197	7	0.002324
CARTRIDGE, 20MM, PGU-27	19764	6.561648
CARTRIDGE, 20MM, TP-T,PGU-30/B	1	0.000332
CTG,SUBCAL,22MM,PRAC,M744,CHG,1 F/U/W/81MM M1 SABOT 100/BX	5650	3.39
CARTRIDGE, 20MM, APDS, MK 149 MOD 4, LINKED	100	0.043
CARTRIDGE, 20 MILLIMETE0,M56A3,HEI,LINKED, M22	984688	428.33928
CTG, 20MM, LINK, M95	7	0.003230769
CTG,20MM,APT M95/M95A1,W/PERC PRIMER WR-54/11A,75-1-177	72090	28.54618182
CTG,20MM,INC,M96,W/PERC PRIMER,165/BX 75-1-178,WR-54/11A	4335423	1709.245601
CTG,20MM,TP,M204,W/PERC PRMR,M36A1,W/PROJ,M99A1 7259106	28422	10.42558308
CTG,20MM,LINK,9 API,1 APT,W/LINK,MK6 2519701,WR-54/137,2519700	17770	9.046545455
DMY CTG,20MM,MK103-0,STL CAS,W/O PRMR CUP 2571546	9731	3.583962054
CARTRIDGE,20MM,ELEC HEI,MK 106-0,1 W/STL CASE	80135	28.26189732
CTG,20MM,HPT,ELEC,T131,CASE-FA,T2,PROJ M99 FD-18025 REV2	27500	10.81666667
CTG,20MM,ELEC,LPT T169,W/FA T2 CTG CAS MK12-0 PROJ,F/MK11,12 GUN	1500	0.59
CTG,20MM,ELEC,TP,MK105-0,W/STL CASE MK5-0,224/MK 1 SA AMM BX	16745	6.043977679
CTG,20MM,ELEC,APT,MK108-0,STL CASE,MK5-0 LD289045,1380975	2802	0.988205357
CTG,20MM,LINK,2 HEI M210,3 INC M96,RH FEED 7259105,75-1-178	13800	5.06
DMY CTG,20MM,M18A3,150/BX,F/GUN M3,M24,MK16 72-3-85	6400	0.192
CTG,20MM,HEI M56A3	900	0.4185
CTG,20MM,LINK,4HEI M210,1APT M95,W/M10 LINK,F/GUN MK16-0 2839190	512	0.194
CARTRIDGE, 20 MM, ELEC, HEI, MK 106 -2, W/STL CASE MK 5-0	3000	1.058035714
CTG,20MM,ELEC,APT,MK108-1,STL CASE,MK5-0 DL2519701,2519701	7584	2.674714286
CTG,20MM,ELEC,TP,MK105-1,224/BX 2519699,DL2519699	4256	1.501
CARTRIDGE, 20MM, ELECTRIC TP	235	0.086551339
CARTRIDGE, 20MM, TP, M55A2	26136	12.02256
CTG 20MM M56A3 SNG RD	22731	64.883524
CTG,20MM,TP,M55A2,BRASS CASE 7259161	4643	1.67148
CTG, 20MM,HPT,M54A1,F/GUN M61 & M197 (200 PER BOX)	190	0.0665
CTG,20MM,LINK,4 TP M55A2,1 TP-T M220E1,100/BX 7258817,7259146	227	0.10442
CTG,20MM,FCT,ELEC,MK109-0,CASE,MK1-0/FA T2 DL2051583,2051583	536	0.189035714
CARTRIDGE, 20 MILLIM	61891	28.46986
CARTRIDGE,20MM,M51A2 SINGLE ROUND	1502	0.49892
CARTRIDGE, 20MM, TP, M55A2, ELEC LINKED F/GUN M61	7	0.00322
DUMMY CTG,20MM M51 SERIES,LINKED W/MK7-1 ADL5871720	580	0.2175
CARTRIDGE,20 MILLIM	543362	249.94652
CARTRIDGE, 25.4MM, DECOY M839	1203	0.403005
CTG,25MM APDS-T,M791 LINKED W/M28 LINKS	2922	3.513351852
CTG,25 MM,HEI-T M792,LINKED W/M28 LINKS 1002290	173891	162.4796355
CTG,25MM,PRAC,TP,BRASS CAS,PGU-23 1397AS390	94848	62.75724375
CTG,25MM, FGU-22/U, HET SINGLE ROUND	11600	9.0625
CTG,25MM,LINKED,HEI-T,MK210-2	165	0.1485
CARTRIDGE,25MM,HEI, PGU-25	43	0.029885
CARTRIDGE,7.62MM,NATO,M118,SPEC BALL LR	5520	0.2205
CARTRIDGE, 9MM, FX MARKING RED IN COLOR PN/7232115	3800	0.19
CARTRIDGE, 20 MILLIMETER, PRACTICE	264	0
CARTRIDGE, 5.56 MILLIMETER	48600	1.269
CARTRIDGE, 5.56MM BALL, M855 CLIPPED,M2A1	10080	0.0207
CARTRIDGE, 5.56 MILLIMETER, M855,CLIPPED	9000	0.14
CTG, 9MM BALL M882	15500	0.248
CARTRIDGE,5.56MM,SPEC BALL,LR,MK262-MOD0,PN 7378740	840	0.0060375
CTG, 12 GAUGE, MK 274 MOD 0, EOD, ULTRA-VELOCITY SLUG	1500	0.215
FITTING,EXPL,MK1-0,NS,F/NS MN,MK25,36,52,55,56 3162419	2026	0.025325
FITTING,EXPLOSIVE,MK1-1,NS,F/NON SERVICE MINES,MK52,55 3162420	132	0.00165
FITTING,EXPLOSIVE,MK27-0,NS,F/NS MN,MK56 3162421	65	0.08125
HEAD ASSY,EXP LDD,NS,F/NS MN,MK56 3162427	63	0.2559375
PROPELLANT ASSY,LDD,NS,F/NS MN,MK56 3162485	91	0.29575
BOX BODY,WOOD,WRBND,W/O END,F/M2A1 MTL BOX D83172A	160	0.512
BOX, END, WOOD, WIREBOUND F/M2A1 METAL BOX	15531	8.930325
BOX,WRBND,F/M19A1 MTL BX,PKG AS REQD 5581878/ ENDS & SPACERS	4158	8.316
CARTRIDGE, SPOTTING RIFLE, DUMMY, 9/MK218	485	0.084875
CTG,SPOT RIFLE,9MM,MK212-0,SMAW PL82A5027A5060	2285	0.263409722
CNTR,AMMO,MTL,S-S,CNU-405/E,F/25MM AMMO 986AS106	9154	196.67369
PRIMER, PERCUSSION, MODEL W209	120	0.000186
SAFETY & ARMING DEVICE F/AGM-69/B	1	0.0025
MISSILE BODY SECTION F/AIM9L/M AIR FORCE	4	1.824
LINK,CTG,7.62MM,M13 7268389,MIL-L-45430-1	20860	0.12516
CARTRIDGE LINK 25MM: M28	1790	0.084527778
LINK, CARTRIDGE, BELT M22	1073258	40.783804
LINK,CTG,20MM,DISIN BLT,MK6-4,F/20MM A/C GUN MK11 LD615425	4000	0.38
LINK,CTG,20MM,TAIL END,MK6-6,F/20MM A/C GUN MK11 LD615435	21604	2.05238
LINK,CTG,DISINT BELT,20MM,MK2-2,F/GUN MK12 1252961	102922	6.289677778
LINK,CTG,20MM,DISINT BELT,END LINK MK2-1,F/GUN M12 1212380	186351	19.4115625
LINK,CTG,20MM,M14A2,W/O END LINK 8447633	37922	2.414775
LINK,CTG,DISIN BLT,20MM,M10,M8E1,F/GUN M3 MK16-0,10/CTN 7238242	15864	0.935976
DUMMY, CTG, 30 CALIBER, MODEL PGU-16A, DSGN F/GUN MGAU-8	55148	65.87122222
CARTRIDGE, 30 MILLIMETER PGU-14A/B 1ST GROUP PGU-13A/B,LINKED	200097	204.2274339
CTG. 30MM HEI PGU-13 A/B	445	0.438271772
CARTRIDGE,30 MILLIM	600	0.35625
CTG,30MM,TP,F/AV8A HARRIER A/C,LINK,F/LHF,30/BX MK4ZTP	867	1.0115

CTG,30MM,TP,F/AV8A HARRIER A/C,LINK,F/RH FEED,30/BX MK4Z1TP	60	0.07
CTG,30MM,LINKED,ALUM,M14,W/TP PGU-15/B PROJ, P/N 28113791-001F	111401	108.0047174
CARTRIDGE, 30 MILLIMETER	12803	27.68984773
CTG,30MM,M788,TP,LINK,ALUM CASE,LHF,W/DMY FZ 11825899	72	0.0405
CTG,30MM,M788,TP,LINK,ALUM CASE,RHF,W/DMY FZ 11825952,11825947	792	0.495
CARTRIDGE,30 MILLIMETER	2057	1.122
CARTRIDGE 30MM, HE DP M789	553	0.345625
DUMMY CARTRIDGE, 30MM	41	0.021347107
DUMMY CARTRIDGE,30MM,M848	258	0.170208333
CTG,40MM,HE,AP,M384/XM384E3,W/FZ PD,M533,LINK,M16A1 8886397	1200	0.828
DUMMY CTG,40MM,M385 OR M922,W/M169 CTG CASE 9275763	20928	17.37705
CTG,40MM,GREEN SMK,CANOPY,XM679 9235364,9209204I/P,9209205O/P	5148	2.68515
CTG,40MM,WHITE SMK,CANOPY,XM680 9235365,9209205O/P,9209204I/P	44	0.0225
CTG,40MM,RED SMK,CANOPY,XM682 9235963,9209204I/P,9209205O/P	88	0.045
CTG,40MM,PRAC,M385,LINK,F/GREN LAU XM129,W/M16A1 LINK 8886326	111	0.07659
CTG,40MM,GREEN STAR,PARA,F/LAU M79/M203 9255145-1,7553347O/P	124	0.064818182
CTG,40MM,RED STAR,PARA,M662,F/GREN LAU M79,M203 9255145-2	2830	1.415
CTG,40MM,RED SMK,GRND MRKR,M713 IMPACT FZ,F/LAUNCHER M79	30448	15.57
CTG,40MM,GREEN SMK GRND MRKR M715,W/M733 IMP FZ 9277715	9627	4.922897727
CTG,40MM,YELLOW SMK,GRND MRKR,M716,W/M733,IMPACT FZ 9277716	38699	19.78926136
CTG,40MM,PRAC M781,W/O TRACER F/GRENADE LAUNCHER M79,M203	174601	53.27111333
CTG,40MM,APER,XM576,XM576E1,F/GREN LAU M79 10542344,10542398	209584	77.13855556
CTG,40MM,WHITE STAR,PARA,M583A1,XM58E1,F/GREN LAU M79 9243881	1285	0.670029545
CARTRIDGE,40MM,WHITE STAR,CLUSTER,M585 F/LAUNCHER M79	1376	0.703636364
CTG,40MM,RIOT CNTRL CS,M674,XM674,W/FZ PIDT,F/LAU M79 122-3-101	4661	3.7006125
CTG,40MM,RED SMK,M675,XM675,W/FZ PIDT,F/LAU M79 122-3-119	5029	4.0860625
CARTRIDGE, 40 MM, HEDP M430	1226	0.780770833
CTG,40MM,HE-DP,M433/XM433E1,W/FZ PIBD M550,XM550E1 8886371	27032	9.949277778
CTG,40MM,AP,LOT PREFIX UC,PROJ M81A1,BR/STL CAS 75-1-140	68371	245.7082813
CTG,40MM,HEI-P-NP,LOT PREFIX UO,PROJ MK2,BR/STL CAS LD108941	166686	604.23675
CTG,40MM,HEI-SD,LOT PREFIX UK,F/40MM AA GUN WR-54/10A,394620	18512	66.5275
CTG,40MM,HEIT-NSD,LOT PREFIX UL,PROJ MK2,BR/STL CAS LD108941	805	2.89296875
CTG,40MM,HEIT-SD,LOT PREFIX UG,PROJ,MK2.BR/STL CAS 394620	12324	44.289375
CTG,40MM,HEIT-DI-SD,LOT PREFIX UM,PROJ,MK2,BR/STL CAS LD108941	289741	1041.256719
CTG,40MM,HE-P-NP,LOT PREFIX UN,PROJ,MK2,BR/STL CAS 394620	118102	424.4290625
CTG 40MM MK2	301	1.08171875
DUMMY,CARTRIDGE,40MM,MK3-0,W/DUMMY NOSE FUZE	11	0.0385
CTG,40MM,TRACER,TACTICAL,CS,M651/XM651E1,F/MK 79 GREN,LAUNCHER	1313	0.711208333
CTG,40MM,HE,M406/XM406,FZ-PD,M551,F/U/W/GREN LAUNCHER 89935950	1902	0.700041667
CTG,40MM,HE,M397,XM397E2,W/FZ,PD,M536,XM536 8883461	917	0.337506944
CTG., 40MM, PRACTICE, M385, LINKED W/M16A2 LINKS 8886326	3926	2.4845
CTG,40MM,PRAC,M407A1/M407E3,W/FZ,PD,M551,F/GREN LAU M79 8835952	35	0.012881944
CTG,40MM,TARGET PRACTICE,M918,LINKED W/M16A2 LINKS 9396209	272	0.170015625
LAU/CTG,35MM,E23,RIOT CNTRL CS,TACT E8 MIL-L-51350	10610	318.3
FIN, MORTAR, CTG, ALLUM ALLOY MODEL M27 F/60MM M720	31228	4.554083333
CARTRIDGE,IGNITIN,M702,LDG ASSY, NEW DESIGN	3622	0.3395625
CTG,IGN,M5A2,F/60MM,B626,B627,B628,B630,B632,B634 9242127	138580	6.347746667
FIN ASSY,60MM PROJ,M2,W/CTG,IGN,M5A1 PERC PRMR,M32 HOLD 75-2-285	11188	4.784342105
FIN ASSY 60MM M5 PROJ	90	14.4
CTG,60MM,ILL,M83A3,W/FZ,TIME,M56A1,F/MRTR,M2,M19 9207516,9242065	51	0.164
CTG,60MM,SMK,WP,M302A2,W/FZ,PD,M936,M181 PROP CHG 9215575	66189	226.2177014
CTG,60MM,HE,M49A4/M49A2E2,W/FZ,PD,M525 9220179,WR-51/136A	1676082	4592.799775
CTG,60MM,TP,M50A2E1,W/FZ,PD,M525,F/MRTR M2,M19 76-1-753,9220383	1012	6.140359848
PROJ 64MM RC M743	26688	11.676
CTG,60MM,HE,XM720,W/FZ.MULTI OPTION,XM734, 9275526	590	2.065
CTG,60MM,HE,M888 W/FUZE PD M935 9354430,9354440	34374	120.309
CTG,60MM,SMK,WP,XM722 W/FZ XM745 PD,M204 PROP CHG 12630533	796	2.786
CTG,60MM,ILLUM,XM721,W/FZ XM776,MTSQ,F/MORTAR M224 12630533	4509	15.7815
REPAIR KIT, CARTRIDGE 60MM	200	0.0125
SHIELD,RADIATION HAZZARD,F/20MM CT G,A/C 2164723	687222	12.3127275
FITTING,EXPLOSIVE,MK1-0,INERT LOADED F/NON-SERVICE MINE MK 25,36	9	0.0225
DRIVER,EXPLOSIVE MK 2-0 INERT LOADED F/NON-SERVICE MINE MK 57	25	0.0625
PROPELLANT ASSY, DUMMY F/NON-SERVICE MINE MK 57 TEST SET MK 127	19	0.0475
TIMING ELEMENT MK 1 MOD 0 ELECTROLYTIC	6889	0.516675
CIRUIT BREAKER,MK1-0,F/FIR MECH,MK 11-25 384407	335	2.26125
SHIPPING AND STORAGE CONTAINER,MK721 MOD0 F/STD ER MISSILE	104	14.144
SHIPPING/STORAGE CONTAINER,MK 722-MOD 0,F/GM BOOSTER	8	1.36
CONTAINER,FIBER M576,F/60MM CTG, PKG AS REQD 9220014	10827	5.4135
BOX,PACK WOOD,PRESERVED,F/12 FBR CNTRS M576,F/DODIC B632 9220015	1831	8.2395
HOLDER,INCR,PROPELLANT M1A1,F/60MM MRTR 9206823	146993	0.734965
INCREMENTS, PROP, CHARGE, XM181 F/60MM CTG P/N 9216090	815718	3.186398438
BOX,PACKING,WOOD F/FIBER CNTR M567,F/USE W/B630 9215576	3528	37.044
CNT., FIBER M567, F/B630 9215576	3876	3.3915
CONTAINER,FIBER,PA59,F/DODIC B632 MTL PACK 9254735	2379	1.389280888
FIN ASSY,60MM,M2,F/B627,630,632,634 9207612,75-2-285	14890	2.2335
INSTALLATION KIT,FUZE F/FMU-56/B	156	0.111428571
SAFETY BLOCK ASSEMBLY F/BDU-33D/B P/N 7926384	29931	19.15584
DRIVE ASSY,FUZE ATU35BB,BY29,69E30100	82740	41.37
CODE PLUG P/N 767049-1	16	0.328
METAL PARTS F/81MM MODEL M37441 (10543025)	1983	4.13125
CTG,IGN,M285,W/PRMR,M71A1,F/C236,56,76,W/FIN ASSY,M170 9240960	550117	12.14841708

CTG,IGNITION M66 F/DODIC,C226,FRMLYCX10-1315-NOO-0047-218	97294	6.271889583
TRACER, PROJECTILE M12 DERIVED FROM 105MM	1951	0.48775
FIN ASSY M158,F/81MM M301A3 DODIC C226 9221071	16629	4.15725
FIN ASSY,M170,F/81MM CTG,M374/M375,W/O IGN CTG INERT 10551892	371	0.216416667
FIN ASSY, 81MM CARTRIDGE M3, F/81MM TP, CTG M43A1	2721	3.154659375
FIN ASSY,F/81MM,CTG,M4A1	60	0.027
CHARGE,PROP,81MM,M185,PROP M9 LDD,F/C226 9220706	49152	31.1296
CHG,PROPELLING,INCR A,F/81MM CTG 9233369	72129	1.562795
CHARGE,PROP,INCR B,M90A1,F/CTG,81MM,W/FIN ASSY,M170 9233371	2228267	41.78000625
PLUG, NOSE, PROJECTILE ALUM, U/ON 81MM CTG M374	30	0.00615
CARTRIDGE, 75 MILLIMETER BLANK	1333	2.585
CTG. 75MM M48 2 P/B	622	8.2415
CHARGE, PROPELLING, 81MM X9313721	479561	21.76578943
REPAIR,KIT,CTG 81MM,25 KITS PER FIBERBOARD 7 4 FIBER PER WIREBD	151	0.134821429
CTG 75MM M349 HEP-T	486	7.776
CTG,76MM,MK199-1,HE IR,W/MK 404,IR FZ,MK 161, COMP A LDD	338	6.084
CARTRIDGE,76 MM, MK 200-1 F/ MK 75-1 COMP A-3	4	0.072
CARTRIDGE, 76MM, MK 201-MOD 1	3	0.054
OBTURATOR, 10534925	640874	6.40874
CTG,81MM,INERTLDD,PROJ M374A3,W/567,PD,FUZE & SPOTTER CHG.	2835	72.2925
CTG,3/50,VT,MK33 MODS,NONFLASH,FZ SD,MK72-2,4,6,8,W/ADF 515259	24	0.384
CTG,3/50,VT,MK33 MODS,NONFLASH,FZ NSD,MK72-1,W/ADF,MTL TK 515259	1168	18.688
CTG,3/50,AP,MK29 MODS,FLASH,W/BDF,M66,IN MTL TNK,RF 1380749	3	0.048
CTG,3/50,VT,MK33 MODS,W/PD FEATURE,FLASH,FZ NSD,W/BSTR 515259	43	0.688
CARTRIDGE, 3IN 50 CAL MK33 ALL MODS, NON FLASH	1786	28.576
CTG,3/50,VT,W/PD FEATURE,MK33 MODS,FLASH,FZ SD,MK72-10,12 515259	4667	74.672
CTG,3/50,VT,MK33 MODS,NONFLASH,FZ SD,MK72-10,12,W/BSTR 515259	6860	109.76
CTG,3/50,VT,NONFRAG,MK33 MODS,GRAY,NONFLASH,W/SDF,ADF 515259	1946	31.136
CTG,3/50,VT,NONFRAG,MK33 MODS,GRAY,NONFLASH,FZ NSD 515259	1551	26.71816981
CTG,3/50,ILL,MK25 MODS,FLASH,FZ MT,MK51,MTL TNK,RF LD288687	33	0.528
CTG,3/50,BL-P,MK27-1,NON-FLASH,IN MTL TNK. RF 1350962, 2839139	475	7.6
CTG,3/50,BL-P,MK188-0,FLASH,IN MTL TK,RF 1350962,2838949,WR-54/1	165	2.64
DUMMY CTG,3/50,M15B1,W/INERT TSQ FUZE,M54 72-3-80B	4161	66.576
CARTRIDGE, 3 INCH 50	1	0.0055
CHG,PROP,CLEAR,3/50,NONFLASH,IN TANK,F/RF GUN 329507,WR-54/265	91	0.728
FIN,MORTAR CARTRIDG	125903	304.2655833
CTG,3/50,VT,MK31 MODS,NONFLASH,W/NSP,IN MTL TNK,SF 515258	2941	47.056
CTG,3/50,VT,MK31 MODS,NONFLASH,FZ SD,MK72-2,6,8,W/ADF,SF 515258	4376	70.016
CTG,3/50,VT,MK31 MODS,NONFLASH,FZ NSD,MK72-3,5,7,9,W/ADF 515258	1425	22.8
CTG,3/50,AP,MK29 MODS,NONFLASH,FZ BD,M66,MTL TNK,SF 1380749	65	1.04
CTG,3/50,AP,MK29 MODS,NONFLASH,FZ BD,M66,MTL TNK,SF 1380749	329	5.264
CTG,3/50,HC,MK27 MODS,NONFLASH,FZ PD,MK30,W/ADF,MTL TNK 1350962	176	2.816
CTG,81MM,HE,M362A1,W/FZ,PD,M524A4/E6,F/MRTR M1,M29 8838144	10220	86.87
CTG 81MM M362 HE 3/B	912	7.752
CARTRIDGE, 81MM, M43A1/A1/B1	6473	40.45625
CTG,81MM,ILL,M301A3/A2E1,W/FZ,TIM,M84A1/E1,F/MRTR M1,M29 9220705	3	0.0265
CTG,81MM,TP,M43A1,W/FZ PD,M525,F/MRTR M1,M29 75-1-89,WR-55/31	9758	60.134625
PROJECTILE M68 12 P/B	19	0.043541667
CARTRIDGE,81 MILLIM	1	0.009833333
CTG,81MM,HE,M374A2,COMP B,W/CHG M90A1,IGN CTG,M285 9251986	180767	1532.681583
FIN, MORTAR CARTRIDGE, W/O ACCESSORIES, U/W TRAINING M68	3385	2.031
CTG IGN M6	51638	0.77457
CTG,IGNITION,M3,F/MORTAR CTG,M68,TRAINING 75-19-76	89	0.003738
CTG,IGNITION,M2A2,4.2IN,CTG,M328A1 M329A1,M329A2,M335A1, 9252205	32137	0.803425
CTG,81MM,WINDOW,MK115-0,W/FZ TIME,M84,F/MRTR LD625131,2615070	2113	19.36916667
CTG,81MM,HE,M374A2/E5,COMP B,PDF M524A6/A5E2,PERC PRMR 8881026	421180	3541.595
CARTRIDGE 90 MILLIMETER	120	4.2
CARTRIDGE, 90 MILLIMETER BLANK	1	0.0065625
CTG,81MM,SMK,WP,M375,W/PDF,M524A6/A5E 8885264	5078	43.65466667
CARTRIDGE,90 MILLIMETER	68	0.2044375
CTG,3/50,HC,MK27 MODS,FLASH,FZ PD,MK30,W/ADF,IN MTL TK 1350962	697	11.152
CTG,3/50,AA,MK27 MODS,NONFLASH,FZ MT,W/ADF,IN MTL TK,SF 1350962	1174	18.784
CTG,3/50,AA,MK27 MODS,FLASH,FZ MT,W/ADF,IN MTL TNK,SF 1350962	930	14.8285
CTG,3/50,ILL,MK25 MODS,FLASH,W/MTF,MK51 LD288687,1380743,WR-54/1	426	6.816
CTG,3/50,HE-IR,MK175-0,NONFLASH,COMP A-3 LDD,W/FZ,BSTR,RF 515259	12217	195.472
CTG,3/50,HE-IR,MK33 MODS,COMP A-3 LDD,W/FZ,BSTR,W/O LNR 515259	5610	89.76
CTG,3/50,VT,NONFRAG,MK31 MODS,GRAY,NONFLASH,FZ SD,W/ADF 515258	1861	29.776
CTG,3/50,HE-IR,MK31 MODS,NONFLASH,FZ,MK92-1,COMP A-3 515259-3	1216	19.456
CTG,3/50,HE-IR,MK31 MODS,FLASH,FZ,MK92-1,COMP A-3 LDD 515259-4	2229	35.664
CTG,3/50,BL-P,MK29 MODS,FLASH,IN MTL TNK,SF 1380749,1380866	184	2.926
CTG,3/50,HC,MK33 MODS,FLASH,FZ PD,MK30,W/ADF,IN MTL TK 515259	3852	61.632
CTG,3/50,HC,MK33 MODS,NONFLASH,FZ PD MK30,W/ADF,IN MTL TK 515259	4118	65.888
CTG,3/50,HE-PD,NONFLASH,SF,C/O C205,PDF MK30-3/5,ADF 3188932	2	0.032
CTG,3/50,VT,MK31 MODS,FLASH,W/NSP,IN MTL TNK,SF 515258,WR-54/1	274	4.384
CTG,3/50,VT,MK31 MODS,FLASH,FZ SD,MK72-10,W/BSTR,MTL TNK 515258	613	9.808
CTG,3/50,VT,MK31 MODS,NONFLASH,FZ NSD,MK72-3,7,9,W/ADF,MTL515258	358	5.728
DMY CTG,3/50,MK5-0,W/SOLID NOS,WOOD BODY,F/GUN DRL SF MNT 236389	112	1.7915
DUMMY CARTRIDGE,3 I	9	0.144
DUMMY CARTRIDGE 3IN50 CAL FUZE W/O FZ CTG MK 9-2	4	0.062
CTG,3/50,VT,NONFRAG,MK36-0,YELLOW,NONFLASH,SDF,MK72-10,2 1331923	285	4.56
CTG,3/50,VT,NONFRAG,MK36-0,YELLOW,NONFLASH,NDF,MK72-11,3 1331923	53	0.848

CTG,120 MILLIMETER, HE, M934	506	3.795
CTG,120MM,APFSDS-T,M829A1,F/CANNON M256 (DEPLETED URAN)	64123	2180.182
CARTRIDGE, 84MILLIMETER	66	0.4972
CANISTER,SMK,M1,HC SMK,WHITE,U/W/CTG,105MM,M84A1 C18-64-1543	48	0.055
CARTRIDGE, 90MM CANISTER APERS XM590E1	66	0.319
TRACER, M5A2B1, DERIVED FROM 90MM BREAKDOWN (CLIN 0202AQ)	22240	1.297333333
CARTRIDGE,105 MILLI	6509	153.6290897
CARTRIDGE,105 MILLI	2964	76
CHG,PROP ASSY,SILK BAG,M6 TYP,GRADE E SILK,1 PC SLV 71-9-269	14736	35.612
CHG,PROP,105MM,FLASH,BAGGED,7 SECTIONS 9205472	505718	786.4888095
CTG,105MM,BLANK,M395,STL CAS,F/HOW M2A1,A2,M4,A1,M49 7549251	22	0.1056
CTG,105MM,HE,M1,COMP B,STL CAS SPRLRAP,DUALGRAN,W/O FZ 75-1-185	552991	15717.88
CTG,105MM,ILL,M314A3/A2E1,STL CASE,SPIRAL WRPPD,DUAL GRAIN W/FZ	627	18.81
CTG,105MM,SMK,GREEN,BE,M84/B1,DUALGRAN,BR CASE,FZ MTSQ 75-1-189	2	0.06
CTG,105MM,SMK,RED,BE,M84/B1,STL CAS,DUALGRAN,FZ MTSQ 75-1-189	23	0.69
CTG 105MM SMOKE WP M60A2	54	1.653
CTG,105MM,M1,STL CAS,EMPTY PROJ,W/FZ PD,M48 TO DELETE SEP84	450	12.375
CTG,105MM,APERS,HE,ICM M444/T378,STL,CAS,FZ MTSQ,M548 8864930	29776	893.28
CTG,105MM,XM548,HE,COMP B,DUALGRAN,STL CAS,F/HOW M101,2 9212376	10766	328.363
CTG,105MM,CS M629,STL CASE,W/FZ,92 20225,7549072O/P,76-1-1135IP	28	0.84
CARTRIDGE 105MM: HIGH EXPLOSIVE M760	30669	920.07
CTG,105MM,SMK,WP,M60A2,E3,DUALGRAN,STL CAS,W/O PDF 9257991	32310	969.3
CTG,105MM,STL,CTG,CS,M84A1 W/O FZ SMK HC FILLER M103,M137 M2A2	374	11.22
CARTRIDGE, 81 MILLIMETER, MTR II M816/XM861	14	0.134166667
CARTRIDGE,105MM,M728, F/GUN CANNON M68	121	3.8115
CTG 105 MM HEP-T M326 W/FZ M91 COMP	149	4.768
CTG,105MM,TP-T,M393A1,INERT LDD PROJ,W/O FZ,F/GUN M68 8853738	240	8.22
CARTRIDGE,105MM,ARMOR PIERCING F/GUN M68	1611	50.7465
CTG,105MM,HEAT-MP,M456A2/A1E1,W/FFAIS;FZ,PIBD,M509A2 9276311	23199	756.03675
CTG,105MM,M490,BOX/WOOD,TP-T F/GUN CANNON M68	1463	48.17182051
CTG,105MM,WP-T,M416,BRASS CTG CASE,TRACER CTG,BASE DET FZ	118	2.82011
CTG,105MM,APERS-T/BEEHIVE,W/BLK SMK MRKR XM546,W/FZ MT LD9211669	23	0.7015
CTG,105MM,STL,CS,HE,PLASTIC,MODEL NO M393A2 FZ M578 8886470	6140	225.645
CARTRIDGE 105MM	6853	239.855
CTG,105MM,TPDS-T,M724A1,STL CAS,SIMULATE APDS-T,M728 9278500REVC	3630	96.195
CART 105MM M735	53	1.643
CTG 105MM APFSDS-T,M774,W/M13 TRACER,W/M120,PRMR,(#DEPLETED URAN	14962	463.822
CARTRIDGE,105MM,APFSDS-T,M900,DOT-E 969,IN PA 117 CONTR	41185	1182.0095
CTG,105 MILLIMETER,M913,HERA,IN PA117	669	14.868525
CARTRIDGE, 4.2 INCH, DUMMY, F/M30	6	0.0945
CARTRIDGE, 90 MM CANISTER	4339	277.696
CARTRIDGE,120 MILLIMETER	401	0.802
CTG 120MM WP M929 W/FUZE,MO M734 IN PA154,MTL CT	111	0.07659
CTG,106MM,M346A1,HEP-T,COMP A-3,FZ BD,M91A2,F/RFL M40A1 8837335	32050	1071.988
DMY CTG,106MM,M368,F/RIFLE M40A1/M40A1C 8596153	4	0.127
CTG,106MM,XM581,APERS-T,FRAG,FLASH,FZ MT,XM592E1,F/M40A1 9210603	65	2.1775
CTG,4.2 IN.,HE,M329A2,W/SCRUBBER OBTURATOR 9391039,9235654REVF	22222	349.9965
CARTRIDGE,4.2IN,HE M329 SERIES W/PD FUZE	1048	21.15625
CARTRIDGE, 4.2 INCH	323	3.214475
CTG,4.2IN,ILL,M335A2,W/FZ MT,M565,IGN CTG,M2A1E1,F/M30 8886595	2368	49.087
CTG,4.2IN,SMK,M328A1,WP LDD,W/PDF,M48A3 8797829	4002	83.718
CHG,PROPELLING,4.2INCH,MODEL M36A2 (1 CHG = 15 SHEETS)	5757	2.3028
BURSTER,PROJECTILE,M35,ALUM,COMP 4	97	0.0291
CARTRIDGE, 120 MILLIMETER/CANNON M256 INERT PROJECTILE	3250	122.3816
CTG 120MM TPCSDS-T	8	0.252
CTG 120MM APFSDS-T (#DEPLETED URANIUM#)	332	10.458
CARTRIDGE, 120 MM, HEAT-MP-T-M830	29	1.0933
CTG,81MM,HE,COMP B,M821,W/FZ,MULTI OPTION,M734 9354443,9362917	5130	48.735
CTG,81MM,HE CTG,MOD NO M889,PDF,DSGN F/MORTAR 81MM M252 9362922	5097	48.4017
CARTRIDGE 81MM: SMOKE RP M819	1113	11.65966667
CARTRIDGE,81 MILLIM	2100	20.0345
CHG,PROP,F/U/W/CTG,4.2IN,M328A1,M329A1,M335A2 8863617-2	295	0.116033333
CARTRIDGE, 81MM M879 JUNGLE WRAP	72847	727.2529167
CARTRIDGE,81MM,PRACTICE,SHORT RANGE, M880	1	0.0048125
IGNITION,CTG,PRMR INCL,MODEL M299,F	19773	2.729085938
LAU/CTG,84MM,M136,F/AT-4 13229861	282	4.23
CARTRIDGE, 120 MILLIMETER, M929	228	0.5529
CARTRIDGE,120 MILLIMETER,M931 F/MORTARS M120/M121	209	4.598
KIT,MODIFICATION,DESTRUCTOR,MK75-5,	6	0.007275
CONTROL UNIT,DEPTH MK 78-1,F/MINE MK 57 F/NON-SERVICE MINE PROG	6	0.0165
CARTRIDGE,4.4 INCH CHAFF,MK171-0,T YPE 3 F/RBOC P/N2513809-3	45	0.18
CTG,4.4IN,CHAFF,MK171-0,TYP 4,F/RBOC 2513809-4	297	2.0295
CTG,4.4IN,PRAC,MK178-0,F/RBOC 3192251	531	3.0975
FITTING,EXPLOSIVE,MK9-0,NS,F/MN,MK57,OA-04K LAYING DMY 3261531	85	0.070125
PISTON,EXPLOSIVE LDD,NON-SERVICE F/MN MK57 OA-04K 3261571	75	0.028125
CABLE CUTTER (EXERCISE) MK 27 MOD 1 MNS	2	0.061
SHIPPING AND STORAGE CONTAINER, MK 771-MOD 0	57	0.855
CHAMBER AND VALVE (NALC CWFA) MK 5-3	1	0.037675
EXPLO,SECT,DESTRUCTOR,MK14-MOD1,F/MINE NEUTRALIZATION NALC CWGS	726	39.567
EXPENDABLE,MOBILE,ASW,TRAINING TARGET,MK 39-1	4	0.076
RELEASE CABLE GRIPPING MK 53-0 USED	1	0.029

COVER PROTECTIVE MK24-0. A HIGH DENSITY POLYETHYLENE SQ COVER	15825	35.60625
CANISTER,F/ENVOLVED SEA SPARROW MK 25-0	3	0
CNTR,AMMO,M251,F/4.2IN CTG,81400N0551166000 76-1-1353,7549247	16624	24.936
CASE,CTG,M14B1,STL,1 PC,F/CTG,105MM 7548025	6676	20.27835
PLUG,CLOSING,ALUM,ALLOY,U/ON 4.2IN & 81MM 7549009	25589	0.25589
PLATE,PRESSURE,F/81MM CTGS,FRMRLY 1315N0106206605 9218640	74385	0.371925
HOLDER,INCR,FRONT,F/81MM MRTR CTG 7549026	8364	0.4182
STOP,PACK,HEAD,STL,F/CTG,105MM 9243287	7049	2.46715
CONTAINER,AMMO,FIBER,M105A3,W/HARD SUPPORT,PACK STOP 7549073	46096	138.288
CHG,PROPELLANT A,F/CTG,81MM,HE,M374,PKG AS REQD 8881021	275770	8.6178125
CHARGE,PROPELLANT B,F/CTG 81MM HE M374 8881023	1462492	58.49968
HOLDER,INCREMENT AS	750	0.00375
BOX,PACK,WOOD,P,F/F TYP M252A3/FF TYP M252A4 CNTR,F/81MM 9230176	7245	86.94
PROPELLANT, POWDER M26 F/106MM CARTRIDGE	120823	68.64943182
TUBE,PROTECT,H1 DENSITY POLY,F/105MM HOW PROPELLANT 7549073-ALT2	101520	6.5988
PROPELLANT,M1,F/DODICS C258,C280 8858640	19538	12.82995333
INITIATOR,BURSTER,M13,U/ON CTG,SMOKE, M328A1,M328B1 P/N 8797844	21	0.00273
CONTAINER,FIBER,M252A5,F/CTG,81MM,DODIC C256,C276 9276596REV F	72646	71.95225
BOX,PACK METAL,MK2-0 982439	1139	11.39
CONTAINER,FIBER,PA43,F/DODIC,C226 9241848,9241849	1164	4.656
BOX,PKG,WDN,F/FBR CNTR,PA43,F/81MM CTG 9241849	2294	18.352
WATER, INTRUSION FIX KIT, USAF	4317	1.93365625
LANYARD LOCK ASSY FMU-26/B	195	0.039975
EXTRACTOR (SWIVEL & LOOP) ASSY,FOR CBU-87 & CBU-89 P/N 777176-10	8199	0.08199
EXTRACTOR ASSY,ARM&OPTION,CBU89/B PN785038-10	9378	0.09378
BOMB,DURANDOL,BLU 107-2/B (AIR FORCE)	1	0.2125
FIRING DEVICE BATTE CONTAINS FIRING PIN AND LANYARD	1200	1.8
CHARGE,SPOTTING,PROJECTILE M509,F/DODICS D563,D651 9272016	888	0.24975
PLUG,LIFTING,TYPE G,FORGED,F/DODICS D505,6,11,28,42,4,8 10520074	49095	36.82125
CHG,EXPEL,2.5OZ BLK PWR,F/5/38,5/54 ILLUM & CHAFF PROJ 1129281	4678	0.4385625
CHARGE,EXPELLING,F/PROJ,155MM,ILLUM,M485 9214600	58799	16.99658594
CHARGE,EXPEL,2OZ BLK PWR,F/5/38,5/54 WP PROJ 344634-7	8753	0.5470625
LINEAR CAVITY MK 1-MOD0 U/ON 5IN 38 CALIBER	10613	0.265325
LINER, CARTRIDGE, MK 2-0	593	0.019457813
OBTURATOR,F/M549 9235994	7810	7.81
PROJ,5/38,AAC,MK52 MODS,MTF,ADF,BDF,EXP D LDD LD289027,1380992	7	0.2209375
PROJ,5/38,TP,SP,MK52-0,W/MTF,ADF,LNR,SMK REACTANT UNIT DL2838551	271	8.5534375
PROJ,5/38,HE-CVT,MK66-0,CVT FZ,ADF,LNR,COMP A-3 LDD DL2838435	1	0.0315625
PROJ,5/38,VT,MK35,47,49 MODS,FZ SD,BSTR,LNR,BFHP,COMP A-3 513853	9	0.2840625
PROJ,5/38,VT,MK51-0,NSD FZ,BSTR,LNR,COMP A-3 LDD DL2838429	2	0.063125
PROJ,5/38,AAC,MK52-0,MTF,ADF,BDF,EXP D LDD DL2838390,2838390,-1	43	1.3571875
PROJ, 5"38 VT,MK 35-5,SD,A>DF,W/FUZE AACOMMON COMP A-3	17	0.522697917
PROJ,5/38,HC,MK52-0,PDF,ADF,BDF,COMP A-3 LDD DL2838381,WR-52/13	869	27.4278125
PROJ,5/38,COMMON,MK38,46 MODS,BDF,BLUE DYE,EXP D LDD LD288690	1891	57.3209375
PROJ,5/38,HE-PD,MK35,47,49 MODS,AX BSR,ADF,LNR,BFHP,COMP A-3	127	4.0084375
PROJ,5/38,HE-MTF,MK35,47,49 MODS,MTF,ADF,BFHP,COMP A-3 513853	13	0.4103125
PROJ,5/38,HC,MK52-0,W/DNP,ADF,MK52-3,BDF,COMP A-3 LDD LD289027	58	1.758125
PROJ,5/38,ILL,MK50 MODS,MTF MK61 MODS,BLK PDR EXP CHG LD615136	654	20.551875
PROJ,5/38,HE-PD,MK51-0,PDF,MK29-3/5,ADF,MK54-2,COMP A3 DL2838432	17	0.53375
PROJ,5/38,SMK,WP,MK30,44,50 MODS,PDF,MK29,66 MODS,M5 CNR 2141495	3174	99.9945
PROJ,5/38,SMK,WP,MK30,44,50 MODS,MTF,MK50,349 MODS,M5 CN 2141495	276	8.36625
PROJ,5/38,VT,NONFRAG,MK52-0,SDF,ADF,LNR,BFHP,GRAY WR-52/13	572	18.0859375
PROJ,5/38,VT,NONFRAG,MK52-0,NSDF,ADF,LNR,BFHP,GRAY WR-54/4-2	692	21.84125
PROJ,5/38,ILL,MK30,44 MODS,MTF MK50 MODS,BLK PDR EXP CG LD288799	522	16.47561458
PROJECTILE,5IN38CALIBER,HE-CNT RKT ASSIST MK 57	48	1.58
CHG,PROP,5/38,FULL,CAS MK10-0,1,PRMR,CORK PLG,UNIVERSAL 2847234	24	0.444
PROJ,5/38,BL-P,MK38,46 MODS,INERT LDD WR-52/13,WR-54/4-2	47	1.4246875
PROJ. SUBASSEMBLY 6 IN. AAC/HC MK34 MODS LD265574 514286	2684	147.5305333
PROJ SUBASSY,6IN,AAC/HC,MK34 MODS,W/NSP/DNP,W/W/O ADF 514286	59	3.21845
PROJ,8IN,AP,MK20 MODS,W/BDF,MK10 MODS 294262	490	88.48583333
CHG,PROP,5/38,FULL,PRMR,POLY PLG,NONFLASH,CAS,MK10-0,1 2847233	80138	1482.553
CHG,PROP,5/38,FULL,FLASH,W/FLASH SUPSNT BGS,PRMR,POLY PG 2847233	11635	215.2475
PROJ,5/38,HE-IR,MK119-0,IR FZ,BSTR,LNR,COMP A-3 LDD 2839256-2	236	7.44875
PROJ,5/38,SMK,WP,MK50 MODS,MTF MK61 MODS,M5 CNSTR,M30 CG 2141495	53	1.6728125
CHARGE,PROPELLING,5	740	9.99
PROJ,5/38,CHAFF,MK44,50 MODS,MTF,BLK PDR EXPEL CHG,TYP A T30282	55	1.6671875
PROJ,5/38,CHAFF,MK44,50 MODS,MTF,BL PDR EXP CHG,X BAND LD615137	2561	80.78766667
PROJ,5/38,MK51-0,HE-CUT,FZ/ADAP ASSY,CVT FZ,ADF,LNR,A3 WR-52/13	88	2.6995625
PROJ,SUBASSY F/5/38 CAL,HE-MT/PD	7	0.2209375
PROJ,5/54,HE-CVT,MK64-0,W/CVT FZ,M514A1,2,3,ADF,COMP A3 WR-52/15	76	1.528225
CTG,5/54,BLANK,SALUT,MK6-0,W/PRMR,MK27-0 562304	98	0.931
PROJ,5/54,CHAFF,MK48-1,MTF,ADF,BLK PDR EXPEL CHG,TYP C DL T30284	69	2.60690625
PROJ,5/54,CHAFF,MK48-1,MTF,ADF,BLK PDR EXPEL CHG,TYP B DL T30283	119	4.62434375
PROJ,5/54,SMK,WP,MK48-1,MTF,BLK PDR EXP CHG,ADF,COMP A LD289028	16	0.6205
PROJ,5/54,VT,MK41-0,SD FZ,MK73-2,4,COMP A-3 LDD DL2838397	13	0.502125
PROJ,5/54,VT,MK41-0,NSD FZ,MK73-3,5,COMP A-3 LDD DL2838397	26	1.0083125
PROJ,5/54,AAC,MK41-0,MTF,ADF,BDF,EXP D LDD DL2838384,2838384-2	59	2.284260417
PROJ,5/54,HC,MK41-0,PDF,ADF,BDF,COMP A-3 LDD LD265507,515207	102	3.9556875
PROJ,5/54,COMMON,MK42 MODS,W/BDF,MK64-0,2,GREEN,EXP D LD288691	7	0.26446875
CHG,PROP,5/54,FULL,STL CAS,PRMR,CORK PLUG,UNIVERSAL 982535	17	0.3315
PROJECTILE, RKT. ASSTD, 5 IN	48	0.034595

PROJECTILE,5 INCH 54 CALIBER,MK107 MOD1	7	0.27146875
PROJECTILE, 5IN/54CALIBER	8	0.0480125
PROJECTILE,5 INCH 54 CALIBER	65	2.52078125
PROJ,5/54,VT,MK64-0,NSD FZ MK73-11,BSTR,LNR,COMP A3 DL2838593	44	1.706375
PROJ,5/54,VT,NONFRAG,MK41-0,W/FZ SD,LNR,BFHP,GRAY LD265505	31	1.20221875
PROJ,5/54,VT,NONFRAG,MK41-0,NSD FZ,LNR,BFHP,GRAY,CL BRS LD265505	11	0.424875
PROJECTILE, DUMMY, 5 IN 54 CAL, MK 6 -1, INERT	4	0.151125
PROJECTILE,5IN54CALIBER HE-MT/PD MK 115	60	2.326875
PROJ,5/54,MK82-0,MTPD FZ,MK393-0, PBXN-106 LDD 2838786	54	2.043
PROJ,5/54,BL-P,MK92-1,BDY MK64-0/1,NFA,DNP,INERT LDD WR-52/15	13	0.49115625
PROJ,5/54,HE-CVT,MK41-0,CVT FZ,ADF,LNR,BFHP,COMP A3 LD DL2838399	335	12.99171875
PROJ,5/54,ILL,MK48-1,MTF,ADF,BLK PDR EXP CHG,LOAD MK4-7 LD288810	21	0.81440625
DMY PROP CHG,5/38,MK5-0 161063	10	0.165
CHG. PROP 175MM M86A2	10394	498.912
CHARGE, PROPELLING, 6 IN 47 CALIBER,FULL,BRASS CASE MK 4-0	4	0.167
CTG,152MM,TP-T,M411A3 UW/ALTERNATE M411A1 F/GUN M81 AND M162	137	6.6445
PROJ,6IN,AP,MK35 MODS EXCP 8,BDF,GREEN DYE,EXP D LDD LD288692	58074	3981.963067
PROJ,6IN,SUBASSY,AAC/HC,MK34 MODS,W/NSP;ADF,MK54-0 LD265574	8	0.439733333
PROJ,6IN,HC,MK34 MODS,PDF,ADF,LP BDF/BFHP,EXP D LDD LD265574	17301	991.924
PROJ,6IN,HC,MK34 MODS,PDF,ADF,BDF,EXP D LDD LD265574,514286	133	7.625333333
PROJ,6IN,NONFRAG,MK39 MODS,PF,DNP,CLR BRST,GRAY,LNR,BFHP 515247	25	1.433333333
PROJ,6IN,HE,MK39-0,PROX FZ,MK74-0,W/BSTR,MK44-1,EXP D LDD 515215	414	23.736
PROJ,6IN,HE,MK39 MODS,PROX FZ,W/NSP,LNR,BFHP,EXPL D, 515215	145	8.313333333
CANISTER, SMOKE	25000	12.5
CANISTER,SMOKE,155MM, SHELL, HC,M2	90728	0
REDUCER, FLASH, PROPELLING CHARGE	104240	74.271
PROJECTILE,155MM,HE,M692	4296	237.891
PROJECTILE,155MM,HE,M731	11996	664.2785
PROJECTILE 155MM M718	11953	658.909125
PROJ,155MM,ILL,M485A2,W/O BRSTR/FZ/SUPPL CHG,F/HOW M1/A1 9214150	4100	238.881875
PROJ,155MM,AT,M741,W/O FZ,W/M73 ANTI-TANK MN,RAAMS-A,M741	38048	2097.396
PROJ 155MM HEAT M712 CANNON LAUNCHED GUIDED	699	71.997
PROJ,155MM,COPPERHEAD TRAINING,M823 9300440 I/P,9329721	16	1.620666667
PROJECTILE, 155MM, ATM, M741A1	7385	407.098125
PROJECTILE 155MM, AT, M718A1	5368	295.911
PROJ,155MM,SMOKE,WP,M825,SCREENING 7549275 PLT,15-12-332	18932	1043.6265
CHARGE, PROPELLING, 155MM M203A1, MOLDED BODY,CHG 8	11197	300.415
CHG,PROPELLING M119A2,F/155MM 9333954	850598	18075.2075
CHARGE, PROPELLING, 175MM,GB, M124 W/PRIMER	7004	141.2473333
DUMMY PROPELLING CHARGE,155 MILL	576	1.116
CHG,PROP,155MM,M3A1/E1,GREEN BAG,W/O MK2A4 PRMR 8887277	8658	62.7705
CHG,PROP,155MM,M4A2,WHITE BAG,W/O PRMR,F/HOW M1,M1A1,M45 9207624	101	1.54025
PROJ,155MM,HE,M107 COMP B,W/SUPPLY CHARGE,W/O FUZE 9216352	336	16.7382
PROJECTILE, 155MM,M118, ILLUMINATING	32	1.724
PROJ,155MM,HC,SMK,BE,M116B1/E1,W/O FZ,F/HOW M114A,M109A1 9227998	1	0.0454375
PROJ,155MM,M116B1,SMK,RED,W/O FZ,NSP,COLOR BURST,F/HOW 9227998	144	6.543
PROJECTILE, 155MM, SMOKE WP MODEL # M110A2 W/O FUZE	296	15.355
REDUCER FLASH CHG M2	12441	0.559845
DUMMY PROJECTILE,155 MILLIMETER	1504	79.712
PROJECTILE,155 MILLIMETER	25	1.2390625
PROJ,155MM,HE,DP,ICM,COMP A5,M483A1, 9215220,8839839PLT	827617	45208.57863
CTG,165MM,STL CTG CASE HE PLASTIC CTG P87701 8845042	3009	141.423
PROJ,155MM,HE RA,TNT LDD,M549A1 W/SUPPLY CHG W/O FZ 9235999-1	36544	1872.88
PROJ,6IN,VT,NONFRAG,MK34 MODS,FZ SD,BSTE,CLR BRST,RED LD265574	415	23.79333333
PROJ,6IN,VT,NONFRAG,MK34 MODS,NSP,LNR,BFHP,GRAY,CLR BRST 515237	1	0.069
PROJ,6IN,VT,MK34 MODS,NSP,LNR,BFHP,EXP D LDD LD265574,514284	19	1.089333333
CTG,165MM,TP,M623,STEEL CTG CASE,TARGET PRAC CTG MODEL #XM623	928	43.616
CHG,PROP,8/55,FULL,BR CAS,PRMR,PLAS PLG,NONFLASH,RF 515260	15	1.2975
CHG,PROP,8/55,REDUCED,BR CAS MK1-0,PRMR,POLY PLG,NOFLASH 2435092	48	3.447
CHG,PROP,8/55,REDUCED,BR CAS,PRMR,POLY PLG,FLASH 2435092	47	3.478
CHG,PROP,8/55,FULL,BAG,FLASH,#2 HALF,W/O BOR WR REDUC 72226LINE7	6	0.219
CHG,PROP,8/55,FULL,BAGGED,FLASH,#1 HALF,W/BOR WR REDC 72226LINE7	35	1.2775
CHG,PROP,8/55,CLEAR,BR CAS,PRMR,MK35-1,PLAS PLG,FLASH 515262	28	1.694
PROJ SUBASSY,8IN,AP,MK21 MODS,W/O BDF/DYE,STAK/UNSTAK 1380824	142	25.32333333
PROJ,8IN,HC SPEC,MK24,25 MODS,W/O NF,W/ADF,BDF,EXP D LD LD288702	788	109.18725
PROJ,8IN,HC,MK24,25 MODS,PDF,ADF,BP/LP BDF,EXP D LDD LD288702	741	102.6748125
PROJ,8IN,HC,MK24,25 MODS,W/O NF,W/ADF,BDF,EXP D LD288702,1380887	13133	1819.741313
PROJ SUBASSY,8IN,AP,MK19 MODS,W/O BDF/DYE,STAKE/UNSTAKE 38533	1035	186.90375
PROJ,8IN,HC,MK24,25 MODS,W/PDF,ADF,BDF,EXP D LD288702,1380887	665	92.1440625
PROJECTILE SUBASSEM	1263	174.3946875
PROJECTILE 8INCH BL-P/T, MK 22 ALL MODS	153	27.667755
PROJ 8 IN HE M509	32861	3431.236083
DUMMY PROJECTILE, 8"	3	0.54175
CHG PROP 8IN M188 M110A1	953	35.7375
CHARGE, PROPELLING 8 IN, M188A1 IN PA92 CNTR	150072	5570.577
CHG.PROP.8IN.M1.GRN BAG.W/O PERC PRMR.MK2A4	8110	125.705
CHG,PROP,8IN,M2,WHITE BAG,W/O PERC PRMR,MK2A4 71-9-169	185360	4832.462
REDUCER,FLASH,PROP CHG,M3,F/8IN HOW M2,M2A1,M47 8881016	25101	25.101
PROJ 8IN HE SPOTTING,M424/T347,W/FZ,MT,TRITONAL LDD	346	59.788
PROJECTILE,8 INCH,MODEL #M404	767	80.08758333
CHG,PROP,16/50,FULL,BAGGED,NONFLASH,3SECT/TANK 72226LINE14	1	0.205

DMY PROP CHG,16IN,MK2-0,3 SECTIONS 8-Z-867	20	4.32
CHG,PROP,16/50,REDUCED,BAGGED,FLASH,3SECT/TNK 72226LINE 14	72	7.668
PROJ,SUBASSSY;F/16IN/AP,MK 8 MOD 6 THRU 8	45	62.81925
PROJECTILE, 155 MILLIMETER	26494	1464.51525
PROJECTILE,155MM,BLIND LOADED,MODEL PXR6325 (M549) INERT	3445	171.6040625
PROJECTILE SUBASSEMBLY F/16 INCH, AP, M8, MOD 1 THRU 5	2784	3888.51
PROJECTILE,16 INCH	8	8.286
PROJECTILE SUBASSY 16" HC MK13	126	130.599
PROJECTILE,16 INCH	1	1.03575
PROJ,16IN,HC,MK13 MODS,PDF,RFM ADF,BDF,EXP D LDD ADL5354053	2084	2158.503
WARHEAD, 5 INCH HE MK 25-1	57	0.140125
CTG,EXPLO,MK174-0,F/AMS,MK61-1 THRU6 P/N 2880526	960	32.64
CASE,CTG,5/38,TEST,MK5-0,BRASS,W/PRIMER HOLDER 179889	5	0.04375
IGNITION & SEPARATION,ASSY,INERRT-OPERABLE,TYPE MK 3-2	1	0.0215
CONTAINER,MK617-0,F/1 WING,FIN,F/WALLEYE II,ERDL 1056AS100	6	0.255
DETONATOR ASSY,F/MINE SWEEP CABLE CUTTER,MK13-1 1390996,9254677	1283	0.160375
CONTROL UNIT STEERING, MK 118-3,4,W/RKT MTR SPACER MK 4-0 RIM67A	158	8.058
KIT,EXPENDABLE,PARTS F/EXERCISE HEAD MK86-1,USED ON TORP MK37	16	2.4
SPACER, SUSTAINER, MK 4 MOD 1, F/RIM-67A	18	0.405
DUMMY GUIDED MISSILE, MK41 MOD-0	4	3.89
ADAPTER, PRIMING	100	0.000435
CONTAINER,MAIN, CHARGE,DISRUPTER,MK 788 MOD 0	18	0.04875
CHG,SUPPL ASSY,F/8IN PROJ,HE,M106 75-14-468A	5563	1.464923333
SPACER,DEEP CAVITY,F/8IN PROJ,HE,M106 8797088	106308	5.3154
LINER,ALUM,FZ CAV,F/DODICS C280,443,444,445,463,704,D544 8797092	91003	5.46018
PALLET,BASE ASSY,F/155MM CTG,PKG AS REQD	599	5.99
GROMMET,ROTATING BAND, PLASTIC, F/155MM PROJECTILE	3108	0.73038
PLUG,LIFTING,ASSEMBLY,USED ON 155MM,PROJECTILES	19086	12.33268651
GASKET,RBR,F/PLG LFTG TYP,W/FSBL INSRT,F/155MM,D505,48,61,62,684	8295	0.41475
WASHER, SUPPORT COVER F/DODICS D501, D502,	17367	0.086835
PLUG,LIFTING,PROJ,IRON,SHOCK ATTEN,F/PROJ,155MM,M795,M549,M106	10939	11.212475
DISPENSER & BOMB, AIRCRAFT, CBU-59A/B,COMPLETE	14	7.8075
GUIDANCE SECTION,GUIDED BOMB	38	10.00405
GUIDANCE SECTION, GUIDED BMB	131	6.55
CONTROL SECTION, GUIDED BOMB	110	0.4675
BOMB,FIRE,MK77-4,500LB,EMPTY 2603656,WR-54/162A,DL2603656	11	0.264
BOMB, FIRE MK 77 MOD 5	1	0.116375
DISPENSER & BOMB, AIRCRAFT	1	0.47375
DISPENSER & BOMB, BLU-59/B	39	21.0125
DISP & BOMB,A/C,CBU-MK20-3,CMPLT,DISP,MK7-3,MK339-0 DL2605197	1025	468.9375
DISPENSER & BOMB,AIRCRAFT,F/CBU-49C/B 68E5696,DL68E5696	14	7.75
DISPENSER & BOMB,AIRCRAFT,F/CBU-24C/B 67E12975,DL67E12975	182	102.745
DISPENSER & BOMB, AIRCRAFT	5	2.086
DISPENSER AND BOMB, AIRCRAFT	510	408
DISPENSER & BOMB	4	2.91
WHD SECT,MK1-0,F/GW,MK1-0/WALLEYE,C/O WHD,FZ,BSTR 2300231	364	196.56
WHD SECT,MK1-2,F/GW,MK1-2,WALLEYE,C/O WHD (CHINA LAKE MATERIEL)	150	81
WARHEAD,HE,MK58-2,F/GW,MK1-2,WALLEYE 2300362	288	155.52
GUIDED WEAPON,MK1-6,TACTICAL,WALLEYE.W/G SECT,CONTROL SECT,WHD	61	22.15825
GUIDED WEAPON MK1 MOD 9 TACTICAL WALLEYE0	19	15.2
DISPNSER & BOMB, AIRCRAFT, BLU-49/D	2	1.582
WARHEAD SECTION,MK2-2,PRAC,F/GW,MK2-2,3 AND 6 65A41E1100	3	2.055
GUIDED WEAPON, MK 23-1, TACTICAL WALLEYE II	2	3.01
GUIDED WAEPON, MK 23-2, TACTICAL WALLEYE II	2	3.01
GUIDED WEAPON, MK 23-4, FACTICAL WALLEYE II	14	21.07
WING ASSEMBLY GUIDED BOMB	6	0.6
WING ASSY, GUIDED BOMB, BSU-12/B,P/N 689894-1	1	0.045
BOMB, CHEMICAL AGENT 350 LB, BLU 52A/B, CS-2	180	76.5
BOMB,GP,MK81-1,250LB,LD,TRIT LDD,W/O CBL ASSY,AIR FORCE 1350946	968	130.68
BOMB,GP,MK81-1,250LB SIZE,LD,TRIT LDD,W/CABLE ASSY,M71 1350946	24	3.042
BOMB,GP,MK81-1,250LB,LD,TRIT LDD,W/O CBL ASSY,W/LG,AF ONL 350946	22391	2838.05925
BOMB,GP,MK82-1,500LB,INERT LDD,LD,WEAPON TEST,F/DST,MK56 3212386	4	1.046
BOMB,GP,MK82-1,500LB,LD,H-6 LDD,CBL ASSY M72/T8 DL380901,1380901	2	0.523
BOMB,GP,MK83-3,1000LB,LD,H-6 LDD,W/CBL ASSY,M73/T15 LD288680	1	0.489
BOMB,GP,MK83-4,1000LB,LD,H-6 LDD,CBL ASSY,M73/T15,SUSP LG 982537	25	12.225
BOMB,GP,MK83-5,1000LB,LD,H-6 LDD,W/CABL ASSY M73/T15 DL4902089	15	7.44
BOMB,GENERAL PURPOSE MK83 MOD4 1000LB SIZE,LOW DRAG,INERT LOADED	2	0.978166667
DISPENSER & BOMB, AC, MK 7-3 TRAINER	1	0.539
DISPENSER AND BOMB, AIRCRAFT	7238	3650.6995
DISPENSER AND BOMB, AIRCRAFT	18887	9112.06275
DISP & BOMB, AIRCRAFT, CBU-70/B	269	129.12
DISPENSER & BOMB, AIRCRAFT,BLU-86B & BLU-63/B	893	371.71125
DISP&BOMB,A/C,CBU,MK20-4,CMPLT,W/FZ,MK339-0,CNTR MK427 WR-54/266	1685	770.8875
DISPENSER & BOMB, AIRCRAFT BLU-77	62	36.153
DISPENSER & BOMB,CBU-MK20-4, DISPENSER MK 7-4, DUMMY INERT	1	0.2475
DISPENSER AND BOMB, AIRCRAFT / CBU-71/B IN CNU-180 SERIES	20004	10324.4435
DISP&BOMB,A/C,CBU-MK20-3,CMPLT,DISP MK7-3,FZ,MK339-0 930AS210	6740	2668.897
DISP&ABOMB,A/C,CBU-MK20-4,CMPLT,W/FZ,MK339-0,2/CNTR,CNU-319/E	75	28.03525
DISP&BOMB,A/C,CBU-MK20-6,CMPLT,DISP,FZ,247 BOMBLET 2880464	1	0.42175
DISPENSER AND BOMB, CBU-MK 20-6	24	9.078
DISPENSER & BOMB, AIRCRAFT,BLU-77	18	9.7065

DISPENSER AND BOMB	4	1.895
DISP & BOMB,A/C,CBU-72/B,FAE,TRAINING DL2881609	10	4.2425
DISPENSER AND BOMB A/C,CBU 24C/B,INERT LDD/INERT LDD BOMBLETS	40	21.6
DISPENSER AND BOMB, CBU-87/B	480	300
DISPENSER & BOMB	47	11.90275
DISPENSER & BOMB, AIRCRAFT, CBU-59A/B	124	69.846
DISPENSER & BOMB, AIRCRAFT	4	1.657
DISPENSER & BOMB,AC,CBU-87B/B	62	38.533
DISPENSER & BOMB, MK 118-0	322	122.0575
BOMB,LEAFLET	40	2.2
DISPENSER & BOMB, AIRCRAFT	50	19.4675
DISPENSER AND BOMB, AIRCRAFT	1	0.38825
BOMB,PRAC,MINI,MK23-1,3LB SIZE LD165597,452860,MIL-B-1833	7	0.014
BOMB,PRAC,MK106-4,5LB DL2518432,2518432	808	2.10585
BOMB,PRACTICE, MK106-5 5LB SIZE DL923AS500	536	1.34
BOMB PRACTICE INERT 10LBS 923AS556	610	3.2765
BOMB,PRACTICE MK 106-1 4902082	133106	357.722375
BOMB,PRACTICE	2	0.0273125
BOMB,PRAC,EMPTY,MK76-5,25LB SIZE,W/SUSP LUG,MK14-0 2193779	656	8.614345679
CONTROL SECT,GUIDED BOMB,WCU-10/B P/N 1393AS260	19	0.95
CONTROL SECTION, GUIDED BOMB, WCU-10A/B	1	0.05
AIR FOIL GRP, MXU/60/B,U/W/COMP CONTROL GRP MAU-157/B	74	8.954
FIN ASSEMBLY, BOMB	5	0.2075
COMPUTER CONTROL GROUP MAU-157/B U/W AIRFOIL GROUP MXU-600/B	68	2.051445
DISP,CHAFF,CNTRMSE,MJU-5/B,CONSISTS OF DISP,MK7-3,W/FZ,MK339-0,E	32	4.096
FIRING MECHANISM MK 42-4 AND FLANGE ASSY F/DST MODIFICATION KIT	419	1.676
MODIFICATION KIT, DST,MK75-8 F/DST MK36,40 3278878	2594	55.771
KIT,MODIF,DESTRUCT,MK75-9,F/DST,MK36,40 3278879	85	6.31125
ACTUATOR,EXPLOSIVE,MK26-0,F/MN,MK60-0 3015692	1185	0.246875
INITIATOR,HYDROSTATIC, MK 15-0 F/MINE MK 60	2	0.01
KIT,MINE LAUNCHING,AIRCRAFT MK 38-0 F/MINE MK 60	2	0.216
CONTAINER,S-S,F/SPARROW MISSILE 110-01	3	0.21
CONTAINER,SHIPPING AND STORAGE F/SPARROW WINGS AND FINS HALF-SET	9	0.015525
SHIPPING & STORAGE CONTAINER	234	1.17
CONTAINER,5IN RKT,MK37-0,F/1 5IN RKT MTR,MK15/17 1516261	20	0.3
CONTAINER, SHIPPING & STORAGE , MK 471 MOD 0 F/SHRIKE GUID SECT	1	0.1
CONTAINER,S-S,MK394-0,F/SHRIKE CONTROL SECTION 1516682	27	0.93285
CONTAINER,S-S,MK395-0,F/SHRIKE GUIDANCE SECTION 1516680	5	0.124
CONTAINER,WINGS AND FIN ASSY S-S F/WALLEYE 64A37F1	36	2.59
KIT, MODIFICATION, DESTRUCTOR, MET MK 75 MOD 12	4	0.097
CARTRIDGE, 5.125 IN PYROTHENIC MK 186-0	108	3.6315
CARTRIDGE,5.125 INCH CHAFF, MK 182-1 W/HARD PACK F/SUPER RBOC	179	0.258244792
LANYARD, ARMING FUZE	1	0.0005
NOSE AND RING KIT BOMB	8	0.025333333
CLIP,SAFETY,ARMING,WIRE,RETAINING,F/DST MK 36,40	198	0.00396
COUPLER DRIVE ASSEM	171016	36.3409
BOMB, PRACTICE	2	0.5155
BOMB,GP,750LB,M117A1E1,TRIT LDD,W/SUSP LG,W/O FIN ASSY 9226251	802	326.013
BOMB,GP,MK84-2,2000LB,LD,H-6 LDD,W/CBL ASSY,M74/T15 DL1380911	4040	4267.25
BOMB, GENERAL PURPOSE	2	1.01875
BOMB,GP,MK82-1,500LB,LD,INERT LDD,W/CBL ASSY,M72/T8 4902344	5	1.31125
BOMB,GENERAL PURPOSE,750#	2	0.813
BOMB,GENERAL PURPOSE, MK 84-4, 2000#, INERT, W/O CBL ASSY	86	50.2025
BOMB, GENERAL PURPOSE	6	6.15
BOMB,GP,MK84-1&2,2000 LB,LD,EMPTY DL2519694,LD165795,WR-54/127C	3	0.6
BOMB,GENERAL PURPOS	12	12.231
BOMB, GENERAL PURPOSE	4	4.111
BOMB,GP,MK84-3,2000LB,LD,H-6 LDD,W/CABL ASSY M74/T15 DL4902049	2329	2401.199
BOMB, GENERAL PURPOSE	5	5.09625
BOMB,GP,2000#,MK84-5,H-6 LDD,W/BP 923AS107	1155	1190.805
BOMB,GP,MK84-7,2000LB.LD.INERT,W/CABL ASSY, M74/T15 923AS528	2	2.0265
BOMB,GP, MK 84 MOD 3A, 2000 # LOWDRAG	32	32.992
GUIDED BOMB, BLU-111A/B THERMAL PROTECTED	6	1.614
ADAPTOR,RETAINER F/ADU 449/B	3114	10.4319
ADAP-BSTR,BOMB,NOSE DESIGN,M148,30/WDN BX 9216900	122526	369.0584167
ADAPTER-BOOSTER BOMB T45E1	24	0.000405
ADAPTER-BOOSTER,BOMB,T46E2,TAIL TYPE,EXP LDD 82-3-832,82-3-833	6	0.0275
ADAPTER,BSTR,BOMB,MODEL TA6E4,EXPLO,FILLED	726	3.26202381
ADAPTER-BOOSTER,BOMB,TAIL TYPE,EXP,XM147,W/O HOLDER 9218509	258128	550.6730667
ADAPTER-BOOSTER,BOMB,M150,TAIL TYP,EXP LDD 9238938,WR-54/190	24883	53.29109167
ADAP-BSTR,BOMB,M148E1,NOS TYP,EXP LDD,THERM PROTECT 9272263	2208	6.9
ADAPTER-BOOSTER,BOM	19	0.059375
ADAPTER-BOOSTER,BOMB,T46E4,TAIL TYP,INTER 82-3-932,MIL-A-20502	117	0.53625
ADAPTER-BOOSTER,BOMB,EMPTY,M147 P/N 9216844	377	1.178125
ARM WIR ASSY,MK9-0,W/SNGL 90IN STRND,.064IN DIA,BR WIR LD549905	200	0.048
ARMING WIRE ASSEMBLY STEEL	105602	4.6200875
ARMING, WIRE ASSEMBLY DOUBLE STRAND	58543	4.449268
ARMING WIRE ASSY MK2-0	241	0.174055556
ARMING WIRE ASSY,MK3-0,STEEL,W/SNGL 57IN STRND,.033 DIA 375994	200	0.122
CARTRIDGE,SIGNAL,PR	704	0.1050512
ARM ASSY,BOMB FZ,MK5-1,FZ DRV MK5-1,FZ,MK346-0,F/BOMB,GP 2494298	3525	11.015625

BOOSTER FUZE, INERT F/FMU 56 B/B FUZES	10	0.0125
SHAFT,DRIVE FLEX MA-86/B1	2325	0.413333333
SHAFT,DRIVE,FUZE,ARM,MAU-86/B,F/BOMB,MK81,82 64C11524-5	27961	2.097075
SHAFT,DRIVE,FUZE AR	276213	23.59319375
BOOSTER, AUXILIARY, FUZE, FZU-1/B	5	0.0005
BURSTER,BOMB,MK4-0,TETRYL LDD,COPPER CNTR LD479814,1706406	120	0.315
FIN ASSEMBLY, BOMB(MK 84 MOD 0)	53	3.025416667
CHARGE,SPOT,CXU-4A/B,F/BOMB CXU-4B 923AS627	7659	3.054482143
FIN ASSY F/500 LB BOMB MK 15 MOD 1A	21	0.9345
FIN ASSY,BOMB,MK15-2A,F/500LB BOMB,GP,LD,SNAKEYE 1 2603317	2	0.089
FIN, GUIDED BOMB, BSU-22/B, P/N 700922/5	36	0.18
BOMB, FIN ASSY, MK 15-3A	2705	104.480625
FIN ASSEMBLY,BOMB	5	0.202291667
IGNITER SPOTTING CHARGE (T37)	764	1.146
CTG,SIGNAL,PRAC,BOMB,MK4-3 LD166560,398800,MIL-S-18538	4226	0.33808
CHARGE,SPOT,BOMB,MK6-0,W/FZ,MK247-0,F/BOMB,PRAC,MK65,66-0 438277	6741	26.964
CHARGE,SPOT,BOMB,MK7-0,W/FZ,MK247-0,F/BOMB,PRAC,MK15-3 LD109535	3878	8.24075
FIN ASSY,BOMB,MK15-3,F/500LB BOMB,GP,MK82,LD,SNAKEYE 1 DL2605093	10	0.445
FIN ASSY,BOMB,MAU-94/B,CONICAL,MODIF,F/250LB LD,GP BOMB 1445672	5453	58.18351
FIN ASSEMBLY,BOMB MODIFIED,F/2000LB,LOW DRAG,GEN PURPOSE BOMB	2	0.2035
FIN ASSEMBLY,BOMB	6625	126.9791667
FIN ASSY,BOMB,F/250LB,LD,GP BOMB,MK81-1,W/2 SUSP LUGS 1445672	725	9.0625
FIN ASSY,BOMB,MODIF,F/1000LB,LD,GP BOMB,MK83-2,3,4,W/OLG 1380505	91	3.355625
FIN ASSY,BOMB,MODIFIED,F/2000LB.GP,BOMB,MK84-1, 1380529	2	0.154
FIN ASSEMBLY, BOMB	5425	57.88475
FIN ASSY,BOMB,MAU 91A/B,RETARDER TYPE,F/DST,MK40 65E112320	1643	132.67225
FUZE,BOMB,M157,MULTIPOSITION,W/BRSTR,C8R1 14-15-191	5076	25.38
FUZE,BOMB,AN-M173A1,NOSE &/TAIL TYP,F/IGN,WP,AN-M23A1 14-15-636	143	0.0858
FUZE,BOMB,M990E1,TAIL TYP,ELEC,IMPACT,SAFE/ARM DEV,MK26 2494361	2890	12.04166667
FUZE,BOMB,M904E2,NOSE TYPE,IMPACT,W/DLAY ELEM,M9,.025SEC 8839337	132	0.2915
FUZE,BOMB,M904E2,NOSE TYPE,IMPACT,W/DLAY ELEM M9,NONDLAY 8839337	887	1.847916667
FUZE, BOMB	1756	14.048
FUZE,BOMB,MK374-0,NOS TYP,IMPACT,INSTANT,F/BOMB,CR,MK115 2499565	538	0.520066667
FUZE,BOMB,AN-M139A1,NOSE TYP 73-8-292	12	0.0234
FUZE,BOMB,M907E2,NOSE &TAIL TYP,MT,3-92SEC,SELEC TIM WR-54/178	664	1.355666667
FUZE,BOMB,FMU-54/B	22532	48.81933333
FUZE,BOMB,M990E3,TAIL TYP,ELEC,IMPACT,W/SAFE,ARM DEV 2494518	4	0.016666667
FUZE,BOMB,M990E4,TAIL TYP,ELEC,IMPACT,W/SAFE,ARM DEV 2494519	14299	59.57916667
FUZE,BOMB,NOSE,MK339,MOD 0	3	0.010833333
FUZE,BOMB,IMPACT,FMU-26B-B,NOSE & TAIL	1786	14.06475
FUZE,BOMB,MK374-1,NOSE TYP,IMPACT,INSTANT,F/BOMB,CR 2495085	424	0.409866667
FUZE, BOMB IMPACT FUZE FMU-81/B	1571	7.855
FUZE,BOMB,M904E4,NOSE TYPE,IMPACT,W/DLAY ELEM,M9,NONDLAY 9272080	5722	11.92083333
FUZE,BOMB,MK339-1,NOSE TYP,F/CBU,MK20 MODS	1417	4.487166667
FUZE,BOMB,FMU-95/B,NOSE TYP,F/CBU-55A/B & CBU-72/B DL367AS140	92	0.124583333
FUZE, BOMB FMU-107/B	840	1.68
FUZE,PROXIMITY	10	0.068
FUZE,PROXIMITY,FMU-110/B	74	0.74
FUZE,PROXIMITY,FMU-113/B	46	0.46
FUZE,BOMB,FMU-74/B,NOSE TYPE,F/CBU-55/B,F.A.E. 68A85D98	16	0.021666667
FIN ASSEMBLY,BOMB,GBU-24A/B	348	96.831
AIRFOIL GRP, GUIDED BOMB, MXU601A/B	43	7.095
FIN ASSEMBLY, BOMB	142	24.14
FUZE,BOMB ASSY,FMU-139/B,W/CLOSURE RING 1379AS400	19134	51.5555
FIN,ASSEMBLY BOMB,CONICAL TYPE,MXU-650/B	7	0.525
FIN, ASSEMBLY, BVOMB, MXU-60A/B	395	51.35
FIN ASSEMBLY, BOMB	16	0.664
FIN ASSEMBLY, BOMB	31	1.254208333
FIN ASSEMBLY, BOMB	7	0.097533333
GUIDANCE FIN ASSY BSU/37/B	15	0.0525
FUZE,BOMB,FMU-143B/B	8	0.128
FUZE,BOMB, FMU-139A/B NOSE AND TAIL, ELECTRONIC TYPE 1379AS600	6	0.016
FUZE,BOMB AN-M145E1,NOSE TYP,MECH IME,6-90 SEC DLAY 73-8-326	194	0.3104
FUZE, BOMB NOSE MT AN-M146E3	3632	6.1744
FUZE,BOMB,M904E3,NOSE IMPACT	36	0.075
FUZE, BOMB, NOSE, M904E2, E3, P/N 9239084	78672	108.8482667
FUZE,BOMB,MK344-0,TAIL,ELEC,INSTANT &2DLAY,F/BOMB,MK81 LD549680	84	0.364
FUZE, BOMB FMU 56/B	13	0.00052
FUZE,BOMB,M918,IMPACT,SIDE TYPE,INSTANT D14-15-980,WR-54/75A1	6405	3.13845
FUZE, BOMB, NOSE, FMU-56/B (D-1) INERT	31	3.37125
FUZE,BOMB 73-11-31	4	0.029
FUZE, BOMB, PRACTICE, M904E4	10	0.020833333
FUZE, BOMB, PRACTICE,IMPACT,AN-M158	20	0.59
FUZE,BOMB,BD,AN-M100A2	15	0.0321
FUZE,BOMB,PD,AN-M101A2,.025SEC DLA Y 73-8-181	25	0.066
FUZE,BOMB,M125A1,TAIL TYPE,1 HOUR DELAY 73-8-169G	8	0.0305
FUZE,BOMB,AN-MK230-4,TAIL TYPE,HYDROSTATIC 344703	8190	89.06625
FUZE,BOMB,TAIL TYPE,M905,IMPACT 8839354	187591	165.5697333
FUEL,GELLING,MIXTURE,IMBIBER BEADS,F/MK77-5,FIRE BOMB NALC FW01	726	15.7905
DRIVE SHAFT,FUZE,F/MK5 MODS ARM ASSY,U/W/FZ,BOMB,MK346 2429269-5	164	0.082
CLIP,SAFETY,ARMING	487233	23.387184

CUP,SUPPORT,F/LOW DRAG BOMBS 1211676,WR-54/129,DL1211676	11628	46.512
PLUG,NOSE,FUZE,F/1000# M685 BOMB	9	0.0915
PLUG,NOSE,STEEL,F/MK81-1,250LB BOMB	304	3.090666667
TANK,CHEMICAL,AIRCRAFT,MK12-0 LD546080,2105220	2	0.35
SHIELD,THERMAL MK68-0 FZ.PHENOLIC PLASTIC 786AS101	1337	0.4178125
CONTAINER,S-S,MK33-0,F/G-C SECT,SIDEWINDER,9B 657641	5229	60.1335
CLIP,RESTRAINER	10108	0.15162
CONTAINER,CNU 300/E F/GUIDRANCE & CONTROL SECTION F/AIM 9L	284	7.526
INFLATION DEV,AUTO,FLU-8/P,W/32GM CO2 PRESSR CYLANDR 849AS100-2	30	0.0075
FLIGHT GEAR & SHIELD SUBASSY,F/ACTUATION MINE MK 52	4	0.42
GUIDED SECTION, AMU-169A/B F/GBU-10,12,16 AND 17	4	0.2
BOOSTER & TAPE ASSY FZU-2/B	6471	0.6632775
FUZE,BOMB,M125A1,TAIL TYPE,2 HOUR DELAY 73-8-169	50	0.154
FUZE,BOMB,M125A1,TAIL TYPE,6 HOUR DELAY 73-8-169	50	0.152
FUZE,BOMB,M125A1,TALL TYPE,12 HOUR DELAY 73-8-169	50	0.142
FUZE,BOMB,M125A1,TAIL TYPE,144 HOUR DELAY 73-8-17OH	32	0.09856
FUZE,BOMB,MK376-0,TAIL TYPE,ELEC,IMPACT,F/BOMB,GP,MK80 2499578	108	0.234
FUZE,BOMB,MK346-0,TAIL,MT,30MIN-33HR DLAY,F/BOMB,LD,GP LD548713	16350	17.1675
BOMB, FUZE, ELEC, FMU-139 A/B P/N 9042211	10	0.0425
DUMMY,FUZE,BONB,MODEL #FMU-113(D-2/B	2	0.02
DUMMY,FZ,BOMB,FMU-139,P/N DL8644061	126	0.858666667
FUZE,BOMB,PRACTICE	3	0.00315
IGNITER,BOMB,WP,AN-M23A1	178	0.427884615
IGNITER,BOMB MK 273-0,MG-TEF LD,F/BOMB,FIRE MK 77-4 1557442	9567	27.505125
DELAY ELEM,FZ,BOMB,M9,NON-DLAY LD8838197-6,8838197	115162	6.4778625
DELAY ELEM,FZ,BOMB,M9,.01SEC DLAY LD8838197-1,8838197	120269	6.76513125
DELAY ELEM,FZ,BOMB,M9,.025SEC DLAY 8838197,LD8838197-3	103479	5.82069375
DELAY ELEM,FZ,BOMB,M9,.05SEC DLAY 8838197,LD8838197-3	287507	16.17226875
DELAY ELEM,FZ,BOMB,M9,.10SEC DLAY 8838197,LD8838197-4	812203	43.99432917
DELAY ELEM,FZ,BOMB,M9,.25SEC DLAY LD8838197-5,8838197	267269	15.03388125
DELAY, ELEMENT,FUZE F/MK 82 BOMB	1	0.001625
LUG, SUSPENSION BOMB	19773	10.09246875
LUG,SUSP,BOMB,MK6-0,MS3314,DBL,F/BOMB,GP,MK81,82,83,1252628	20014	8.3574075
LUG,SUSPENSION,BOMB,MK14-0,SINGLE,F/BOMB,25LB,PRAC,MK76 1555268	7	0.001071875
LUG,SUSP,BOMB,MK3-0,DBL,F/2000LB BOMB,GP,MK84 MODS DL1380540	1	0.0625
LUG,SUSPENSION,BOMB,MK 6 MOD 1	1118	1.118
EXTENSION FUZE BOMB, M1, INERT FILLED	31	0.08215
EXTENSION,FZ,BOMB,M1A1,COMP B LDD,18IN LGTH,W/O LOCKNUT 9231708	33347	160.899275
EXTENSION,FUZE,BOMB	14678	141.6427
TARGET DET DEV,FZ,M20,F/M990 SRS,ELEC FZ,F/MK80 SRS BMB 10403068	1917	11.1186
TARGET DETECT DEV,FZ,MK43-0/M20E1,F/FZ,ELEC,M990,F/BOMB LD549764	9417	54.6186
CABLE, ASSEMBLY ELECTRIC F/FAE P/N 2604742	52	0.00338
ADAPTER,GRENADE,PROJ,M1,FRAG,F/RIFLE M3,M50,12 LAU CTG 82-1-81	5911	3.552633333
ADAP,GREN,PROJTN,M1,AUX M7,CARB M6,RFL M3 82-1-81-2,L00003640	1152	0.588
ADAPTER,GRENADE PROJECTION,M1A2,W/5 CTG ASSORT,GREN-A 82-1-82-6	3550	1.77145
BODY,PRACTICE HAND GRENADE,M30 82-1-110,FSA-21-59	1391	0.73723
BODY PRACTICE HANDGRENADE: M69	41	0.02788
GRENADE,LAUNCHER,SMK,RED PHOSPHORUS SCREENING UKL8A3	72900	121.1729625
GRENADE,LAUNCHER,SMOKE;IR SCREENING, M76	65363	185.4675125
CTG,FRENADE,.30CAL,M3,F/RIFLE B6173949	14067	0.152495
CTG,GREN,RIFLE,7.62MM,M64,F/DRAGON,M54 LAU TRAINER 9329599	473968	11.69967218
CTG,GRENADE,22 CAL,DESIGN,F/MORTAR,TRAINING,DEVICE 3-F-8A	54845	0.390770625
CTG,GRENADE,RIFLE,5,56MM,M195/XM195 10534926	31334	0.419705571
CHARGE,PRAC HAND GREN,F/M69,M30,M21,MK2 82-1-48,82-1-48H5	242661	1.216789871
CHARGE,PRAC,HAND GRENADE,M21,MK2,W/25 STOP,F/FILL HOL 82-1-48,H	1603	0.034326
FUZE,HAND GRENADE,M205A1,M205A2 7458570-2,FSA-21-59	710	0.101175
FUZE GREN M206A1/A2	1983	0.2825775
FUZE,HAND GRENADE,M204A1 82-1-87A,7548570-1	18472	2.61983
FUZE,HAND GRENADE,M201A1,BURNING TYP,1.2-2.0 SEC DLAY D13-10-22	949	0.174548214
FUZE,HAND GRENADE,M213,W/DLAY 8822131	235773	29.471625
FUZE,HAND GRENADE,PRAC M228 W/SAFETY CLIP ASSEMBLED 8822132	76	0.0095
GRENADE,HAND,FRAG,M67,COMP B,W/FZ,DLAY,M213/T1011E2 9235492	5867	4.98695
GRENADE,HAND,FRAG,MK2,FZ M6A4C 82-0-41	48	0.05472
GRENADE,HAND,ILL,MK1-2,FZ MK372-0 PL2113315,WR-55/138,2113315	122719	50.62902381
GRENADE,HAND,INC,TH3,AN-M14,FZ M201A1 13-17-3,13-7-3,FSA-21-59	30090	44.1946875
GRENADE,HAND,OFFENSIVE,MK3A2,FZ,M206A2,SAFETY CLIP 9215458	194384	150.6476
GRENADE HAND CS M47	12	0.009
GRENADE,HAND,RIOT CONTROL,CSI,ABC-M25A2,FZ C12	38865	19.4325
GRENADE,HAND,SMK,HC,AN-M8,WHITE,FZ,M201A1 13-19-32	9897	12.9898125
GRENADE HAND: RED SMOKE RS M48	107	0.077575
GRENADE,HAND/RIFLE,SMK,WP,M34,FZ M206A2,W/O CTG/CLIP D13-7-4	14625	19.1953125
GRENADE,HAND,SMK,GREEN,M18,FZ M201A1 13-19-37	775	1.0171875
GRENADE,HAND,SMK,YELLOW,M18,FZ M201A1 13-19-37	4493	5.8970625
GRENADE,SMK,RED,M18,FZ M201A1 13-19-37	9790	12.849375
GRENADE,HAND,SMK,VIOLET,M18,FZ M201A1 13-19-37	628	0.82425
GRENADE,HAND,TEAR,CN,M7A1,FZ M201A1 13-21-7	20837	22.79046875
GRENADE,HAND,TACTICAL,CS,M7A3,W/FZ,M201A1 13-22-35	3281	4.2568125
GRENADE,HAND,TRAINING,MK1A1 82-1-7,FSA-21-59	96	0.092
GRENADE,RIFLE,HE,AT,M31,FZ M211,W/MODIF NOS ASSY 82-0-195	2017	7.75725
GRENADE, LAUNCHER, SMOKE	7	0.0161875
GRENADE, HAND, PRACTICE	19	0.0178125

GRENADE,RIFLE,SMK,GREEN,M22A2,ASSORT A,3 LAU CLP 82-0-117-5	2890	5.3465
SWITCH,ARMING,SAFETY,MK 122-0,U/W/CONNECTOR MK 39 F/M990 SERIES	78	0.036792453
INITIATOR,FIREBOMB MK13-0 W/FZ MK343-0,IGNITOR MK273-1 DL2601820	5315	29.896875
FITTING,EXPLOSIVE,MK 30-0,F/MINE MK 60-0	1819	1.0231875
FITTING, EXPLOSIVE MK31 F/MINE MK60	6	0.0945
DETECTING DEVICE ASSY,TARGET MK 57-0 F/MINES MK 62,65	82	0.451
CTG ASSY,ELEC,ONE-PIECE,F/LIGHTWEIGHT EARTH ANCHOR 417582-1	1	0.0006
PROGRAMMER, PRESET MONITOR MK 10 MOD 2	1	0.0335
SWIVEL AND LINK,ASSY,STEEL 65C12057	6248778	531.14613
FITTING,EXPLOSIVE,MK18-0,NS,F/MN,MK52,55-1THRU6 ACT DMY 3278932	41	0.033825
RETARDER,FIN,BOMB,AIR INFLATABLE,BSU-49/B,F/MK 82 BOMB 809194	4416	190.992
RETARDER,FIN,BOMB,AIR INFLATABLE,BSU-50/B MOUNTEDON 809245	5119	691.065
GRENADE,RIFLE,SMK,GREEN STREAM,M23,ASSORT C,3 LAU CLP 82-0-139	634	1.0992
GRENADE,RIFLE,SMK,RED,M22A2 82-0-117	1330	2.527
GRENADE,RIFLE,SMK,RED STREAM,M7,M6,M3,W/FZ 82-0-139	605	1.0947
GRENADE,RIFLE,SMK,VIOLET STREAM,M23,W/O FZ C51620	5745	9.46125
GRENADE,RIFLE,SMK,YELLOW,M22A2,ASSORT A,3 LAU CLP 82-0-117	1005	1.809
GRENADE,RIFLE,SMK,YELLOW STREAM,M23,ASSORT C,LAU CLP 82-0-139	2	0.0029
INTERVALOMETER, ROCK	73	0.8395
RKT,POD,298MM,M26 LAUNCH POD,WHD M42, (6 RDS = 1 POD)	540	1375.38
INTERVALOMETER,ROCKET LAUNCHER	22	0.033
ROCKET POD,298 MILLIMETER,PRACTICE	3	7.6422
ROCKET,INCD 66MM TPA M74	24	0.423
ROCKET, 2.75 INCH SMOKE WP W/WARHEAD M259	4	0.069
LAUNCHER, ROCKET, AIR	5	0.24
LAUNCHER,ROCKET,AIRCRAFT,LAU 10B/A,EMPTY WR-54/115C,4902071	1	0.12375
LAUNCHER,RKT,A/C,LAU 10C/A,EMPTY 4902046,DL4902046	5	0.61875
LAUNCHER,ROCKET,AIR	10	2.865
LAUNCHER AIR ROCKET, 2.75 INCH LAU-131/A EMPTY	60	2.1
ROCKET,FLARE,2.75 INCH	2	0.048
RKT,MTR,PRAC,REDUCED,RANGE,298MM,(MLRS) M28A1	111	282.51165
IGNITORS,ROCKET MOTOR,MK 310-0,F/RKT MTR MK 129-0	47	0.205625
ROCKET MOTOR,2.75IN,MK66,INERT,W/O IGNITER,PKG 4/MK706-0	1	0.00925
ROCKET MOTOR DWG SR121-NP	42	5.25
ROCKET,MOTER,JATO,MK 129-0 F/UNMANNED AERIAL WEHICLE	45	7.16175
ROCKET MOTOR	88	0.0572
RKT MTR,JATO,MK7-1,W/O IGNITER,5KS-4500	200	27.2
ROCKET,MOTOR,762MM,M66	80	192.04
IGNITER,MK165-0,F/JATO RKT,MTR,MK6-0,1,15KS-1000 LD515663	898	0.703433333
IGNITER,MK166-1,F/JATO RKT MTR,MK7-0,1,2,5KS-4500	3	0.0055
IGNITER,MK173-1,F/JATO RKT MTR,MK23-0,2.2KS-11000 LD546906	6	0.033
IGNITER,MK188-0,F/JATO RKT MTR,MK25-0,1,2 LD537849,2225582	1184	2.302222222
ROCKET, FLECHETTE, 2.75 INCH, MOTOR MODEL NUMBER MK40-MOD3	5593	88.78781
ROCKET, HIGH EXPLOSIVE, 2.75 INCH	318	5.60475
ROCKET, HIGH EXPLOSIVE, 2.75 INCH	2	0.03525
RKT EXPL HD LD XM229 COMP B FILLER W/NOSE FZ MK40 & MODS	50	1.136
RKT HE 4/WDN BOX M429 MTR MK 40	1083	16.844725
RKT,HE,UNASSD,2.75IN WHD,XM151,HE LDD,W/FZ M423,MTR MK40 1569445	5970	126.46175
RKT MTR CLUSTER,2.75 RKT MTR,MK4 MODS,PROP GRAIN MK43,7/AERO 6A	13	0.830115
ROCKET,2.75 INCH HE W/WHD M229	38	0.75795
RKT MTR CLUSTER,5IN RKT MTR,MK16-3,PROP GRAIN,MK49,4/LAU 4902315	210	10.3425
ROCKET MOTOR CLUSTER	7	0.352625
ROCKET, HIGH EXPLOSIVE 66MM M72A1	65	0.14827
ROCKET, 66MM, HEAT, M72A3	1283	5.006733333
RKT MTR CLUSTER;F/4-5IN RKT MTRS,MK 71-1 4902323	51	11.628
RKT MTR CLUSTER,5IN RKT MTR,MK71-1,W/PROP GRAIN,MK88-0 4902322	26	1.4755
LAUNCHER & RKT AIRCRAFT	26	7.449
LNCHR&RKT,A/C,2.75IN,WHD,MK1 MODS,HE LDD,FZ M427,MTR MK4,19/LAU	2	0.60475
WARHEAD,2.75IN RKT,PRAC,WTU-1/B,INERT LDD 2618015,DL2618015	2	0.010661376
WARHEAD,2.75IN RKT,PRAC,WTU-14/B,INERT LDD 4902328,DL4902328	6	0.04425
RKT PRAC 35MM M73 73	446	0.143711111
ROCKET, PRACTICE, 35 MILLIMETER SU, EMPTY	374	0.36652
WARHEAD, 2.75 INCH ROCKET	1	0.000646726
RKT HEDP 4 WDN BOX, WHD M247 W/RKT MTR MK40 MOD3	4	0.0635
ROCKET,2.75 INCH, PRAC. W/WHD WTU-1/B	100	5.4
WARHEAD,2.75 INCH R	21	0.072460938
WARHEAD, 2.75 INCH ROCKET,HE	653	3.346625
WARHEAD,2.75IN. HE,COMP B4, M151 W/O FUZE	36	0.27
WARHEAD,2.75IN RKT,M151,HE LDD,W/FZ M427 8882186-2,WR-54/226	41870	308.79125
WHD,2.75 RKT.SPOTTING W/FZ.POINT DET P124711	8	0.0365
WHD 2.75 RKT HE XM153 W/FZ RKT XM423 YELLOW MARKER BARATOL	9760	44.53
WARHEAD,2.75IN RKT,SMK,E12,WP LDD,W/FZ,M423 D90-1-25REVC	5	0.0228125
WHD 2.75 RKT SMK M156 6 WP W/FUZE PD M427 OR M423	46	0.33925
WARHEAD,5IN,ROCKET,PRAC. MK 31 MOD 0 INERT,LDD,W/O FZ 982454	1	0.029395833
WARHEAD, 2.75 INCH, MK 67 MOD 1	396	2.4255
WARHEAD, 2.75 INCH ROCKET, SMOKE	128	0.784
WARHEAD, 5INCH RKT,PRACTICE MK 24-0 & 1, INERT LDD	2	0.056833333
WARHEAD,5IN RKT,MK7 MODS,HE,TNT LDD,W/AUX DET,MK44-2,MK52 561528	18	0.204
WARHEAD,5 INCH ROCK	130	1.526958333
WARHEAD,5IN RKT,MK24-0,HE,COMP B LDD,BF MK191-1 LD174919,656560	3255	80.968125
WARHEAD,5IN RKT,MK32-0,HE,COMP B LDD LD268535,656891,WR-54/33	66	1.628

WARHEAD,5IN RKT,MK63-0,HE,COMP B LDD,FRAG,W/O FZ SK608095	6979	233.7965
WARHEAD,5IN RKT,MK24-1,HE,COMP B LDD,VERM FZ CAV,BFHP DL958AS500	12150	302.23125
WARHEAD,5IN RKT,MK25-1,W/O LUG BAND 564220	162	4.667625
WARHEAD,5 INCH ROCKET, MK 25-2 INERT	7	0.1995
ROCKET,84MM,HEAT,FFV 551, W/IM WARHEAD	10	0.069166667
ROCKET ASSEMBLY,PRACTICE, 21 MILLIMETER	144	0.02376
WARHEAD,5IN RKT,MK76 MODS,CHAFF LDD,FZ MK375-1 2603377,DL26033	598	15.0098
WARHEAD,FLARE,5 INCH ROCKET	12	0.33
ADAP-BSTR,RKT,BBU-15/B,F/ADAP FZ,MK352-2 TO ZUNI WHD 67A90D026	67	0.00428267
BAND,SHIELDING ASSE	617	0.15425
SHIELD, THERMAL,CERAMIC F/AFT END LAU 10D/A LAUNCHER	64	0.025
DETECTING,DEVICE,DSU-15/B,F/AIM-9G,9H,9L IN MK 129-0 CNTR	153	1.3291875
TELEMETERING INSERT,AN/DKT-27B W/BATTERY, FREQ 2252.5 MH	3	0.2745
TELEMETERING INSERT,AN/DKT-27B W/BATTERY,FREQ 2212.5 MHZ	3	0.2745
WHD, CHAFF, RP-182/AL F/5 IN RKT W/FZ, MECH. TIME FMU-136/B	142	5.50676
WARHEAD,CHAFF MK84-2, 5.00 INCH RKT,W/FZ,MECH TIME MK375-0	100	3.913333333
DETECTING,DEVICE,TARGET,DSU-15/T,F/ATM-9L AND GDU-6/C	8	0.068
BOX,METAL M548/T46, EMPTY F/U/W/20MM CARTRIDGE	88054	924.567
ROCKET, ASSAULT, PRACTICE, 83MM, MK 4-0 SMAW	9	0.09
ROCKET,ASSAULT (SMAW) ENCASED,83MM,DUAL,MODE,HE,MK3-0,W/RKT,MK1-	7	0.07
ROCKET,ASSAULT,PRACTICE,83MM,ENCASED,HEAA,SMAW	2	0.023
ROCKET,METEOROLOGIC,PWN-8B,CONSISTS OF RKT MTR & PROBE	50	1.5625
WARHEAD,2.75 INCH ROCKET, FLECHETTE, WDU-4A/A	6828	111.8085
CONTAINER,SHIPPING AND STORAGE CNU-317/E,F/ONE MAU-169A/B	171	9.2169
WARHEAD WARHEAD SECTION, 762	14	20.286
ROCKET, MOTOR 5 INCH MK 16-2	3	0.156
RKT MTR,2.75IN,M4-10,W/PROP GRAIN,MK43 MODS 9220804,DL9220804	234	2.5545
ROCKET MOTOR 6/WDN BX	12	0.131
ROCKET MOTOR,2.75IN,MK40-0,1,2,W/PROP GRAIN,MK43 MODS 1517506	705	7.69625
RKT MTR,5 INCH,MK22-4,W/N PROPELLANT GRAIN AND HERO SAFE	26	3.51
ROCKET MOTOR, MK 23 MOD 1, BQM 34	132	10.982
ROCKET,MOTOR,2.75IN,MK 66-2,W/PROP GRAIN MK 90-0 & IGNTR MK 125	814	9.63
RKT MTR,5IN,MK10-6,PROP GRAN,MK18,ELEC CNCTR MK11-4 LD268439	8924	535.44
RKT MTR,762MM RKT,M66A1,W/O PEDESTAL & SPIN RKT	64	157.888
ROCKET MOTOR, SR49TC AIR-1A	173	65.394
RKT MTR,5IN,MK16-0,1,2,PROP GRAIN,MK49 MODS,IGNITER,MK130 657380	1249	64.948
IGNITER, ROCKET MOTOR MXU 35A-AIR-2A	223	0.884
RKT MTR,5IN,MK71-1,WAFFAR.W/PROP GRAIN,MK88-0,IGNITER DL318AS200	74	4.44
PLUG,NOSE,OGIVE	12442	292.9054167
FUZE,RKT,FMU-90/B,NOSE,PD,DLAY,F/2.75IN WHD;5IN WHD 67A90D050	9790	5.996375
FUZE,RKT,NOSE,MK100-2,F/WHD,5IN,MK7 MODS,SPIN STABILIZED 562303	1198	2.0965
FUZE,ROCKET MK176 2.75	1211	0.77958125
FUZE,RKT,MK181-0,NOSE,F/2.75IN WHD MK5-0 LD291708,1378092	257	0.166193333
FUZE,RKT,M414A1/MK93-0,NOSE,VT,F/5IN WHD,MK24,32-0 LD549965	1307	3.3491875
FUZE,MK136-8A F/7.2 IN DEPTH CHG P/N 330845	9853	23.203815
FUZE,RKT,MK352-2,NOSE,PD,F/2.75IN WHD,MK1,M151;5IN WHD 67A90D001	4436	2.855675
FUZE,RKT,MK188-0,NOSE,F/5IN WHD,KK24,MK32 LD175379,LD175380	63	0.063
FUZE,RKT,M427,NOSE,PD,F/2.75IN WHD,MK1 MODS 8883745,9204391-2	12	0.00975
FUZE,RKT,MK191-1,BASE,F/5IN WHD,MK24 LD497047,2119045,2119044	11748	25.20925
FUZE,RKT,M423,NOSE,F/2.75IN WHD,MK1 MODS 8883683,9204391-1	6	0.004875
FAIRING,A/C RKT LNCHR,F/LAU 10D/A,FWD PROTECT,AFT UNPR DL4902504	412	2.266
FAIRING,A/C RKT LAUNCH,F/LAU 10/A,LAU 10A/A,3FWD,AFT DL2580755	10197	56.0835
FAIRING,A/C RKT LAU,F/LAU 68/A LAUNCH,C/O 1 AFT FAIR 67A282D318	79756	199.39
FAIRING,A/C RKT LNCHR,F/LAU 3A/A,60/A LNCHR,4FWD,AFT 63A79D327,8	408	2.295
FAIRING,A/C RKT LAUNCHER,FWD,F/LAU 61/A,69/A LAUNCHER 67A80D317	1138	3.55625
FAIRING,A/C RKT LNCHR,F/LAU 68/A LNCHR,C/O FWD FAIR 67A282D317	21461	107.305
FAIRING,A/C RKT LAU,F/LAU 61/A,69/A,4ST/FBR CNTR 67A283J1	5898	25.80375
ROCKET MOTOR 318MM W/IGNITER MODEL M26	122	83.875
LUG,SUSPENSION,F/LAU 10/A/AERO 5A-1, LAUNCHERS, INERT	28	0.0182
PALLET,HANDLING,MATERIAL,MK3-0,STEEL 40X48	231	10.857
PALLET,MATERIAL,HANDLING,STEEL,MK12-0, 45 1/2 X 35 DWG# 2086479	198	10.89
PALLET ADAPTER,COMPLETE,MK11-1,F/12 5IN PROJ/RKT HEAD 1341956	2535	49.4325
PALLET,MK8-0,COMPLT,STL,BOMB,F/12 250#,BOMB,MK81,1279587	4	0.532
PALLET,BOMB,MK8-0,BOTTOM FRAME 1579690	151	3.926
PALLET,BOMB,CMPLT,MK9-0,STL,C/O FRAME-TOP,BOTTOM,INTERM LD483319	3740	344.08
PALLET,BOMB,MK9-0,BOTTOM,FRAME P/N1583385	1609	70.796
PALLET,BOMB,MK9-0,MODIF,F/THERMAL PROTECT BOMB,MK82	34	3.009
PALLET,BOMB,CMPLT,MK11-0,STL,C/O TOP,BTM FRAME,F/3 #1000 BOMB	489	48.9
PALLET, BOMB, MK 11-0 BOTTOM, INERT	1	0.0765
PALLET,LOADING & STORAGE;BOMB;MHU 122/E	1409	59.8825
PALLET ADAPTER,MK58-1,BASE FRAME 2642601	41	6.4575
PALLET ADAPTER,MK58-1 ,TOP FRAME 2642602	17	0.0935
PALLET ADAPTER,SUPPORT,STEEL,MK58-1	21	0.2625
SPACER,TOP ASSEMBLY	41	0.451
FIN ASSY,UHF DORSAL TELEMETERING AN/DKT-34C,FREQ 2212.5 MHZ	41	0.854166667
FIN,ASSY,DORSAL,UHF,AN/DKT-34C F/RIM-66A	54	0.18747
FIN ASSY,UHF DORSAL TELEMETERING AN/DKT-34C,FREQ 2262.5 MHZ	55	1.145833333
FIN ASSEMBLY, UHF DORSAL TELEMETERING	3	0.0055
FIN ASSEMBLY, UHF DORSAL TELEMETERING	7	0.012833333
TELEMETERING,INSERT,ANB/DKT-42B,E FREQ 2262-5 MHZ,F/SM-2	8	0.558
FUZE,SHROUD, ASSY, INERT, MK 368-5 F/RIM-66A,67A	10	0.35

FUZE,SHROUD, ASSY, MK 368-6, INERT, F/RIM-66A,66B,667B	11	0.385
ACOUSTIC,DEVICE,COUNTERMEASURE,MK2-0,U/TOCONFUSE ENEMY SONAR	22	0.1485
CABLE ASSY, ADAPTER	156	0.2275
ROCKET,METEOROLOGICAL,PWN-11A	2	0.098
FLECHETTE,WARHEAD,WDU-4A,F/WHD 2.75IN P/N 65D11035	132	0.8085
ACTIVATOR,AT MN,PRAC,M1 73-9-46,7548391I/P,7543900/P	172890	25.9335
FIRING DEVICE,APERS,MINE M57,F/MN,AP.M18A1 PKG AS REQD 8800924	14699	7.05552
BURSTER FIELD INCD M4	1931	2.41375
SPOOL,APERS,WIRE,TRIP,OLIVE DRAB/SAND,F/MN,AP,M2,M3,M8 8796355	9	0.045
PRIMER-IGNITER,MN FZ,F/FZ,MN,COMBO,M10/M10A1,F/MN,M8 73-9-25	39673	2.248136667
CHARGE,SPOT,MN,F/MN,APERS,PRAC,M8 82-15-26G	81753	5.4502
CANISTER,MINE,DISPENSER,SM87/M87,ANTI-PERSONNEL & ANTI-TANK	310	6.82
FUZE,MN,AT,HE,M603,F/MN,M6,M7,M15 73-9-55,FSA-21-59	2498	0.3903125
FUZE,MN,AT,PRAC,M604,F/AT,PRAC MN DODIC K230,K231 73-9-86	13708	2.360822222
FUZE,MN,COMBO,M10A1,W/O PRMR-IGNTR 73-9-25A	16617	1.38475
FUZE,MN,COMBO,M605,F/MN,APERS,M16 7548284	72126	26.66371875
FUZE, MINE M624	7632	13.356
MINE,APERS,M16,W/FZ,MN,COMBO,M605 82-0-194,WR-55/65	63642	310.25475
MINE APERS PRAC M68	1	0.004416667
MINE,APERS,M18A1/T48E3,W/ACCESS,BLAST CAP M4,FIR DEV M57 8835166	1005	4.43875
MINE,APERS N/BOUNDING DESIGN TYPE,M18A1	1	0.003333333
MINE ANTIPERSONNEL/INERT FILLED	363	1.815
MINE ANTIPERS M74	600	1.47
MINE,AT,HE,HEAVY M15,W/FZ,MN,AT,M603,ACTIVATOR M1 82-0-189	398787	2139.20244
MINE,AT,HE,HEAVY,M21,W/FZ,MN,COMBO,M607,BSTR M120 8831341	8227	92.55375
MINE ANTITANK M75 EXPLOSIVE RDX/ESTANE	100	0.27375
MINE,AT,PRAC,EMPTY,HEAVY M12/M12A1,W/O FZ 82-15-44-4,FSA-21-59	5884	57.0748
MINE,AT,PRAC,EMPTY,HEAVY M20/T38 7548128,7548124,7548171 O/P	39	0.325
MINE ANTITANK PR M79	922	2.46635
MINE, ANTITANK, TRAINING	3	0.05625
MINE,AT,HE,NM,M19/T18,W/FZ,M606,ACTVTR M2 82-15-71,WR-55/68-1	166	2.8745
SIMULATOR,APERS MN,PROJ,F/MN,APERS,PRAC,M8 82-15-26A	1296	0.1431
CAP APERS F/M8 MINE	29660	2.059722222
ARMING PLUG,AT MN,M4/M4B1 76-1-1315O/P,8796522,82-15-50	2187	0.54675
BODY,MINE,APERS,F/PRAC APERS MN,M8 82-15-20A	2671	4.67425
DISPENSER & MINE, CBU-78/B ,SUU-58/B	2	1.0735
DISPENSER & MINE,AIRCRAFT,CBU-78(P-1)/B,MECH TIME FUZE	36	14.877
DISPERSER & RIOT CONTROL AGENT M36, XM36	224	0.597333333
DISPERSER AND RIOT CHEMICAL MACE MK IV/B	82	0.01025
RIOT CONTROL AGENT,O-CHLOROBENZALMALONONITRILE CS1 MIL-C-50090D	240	0.21
RIOT CONTROL AGENT,CS,O-CHLOROBENZALMALONONITRILE CAPSULE	100	0.0073
RIOT CONTROL AGENT,CS1,O-CHLOROBENZALMALONITRILE MIL-C-50009	356	0.4539
SMOKE POT MK 6 MOD 0,GROUND TYPE W/MK 388 MOD 0 FUZE	13	0.01495
SMOKE POT,M6,GROUND,W/FZ,M201A1,SGF-2 FOG OIL,FUEL MIX C11-18-3	22	0.023375
SMOKE POT M1 GRD TYPE	6	0.054
SMOKE POT	34	0.0799
SMOKE POT,M4A2,FLOAT,W/FZ,M207A1,HC SMK MIX,10-15MIN BN C36-1-26	6226	149.433
SMOKE POT,AN-M7,FLOAT,W/FUEL,SGF-2 FOG OIL,W/O FZ D36-1-111	143	2.6455
SMOKE POT,MK3-0,GROUND,W/IGNTR,HC SMK MIX,5-6MIN BURN TIM 344501	189	3.54375
FUZE,SMOKE POT,M208,MECHANICAL,8-20SEC DLAY C36-7-9	11505	1.8695625
FUZE,SMOKE POT,M209,ELECTRIC TYPE B36-7-25,DLB36-7-25	4269	0.63914
THICKENING SOLUTION FUEL ALKALINE GEL, FIREBOMB SOLUTION B	138	25.875
THICKENING SOLUTION FUEL NON-ALKALINE GEL, COMPONENT FIRE BOMB	134	29.6625
THICKENING COMPOUND,FUEL,M2,100LB DRUM MIL-T-13025B,WR-54/99	359000	260.275
THICKENER, INCENDAIRY OIL: M4, 2 1/2 LB	476	0.495833333
THICKENER	6370	3.497638037
FOG OIL,SGF2 F/SMOKE POTS,PKG IN 55 GAL DR	22673	68.019
TANK,SMK SCREEN GEN MK2 MODS,W/FM SMK MIX 394723,422735,LD59960	610	167.9025
CRESYLIC ACID,XYLENOL,MIL-C-13246A,WA-54/100	213	1.006909091
SPRAY GUN,CN,TRAINING,MK1-0,CHARGED LD58336,267708	27	0.0945
RACK,INSTRUMENT,SUBASSY, CONFIGURATION E F/MINE MK 52-1 OA-04	1	0.0425
RACK,INSTRUMENT,SUBASSY CONFIGURATION E F/MINE MK 52-2	2	0.085
RACK,INSTRUMENT SUBASSY, CONFIGURATION E F/MINE MK 55-7	1	0.0425
DECODER,SIGNAL MK 1-0 F/MINES MK 60	2	0.005
CASE,SUBASSEMBLY U/W/MINE MK 52 MODS 2,3,5,6	667	363.1815
CASE,MINE,SUBASSY,CONFIGURATION E,F/MINE,MK55-2.3.5.6.7	1471	1546.021
SQUIB,ELEC,MK 16-0,F/FITTING,EXPLO MK 30 & MK 32	80	0.020833333
SHIPPING AND STORAGE CONTAINER,GP, F/CNU/287/E NALC KW61	55	8.3875
ADAPTER SET, CRATE MK112-0 F/MINE CRATE MK55-1 2644678	1	0.0375
ANCHOR, MECHANISM SECTION SUBASSY CONFIGURATION E, W/FLOODER	2	1.579
KIT,MODIF,DESTRUCT,MK75-11,F/DST,MK36,40 5387562	79	1.6985
BOOSTER, MODIFICATION KIT,MK75 MOD-12	32138	779.3465
DETONATOR, ASSEMBLY EXPLOSIVE LGM-30	18	0
LINEAR SHAPED CHARGE (LEFT UNIT)	2	0.091
LINEAR SHAPED CHARGE (RIGHT UNIT)	2	0.091
INITIATOR, GAS GENERATOR, CONTAINS INITAITED SUBASSY	3	0.03
CARTRIDGE, GUIDED MISSILE, AGM-86B	1	0.004425
DISPENSER,FLARE	1	0.17275
SIGNAL KIT, PERSONNEL DISTRESS	675	0.125166667
SIGNAL KIT PERSONNEL DISTRESS M186	43	0.0344
SIGNAL KIT,PERS DISTRESS,MK79-0,W/7 SIG,RED,MK80-0 LD256003	82	0.024171569

SIGNAL,KIT,PERSONNEL,DISTRESS,AP-255-5A	284	0.1278
DISPENSER,FLARE,PNEUMATIC 712722-10	4	0.691
FALSE TARGET,SUBMARINE,MK2-1,W/18 INCR,LITHIUM-HYDRIDE DL212870	375	2.0569
CARTRIDGES,SIGNAL 1.4G,UN 0312 PGII	7	0.04455
SIGNAL KIT, ILLUMINATION VARI-COLOR, MK 135 MOD 1	192	0.0624
SIGNAL KIT ILLUMINATION MK 108 MOD1 W/7 SIGNALS	5955	1.914941176
CARTRIDGE,PHOTOFLASH,M123A1,2 SEC DLAY 8847519	19448	59.96466667
SIGNAL,SMK,A/C,MK7-0,EMERGENCY ID,GREEN SMK LD62612,233405	97	0.1455
SIGNAL,SMK,A/C,MK7-0,EMERGENCY ID,YELLOW SMK LD62612,233405	39	0.0585
SIGNAL ILLUMINATION RED	150	0.0225
CTG,SIGNAL,ILLUM	130	0.066083333
SIGNAL,ILL,MARINE,MK1-0,RED STAR,COMET LD615260	92	0.115
SIGNAL,ILL,MARINE,MK1-0,YELLOW STAR,COMET LD615260,2127739	60	0.075
SIGNAL,ILLUMINATION	227	0.284222917
SIGNAL,SMK,MARINE,MK2-1,RKT,RED SMK LD615265,2127744	122	0.1503
SIGNAL,ILL,MARINE,MK41-0,YELLOW,SUB EMERGENCY ID LD282768	19	0.068811667
SIGNAL,ILL,MARINE,MK46-0,RED,SUB EMERGENCY ID LD282769,1331898	20	0.071666667
MARKER,LOCATION,MK24-0,SUBMARINE,BLACK DL1331980,WR-54/135A	10	0.018
MARKER,LOCATION,MK22-0,SUBMARINE,YELLOW DL1331978	21	0.0378
SIGNAL,SMK,MARINE,MK21-0,SUBMARINE,RED DL1331979,WR-54/135A	218	0.3924
SIGNAL ILL AN-M37A2	6249	2.2261375
SIGNAL,ILL,A/C,AN-M38A2,DBL STAR,YELLOW-YELLOW 8847462-2	343	0.12219375
SIGNAL,ILL,A/C,AN-M39A2,DBL STAR,GREEN-GREEN 8847462-3,WR-55/75	228	0.14923125
SIGNAL,HAND FIRED MK80-0,RED STAR LD615183	185	0.004545382
SIGNAL,SMK,ILL,MARINE,MK116-1,GREEN,F/NS MN PROGRAM 3278872	639	2.4495
SIGNAL,SMK,ILL,MARINE,MK115-1,YELLOW,F/NS MN PROGRAM 3278870	708	2.714
SIGNAL,SMK,ILL,MARINE,MK115-0,YELLOW,F/NS MN,MK52,55 3014579	32	0.122666667
SIGNAL,SMK,ILL,MARINE,MK116-0,GREEN,F/NS MN,MK52,55 3014466	65	0.249166667
SIGNAL,SMK,ILL,MARINE,MK66-0,RED LD282846,1332012,WR-54/130B	178	0.6764
SIGNAL,SMK,ILL,MARINE,MK67-0,GREEN LD282847,1331987,WR-54/130B	14	0.0532
SIGNAL,SMK,ILL,MARINE,MK68-0,YELLOW LD282848,1332028,WR-54/130B	10	0.038
SIGNAL,SMK,ILL,MARINE,MK117-0,GREEN,F/LOW ALT DL2816273,LD615205	11	0.0418
SIGNAL,SMK,ILL,MARINE,MK118-0,YELLOW,F/LOW ALT DL286274	31	0.1178
SIGNAL,SMOKE AND ILL.,MARINE MK99-0,YELLOW,CNTR M548 2113382	14	0.0175
SIGNAL,SMOKE & ILLUM MARINE YELLOW MK99 MOD 1	22	0.0275
SIGNAL,SMK,ILL,MARINE,MK13-0 LD165580	694	0.307527778
SIGNAL,ILLUM,MARINE,TWO STAR RED	111	3.34665
SIGNAL,ILLUMINATION	154	0.154
SIGNAL ILL GND M187	300	2.43
SIGNAL ILL GND M188	1248	10.1088
SIGNAL ILL GND M189	1101	0.0356724
SIGNAL,SMK AND ILLUMINATION,MARINE,MK124-0,DISTRESS DL3139734	35	0.017824074
SIGNAL,SMK,ILL,MARINE,MK125-0,WHITE,F/NS MN PROGRAM 3261665	1593	91.5975
SIGNAL,SMK,MARINE,DISTRESS,FLOAT,MERCH SHP,ORANGE SMK 160022-2-1	7801	9.436693548
SIGNAL,SMK,ILL,A/C,MK5-4,DRIFT,NIGHT LD256089,982534	86	0.349375
SIGNAL CTG,WHITE FLARE,F/U/W/LAU LX11 LS30XRLW	40716	1.861302857
SIGNAL CTG,YELLOW FLARE,F/U/W/LAU LX11 LS30XRLY	29400	1.344
SIGNAL CTG,GREEN FLARE,F/U/W/LAU LX11 LS30XRLG	41448	1.894765714
SIGNAL ILLUM GRN M195 TAR PARACHUTE M195	28	0.019361111
SIGNAL,ILL,GROUND,M158/T133E2,RED STAR,CLUSTER,HAND HD 8797920-1	43	0.040611111
SIGNAL WHITE STAR CLUSTER,GROUND ILL,M159 P/N8797920	136	0.155833333
SIGNAL,ILL,GROUND,M19A2,GREEN STAR,PARA 78-0-37-10	1875	2
SIGNAL,ILL,GROUND,M126A1,PARA,RED STAR,HAND HELD 8797968	62	0.058555556
SIGNAL,ILL,GROUND,M127A1/MK127E1,WHITE STAR,PARA,HAND-HELD 87979	146	0.139902778
SIGNAL,ILL,GROUND,M22A1,AMBER STAR,CLUSTER 78-0-38-6	11	0.011366667
SIGNAL, GREEN STAR CLUSTER M125A1	43	0.045944444
SIGNAL,ILL,GROUND,M52A1,RED STAR,CLUSTER 78-0-38	15	0.0155
SIGNAL,ILL,GROUND,M18A1,WHITE STAR,CLUSTER LS5RRX	22	0.022733333
SIGNAL,SMK,GROUND,M64,T40E1,YELLOW,STREAMER 78-0-106	214	0.196166667
SIGNAL,SMK,GROUND,RED,PARA,M129A1/E1/T75E1 8797996,MIL-S-13303	13	0.012277778
SIGNAL,SMK,GROUND,GREEN,PARA,M128A1/T74E1,HAND HELD 8797996	80	0.075555556
SIGNAL CTG,RED FLARE,F/U/W/LAU LX11 LS30XRLR	16311	1.014274286
SIGNAL,ILL,GRND,DISTRES,PERS,MK140-0,.38CAL,GREEN/RED DL2113414	6672	0.12788
SIGNAL CTG,WHITE SMK,F/U/W/LAU LX11 LS30XSSW	54600	2.496
SIGNAL CTG,RED SMK,F/U/W/LAU LX11 LS30XSSR	51100	2.336
SIGNAL CTG,YELLOW SMK,F/U/W/LAU LX11 LS30XSSY	28700	1.312
SIGNAL CTG,GREEN SMK,F/U/W/LAU LX11 LS30XSSG	20990	0.959542857
PROJECTILE,AIRBURST,SMOKE PJU 7A/E	25200	17.325
SIMULATOR,PROJ,AIR BRST,M74/M74A1/T50,F/PISTOL,PYRO,AN-M8 78-096	31767	11.31699375
SIMULATOR, LAUNCHING, ANTITANK GUIDED MISSILE AND ROCKET, M22	3534	0.6479
SIMULATOR,PROJ,AIR BRST,F/DISCHARGER,SMK PUFF 71-13-3	596	0.07003
LAUNCH,CHARGE, CCK-77/E	26338	1.827534694
DETONATION SIMULATOR,EXP,MK2-0,FMY,FIRECRACKER LD416852,562006	13666	0.232322
FLARE,AIRCRAFT,PARACHUTE ASSY,M9A1	41	0.131785714
FLARE,A/C,PARA,MK24-3,W/O SUSP BAND,F/DISP SUU 44/A LD615194	178	2.492
FLARE, ARICRAFT COUNTERMEASURE M206	4798	1.60733
FLARE,AIRCRAFT,PARACHUTE LUU-2/A/B W/O SUSP BAND	27	7.552083333
FLARE,AIRCRAFT,PARACHUTE DESIGN MK 45 MOD 0 W/INERT FUZE	8	0.1248
FLARE,A/C,PARA,MK24-4,W/DROGUE TRAY,F/DISP SUU 44/A 2127874	50	0.725
FLARE,A/C,PARA,MK45-0,W/DROGUE TRAY,FUZE,MK364-0 2127903-1	768	11.904
FLARE AIRCRAFT MJU-7/B	14	0.00945

FLARE,AIRCRAFT,MJU-7/B ALE-40	140	0.0945
FLARE,INFARED,RR-119/B	7986	8.98425
FLARE,PARACHUTE,AIRCRAFT LUU-2B/B	5	0.7925
FLARE,PARA,LUU,2B/B,W/DROGUE TRAY,F/LAUNCHER,SUU-44/A 7926301	440	6.7408
FLARE,PARACHUTE,AIRCRAFT,LUU-4/B	5709	71.600375
FLARE,SURFACE,MK20-0,HIGH ALTITUDE,PARA 421958,421964,DL2127834	2513	5.93068
FLARE,A/C,MLU-32/B99,BRITEYE,HOT-AIR SUSP DL67A82D107	58	5.423
FLARE,IR,MJU-10/B.AIRCRAFT	11	0.018333333
FLARE AIRCRAFT	231	0.155925
FLARE,A/C,PARACHUTE,MK45-0,INERT W/DROUGE TRAY DWG#2127923-1	5	0.025
FLARE, BALLISTIC, AER	4	0.0022
FLARE,GUIDED MISSILE	3	0.001473214
FLARE,SURFACE,TRIP,M49A1/M49E2,W/ACCESSORIES 8836957,WR-55/72	767	0.55559375
FLARE SURF M49 32/C+N	12	0.008625
FUSEE, WARNING, RAILROAD RED, 20 MINUTE M72	1520	0.874
SIGNAL KIT,ABANDON SHIP,COMPLETE SK99749	119	0.15246875
SIGNAL,SMK,ILL,A/C,SDU-28/A 2128102	93	0.011302083
SIGNAL, SMOKE & ILLUMINATION F/AIRCRAFT MK 6-3	572	7.025
SIGNAL ASSY,MK39-0,GREEN,F/DRILL MN 14762949	389	0.891458333
SIGNAL,MK25-2,F/MN,MK25,36,52,55,56 22813174	672	1.54
FUSEE,WARN,RR,MK1-1,BLUE,75 SEC BURN TIME 344438	5701	1.385659722
FUSEE,WARN,RR,MK1-0,RED,135 SEC BURN TIME 344438	3130	0.760763889
SIGNAL,ILL,MARINE,MK2-0,GREEN STAR 344562	951	0.82737
SIGNAL,ILL,MARINE,MK2-0,RED STAR LD282851,344562	26	0.02262
SIGNAL,ILL,MARINE,MK2-0,WHITE STAR 344562	160943	700.10205
MARKER,LOCATION,MARINE,MK25-3,W/1 S/W BATT,1 SQUIB LD615124,53	54	0.104625
MARKER,LOC,MARINE,MK1-3,DPTH CHG,DAY,YELLOW LD256090,1211714	249	0.6225
MARKER,LOCTION,MARINE,MK2-0,DEPTH CHG,NIGHT LD102927,344505	775	2.325
MARKER,LOC,MARINE,MK28-0,SUBMARINE,GREEN DYE LD282822,LD282881	170	0.697
MARKER,LOC,MARINE,MK8-0,CHROME YELLOW LD299445,1369957,1475905-2	193	0.361875
MARKER,LOC,MARINE,MK26-0,SUB LOC MRKR LD282765,LD299348,1331892	181	0.512833333
MARKER,LOCATION,MARINE,MK58-1,W/O SUSP BAND DL3139741 DL2141498	122	0.793
MARKER,LOCATION,MARINE,MK58-0,W/O SUSP BANDS LD615161,LD615197	13	0.09425
SIMULATOR,LAUNCHING	796702	235.23404
SIMULATOR,PROJ,GROUND BRST,M115A2/M115E2 7549246	440	0.1474
SIM,PROJ,AIR,LIQ,M9 (20 SIM=1 KIT)	18	0.06975
SIMULATOR,FLASH,ARTILLERY,M110,W/SQUIB,S93 76-1-1161,76-1-1265	846	0.774276667
SIMULATOR,EXPLOSIVE,BOOBYTRAP,M117,FLASH,W/ACCESSORIES 78-0-120	7194	1.12706
SIMULATOR,EXPLOSIVE,BOOBYTRAP,M118,ILL,W/ACCESSORIES 78-0-122,23	37869	5.93281
SIMULATOR,EXPLOSIVE,BOOBYTRAP,WHISTLING,M119,W/ACCESSOR 78-0-124	39	0.00637
SIMULATOR, HAND GRENADE,M116A1, P/N 8835109	943	0.204316667
SIMULATOR,50MM,FLASH ARTILLERY,M21, P/N 9349243,9322059	4715	6.644802469
STARTER,FIRE,M2,NP-3	494	0.02107
FLARE, TARGET, MARKING, LUU-1/B	5	0.079305556
FLARE, TARGET MARKING	462	9.8175
MACHINE GUN SIMULATOR, MK110 MOD 0	26	0.14924
FLARE, AIRCRAFT, LUU-19 A/B	2	0
GUIDED MISSILE,CAPTOR,CATM-7E-C,TRAINING	6	1.281
SPACER,EJECTOR	593	0.091230769
ARMING, ADAPTER, SELF ADJUSTING F/MK 80, GP BOMB U/W/AV-8A/C & F	70800	40.002
ARMING ADAPTER,LB.WT,SELF-ADJUSTING;FK/MK80	11748	0.5874
FLARE,COUNTERMEASURE	358	0.186458333
TARGET, MOBILE, MINIATURE, MK 39-0	220	4.4
FLARE,INFRARED	13157	6.202585714
ADAPTER KIT,MARINE MARKER,MK34-0,F/U/W/MARINE MRKR,MK25 LD256003	6338	2.112666667
FLARE,TARGET,MK 28 MOD 3	511	3.8325
SIGNAL KIT, FLASH, MK 47-0	2	0.028
FLARE,INFRARED	112	0.217
FLARE,PYROTECHNIC P	2192	0.8768
FLARE,COUNTERMEASURE	1749	0.824528571
FLARE,COUNTER MEASURE,DECOY	13238	131.0562
FLARE,INFRARED	1890	10.8675
FLARE,COUNTERMEASURE	1004	0.473314286
FLARE,COUNTERMEASURE	195	0.092857143
AGITATOR,MUD,MK1-1,SUBASSY,EXPL,W/MODIF PIST,F/MN,MK57 5388851	679	34.2895
GAS GENERATOR, SUBASSEMBLY, EXPLOSIVE W/IMPROVED PROPELLANT	868	6.51
MODIFICATION KIT, AMMUNITION /MK130 MOD 0	269	130.465
AGITATOR,MUD,MK1-1,SUBASSY,EXPL,W/MODIF PISTON,F/MN,MK57 5388724	325	11.8625
PISTON,EXPLO,LDD,F/MINE,MK57-0 P/N 5388706	269	0.125085
FLIGHT GEAR SUBASSY F/MINE MK 55	400	70
FLIGHT GEAR SUBASSY,F/MINE EXERCISE & TRAINING,MK55 FAIRED	4	0.6
FLIGHT GEAR SUB-ASSEMBLY MINE MK 56, FAIRED F/MINE MK 56-0	328	57.4
FLIGHT GEAR,SUBASSY,F/MN EXERCIS + TRING,F/MN,MK56-0 5388680	12	1.8
FLIGHT,GEAR SUBASSEMBLY, LOW SPEED, LOW ATTITUDE	8	0.6
FLIGHT, GEAR, SUBASSY, F/MINE MK 52	132	7.194
PACK,PARA,SUBASSY,F/EXERCIS + TRAIN,F/MN,MK52 5387490-2	16	0.88
PACK,PARACHUTE,SUBASSEMBLY,F/MINE MK 55	1705	119.35
PACK,PARACHUTE,SUBASSY,HIGH SPEED/LOW ALT F/MINE MK 56	366	36.6
PACK,PARACHUTE SUBASSEMBLY F/EXERCISE & TRAINING MINE MK 56	7	0.7875
DEVICE DIVERSIONARY CHARGE	2	0.001
LAUNCHER KIT,SIGNAL,POCKET,C/O POLY CTR 2 BNDLR	53629	7.776205

SIMULATOR (SMAW) NOISE,CTG,ASSAULT,RKT,TRAINER,MK213-0	58001	13.050225
FLARE SET ASSEMBLY	11	0.3135
FLARE,AERIAL,INFRARED	27	0.02484
CHAFF COUNTERMEASURES	4531803	1095.185725
CARTRIDGE ASSEMBLY,FLARE,ALA-17A,	4318	15.3019125
CARTRIDGE,CHAFF,W/O ELECTRIC SQUIB	8559	1.991613462
SPLIT RING,F/FLARE,LUU-2B	6107	0.127229167
PAN,SHOCK F/DISPENSER SUU-25 P/N 7530836-10	1	0.0195
COVER,PYROTECHNIC,F/SUU-401A & 44/A, FLARE	1	0.00196875
CARTRIDGE, CHAFF COUNTER,EXWT	2317	7.157
HE,MATERIEL,COMP B,RECLAIMED,DERIVED F/MELT OUT	212	0.11448
ADAPTER,PRIMING	759	0.00063756
ADAPTER,PRIMING,M1A4 82-0-169,8800913	47731	15.78544833
CARTRIDGE,IMPULSE,STEEL,EX 80 MOD 0	3	0.015
CARTRIDGE,IMPULSE,MK17-0,F/MULTI BOMB RACK LD491836,1669376	300	0.04375
CTG,IMP,MK19-0,F/JETTISON CANOPY,A-1H,J A/C LD419700,2164465	280	0.35
CHARGE,DEMOLITION	401	0.250625
CHARGE, DEMOLITION	451	0.353283333
CHARGE, DEMOLITION BLOCK M118 PETN	172	2.2575
DEMOLITION KIT,BANGALORE TORPEDO,MIA1 82-0-84,8863369	11	0.968
DEMOLITION KIT,BANGALORE TORPEDO,M1A2 8863369,WR-53/247A	4209	416.691
CHARGE,DEMOLITION	950	1.12
CHARGE,DEMO,BLOCK,1/4 LB,TNT,PKD W/ADAPTER & PRMR 8797113	16	0.0035
CHARGE,DEMO,BLOCK,1/2 LB,TNT 82-13-24,8885245,WR-55/86	93	0.034390625
CHARGE,DEMO,1LB TNT BLOCK,F/SM DEMO OPER/BSTR CHG 82-13-24	505	0.366759583
CHARGE,DEMO,BLOCK,8LB,TNT 8796556,OP-2212	374	1.9635
CHARGE,DEMO,M1,W/CHAIN OF 8-2.5LB,75-25 TETRYOL CHG,DET 82-0-87	802	12.431
CHARGE,DEMO,BLOCK,M5A1,2.5 LB,COMP C-4 82-13-9,WR-55/84	246	0.384375
CHARGE, DEMOLITION UN 0048 PGII	3	0.0885
CHARGE,DEMO,MK2-0,55LB CAST TNT,W/1/2 LB TNT BSTR,EARLY 328794	440	15.4
CHARGE, DEMOLITION, MK 8 MOD 2	1	0.00578
GENERATOR,GAS PRESSURE,TRANS,W/CTG,IMP,MCORMICK SELPH CTG 807270	1	0.00012
CARTRIDGE,IMPULSE,CCU-11/B, ELEC, DETONATION	22	0.022
CAP, BLASTING, ELECTRIC M4	468	0.607666667
CHARGE, DEMOLITION, PLASTIC,FLEXIBLE LINEAR	9	0.01875
CAP,BLASTING,#11,DLAY,SPEC,ELEC,10SEC DLAY,F/UNWTR USE 2128449	72	0.003888
CAP,BLASTING,#12,DLAY,SPEC,ELEC,11.2SEC DLAY,F/UNWTR USE 2128449	1014	0.054756
CAP, BLASTING, NO. 13 DELAY SPECIAL ELECTRIC	94	0.005076
CAP,BLASTING,#14,DLAY,SPEC,ELEC,14SEC DLAY,F/UNWTR USE 2128449	1838	0.13785
CAP, BLASTING, ELECTRIC, NO. 15 DELAY SPECIAL	60	0.00324
CAP BLAST NON-ELECT	8114	0.144892857
CAP, BLASTING ELECTRIC INERT	9293	0.80986
CAP,BLASTING,#1,DLAY,SPEC,ELEC,.8SEC DLAY,F/UNWTR MIL-C-14003	9942	0.536868
CAP,BLASTING,#2,DLAY,SPEC,ELEC,1.4SEC DLAY,F/UNWTR MIL-C-14003	7901	0.426654
CAP,BLASTING,#3,DLAY,SPEC,ELEC,2.2SEC DLAY,F/UNWTR MIL-C-14003	9687	0.523098
CAP,BLASTING,#4,DLAY,SPEC,ELEC,2.9SEC DLAY,F/UNWTR MIL-C-14003	13770	0.74358
CAP,BLASTING,#5,DLAY,SPEC,ELEC,3.7SEC DLAY,F/UNWTR MIL-C-14003	11253	0.607662
CAP,BLASTING,#6,DLAY,SPEC,ELEC,4.5SEC DLAY,F/UNWTR MIL-C-14003	16729	0.903366
CAP,BLASTING,ELEC,COMMERCIAL,#6 SHORT LEAD,F/GAS ID A18-60-255	264688	12.705024
BLASTING CAP ELEC, SPECIAL #6	70	0.0021
CAP,BLASTING,#7,DLAY,SPEC,ELEC,5.3SEC DLAY,F/UNWTR MIL-C-14003	2599	0.140346
CAP,BLASTING,#8,DLAY,SPEC,ELEC,6.4SEC DLAY,F/UNWTR MIL-C-14003	3583	0.193482
CAP,BLASTING,#9,DLAY,SPEC,ELEC,7.6SEC DLAY,F/UNWTR MIL-C-14003	11545	0.311715
CAP,BLASTING,#10,DLAY,SPEC,ELEC,8.8SEC DLAY,F/UNWTR MIL-C-14003	15709	0.424143
CAP,BLASTING	3607	0.408957361
CAP,BLASTING,NON-ELEC,SPEC,J-1 PETN/RDX 393652,OD44617	94162	1.240552278
CARTRIDGE, ENGINE STARTER MXU-4A/A	3831	103.437
CARTRIDGE,IMPULSE,MK23-0,F/HELO,FMY CTG,PDR ACT CTR LD491837	17	0.001416667
CARTRIDGE,IMPULSE,2.109INCH F/CH-46A	42	0.0378
HOLDER,BLASTING CAP	2127	7.4445
CARTRIDGE, POWDER ACTUATED CAL 22 #2 CHG BROWN BAG	8104	0.058754
CARTRIDGE,POWDER,ACTUATED,TOOL 22.0 CALIBER, GREEN WAD	2000	8
CARTRDIGE,POWDER,ACTUATED,TOOL 22 CALIBER	2400	8.4
CARTRIDGE,POWDER,ACTUATED,TOOL 22 CALIBER GRAY WAD	9100	31.85
CARTRIDGE,IMPULSE	23780	4.93377619
CARTRIDGE,AIRCRAFT	338	1.69
IMPULSE, CARTRIDGE, ARD-4469-1	6008	7.498
CARTRIDGE, POWER DEVICE	17292	21.615
CARTRIDGE,AIRCRAFT	10	0.0125
CTG,IMPULSE,RR-129 CHAFF,F/AN/ALE-A CHAFF,DISPENSER POD 750AS100	990	0.0245375
CTG, IMPULSE MK 14 MOD 0 F/A-7 AND F-8 SERIES AIRCRAFT	1	0.00025
CTG,A/C FIRE EXTINGUSHER DUAL SQUID	16	0.0025
CTG, ACFT FIRE EXT F-111	15	0.015
CARTRIDGE,IMPULSE	2	0.007
CARTRIDGE, DELAY, MK 4 MOD 2	19	0.000791667
CARTRDIGE,DELAY,M252,20 SEC DELAY, 2000 PER BOX	502	0.30378
CATAPULT,A/C EJECTION SEAT,W/ROCKET MOTOR 1289-5	49	0.983
CATAPULT,A/C EJECTION SEAT,W/ROCKET MOTOR 1192-6B	39	0.897
CATAPULT,A/C EJECTION SEAT,MK7-3,W/RKT MTR,F/A7 A/C 4904113	8	0.112
BASE COUPLING,FIRING DEV,W/PRMR,PERC,MK27 82-0-175,MIL-B-11596	94113	7.620237
BOLT,EXPLOSIVE,MK1-0,F/SMK TANK,MK12-0 LD537919,LD537922	36	0.009

CATAPULT,A/C EJECTION SEAT,CTG & RKT MTR ACTUATED 10100-1-1	7	0.28
CARTRIDGE,IMPULSE,FORWARD THRUST,F/F-4 A/C CANOPY JETISN 2197200	23	0.001197917
CARTRIDGE,IMPULSE,MK124-0,F/A/C STOR,SEPRT,JETSN RELES DL2838195	448	0.0168
CARTRIDGE,IMPULSE,3IN SDCP,CTG #1,RANG 50YD,F/DPTH CHG 0300249	16	0.00704
CARTRIDGE,IMPULSE,3IN SDCP,CTG #2,RANG 75YD,F/DPTH CHG 422223-2	457	0.26506
CARTRIDGE,IMPULSE,3IN SDCP,CTG #4,RANG 35YD,F/DP CG PRJ 422223-4	73	0.028105
CARTRIDGE, SET, IMPULSE SEAT F/F-4	17	0.0425
CTG SET,IMPULSE,W/STNDRD PRIM CTG,2 SEC CTG 2519697	18	0.00675
CHARGES, DEMOLITION SHAPED MK47	6	0.378
CHARGE,DEMOLITION,M2A3,PENTOLITE 82-13-1	728	7.886666667
CHARGE,DEMO,M3,SHAPED,40LB,COMP B LDD 82-0-122,MIL-STD-1320-3	621	20.1825
DEMOLITION KIT, PROJECTED CHARGE	11	0.6655
DETONATOR PERCUSSION: M1A2 15 SECOND DELAY	20	0.0031
CORD DETONATING PETN, TYPE I, WTRPRF	8339	19.929429
CORD,DETONATING,PETN,W/DBL FABRIC,BR WIR,INTRWVN,WTRPF 8846784-1	11700	0.330525
DETONATOR,PERC,MK2-0,W/15 GR TETRYL BSTR LD165321,561514	5243	0.57673
DEMO CHG,MK1-0,STL,EMPTY,CONE,42 DEG NON STANDARD PAK	334	0.00835
CONTAINER, DEMOLITION CHARGE MK 2-1 STEEL EMPTY	42	0.045852083
CONTAINER,DEMO CHG,MK3-0,STL,EMPTY,CONE,3IN DIA,50/BX 422394-1	969	27.85875
CONTAINER,DEMO CHG,MK7-1,EMPTY,VEE TYPE,F/EODU SET 795510-1	1605	24.075
CONTAINER,DEMO CHG,MK7-2,EMPTY,VEE TYPE,F/EODU TOOL SET 795510-2	939	11.813475
CONTAINER,DEMO CHG,STL,MK7-3,VEE TYPE,F/EODU TOOL SET 795510-3	3025	105.52855
CONTAINER,DEMOLITIO	633	0.9495
CONTAINER,DEMO CHG,MK7-5,EMPTY,VEE TYPE,F/EODU TOOL SET 795510-5	423	0.03807
CASE, DEMO CHARGE, MK 7-6	2800	96.789175
CONTAINER, MK7-7,EMPTY,F/DEMO CHARGE	112	0.0784
CONTAINER,DEMO CHG,MK7-8,EMPTY,VEE TYPE 795510-8,6120571OP	208	0.10949
CONTAINER,DEMO CHG,MK8-1,EMPTY,LINEAR UNWTR ASSY 1350965	13433	0.1007475
CUTTER,CTG ACTD,MK4-0,FACE CURTAIN CABLE LD419690,2164490	4	0.000666667
CUTTER, CARTRIDGE, ACTUATED,M21, F/REEFING LINE, 2 SEC DELAY	80	0.00344
CUTTER,CTG ACTUATED,M22,F/REEFING LINE,10SEC DLAY,W/O BK 8875979	9159	2.80494375
CARTRIDGE,IMPULSE,MK9-0 LD537904,LD537905,LD537906,2240744	9242	0.670622625
CARTRIDGE,IMPULSE,MK38-0,F/THRUSTER BOMB CHUTE LD419709,LD537897	12	0.00125
CARTRIDGE,IMPULSE,MK44-0,F/TARGET DESTRUCT SYSTEM LD537925,7,8	12	0.00075
CARTRIDGE,IMPULSE,MK51-1,F/STORES RELEASE DL 2838297	447	0.055875
CARTRIDGE,IMPULSE,ALUM NO MODEL ASSIGNED	3	0.045
CARTRIDGE,IMPULSE,MK105-0,F/AQS-10,13,SONAR GUILLOTINE DL2519597	12	0.0025
CARTRIDGE,IMPULSE,GAS GENERATOR,F/F4 A/C MBEU P/N 36120,294AS100	24	0.00198
DYNAMITE,MILITARY,M1,PA-PD-525 MIL-D-45413,OP-2212	1129181	366.983825
CRYTOGRAPHIC,M1A2,EQUIP DESTROYER,INC D4-4-46,MIL-STD-1325-100	1952	53.68
DESTROYER,EQUIP,CRYTOGRAPHIC,M12A1,INCENDIARY 257215,D4-4-33	25	0.20625
DOCUMENT DESTROYER,EMERGENCY,INC,M3 D4-11-12,C4-11,WR-53/849	967	56.0685
CRYPTPGRAPHIC EQUIPMENT DESTROYER, INCENDIARY, M1A2	619	14.5465
CRYTOGRAPHIC,M12A1,EQUIP DESTROYER,INC C4-4-27,D4-4-27,WR-55/849	6	0.0495
EQUIPMENT DESTROYER,CRYTOGRAPHIC,M2A1,INC,TH4 LDD,W/FZ 2113538	273	2.0475
DESTROYER,FILE,INCENDIARY,M4,W/SQUIB,LEAD,SHORTING PLG D4-11-103	513	30.0105
FILE DESTROYER,INC,M4,W/MDP CNECTR,4IGNR BX,SHUNT BAR 2816229	343	6.43125
DESTRUCTOR,INC,TH3,ELECTRO-MOD,W/MK13-0 SQUIB,ELEC SQUIB 2128011	1751	2.2981875
IGNITER,INCENDIARY DOCUMENT DEST	2133	0.693225
FIRING DEV,DEMO,M1,DLAY,W/2RED,3WHIT,3GREN,2BLU CHEM PNC 8846784	690	0.03795
FIRING DEV DEMO M1 MINUTE DELAY	35	0.002770833
FIRING DEV,DEMO,MK6-0,W/ARMING CELLS,MK1-7,8,PRMR LD414458	234	0.21528
FIRING DEV,DEMO,M1,PRESSURE TYPE 73-9-70,MIL-STD-1325-100	35970	790.280586
FIRING DEV,DEMO,M5,PRESSURE RELEASE TYPE 73-9-61,WR-55/93	127370	16.330715
FIRING DEVICE,DEMO,M1,PULL TYPE 8797612,MIL-STD-1325-100	22540	2.760905
FIRING DEV,DEMO,MK6-0,W/O ARMING CELLS/PRMR LD414457,1802371	359	0.22617
FIRING,DEVICE, DEMOILITION MK 23 MODS, 30 MIN DELAY	10	0.005
FIRING DEVICE,DEMOL	50	0.0375
CUTTER,PROPELLANT ACTUATED,MK20-0 LD549534,2427988,WR-53/812	94	0.423
FIRING DEVICE,DEMO,MK26-0,TRAINING LD54944,242360,WR-55/94	1	0.00055
CARTRIDGE,IMPULSE,PERCUSSION,F/F-111,AIRCRAFT,EJECTOR,PARA,ACT	5	0.0075
CARTRIDGE, IMPULSE F/F-111A AIRCRAFT	20	0.088
FUSE,BLASTING,TIME,M700 WR-55/133,MIL-F-45144,OP-2212	14283	0.2093345
FUZE, BLASTING, TIME, DUMMY	964	0.6025
IGNITION CYLANDER,FLAME THROWER,M1 81-1-454,143-7-2,143-13-5	26417	7.13259
INITIATOR,CARTRIDGE,ATUATED,M53 W/IMPULSE CARTRIDGE M91	1	0.0015
INTIATOR,CTG,ACTUATED,M3A1C	9	0.01323125
INITIATOR,CTG ACTD,MK11-0,W/DLAY CTG,MK36-0,F/T2 A/C DL2518122	12	0.003
INITIATOR, CARTRIDGE	5	0.001875
INITIATOR, CARTRIDGE, ACTUATED, F-4 ACFT	18	0.045
INITIATOR, CARTRIDGE	6	0.045
CHARGE ASSEMBLY, DEMOLITION	2	0.00285
CHARGE ASSY,DEMO,M183,C/O 8-M112,1.25LB C-4 BLOCK,DET CD 9216416	335	4.77375
INITAITOR, JAU-8/A2 F/101	65	0.325
INITIATOR,PROPELLANT,ACTUATED,TIME DELAY,GAS,XM13/M113	3	0.006
IGNITER,TIME BLASTING FUSE,M60/T2,WEATHER-PROOF 8822497,WR-55/97	8257	0.86723
CHARGE,DEMO,MK133-2,W/CHAIN OF 8-2.5LB BLOCK HBX-1,DET CD 564593	137	2.56375
CHARGE,DEMO,MK138-1,W/10-2LB DEMO CHG,MK35-1,COMP C-4 LD615269	611	12.06725
PRIMER,PERC,CAP,M2/WESTERN CTG CO,IMPROVED,#3/EQUAL B4760-1	159608	0.709280156
DOCUMENT DESTROYER,EMERGENCY,INCEND1ARY,M4 D4-11-34	615	84.5625
SQUIB,ELCETRIC,C-130,STL BODY MSA-X-29,IGNITION CHARGE	55	2.75

SQUIB, ELECTRIC	100	0.12
SQUIB,ELECTRIC,S67 TYPE LD282803,1129844,OP-2212	11	0.00132
SQUIB,ELEC,MK 13-0,F/GRENADE,HAND INCENDIARY,TH3 ELECTRO-AN-M14	100	0.012
SQUIB,ELEC,SWITCH,MK112-2,F/SECT,AN/BST-1 TRANSMITTING 2280481-1	1	0.000025
SQUIB, ELECTRIC S-75 8805790	122	1.891
SQUIB,ELECTRIC,DUPONT,S68-4 MODEL,4.0 GRAIN CHARGE S68-4	1292	0.0323
SQUIB,ELEC,DUPONT,S-75 MODEL,1.5GRAIN CHG,NON-STD PACK 2519524	23208	2.43684
SQUIB ELECTRIC C-5A	553	1.3825
SQUIB,ELECTRIC,F/GUILLOTINE,F/UH-1 A/C 10057,2519631	44	0.0011
CHG,DEMO,HE,LINEAR,M58A4	3561	5341.5
CHARGE DEMO PRAC,FLEX LINEAR CHARGE DL2128450	107	160.5
CHARGE, DEMOLITION PRACTICE MK 47-0	2	0.00625
RKT MTR,MK82-0,MAN/SEAT SEPARATOR,LEFT HAND,F/S-3A,A-4 503AS100	2	0.0075
CTG,IMPULSE,MK 107-0,LAU-93/A,MISSILE LAUNCHER-PHOENIX	20	0.015
CARTRIDGE, IMPULSE, F/F-15G AIRCRAFT	25	0.0375
DEMOLITION KIT CRATERING: M180	4320	317.52
CORD,DETONATING,PETN,WATERPROOF, PN/100012114301	2000	0.03
CHARGE,DEMO,EXPL SHEET,(1 ROLL=19 FEET)UNIT PACK 38 FEET)	38	0.03
CHARGE,DEMO,EXPLOSIVE SHEET, (1 ROLL = 38 FEET UNIT PACK 38 FEET	1292	1.02
CHARGE,DEMO,EXPLO,SHEET (1 ROLL =15 FEET UNIT OF ISSUE 15 FEET)	75	0.105
CHARGE,DEMO,EXPL,SHEET (1 ROLL =13 FEET-UNIT OF ISSUE 13 FEET)	5902	9.534
CHARGE,DEMO,EXPL SHEET,(1 ROLL = 11 FEET UNIT OF ISSUE 11 FEET)	44	0.084
CHARGE,DEMO,EXPL,SHEET (1 ROLL = 9 FEET UNIT OF ISSUE 9 FEET))	144	0.336
CHARGE,DEMO ORDNANCE DISPOSAL,MK88-0,CH-6 EXPL,F/EOD 5206203,228	10	0.034
CORD,DETONATING,SMDC,GRUMMAN,F/F-14 A/C A51K9029-670,50670-2	35	0.001925
CORD,DETONATING,SMDC,LOCKHEED,F/S-3A A/C 741310-121,50296-121	4	0.00026
CORD DET,SMDC LOCKHEED,DWG#741310-205,F/S-3A A/C	1	0.00013
CORD,DET.SMDC PN 50293-235	2	0.00089
CORD,DET.SMDC PN 50296-237	1	0.005
INITIATOR CTG,ACTUATED,.30SEC DLAY,F/S-3A A/C 2248100,726AS125	137	0.026715
CARTRIDGE,IMPULSE,CCU-30/A,F/INERTIA-LOCK RESTRN HRNS 0113239-03	3	0.000675
CTG,IMPULSE,MK 152-0 F/MINE SWEEPING CUTTER MK 14-0	2105	0.44205
CARTRIDGE,IMPULSE,MK 154-0 F/MINE SLEEPING CUTTER, MK 15-0	49	0.003724
CTG, IMPULSE, MK 155-0 MINWEEPING CUTTER MK 15-0	713	0.52478
CARTRIDGE, IMPULSE, F/F-111A AIRCRAFT	11	0.00825
CUTTER, CTG ACTUATED F-111	11	0.012375
CARTRIDGE IMPULSE F/F-111A AIRCRFT	2	0.0024
CORD, DETONATING, FCDC LINE INTERCONNECTING F/AJ1J HELICOPTER	49	0.098
CORD DETONATING,FCDC LINE ITERCONNECTING F/AH1J HELICOPTER	62	0.124
CORD DETONATING ASSY SMDC F/AH-1J HELICOPTER	50	0.075
CORD DETONATING SMDC F/AH-1J HELICOPTER	44	0.066
WINDOW CUTTING ASSY F/AH-1J HELICOPTER F/PILOT	49	0.8575
WINDOW CUTTING ASSY F/AH-1J HELICOPTER	34	0.612
CORD, DETONATING,FCDC,CUTTING ASSY	44	0.66
CORD, DETONATING, F/F-111	44	0.77
CARTRIDGE,DELAY ASSEMBLY 0.25 SEC	23	0.002375
IMPULSE, CARTRIDGE, CUU-45/B	1040	0.1295
CARTRIDGE, IMPULSE, F/CCU-44/B	7268	7.9885
CARTRIDGE,IMPULSE MODEL # M796	6835	0.284791667
CARTRIDGE,THRUSTER HARNESS RELEASE	240	1.1525
MORTAR,CARTRIDGE,ACES-2	146	0.73
CARTRIDGE, IMPULSE	54	0.27027
CUTTER,CARTRIDGE,ACTUATED	404	2.02
CUTTER,LOCKING CORD SURVIVAL KIT	98	0.147
GENERATOR, GAS PRESSURE	110	0.556
ROCKET,MOTOR TRAJECTORY DIVERGENCE	37	0.2775
CORD, ASSEMBLY, DETONATING	2	0.01
CARTRIDGE,DELAY,ASSY,4 SEC,PARA,U/O B52,C-130,KC-135	192	0.096
INITIATOR,DETONATION TRANSFER ASSEMBLY F-16	129	0.1995
INITIATOR,DETONATION,TRANSFER,ASSY,MF-16	77	0.1155
CORD, DETONATING, ASSEMBLY F/F-16	35	0.0875
CORD, DETONATING, F/F-16 AIRCRAFT	1	0.0015
RELEASE, LINE F/F-16	2	0.01
RELEASE,LINE F/F/16	1	0.005
DETONATION,TRANSFER,ASSEMBLY,F/F-16	1	0.0015
CORD, DETONATING, ASSY F/F-16	3	0.003
CORD, DETONATING, ASSY, F/F-16	3	0.0045
DETONATION TRANSFER ASSEMBLY F/F-16 AIRCRAFT	1	0.005
CORD, DETONATING F/16B AIRCRAFT	1	0.0025
CORD, DETONATING, F-16 B/C	2	0.015
DETONATING, TRANSFER, ASSY F/F-16	4	0.03
CORD, DETONATING F-16B AIRCRAFT	1	0.00125
CORD, DETONATING, ASSEMBLY, F F-16	6	0.015
CORD, DETONATING, ASSY, F/F-16	3	0.0045
DETONATION,TRANSFER ASSY,F-16	7	0.0105
CORD,DETONATING,FCDC,F/TA-7C A/C 848AS125-132,220-21031-132	1	0.000145
CORD,DETONATING SET,A/A252-1,F/TA-7C A/C 848AS275,220-21031-701	6	0.0039
INITIATOR,CTG ACTD,F/TA-7C A/C 848AS200-115,220-21031-115	8	0.007
INITIATOR,CTG ACTD,F/TA-7C A/C 848AS225-3,220-21033-103	4	0.0032
INITIATOR,CTG ACTD,F/TA-7C A/C 848AS250-1,220-21033-109	6	0.00294
CARTRIDGE,IMPULSE,CCU-52/A,F/A-4,TA-4,A-7 A/C 847AS100	10	0.00005

CARTRIDGE, IMPULSE, CCU-A43/B	4	0.0065
CORD, DETONATING, F/F-16 ACFT, CIR-CROSS SECTIONAL	17	0.085
CARTRIDGE, IMPULSE, CCU-63/B	6720	0.049
CARTRIDGE, DELAY PERCUSSION CCU-58/A	1	0.000035
ELECTRIC,SQUIB COMPONENT MK 9-0 CYROGENIC GUN	44	0.000528
CTG, IMPULSE, PRESSURE COMPONENT OF MK 9-0 CYROGENIC P/N8709247	193	0.005925439
CTG,IMPULSE CCU41/B,F/D-27/ALE-29 OR D-27/ALE-29A DISPENSER SET	430	0.003135417
INITIATOR, CARTRIDGE, ACUTATED,JAU-22/B F/SONOBUOY	7	0.0175
INITIATOR, CARTRIDGE,ACTUATED, F/5-E AIRCRAFT	23	0.023
CUTTER,PROPELLANT,BRIDAL F/F111	27	0.0865
INITIATOR, PROPELLANT, DELAY	30	0.225
CABLE CUTTER EXPLOSIVE	1	0.0025
CARTRIDGE, IMPULSE, BBU-36/B	5648	0.8825
INITIATOR, CARTRIDGE, ACTUATED,TIME DELAY	10	0.15
INITIATOR,CARTRIDGE, T38	12	0.024
CARTRIDGE, IMPULSE, BBU-35/B	6172	0.180016667
CTG,POWER DEVICE,ENVIRONMENTAL PROTECTIVE COVER ASSY,HELLFIRE	12	0.06
CORD,ASSY,DETONATING,STEEL,F-16 AIRCRAFT,HNS TYPE 1, GRADE A	1	0.0025
INITIATOR,CARTRIDGE, ACTUATED CARTRIDGE INCLUDED	97	0.097
INITIATOR,ACTUATED,PROPELLANT, ONE WAY	16	0.025
FIRE EXTINGUISHER CTG. CCU-90/A	5	0.00625
CORD,ASSEMBLY,DETONATING, F/F-16	3	0.015
DETONATING,CORD,ASSY, F-16D CANOPY KETTISON	2	0.005
CORD ASSEMBLY, DETONATING F/F-16	2	0.003
DETONATING, CORD, ASSY, F/F-16	2	0.015
CORD, ASSY DETONATING, CIR-CROSS SECTIONAL	2	0.01
CORD, ASSY, DETONATING TRANSFER F/F-16	2	0.002
CORD, DETONATION ASSEMBLY F/F-16	2	0.008
CARTRIDGE, IMPULSE F/F-111 AIRCRAFT	49	0.03675
IMPULSE CARTRIDGE F/F-15 AIRCRAFT	3	0.0075
CARTRIDGE, IMPULSE, CCU-92/A	107	0.2675
DETONATION TRANSFER ASSEMBLY F/F-111	10	0.05
DETONATION TRANSFER ASSY F/F-111	14	0.07
DETONATION,TRANSFER ASSEMBLY F/F/111	5	0.025
INITIATOR, CARTRIDGE, ACTUATED, KC-135 AIRCRAFT	16	0.24
INITIATOR,CTG,ACT,F/EMER ESCAPE SYS OF F-14A,F-18A,F-18B	1	0.0025
FIRING DEV DEMO M142 OSE M142	276	0.105964286
CUTTER HE MK23 MOD 0	23	0.019166667
CHARGES, DEMO, FLEXIBLE LINEAR SHAPED 20 GRAINS	227	0.245916667
CHARGE, DEMOLITION	4	0.00408
CHARGE, DEMOLITION SHAPED LINEAR FLEXIBLE SMAL 40 GRAN	2793	1.8085
CHARGE,DEMOLITION 60GRN	41	0.049883333
CHARGES,DEMO FLEXIBLE LINEAR SHAPED 125 GRAINS	1905	29.26666667
CHARGE,DEMOLITION 300GRN	1030	2.1836
CHARGE,DEMOLITION 500GRN	975	3.2175
CHARGE,DEMOLITION 600GRN	3	0.01
CHG.DEMO.PRAC.LINEAR M69 W/FZ.ELEC 5417717 O/P 5417704	380	475
DETONATOR,PERCUSSION,MK53,F/DEPTH CHG,MK9 MODS LD274976	3367	0.2104375
FUZE, DEMOLITION KIT, TRAINING	2	0.0039
DETONATOR,PERCUSSION,U/ON CBU-55/A//B,CBU-55/B,CBU-72/B,BOMBS	40691	6.10365
HOLDER, BLASTING CAP	23	0.00046
TNT,RECLAIMED,UNLIMITING CONFORMATION MIL-T-248	39683	21.64527273
TNT, TYPE I, COARSE FLAKE FORM TRINITROTOLUENE	2195530	1210.8991
CHARGE, DEMO PRACTICE	82	0.861
FUZE,ELEC,M1134/T1302E2 8800595	596	3.5103
TILE ARMOR M2	704	0.44
TILE ARMOR: M1	7838	4.89875
MUNITION SELECTABLE LIGHTWEIGHT ATTK M2	8	0.01925
CHARGE, DEMO, 20 GRAMS PETN PELLET	200	0.005
CHARGES, DEMOLITION, MK 140-0,FLEXIBLE,LINEAR, COMP H-6	80	0.002833333
CHARGE, DEMO FLEXIBLE,LINEAR, RDX 225 GRAIN	1	0.002
CHARGE,DEMOLITION,SHAPED,FLEXIBLE,LINEAR	18	0.063
CHARGE, DEMOLITION MK143, MOD 0, FLEXIBLE LINEAR	180	0.027
DETONATORS,PERCUSSION,NON-ELECTRIC,MK 120-MOD 0 PN 5355763	12	0.019
DETONATOR, PERCUSSION NON-ELECTRIC, MK 123-0, DUAL 100FT LEAD	5	0.01265625
SQUIB,ASSEMBLY,ELECTRIC UH-1H	2	0.002
GENERATOR,SINGLE PU	12	0.0576
INITIATOR, EXPLOSIVE, DESTRUCTOR, MK24, MOD0	20	0.00026
CAP, BLASTING,NON-ELECTRIC,M12,W/500 FT SHOCK TUBE MDI	8	0.014083333
CAP,BLASTING,NON-ELECTRIC,1000 FT SHOCK TUBE, XM13	11	0.0484
CAP,BLASTING,NON-ELECTRIC,DELAY,XM14	58	0.0205
CAP, BLASTING,M15	97	0.051733333
IGNITER,TIME,BLASTING FUSE,XM81/M81	20	0.0021
FIRING DEVICE, DEMO DELAY	5	0.002708333
DETONATORS, PERCUSSION DELAY MK 150-0 PN 7350905-1	20	0.008
FUZE, DEMOLITION CHARGE, PRACTICE	40	0.000235
75 PCT, AMMONIUM NITRATE, DYNAMITE	2	0
DETONATION, TRANSFER ASSEMBLY F/F-111	1	0.005
DETONATION TRANSFER ASSEMBLY F/F-111	2	0.005
DETONATION, TRANSFER ASSEMBLY F/F-111 AIRCRAFT	7	0.021
CORD, DETONATION, ASSEMBLY F/F-111	17	0.0425

DETONATION RANSFER ASSEMBLY F/F-11	7	0.007
DETONATION TRANSFER ASSEMBLY F/F-111	20	0.05
CORD, DETONATING, SMDC	6	0.024
CORD, DETONATING, CIR CROSS-SECT, GRADE A	12	0.078
CORD, DETONATING, SMDC	12	0.078
CORD, DETONATING, SMDC	26	0.104
CORD, DETONATING, SMDC	21	0.0525
CORD, DETONATING SMDC	23	0.0575
CORD, DETONATING SDMDC	24	0.096
CORD, DETONATING, SMDC	26	0.104
CORD, DETONATING, SMDC	25	0.1625
CORD, DETONATING, SMDC	22	0.055
CORD, DETONATING, SMDC	22	0.066
CORD, DETONATING, SMDC	22	0.044
CORD, DETONATING SMDC, HNS,TYPE I, CIRCULAR	1	0.0015
CORD, DETONATING, LSCA	23	0.092
DETONATING CORD, LSCA	24	0.12
DETONATING, CORD, TYPE I, GRADE A FILLER, FLEXIBLE	30	0.645
CORD DETONATING	32	0.672
CORD, DETONATING, HNS,TYPE I GRADE A, CIRCULAR	20	0.1
CORD, DETONATING, FCDC	32	0.064
CORD, DETONATING FCDC	38	5.852
CORD, DETONATING FCDC,HEXANITROSTILBENE,HNS,TYPE 1	10	0.02
CORD, DETONATING, METAL, CIRCULAR,HEXANITROSTILBENE, HNS TYPE 1	39	0.04875
CORD DETONATING,CIRCULAR, HESANITROSTILBENE, HNS TYPE 1	28	0.035
CORD, DETONATING,METAL CIRCULAR,HEXANITROSTILBENE, HNS TYPE 1	30	0.045
INITIATOR,CARTRIDGE,ACTUATED,F/F-111 AIRCRAFT	13	0.0195
INITIATOR,CARTRIDGE,ACTUATED F/F-111 AIRCRAFT	10	0.025
INITIATOR, CARTRIDGE ACTUATED, JAU-59/A	68	1.02
INITIATOR,CARTRIDGE,AFSEWARS	355	9.94
INITIATOR,CARTRIDGE, ACTUATED, MODEL 8566556 ELEC DET	140	0.7
INITAITOR, CARTRIDGE, F/ F-111	21	0.168
INITIATOR, CARTRIDGE, ACTUATED, F-15BE AIRCRAFT	7	0.049
INITIATOR, CARTRIDGE,ACTUATED,F-15BE AIRCRAFT	4	0.03
CARTRIDGE,,AIRCRAFT, 2 PER HERMATICALLY SEALED	34	0.0425
INITIATOR CARTRIDGE ACTUATED F-117A EGRESS SYSTEM	57	0.6555
SQUIB, ELECTRIC, CLOSED IN DESIGN	28	0.014
INITIATOR, PROPELLANT, ACTUATED, F/F-16 EGRESS SYSTEM	3	0.0075
INITIATOR, PROPELLANT, ACTUATED F16-B EGRESS SYSTEM	27	0.0675
INITIATOR,PROPELLANT	2	0.00002
INITIATOR,CARTRIDGE,ASSY F/F-16	3	0.0075
RELAY,EXPLOSIVE,EGRESS SYSTEM F/F-111 AIRCRAFT	13	0.0325
RELAY,EXPLOSIVE,F/F111 AIRCRAFT	5	0.005
CARTRIDGE,IMPULSE,F-15 ACFT PERCUSSION	47	0.00141
CUTTER, CARTRIDGE ACT.	34	0.085
CARTRIDGE,DELAY,3A, F/KC-135 AIRCRAFT, ELECTRIC	24	0.06
CARTRIDGE, DELAY, F/KC-135E AIRCRAFT,	7	0.0245
CARTRIDGE, .75 SECOND DELAY	7	0.00175
REFIRE KIT,CABLE AND CUTTER ASSY	29	0.029
CORD,DETONATING,POLY SPOOL, PETN 400 GRAIN PER FT	679	0.024444
CORD, DETONATING, 200 GRAMS	1205	0.022091667
CORD,DETONATING,PETN,WATERPROOF,100 GRAIN PETN PER FT	1615	0.016654688
CARTRIDGE, DELAY, PERCUSSION	2	0.005
ACTUATOR KIT DEPLOYMENT F-4	38	0.082
ROCKET,RKT-5B-4,ASROC,INERT-OPERABLE,TRAINING,W/TORP	1	0.54
VALVE,FLOTATION BLA	23	0.008984375
DETONATOR,ELECTRIC,MK107-0,F/SECT,W/MK101 DET,F/CHG ASY LD549645	13	0.0040625
CHARGE ASSY,NOSE,MK46-0,F/SECT-AN/BST-1 TRANSMIT BUOY DL2138569	2	0.005
EXPLOSIVE SHEET, MK 56-0 F/ SWIMMER WEAPON	4	0.008
PROJECTILE,UNDERWAT	4	0.004888889
ACESSORY KIT,MK 26-0,F/9MM PISTOL & SWIMMER WPNS SYS EQUIP	55	0.076066964
SAFETY AND ARMING DEVICE MK 39 MOD 0	216	0.2646
LIMPET,ASSY,MK4-0,SWIMMER EMPLACED,WEAPON	81	3.24
FIRING DEVICE KIT	128	0.64
CONTAINER,SHIPPING & STORAGE,CNU-288/E P/N 1177AS100	155	3.875
CONTAINER,S-S,CNU-319/E,EMPTY,F/CLUSTER BOMB,MK20-6 1248AS100	116	29.174
BOX,AMMO,S/A,MK1-0,EMPTY,STL,18.5X9.5X14.8 LD165132,439182	29754	386.802
ACTUATOR, KIT DEPLOYMENT	5	0.0375
DETENT ASSY,EXP,MADE OF STEEL & CADIUM PLATED 8857213,8881956	50	0.0016
CONNECTOR EXPLOSIVE TRANSFER F/F111	276	1.713
COVER, ASSEMBLY, F/F-111 AIRCRAFT	8	0.34
CHARGE,ASSY,FLEXIBLE,LINEAR, F111	24	1.056
EXPLOSIVE WATER GEL TOVEX 100	49	0.020416667
DUMMY FUZE,POINT DETONATING M73	60	0.042
FUZE,TIME,SUPERQUICK,INERT,21SEC DLAY,M1907M 73-3-114	200	0.1
FUZE,AUXILARY DETONATING MK395-1,F/5'54 CAL HE,FCL-V 2512190	2432	3.04
FUZE, AUXILIARY DETONATING	51	0.003642857
FUZE,AUX DET,MK54-2,F/3/50,5/38,5/54,6/47,8/55 LD166745,490100	147	0.0637
FUZE,AUXILLIARY DETONATING,MK43-1 LD109309,394538	14	0.006916667
FUZE,AUX,DETONATING MK52-3	346	0.108125
FUZE,AUX DET,MK55-0,F/8/55,HC,16/50,HC LD109484,438127	5606	2.429266667

FUZE,AUX,DETONATING, FUZE MODEL MK 384-0	864	0.5544
FUZE,MECHANICAL TIME,MK25-5 LD293347,1378972	17	0.017354167
FUZE,MT,MK50-7,NOSE,45 SEC DLAY LD291701,1370527	163	0.28525
FUZE,MECHANICAL TIME,MK57-2 LD272859,863160	801	1.335
FUZE,MT,MK61-1,NOSE,45 SEC DLAY LD165255,561519	679	1.174104167
FUZE,MT,MK62-0 LD165620,561996	22618	39.11029167
FUZE,MT,XM565,0.2-100 SEC DLAY,W/O BSTR 10522991	12	0.02025
FUZE,MECHANICAL,TIME,MK342-1, 2511237	1000	1.020833333
FUZE, MECHANICAL TIME MK 349-0	73	0.0034675
FUZE,BASE DET,.01SEC DLAY,MK20-2.W/BSTR LD109200,423057	281	0.49175
FUZE,BD,MK21-3 LD291870,1362622	2354	4.64915
FUZE,BASE DETONATING,MK31-2 LD284619,399148,SK115306,206248	107699	109.4939833
FUZE,BASE DETONATING,MK48-1	1993	3.937925
FUZE ASSY,M509A1/M509E6,PIBD,F/CTG,DOD C294,605,807 8799735	13463	4.533459184
FUZE,MT,MK51-4,NOSE,30SEC DLAY	114	0.1199375
FUZE,MECHANICAL TIME/POINT DETONATING MK 403-0	2453	4.394958333
FUZE,BASE DETONATING,MK83-0 LD284899,1362373,1240495	1279	1.243472222
FUZE,BASE DETONATING,M91A2,F/DODIC C448,C651 8837308	8729	8.6198875
FUZE, AUXILLARY DETONATING TIMER DELAY FUZE MODEL MK 411-0	4	0.0024
FUZE,MTSQ,M500A1,W/BSTR,M21A4 73-7-135,WR-55/99	6	0.00974
FZ,MECH.TIME,SQ,DELAY ACTION 8864492 8861213	11851	20.36890625
FUZE,MECH,TIME,SUPERQUICK,MODEL M577 & M577E1 W/O BOOSTER	757608	1024.824225
FUZE MECH TIME AND SUPERQUICK,SELEC DELAY 9270234 9236701	8985	12.5066125
FUZE,MULTIOPTION,M734	155765	70.30184306
FUZE,ELECTRONIC TIME M762 W/O BOOSTER	51698	68.66140625
FUZE, ELECTRONIC TIME	20	0.025625
FUZE,PROXIMITY,M732E2/M732A2	31	0.0403
FUZE,PD,INERT,NOSE,MK27 MODS,40MM,CMPLT,EXCEPT F/EXP.	99999	54.166125
FUZE,PD,MK30-3,NOSE,NON-DLAY,W/O AUX DET	5295	5.4053125
FUZE,PD,M524A5E2/M524A6,0.05 SEC DLAY,W/BSTR 9205729,WRR-55/137	12264	16.0965
FUZE,PD,M526,W/BSTR,M21A4,F/CTG,81MM,M374,M375 8800254	14450	20.3203125
FUZE,PD,W/BSTR,NON-DLAY,XM716 9220859	19300	83.955
FUZE,PD,M572,0.05 SEC DLAY,W/BSTR,M125A1 8880696,WR-55/137	7464	13.5285
FUZE,PD,M525,NON-DLAY,W/BSTR 73-1-161,FSA-21-59	945	0.34453125
FUZE PD M527B1 16B	60167	21.93588542
FUZE,PD,M52A2,W/BSTR,M24A4,F/60MM,81MM MORTAR 7549157,73-1-161	4497	1.63953125
FUZE,PD,MK29-3,NOSE,NON-DLAY LD109112,422325	21099	28.132
FUZE,PD,MK30-3,NOSE,NON-DLAY,W/AUX DET,MK43-1,W/ADAPT LD109113	168	0.1715
FUZE,POINT,DETONATING,M78,NONDELAY,W/BSTR M25	33	0.063525
FUZE,POINT DETONATING,M78A1,TIME DELAY,IN METAL CONTAINER	64	0.1104
FUZE,PD,M567,XM567E8,F/81MM 92462442	12485	8.9378125
FUZE,POINT DETONATING, M557	260920	180.7334375
FUZE,POINT DETONATING, M739A1,DUAL MODE, IMPACT/DELAY 8864492 IP	48450	69.646875
FUZE, POINT DETONATING, M935 F/60MM, P/N 9255258	102661	49.85293611
FUZE & ADAPTER ASSY, PROJECTILE , FUZE MODEL MK 357-0	396	0.825
FUZE & ADAPTE ASSY, PROJECTILEE FUZE MODEL MK 360-0	8	0.018805556
FUZE,TIME,M65A1,F/CTG,60MM,ILL,M83 SERIES 9207568	1966	1.740729167
FUZE,MT,XM592E1,F/CTG,106MM,APERS-T/BEEHIVE,XM581 10542850	2897	3.983375
FUZE,TIME,SQ,M77,F/DODIC C231,FMY 1390N0900003280 73-3-171A	4703	5.73178125
FUZE,TIME AND SUPERQUICK-M54 MIL-F-20372 PACKED 1/FBR CNTR	1	0.0005
FUZE,PROXIMITY,M532/XM532E1.F/81MM 10976900	43359	56.9086875
FUZE,PROXIMITY,MK72-2,6,8,NOSE,SD,W/AUX DET,MK44-1 LD267097,272	547	1.3675
FUZE,PROXIMITY,MK72-11,NOSE,NON-SD,W/BSTR,MK30-0 LD292246	70	0.175
FUZE,PROXIMITY,M514A1,T227E2,W/AUX DET,POLY NOSE CONE LD291819	3776	7.414068333
FUZE,PROXIMITY,M517/T178E3,F/81MM **SENSITIVE ITEM** 7542838	11263	13.234025
FUZE,PROXIMITY,MK74-1,NOSE,NON-SD,W/AUX DET,MK44-1 LD267106	357	1.294125
FUZE,PROXIMITY,MK75-1,NOSE,NON-SD,W/AUX DET,MK44-3 LD29297	148	0.5365
FUZE,PROXIMITY,MK75-4,NOSE,W/BSTR,MK39 LD292396,1208049	2365	5.222708333
FUZE, PROXIMITY MK72 MOD17	3	0.000375
FUZE,PROXIMITY,MK71-10,NOSE,SD,W/AUX DET,MK44-1 LD267270,1200300	1757	8.638583333
FUZE,PROXIMITY,MK73-0,NOSE,SD,W/AUX DET,MK44-1 LD267103,779566	11	0.040186667
FUZE, PROXIMITY MK73 MOD10	5	0.001979167
FUZE,PROXIMITY,MK71-12,W/O AUX DET,W/BSTR,MK30-0 LD292325	3055	14.76583333
FUZE, PROXIMITY MK73 MOD13	94	0.023983056
FUZE,PROXIMITY,AUX DET FUZE MODEL MK 91-1	19	0.072279167
FUZE,PROXIMITY M732,SHORT INTRUSION 8864492I/P,11716451	92619	144.7171875
FUZE,PROXIMITY,MK72-13,NOS,W/O BSTR, *SENSITVE ITEM* LD292387	1	0.002208333
FUZE PROXIMITY M514A1 ONE	8	0.01536
FUZE,MECH TIME AND SUPERQUICK INERT,M54 PKG AS REQD 73-3-154	4	0.0049
PRIMER,PERCUSSION,M28B2,STL,F/DOD C258,73,80,443,4,5,8,9 8838130	537464	115.55476
PRIMER,PERC,STL,M58,F/CASE,CTG,M108,B1,F/DODIC C275,85 8838153	7949	0.287047222
PRIMER,PERCUSSION,M82 8861197	4796	0.235004
PRIMER MK2A4 1/WTRPRF ENVELOPE 74-2-21, 8840362	148642	5.534965
PRIMER,PERCUSSION,M32,F/60MM CTG 8880637	487705	15.08169167
PRIMER M34 PKG AS REQ	95227	6.824601667
PRIMER,PERCUSSION,MK10-9,F/U/W/1,3,6 PDR SALUTING CHG 217530	7787	0.216305556
PRIMER,PERCUSSION BRASS M1B1A2 F/C330	250	0.0205
PRIMER,PERCUSSION,M71A2/M71A1E1,F/81MM DWG 7549173	631830	17.375325
PRIMER,ELEC-PERC,MK15-2,LOCK COMBINATION LD109599,439155	3430	0.126932566
PRIMER,ELEC-PERC,MK15-1,LOCK COMBO,F/CIRCUIT TEST/DRILL LD41232	1842	0.082556743
PRIMER,ELECTRIC,MK48-4,F/5/38 CHG 3028387	18539	23.58726786

PRIMER,ELECTRIC	402	0.097405119
PRIMER,ELEC-PERC,MK20-0,F/U/W/DC PROJ,TORP IMPULSE CHG LD91105	59045	3.280277778
PRIMER,ELECTRIC,MK40-1,F/6/47 REDUCED CHG LD177985,786272	5395	6.069375
PRIMER, ELECTRIC MK153 MOD0	4	0.000271429
PRIMER ELEC,PRIMER MODEL M86 8847424	3876	2.261
PRIMER,ELEC,MK44-0,F/TEST FIRNG CIRCUIT O/B SHIP,F/3IN+ LD276294	759	0.02371875
PRIMER,PERCUSSION	594	0.0396
PRIMER,PERCUSSION,MK101-3,F/CONTROL UNIT MK66-2	1150	0.575
PRIMER,ELECTRIC-PERCUSSION,MK13-0 LD41229,36392	150	0.0315
PRIMER,ELECTRIC,MK45-0,F/5/54 FULL CHG LD276282,997567	140	0.1875
FUZE,ET,M724,0.2 SEC DLAY,W/O BSTR 11711268	54	0.081
FUZE,AUXILIARY DETO	222	0.493333333
FUZE,AUXILIARY DETONATION,MK55-1 LD165025,438127	396	0.1188
FUZE,BASE DETONATING,MK48-4 2499735	2395	5.328875
FUZE,POINT DETONATING,N/DELAY,FUZE MODEL #MK66-0,W/O/BOOSTER	56	0.077
FUZE,PROX,MK71-5B,7B,9B,NOSE,NON-SD,W/AUX DET,MK44-1 LD267080	21227	16.45018333
FUZE,PROXIMITY,MK73-2,NOSE,SD,W/AUX DET,MK44-1 LD292398,1254757	38	0.1445
FUZE,PROX,MK73-5,NOSE,NON SD,W/BSTR,MK30-0,LED BLOK ASY LD292407	338	1.22525
FUZE,PROXIMITY,MK74-0,NOSE,SD,W/AUX DET,MK44-1 LD267105,779583	4215	15.33196167
FUZE,PROXIMITY,MK75-3,NOSE,NON-SD,W/AUX DET,MK44-3 LD292299	1061	3.846125
BOOSTER,M125A1,MODULAR,F/FZ,M508,A1,M520,A1,M557,M572 10520747	13412	4.6942
PRIMER,ELEC,MK48-1,F/5/38 CHG LD295817,1441770	10003	10.896125
PRIMER,PERCUSSION,MK21-3,F/40MM CTG LD108943,389316	4134	0.2756
PRIMER,ELECTRIC-PERCUSSION,MK27-0 LD113688,310390	49	0.065625
FUZE,POINT,DETONATING,M936,F/60MM,M302A2	15197	7.450751389
CHAFF,COUNTERMEASURES,RR-124/AL,F/AN-ALE-18 DISPENSER RR124AL	3403	1.22508
CHAFF,COUNTERMEASURE,RR-129/AL,F/ALE,29A,37A,39,42,44 DISPENSER	3883	0.033652667
CHAFF, COUNTERMEASURES, RR-173/AL F/ALE-1,2 AND MX-900 DIS PKD 6	2048	0.73728
CHAFF,COUNTERMEASURES,RR-143/AL,F/ALE-32,33 DISPENSER 390372	240	0.0528
CHAFF,COUNTERMEASURES	1315	0.3945
CHAFF,COUNTERMEASURES,RR-171/AL F/ALE-41 DISPENSER	1514	37.85
CHAFF COUNTERMEASURE RR-172/AL F/AEE-41 DISPENSER	8	0.2
GUIDANCE,SECTION,DUMMY,TRAINING,MK23-0 F/ATM-45-A-1	3	0.7362525
GUIDED & CONTROL GR,DUMMY MK 32-0,F/ATM-9D,9G,9H,GDU-1A	20	0.88
GUIDED,MISSILE,TRAINING,COMPLETE,F/TASM-N-7A	3	3.555
SAFETY & ARMING DEVICE MK 5-2 W/FZ BSTR	1	0.003125
SAFETY & ARMING DEVICE MK 5-2 W/O FUZE BOOSTER	169	0.528125
SAFETY & ARMING DEVICE MK 35-0, AIM-7E, W/O FUZE BOOSTER	87	0.271875
BOOSTER, GUIDED MISSILE WARHEAD	15	0.0669
SHIPPING AND STORAGE CONTAINER, G NALC NW59	54	8.235
IGNITER,GAS GENERATOR.M LOADED EXP.F/RIM-2C.2D.2	16	0.026666667
GENERATOR, GAS PRESSURE, PROPELLANT ACTUATED	202	5.353
GENERATOR, GAS PRESSURE, PROPELLANT ACTUATED	165	5.5275
CONTROL SURFACE ASSY,NO.1,3,F/RIM-66/67 2639027-2	339	5.00025
CONTROL SURFACE NO.2 AND 4, F/RIM-66,67	306	4.5135
FIN ASSEMBLY, DORSAL NO. F/RIM-67A-5	28	3.598
FIN ASSEMBLY, DORSAL NO. F/RIM-5/6	70	2.998333333
FIN ASSEMBLY, DORSAL NO. F/RIM-67	118	2.527166667
FIN ASSEMBLY, DORASL NO. F/RIM-67A	27	1.107
FIN ASSEMBLY, DORSAL NO. F/RIM-5/6	71	1.520583333
TARGET,MINIATURE MOBILE MK 38-0,FREQ SQS26,SQS35,F/TORP MK 44	1	0.01
CAP,DESENSITIZING,M5,XM5,BRASS,F/FZ,M513,VT 10980265,2816200 O/P	2040	0.255
DELAY,PLUNGER ASSY,M1,0.05SEC DLAY,FMY 1390N0000170080 8797864-3	118204	1.8798
RELAY, M7, LOADING ASSEMBLY P/N 8840608	62598	0.31299
SUPPORT,POLYSTYRENE,BOTTOM,F/M2A1 MTL BX,PKG AS REQD 8864496	25	0.0025
BOX,WRBND,W/ENDS,F/M2A1 MTL BX 7553347	21938	74.6565
PRIMER SCREW ASSEMB	36395	0.040944375
FUZE ELECTRIC, M1134A1, LIVE (HERO SAFE) 8800595 REV T	221	0.524875
SEAL,BODY MATERIEL TAPE PRESSURE SENSITIVE	36952	0.1175
FUZE PACK ASSY,F/STD FZ,C/O SUPPORT,2TOP,2BOTTOM,2DESICN 9240893	2543	27.973
SLEEVE,PROT,PKG,CHIPBRD,F/NON-PROPGTG FZ PK ASSY 9328329	1066	0.02665
CARTRIDGE, 30MM, APFSDS-T	90	0.075
GUIDED MISSILE TACTICAL, AGM-45A-6, CONSISTS OF GUID SECT	10	1.916
GUIDED,MISSILE,TACTICAL,AGM-45A/3 SHRIKE	15	49.815
GUIDED MISSILE, TACTICAL, AGM-45A CONSISTS OF GUID SECT	9	1.7244
GUIDED MISSILE, TACTIAL AGM-45A-4 8712572	23	7.6383
GUIDED, MISSISLE SURFACE ATTACK AGM-45-A/7	56	6.197333333
GUIDED MISSILE SURFACE AGM-65B	1	0.413
GUIDED MISSILE SURFACE AGM 65/A	4	1.652
GUIDED MISSILE TACTICAL AGM 45B-3	775	51.02083333
GUIDED MISSILE TACTICAL AGM-45B/3A	731	247.1511
GUIDED MISSILE SURFACE ATTACK AGM-45B/4	54	15.39
GUIDED MISSILE TACTICAL AGM-45B/6	398	340.29
GUIDED MISSILE TACTICAL AGM 45 B/7	59	50.445
GUIDED MISSILE, TACT FREQ-3, AIM-54 A, W/GUID SECT. AN/DSQ-26	7	2.23125
GUIDED MISSILE, TACT, FREQ-8, AIM-54A W/GUIDED SECT: AN/DSQ-26	3	0.95625
GUIDED MISSILE TACT,FREQ-9,AIM-54A,W/GUIDED SECTION AN/DSQ-26	4	1.275
GUIDED MISSILE TACT, AIM-54A, C/O GUIDED SECT, AN/DSQ-26	6	1.9125
GUIDED MISSILE,TACT,FREQ-10,AIM-54A,W/GUIDED SECTION AN/DSQ-26	5	1.59375
GUIDED,MISSILE TACTICAL FREQ-11-AIM-54A,W/GUIDED SECT AN/DSQ-26	7	2.23125
GUID,MISS,TACT,FREQ-1AIM-54AW/GUID SECT,AN/DSQ-26	7	2.23125

GUIDED,MISSILE,TACT,FREQ-12-AIM-54A,W/GUIDED SECTION,AN/DSQ-26	8	2.55
GUIDED MISSILE TACT,FREQ-13-AIM-54A W/AGUIDED SECTION ANDSQ-26	4	1.275
GUIDED MISSILE,TACT,FREQ-6,AIM-54A W/GUIDED SECTION AN/DSQ-26	5	1.59375
GUIDED MISSILE TACT FREQ-14, AIM-54A W/GUIDED SECTION AN/DSQ-26	8	2.55
GUIDED MISSILE, TACT,FREQ-15A-AIM-54A,W/GUIDED SECTION AN/DSQ-26	3	0.95625
GUIDED MISSILE,TACT,FREQ-16,AIM-54A W/GUIDED SECTION AN/DSQ-26	8	2.55
GUIDED MISSILE, TACT FREQ 2-AIM 54 A W/GUIDE SECT AN-DSQ-26	3	0.95625
GUIDED MISSILE TACT,FREQ - 17 AIM-54A W/GUID SECT, AN/DSQ-26	5	1.59375
GUIDED MISSILE, TACT, FREQ-7, AIM-54A W/GUID SECT, AN/DSQ-26	8	2.55
GUIDED MISSILE,TACT,FREQ-4,AIM54A,W/GUIDED SECTION AN/DSQ-26	4	1.275
GUIDED, MISSILE, PRACTICE, ATM-45, SHRIKE	8	4.8
GUIDED MISSILE,SURFACE ATTACK	219	38.83965
GUIDED MISSILE TACTICAL AGM-45A-4 THRAMALLY PROTECTIVE	5	1.6605
GUIDED MISSILE,SURFACE ATTACK AGM-45A/7	9	2.9889
GUIDED MISSILE TACTICAL AGM45-B-3A	66	19.844
GUIDED MISSILE SURFACE ATTACK AGM-45B/3A	30	8.55
GUIDED MISSILE SURFACE ATTACK AGM-45B/6	17	4.845
GUIDED MISSILE TACTICAL, AGM-45B/7 SHRIKE	3	2.565
GUIDED MISSILE TACTICAL AGM-45B/4 SHRIKE	3	2.565
GUIDED,MISSILE,PRACTICE,ATM-45B-8	6	1.8
GUIDED MISSILE, TACTICAL SHRIKE AGM-45B/9 IN CNU/449/E CNTR	9	1.965
GUIDED MISSILE SHRIKE AGM-45B/9A	12	10.26
GUIDED, MISSILE,SURFACE ATTACK,BGM-71E TOW-2A	61	2.9158
GUIDED MISSILE,TACT,HARPOON (ASROC) RGM-84D	97	119.601
MISSILE, TOW 2A, BGM-71E-1B	11	0.4785
GUIDANCE SECTION TACTICAL MK 36-0 F/AGM-45A/B-6	2	0.490835
GUIDANCE SECTION, GUIDED MISSILE MK37 MOD O/F	9	4.417515
GUIDANCE, CONTROL SECT,TACT, MK 5-1 F/AGM-45A/B	92	2.6381
GUIDANCE,SECT,TACT,MK 36-1 F/AGM-45A/B6	109	2.67486
CONTROL SECTION,TACTICAL,MK1-2,3,4,5,F/AGM-45A-1,A2 LD575005	201	5.763675
CONTROL, SECT,TACT,MK 1 MODS 2,3,4,5 F/AGM45A-1,1A,2	2	0.05735
GUIDANCE SECTION TACTICAL MK 21-0, 1, 2, F/AGM-45A-1	1	0.2420825
GUIDANCE SECTION TACTICAL MK 21-3 F/AGM-45A-1A	1	0.2420825
GUIDANCE SECTION,TACTICAL,MK22-0,1,F/AGM-45A-2 DL1568648,1568648	13	0.528125
GUIDANCE SECTION TACTICAL MK 22-2 F/AGM-45A-2	1	0.2420825
GUIDANCE,SECT,TACT,MK 24-1 F/AGM-45A/B-3	58	1.42332
GUIDANCE SECTION TACTICAL MK 24-2 F/AGM-45A/B-3A	13	3.1904275
GUIDANCE,SECT, TACT, MK 25-0 F/AGM-45A/B-4	10	0.2454
GUIDANCE SECTION TACTICAL MK 25-1 F/AGM-45A/B-4	4	0.98167
GUIDANCE SECTION EXERCISE, MK 4-0 F/ATM-45A-6	10	2.454175
FIN, ASSY MK 21 MODS 0,1, SET OF 4, F/AGM-45 4/B	34	0.0765
GUIDANCE SECTION,GUID MISSLE, MK49-0 F/AGM-45A/B-9	43	3.058375
WINGS,PLAIN,F/RKT MTR,MK15,17,F/AIM-9B,4/SET	64	0.416
WING ASSY,MK1-0,F/AIM-9D,9G,9H,RKT MTR,SET OF 4	6	0.006375
CONTROL,DCU-190/B,F/AIM-54A (1 EA IN CNU-162/B CNTR)	55	3.905
GUIDANCE SECTION TACTICAL MK24-5 F/AGM-45A/B-3A	14	3.435495
CONTROL SECTION GUIDED MISSILE MK 5-2 F/AGM-45A/B 9	2	0.0665
PROPULSION, SECTION,MK47-0,F/PHOENIX,MXU-637/B,INERT,F/AIM-54A	13	5.4275
GUIDANCE,SECTION,AN-DSQ-26,FREQ-9,F-AIM-54A,IN CNU-161-E CNTR	1	0.1142
GUIDANCE, SECTION, AN/DSQ-26,FREQ-5,F/AIM-54/A CNTR CNU-161-E	1	0.1145
GUIDANCE,SECTION,AN-DSQ-26,FREQ-10,F-AIM-54A,CNTR CNU-161-E	1	0.1142
GUIDANCE, SECTION, AN/DSQ-26,FREQUENCY 6 F/AIM-54A	3	0.3435
GUIDANCE,SECTION,AN-DSQ-26,FREQ-2,F/AIM-54-A,IN CNU-161/E CNTR	1	0.1142
GUIDANCE,SECTION,AN-DSQ-26,FREQ-17,F-AIM-54A,IN CNTR CNU-161-E	6	0.687
GUIDANCE, SECTION, AN/DSQ-26, FREQUENCY 7	1	0.1145
GUIDANCE SECTION AN-DSQ-26 FREQUENCY-4, F/AIM-54A	1	0.1145
GUIDANCE SECTION, SHRIKE MK 50-0 F/AGM45A/B-10,INERT	4	0.086
WING ASSEMBLY,GUIDED MISSILE,MK1 MOD 1,F/AIM-9G/H/L,ATM-9L	12	0.222
GUIDANCE SECTION TAC TICAL MK 49-1 F/AGM-45A/B-9 INERT	181	3.8915
CONTROL SECTION, TACTICAL F/AGM-45A/B-9	199	5.771
CONTROL SECTION WCU-7/B,F/AIM-54C	1	0.052
GUIDANCE,SECTION,MK73-1,F/RIM-67C/1PER 461 MOD 0 CNTR	631	44.879875
GUIDANCE SECTION, WGU-11A/B F/AIM-54C	6	0.405
GUIDANCE & CONTROL SECTION F/SIDEARM AGM-12/A	2	0.016665
GUIDED MISSILE & LAUNCHER,SURFACE ATTACK FGM-148-B JAVELIN	5	0.121
GUIDED MISSILE SURFACE JAVELIN & LAUNCHER ATTACK FGM-148C	3	0
GUIDED MISSILE,SUBSYSTEM,INTERCEPT AERIAL (STINGER-RMP FIM-92D)	12	0.522
GUIDED MISSILE SUBSYSTEM, INTER.AERIAL	1	0.023775
GUIDANCE & CONTROL SECTION GROUP MK 18-0 F/ AIM-9D	3	0.105
GUIDANCE & CONTROL GROUP,MK18-2,/SEAM/,W/O TDD,F/AIM-9G 2580665	29	1.015
GUIDANCE & CONTROL GROUP COMPLETE F/AIM-7D	5	0.9075
GUIDANCE & CONTROL SECTION W/O WINGS,ANTENNA,FINS F/AIM-7D	34	6.171
GUID & CONTROL GROUP,W/ECP-54,W/O ANTENNA,WINGS& FINS AIM-7E-2	4	0.841
G-C GRP,W/O ANTENNA ASSY,WING,FIN,F/AIM-7C,SER #'S R-1376-3454	51	3.54195
GUIDANCE & CONTROL GRP, GUIDED MISSILE MK 18-2 FIM-9H	3	0.1155
GUIDANCE & CONTROL SECT,W/O ANTENNA,WINGS & FINS, F/AIM-7E-3	1	0.21025
GUIDANCE & CONTROL GROUP AN/SPN-72A, W/PDSNS, FU	31	37.634
GUIDANCE & CONTROL GROUP F/RIM-7	35	17.2375
GUIDANCE & CONTROL SECTION, AIM-7F-5 P/N 917AS116-5	1	0.1676
GUIDANCE & CONTROL GROUP AN/DSQ-35G	2	0.3352
GUIDANCE & CONTROL SECTION,WGU-4A/B,F/AIM-9M,P/N 639AS3932	24	0.63

GRIPSTOCK-CONTROL GROUP,GUIDED MISSILE LAUNCHER	2	0.00544
GUIDANCE SECTION,GUIDED MISSILE,MK80 MOD 1	9	0.477
GUIDANCE SECTION, GUIDED MISSILE	11	0.4235
GUIDED, MISSILE, PRACTICE	2	0.085
QUIDED MISSILE, PHOENIX, INTERCEPT-AERIAL, AIM-54C	1	0.1735
GUIDED MISSILE, PHOENIX, INTERCEPT-AERIAL AIM-54C	1	0.1735
GUIDED MISSILE, PHOENIX INTERCEPT-AERIAL AIM-54C	2	0.347
GUIDED MISSILE, PHOENIX, INTERCEPT-AERIAL, AIM-54C	1	0.1735
GUIDED MISSILE, PHOENIX, INTERCEPT-AERIAL AIM-54C	2	0.347
GUIDED MISSILE, PHOENIX, INTERCEPT-AERIAL, AIM-54C	1	0.1735
GUIDED MISSILE, PHOENIX, INTERCEPT-AERIAL AIM-54C	3	0.5205
GUIDED MISSILE, PHOENIX, INTERCEPT-AERIAL, AIM-54-C	1	0.1735
DETECTING DEVICE,TARGET,MK5-0,F/RIM-2C-7 1883670,LD521527	140	4.34
DETECTING DEVICE,TARGET,MK20-1,2,F/RIM-2D-1,5 LD521527	249	7.719
COVER,PROTECT,RAM,AIR TURB BLADE,F/BOMB,MK1-0,WALLEYE 63A69F120	90	0.45
DETECTING,DEVICE TARGET,MK15 MOD 1,F/AIM-9D,9G	66	0.58575
DETECTING,DEVICE,TARGET,MK-15-3.F/AIM 9D,9G,9H	566	3.5375
DETECTING DEVICE DUMMY MK 47 F/ATM-9D,9G	7	0.062125
GUIDANCE AND CONTROL GROUP,TRAIN,TAAM-N-6A,B,CMPLT,F/AIM-7D,7E	1	0.1815
G-C GROUP,NOSE SECT,W/O WING,CANARD,SER # AS-2210-15688,F/AGM-12	187	18.84025
G-C GROUP,UNIVERSAL NOSE SECT,W/O WING,CANARD,F/AGM-12B-2,3,C-2	4821	465.2265
G-C GROUP,UNIVERSAL NOSE SECT,W/O WING,CANARDS,F/AGM-12B,12C	470	29.61
G-C GRP,NOSE SECT,W/WING,CANARD,SER #'S AS2210-15688,F/AGM-12B	1880	189.41
G-C GROUP,UNIVERSAL NOSE SECT,W/WING & CANARD,F/AGM-12B	215	21.66125
ROCKET ENGINE,LR58-RM-4,F/AGM-12B LR58RM4	79	12.9955
ROCKET ENGINE,F/AGM-12C LR62-RM-2	8	4.2
ROCKET ENGINE,LIQUID. LR-62-RM-4,F/AGM-12C	122	64.05
WINGS & CANARDS,F/AGM-12C,SET OF 4,BULLPUP	433	8.930625
DESTRUCTOR, CHARGE, MK 4 MOD 0,EXPL LDD F/RIM-2D F/GUID MISSILE	153	0.924375
ARMING & FIRING MECH,MK 1-1,LDD,EXPL,F/DESTR.F/RIM-2C,D,E,F,	317	0.844805
DESTRUCTOR, GUIDED M DIA, MK 2 MOD 0	634	3.830416667
BOOSTER,FUZE,MK42-0,EXPL LDD,F/RIM-2E,2F,24A,24B,24C	816	0.646
BOOSTER,FUZE,MK 53-0 EXPL LDD, RIM-2E,4,5,2F,4,24B-2,24C-2	3663	2.899875
AUTO PILOT BATTERY UNIT MK 2-1 F/RIM-66A	6	0.24
FUZE, W/SHROUD ASSY MK 368-2 F/RIM 66A, 67A	3	0.105
GUIDED MISSILE DUMMY AIM-9 (D-4) INERT	1	0.5795
DUMMY GUIDED MISSILE MK 59-0 W/O SIMULATOR	1	1
BOLT ASSY,USED W/IMPACT HEAD,F/TORPEDO MK37 2865397	378	0.189
GUIDANCE SECTION MK 33-5, F/RIM-66A,67A	45	0.000320195
ELECTRIC ASSEMBLY WARHEAD MK12 MOD 3 F/TORPEDOS	4	0.182
AIR STABILIZER,MK 31-1,HELO LAUNCHER F/TORP MK46 ALL MODS	14	0.29337
CONTAINER,SHIPPING OTTO FUEL II W/INSERT,EMPTY F/TORP MK46,48	72	1.8
GUIDED MISSILE TRAINING AGM-45A/3	21	6.594
GUIDED MISSILE, TRAINING ATM-45A-6	4	1.364
FIN SET,DORSAL MK 37 MOD 0	1	0.1135
LOCATOR,BEACON,MK19-0.F/TORPEDO,MK46	1	0.005
AUTO PILOT BATTERY UNIT MK3-2 F/RIM/67A	6	0.294
CNT., SHIPPING MK479-0 EXPLODER MECHANISM MK21-0 F/TORPEDO	830	10.375
CHAMBER & VALVE ASSY,MK5-1,F/TORPEDO,MK48-1 2074542	3	0.009
IGNITION & SEPARTION ASSY MK 3-2 W/ORDALT 8178 INSTALLED	1	0.0235
EXERCISE SECTION MK80-1,F/TORPEDO,MK45-0,1,2 LD620439,2844027	23	7.3945
ANCHOR,UNDERWATER,MINE MK 60 MOD 1	11	4.2625
ARMING WIRE ASSEMBLY	1400	0.462
ARMING DEVICE,MK11-0,EMPTY,F/MN,MK57 1501790	37	0.26825
BOOSTER, MK 59-0 DUMMY F/MODIFICAION KIT MK 75	2	0.007
RE;EASE,PARACHUTE,MK 23-1 F/MINE MK 56-0	13	0.040625
RELEASE,PARACHUTE,UNDERWATER MINE	11	0.561
CASE,MK36-3,INERT-C LDD,F/DRILL MN,MK36 2421672	53	27.5865
CASE,MK36-2,INERT LDD,F/MN,MK36-2 384561	3	1.6305
CASE,MK 52-0,INERT,F/UNDERWATER MINES, MK 52,56,57	2	1.181
CASE,MK25-1,INERT,DMY J,NS,F/MK25 HAND DMY MN 2869897	1	0.965
CLOCK,DLAY,MK18-0,NS,F/NS MN,MK52,56,57 3162357	84	0.126
CLOCK, DELAY, UNDERWATER MINE MK 20 MOD 0	39	0.1209
CLOCK,DELAY,MK 30-0F/MINES MK 56,57, F/MINE MK 65 AND 55	93	0.6975
DUMMY, UNDERWATER, MINE, MK 56, INERT	1	1.162
MINE,UNDERWATER,MK 57,EXPLO FILLED	6	3.6
CONTROL BOX MK 39-1 F/MINES MK 52,55	132	0.66
CONTROL BOX,MK49-0,F/MN,MK52-7 2138622	42	0.1575
DETECTOR,PRESSURE,MK1-0,F/MN,MK52,55 1362223	18	0.3645
COUNTER,SHIP,UNDERWATER MINE MK 10-1 F/NON-SERVICE MINES	21	0.0525
COUNTER,SHIP,ACUTATION MK 14-0,F/MINES MK 52,55,56,57	4	0.01
FAIRING,NOSE & TAIL MK 21-0, F/MINE MK 56, 52	612	12.0105
FIRING MECHANISM, MK 21-0, F/MINES MK 52,55 MODS	14	0.081375
FIRING MECHANISM MK 22-1,F/MINES MK 52,55,56 F/MINE MK 57	54	0.27
FIRING,MECHANISM,MK 26-0,F/MINE MK 57-0,	2	0.06
FIRING MECHANISM MK 26-1 F/MINES MK 56, 57 MK 13-0	11	0.33
FIRING MECHANISM,MK 20-0 F/NON-SERVICE MINES MK 52,55,56,	4	0.02
FIRING MECHANISM MK 26-1 F/NON-SERVICE MINES MK 56, 57	6	0.096
FIRING,MECHANISM,MK 42-9,F/DESTRUCTORS MK 36/40/41 MINES	15	0.06
LUG SUSP,MK7-0 1475635	50	0.015384615
FAIRING,UNDERWATER MINE, MK65 MOD 0	1	0.005

FAIRING, NOSE AND TAIL MK19 MOD 0	1	0.0225
COUNTER, ACTUATION MK 10 MOD 0 F/ MINES MK 52 MK56-0	8	0.07348
COUNTER,ACTUATION MK 10-2 F/MINES MK 52,55,56,57	7	0.014
COUNTER,ACTUATION MK 10-3,F/MINES MK 52.55.56,57	7	0.0175
COUNTER,ACUTATION MK 10-4 F/MINE MK 52,55,F/MINE MK 52 DUMMY	40	0.1
STERILIZER,MK10-2,F/MINES MK 52,55,56,57	14	0.028
DUMMY,UNDERWATER MINE MK 55, INERT	1	0.6575
ARMING DEVICE,MK5-1,EXP LDD,F/MN,MK52,55 2117353	518	6.3455
ARMING DEVICE,MK11-0,EXP LDD,F/MN,MK57 2008128,WR-53/742	51	0.44625
ARMING DEVICE,MK10-0,EXP LDD,F/MN,MK56 1501702,WR-51/3A	666	5.8275
BOOSTER,MK18-2,COMP B LDD,F/MN,MK52,55 2491541,WR-51/2A	852	0.994
BOOSTER,MK6-5,TNT LDD,F/MN,MK25,27 713147	1	0.0026
BOOSTER,MK18-1,COMP B LDD,F/MN,MK52,5 1163912,WR-51/2A,WR-53/732	11787	13.7515
ARMING DEVICE,MK11-0,EXP LDD,W/RADIO FILTER	7	0.06125
ARMING DEVICE MK 5 W/EXP FITTING MK 18-0 SUBASSY 3284124	7435	74.35
ARMING,DVC,MK10-0,W/EXPL FIT,MK 18-0 SUBASSY EXPL LDD F/MN MK56-	1758	41.8206225
ARMING DEVICE,MK11-2,EXP LDD,F/MN,MK57-0 5387511	246	1.968
ARMING DEVICE MK 11-2 W/RADIO FILTER MK 4-0 W/EXP FITTING MK 18-	1325	10.6
CASE,MK25-1,TNT LDD,F/MN,MK25 384548	225	208.6875
CASE,MK25-1,HBX-1 LDD,F/MN,MK25 978454	421	390.4775
CASE,MK36-2,HBX-1 LDD,F/MN,MK36-2 384561	647	361.3495
CASE,MK36-2,HBX-1 LDD,W/BENT BRACKET,F/MN,MK36-2 ONLY LD284562	293	159.2455
CASE,MK52-0,HBX-1 LDD,F/MN,MK52 1362595	561	290.8785
CASE,MK55-2,HBX-1 LDD,F/MN,MK55 2202850	14	13.748
ARMING,DEVICE,MK32-2,EXPLO LDD,F/DST,36,40,41,MINE MK62,63,64	2771	12.4695
CONTROL UNIT,PARACHUTE,MK66-2,W/CA-1261 2202873,OS-8944	4	0.0046
DETONATOR,ELEC,MK46-1,EXP LDD,F/MN,MK6,10,18,25,27,36,39 1252238	65823	46.0761
DETONATORS, ELECTRIC	360	0.9
ARMING DEVICE MK 2-7 F/MINE	126	1.0521
FITTING,EXP LDD,MK1-0,W/PRMR,MK114-2,F/MN,MK25,36,50,52 1153511	13205	8.803333333
SIGNAL ASSY,MK26-0,F/DRILL KIT,MK2;MN,MK6,10,49 1358326	465	0.913725
SIGNAL ASSY,MK44-0,RED,F/DRILL MN 1475897	1	0.003958333
CABLE ASSEMBLY,PYROTECHNIC F/MNS	5	0.0225
CABLE ASSY, PYRO F/AN/SLQ-48 MINE NEUTRALIZATION	6	0.015
MINE,UNDERWATER MK 52 MOD 1 0A0Z	1	0.5675
MINE, UNDERWATER, DUMMY, MK 55-X OA-O4K LAYING DUMMY	1	1.2625
MINE,UNDERWATER,MK67-MOD2,CONFIGURED W/MK115/MK116 SIGNAL	1	0.7
MINE, UNDERWATER, MK65-0 AND LAYING DUMMY	3	4.38
MINE, UNDERWATER, MK60-1 (CAPTOR)	76	91.428
FIRING MECHANISM MK 42 MOD 0 W/DUAL TIMER, LESS BATTERY F/DEST	3	0.0645
FIRING MECH,MK42-1,W/DUAL TIMER,FLANGE ASSY,F/DST KIT 2501476	740	2.775
ARMING DEVICE,MK32-1,EXP LDD,F/DST MODIF KIT,MK75 2502213	1915	43.0875
FIRING MECH,MK42-2,FLANGE ASSY,F/DST MODIF KIT,MK75 2502155	736	2.76
MODIFICATION KIT MK 75 MOD 2	7358	178.4315
KIT,MODIFICATION,DESTRUCT,MK75-3 PL2500035	1	0.02425
FIRING MECH,MK42-3,FLANGE ASSY,F/DST MODIF KIT,MK75 2500037	159	0.59625
EXPLOSIVE SECTION MK 1-2,EMPTY F/MINE MK 56	1	0.1135
EXPLOSIVE SECTION,MK1-2,EXP LDD,F/MN,MK56 2996340	1408	359.04
CASE,INERT,MK 65-0 (ORANGE)U/O/LAYING MINE MK 65-0	1	1.425
CHAMBER ASSY,EXP LDD,F/FIR MECH,MK24;MN,MK53 1246325	59	0.36875
CARTRIDGE, AIRCRAFT, FIRE EXTINGUISHER,F/F-15 ACFT	112	0.056
DEPTH CHG,PRAC,2IN,MK12-0,PKD 10/MK1-0 BX LD161978	129	0.3483
WARHEAD,7.2IN DEPTH CHG,HE,MK4-0,2,3,TNT LDD,W/AUX BSTR 329139	214	7.18291
WARHEAD,7.2IN DPTH CHG,HE,MK10-0,TNT LDD,AUX BSTR,BS FZ 422602	1532	50.939
WARHEAD,7.2IN DPTH CHG,HE,MK4-0,HBX LDD,W/AUX BSTR,MK1 329139	7	0.23975
DEPTH CHG,PRAC,7.2 ASSD,7.2 HD,MK4,INERT,2.25 TAIL,MK4,6 657655	88	4.202
FUZE,DEPTH CHG,MK156-0,NOSE TYP,F/7.2IN DEPTH CHG 438552	9128	21.54208
CORD,ASSY,DETONATING F/3-1B AIRCRAFT	1	0.0015
DETONATING,FUZE,ASSY,F-16 WATERPROFF	21	0.0315
DETONATION TRANSFER ASSY F/F-16	4	0.006
CORD ASSEMBLY, DETONATING, F/F153 AIRCRAFT, STEEL, WATERPROOF	1	0.0025
CORD, ASSEMBLY, DETONATING F-15E AIRCRAFT, STEEL WATERPROOF	1	0.005
CORD, DETONATING, ASSEMBLY F/ F-15	1	0.0015
DETONATING, CORD ASSY DET F/F-15	2	0.015
CORD ASSEMBLY, DETONATING, WATERPROOF, STEEL, F/F-15 ACFT	1	0.0025
CORD,ASSY,DETONATING,STEEL,F/F-15,AIRCRAFT,HNS TYPE 1	1	0.005
CORD,DETONATING,ASSEMBLY,F-15 AIRCRAFT	1	0.001
CORD,ASSEMBLY,DETONATION F/F-16	1	0.0015
CORD, DETONATING, ASSEMBLY F/F-15	1	0.0015
CORD,ASSEMBLY,DETONATION F/F-15	2	0.000428571
CORD, DETONATING, ASSEMBLY, F-F-15	1	0.0025
CORD, DETONATING, ASSEMBLY, F/F-15	19	0.0475
CORD ASSEMBLY, DETONATING, STEEL WATERPROOF F/F-15 ACFT	1	0.0025
CORD, DETONATING, ASSEMBLY F/F-15	2	0.003
CORD,DETONATING,ASSY,TYPE 1 GRADE A, F/F-15 AIRCRAFT	1	0.001
CORD, DETONATING, ASSY F/F115 AIRCRAFT TYPE 1, GRADE A	1	0.0015
CORD, DETONATING, ASSEMBLY F/F-15 AIRCRAFT	5	0.0125
CORD,ASSEMBLY,DETONATION F/F-15	4	0.02
CORD, ASSEMBLY,DETONATION, F/F-15	2	0.01
CORD, DETONATING, ASSEMBLY F/F-15	1	0.0025
CORD, DETONATING, ASSEMBLY, F/F-15	2	0.003

CORD, DETONATING, ASSEMBLY, F/F-15	1	0.0025
CORD, DETONATING, ASSEMBLY,F/F-15	1	0.004
CORD,ASSY,DETONATING, F/F-15 AIRCRAFT	2	0.005
CORD ASSEMBLY, DETONATING, 0.191 INCHES	1	0.0005
CORD, ASSEMBLY, DETONATION F/F-15	3	0.0045
CORD,ASSEMBLY,DETONATING,STEEL,F/F-15 AIRCRAFT	1	0.0025
CORD, ASSEMBLY, DETONATING, STEEL COVERED F/F-15 ACFT	1	0.0025
DETONATING CORD F/F-15 AIRCRAFT SHIELDED MILD	4	0.02
CORD ASSEMBLY, DENTONATING F/ F-15 AIR CRAFT	2	0.003
DETONATION, TRANSFER, ASSY, DET CORD, F/F-16 AIRCRAFT	18	0.09
CORD, DETONATING, ASSY, CIR-CROSS SECTIONAL	11	0.055
CORD, DETONATING, ASSY, F/16	7	0.014
CORD, DETONATING ASSY F/F-15	11	0.00825
CORD, DETONATING ASSY F/F-15	7	0.00525
CORD,DETONATING, ASSY,F/F-15	6	0.0045
CORD,ASSY,SETONATING,F/F-15	7	0.00525
CORD ASSEMBLY,DETONATING	1	0.00029
CORD, DETONATION, ASSEMBLY	320	1.04
CORD, DETONATION ASSEMBLY	58	0.1885
ROCKET, MOTOR, TRAJECTORY, DIVERGENCE	4	0
BOLT,EXPLOSIVE,3.150 INCHES NORMINAL F-16A AND F016B	2	0.002
BOOSTER,FITTING,PRO F/F-111	8	0.002
SUS,MK61-0,SELEC 60 & 800FT,SERV,1.8LB TNT LDD DL2302108	1045	5.40134375
SUS,MK64-0,SELEC 60 & 800FT,PRAC,1.4OZ TETRYL LDD WR-54/131A	1815	6.171
AUTOPILOT UNIT, GUIDED MISSILE.	44	1.826
SUS,MK82-0,SELEC 60 & 300FT,1.8LB TNT LDD WR-54/131A,WR-54/167C	1762	6.1693
SUS,MK82-1,SNGL DPTH 300FT,1.8LB TNT LDD DL2117034,WR-54/131A	4343	14.7662
SIGNAL U/W SOUND MK128-0,SNGL DPTH,300FT,C/O,FIR MECH MK39-1	475	2.295833333
SIGNAL,UNDERWATER SOUND,MK84-MODS,F/AIR TO UNDERWATER ELECTRO	229	0.8015
CONTROL UNIT, STEERING, MK 190-0,EXTENDED RANGE F/RIM-67B	150	8.625
AUTOPILOT BATTERY UNIT,MK 137 MOD 0,F/RIM-67B	34	1.173
DETECTING,DEVICE,TARGET, MK 45-1,F/RIM-66C,67B	141	6.627
FIN ASSY DORSAL #1 W/WIRING HARNESS ASSY, INERT	20	0.071
FIN ASSY DORSIAL #2,W/WIRING HARNESS& FWD,AFT COVERS F/RIM-67B	1	0.128
HANDLING BAND,MK 79 MOD 1,F/MISSILES,FOR RIM-2	2141	42.82
BAND,HANDLING,BOOSTER MK 81 MOD 0 U/ON HANDLING BOOSTERS,RIM-2	1091	21.82
CRADLE, STORAGE, MK 20 MOD 1, F/RIM-2,24,66,67 & BSTR MK 12	1590	79.5
TARGET,DETECTING,DEVICE,MK 45-0 F/MISSILE AGM 66B/67A	419	14.8745
AUTO PILOT BATTERY UNIT MK 2-MOD 6 F/RIM-66B	22	0.902
FIN SET, DORSAL MK 41 MOD 0 INERT	102	8.364
PISTON,ACTUATOR,F/TORPEDO,MK44-1 1263708	11403	0.4960305
AUTOPILOT, BATTERY UNIT MK 3 MOD 4, F/RIM -67	176	8.5624
ACTUATOR,LDD,U/W/ARMING DEV,MK6-0,EXPLDR,MK19,F/TORP LD291971	254	0.03175
VALVE,SCUTTLER,F/TORP, MK 48 (3000 PSIG- DESIGN PRESSURE	61	0.035583333
CARTRIDGE CHAFF	9960	2.0418
MAIN ASSY,TORPEDO,MK37-0 1623529,LD296729	30	23.685
MAIN,ASSEMBLY,TORPEDO,MK43-1	10	2.445
MAIN,ASSEMBLY,TORPEDO,MK43-3	1	0.2445
MAIN ASSY,TORPEDO,MK44-1 LD495884,1803565	6	1.509
MAIN ASSEMBLY,TORPEDO,MK46-0 LD541209,2132027	614	91.179
MAIN ASSY,TORPEDO,MK37-3 LD620303,1623529	29	23.6205
MAIN ASSY,TORPEDO,MK45-2 LD620350,LD620348,2680546	37	19.425
TORPEDO MAIN ASSEMBLAGE, TORPEDO MK 46 MOD 1 PHASE 2	2	0.304
TORPEDO MAIN ASSEMBLAGE MK46 MOD 5A	2	0.398
MAIN ASSEMBLY,TORPEDP MK 46-MOD5,W/SHORT FUEL TANK,PN323582-90	1	0.09
DMY TORPEDO,MK44,WOOD 1330168,LD496046	1	0.3615
TORPEDO,DUMMY,MK44-0,STEEL,TUBE LAUNCHING LD541597,1984119	2	0.736
DUMMY TORPEDO MK 46-1 WOOD	1	0.4085
EXERCISE HEAD,MK79-0,F/TORPEDO,MK45-0,1 LD537953,2196373	4	1.156
EXERCISE HEAD MK79-1,F/TORPEDO,MK45-1,2 LD587571,2324376	6	1.26
EXERCISE HEAD,MK 86-0,IMPACT F/TORP MK 37 2865386,LD162832	104	15.652
EXPLODER MECHANISM,MK19-12,F/TORPEDO,MK44-0,1 LD480489,1578656	65	0.50375
EXPLODER MECHANISM,TORPEDO, MK 19 MOD 15	13	0.208
EXPLODER MECHANISM,MK20-0,MODIF,F/TORP,MK46-0,1,2 1210554	89	0.1958
EXPLORER MECHANISM, TORPEDO, DWG. PL5759240	13	0.273
EXPLODER,MECHANISM,MK 22-0 F/TORPEDO MK 50 P/N 5619053	84	0.504
ARMING DEVICE,MK6-0,EMPTY U/W EXPLODER,MK19 TYPES 1378167	171	2.736
BATTERY COMPARTMENT SECONDARY,F/TORPEDO MK45-0,1 1798349	8	8.18
BATTERY COMPARTMENT,PRIMARY,F/TORPEDO MK45-2 LD620355,2680565	135	137.3625
NOSE SECTION F/TORPEDO MK37-0,1	130	6.565
SUSPENSION BAND,MK64-0,1,2,F/TORPEDO,MK44-0,1 LD475591,1263125	12	0.084
WARHEAD,MK37-0,EMPTY,F/TORPEDO,MK37-2,3 LD284059,877306	1	0.0895
WARHEAD,MK103-0,EMPTY,F/TORPEDO,MK46 LD541240,2132049	1	0.0695
WARHEAD, TORPEDO, MK 107 MOD 0, EMPTY	4	1.16882
WARHEAD,MK16-6,HBX LDD,F/TORPEDO,MK14-5 LD160239	481	308.321
WARHEAD,MK16-7,HBX LDD,F/TORPEDO,MK16-8 693493	43	33.325
WARHEAD,MK37-0,HBX LDD,F/TORPEDO,MK37-2,3 LD284027,877248	1811	507.08
WARHEAD, MK 101 ,MOD 0 (HBX LOADED)	4	0.32
WARHEAD, TORPEDO MK103 MOD 0	2	0.177
WARHEAD, TORPEDO	1037	91.7745
WARHEAD,TORPEDO,MK 107-0,PBXN-103 OR PBXN-105	1	0.957

WARHEAD,TORPEDO,MK107-1,PBXN-103 OR PBXN-105	192	187.2
WARHEAD, MK 122 MOD 0 F/TORPEDO MK 50 WARSHOT PN/5169231	9	0.8325
ARMING DEVICE,MK2-1,LDD,U/W/EXPLODER,MK19,F/TORP,MK37 LD275919	138	0.11523
ARMING DEVICE,MK3-0,LDD,F/TORPEDO,MK16-6 1203025,LD280862	8	0.00792
ARMING DEVICE,MK2-3,LDD,U/W/EXPLODER,MK19,F/TORP,MK37 LD495940	967	0.807445
ARMING DEVICE,MK2-4,U/W EXPLODER MK19 TYPES,F/TORP MK37,44	1796	41.308
ARMING DEVICE,MK2-5,LDD F/TORPEDO MK48-1,PL2506575,2506575	181	1.51135
ARMING DEVICE,MK2-6,EXPL LDD,F/MN,MK65 5917848	820	1.7753
DETONATOR MK9-5,LDD F/TORP MK14-5 1442423	2	0.006
ROCKET MOTOR,MK37-0 LDD F/ASROC,LD 541443,1984043	432	130.464
SQUIB,MK1-1,F/TORP,MK44-0,1 LD175031,656714	2398	0.017985
IGNITER,MK 288-0,U/W/CHAMBER & VALV ASSY,F/TORP MK48-1,3 3017918	73	0.001825
TRIGGER,ASSEMBLY,F/TORP MK16-8 773256-4	666	2.664
ROCKET,RTR-53,ASROC,INERT-OPERABLE,TRAINING,	2	1.58
TORPEDO,WARSHOT,ROCKET RTR-5A-9,ASROC,INERT-OPERABLE, TRAINING	1	0.795
EXTENDER SECTION ASSY. F/TORPEDO MK37-2 696892 LD162557	259	33.67
HOUSING DISPENSER,F/TORPEDO MK45-0,1 LD537939	1	0.0125
LATCH RELEASE UNIT,F/TORPEDO,MK45-1,2 LD537858,2120666	1	0.002005
POWER DISCONNECT ASSY,F/TORPEDO,MK45-1,2 LD419744,2194101	23	0.0345
TARGET TORPEDO MK1-0	2	2.5
IGNTIER,TORPEDO,MK288-1,F/TORP,(ADCAP)MK 48 P/N 6105392	94	0.07849
IGNITION & SEPARATION ASSY,MK 3-1,INTER-OPERABLE WEIGHTED	1	0.024
IGNITION & SEPARTATION ASSY,TYPE MK 3-1,INERT-OPERABLE TRAINING	6	0.144
BATTERY WET,PRIMARY,PROPULSION,MK 46-0,ALTERNATE F/TORP MK37-0,1	1	1.665
BATTERY,PROPULSION,MK53-0,DRY,EXERCISE,F/TORP MK37-2,3 1873902	2	0.382
LEAD,DROPPER SETS,U/W/EXER.HEAD,MK85-0,1,2,3,F/TORP MK46-0,1,2	1	0.0445
BULKHEAD ASSY,FWD BATTERY COMP,F/TORP,MK45-2 2209344,LD537871	4	1.343
DUMMY,TORPEDO,MK37-0,3 F/FITMENT WARSHOT CONDITION	31	22.165
CNT., SHIPPING LEAD DROPPER F/TORPEDO MK46-0,1 2159305 2159307	9	0.0765
CNT., SHIPPING MK4-2 EXPLODER MK19 F/TORPEDOS MK37, MK44 1378137	128	0.992
CNTR,SHIP,MK188-0,EXER HD,MK78/81,WHD MK101,F/TORP MK44 1330158	24	0.72
CONTAINER,SHIP,MK197-1,CMPLT ASSY,F/TORP,MK44-0,1,MK46 LD269273	5	0.75
CONTAINER,SHIP,MK218-0,WHD COMP,F/TORP,MK45-0,1 LD537934,2196355	27	5.3325
CONTAINER,AMMUNITION,F/TORPEDO BATTERY MK 67 MOD 1	11	0.55
CONTAINER,S&S,TYPE I,F/ROCKET MOTOR, MK45-0 F/SUBROCKET	1	0.6755
VALVE,EXHAUST,HELO,LAUNCHED,U/W/AIR STABILIZER MK 31 TORP	22	0.022
AIR STABILIZER,MK 29 MOD 2 F/TORPEDO MK 46 MODS 0-1	7	0.07525
INITIATOR, DELAY DET F/F-111 AIRCRAFT	12	0.072
EXPLOSIVE CONTAINER F/F-111 AIR-CRAFT	7	0.3115
MINE,UNDERWATER,MK25-0,OA-22,CONFIG D,SUB-ASSY LD626673	430	446.125
MINE,UNDERWATER,MK25-0,OA-29,30,CONFIG D,SUBASSY LD626713	1604	1684.2
MINE,UNDERWATER,MK25-1,OA-05,22,26,CONFIG D,SUBASSY LD626729	38	38.38
MINE,UNDERWATER,MK25-1,OA-29,30,31,CONFIG D,SUBASSY LD626773	87	91.1325
MINE,UNDERWATER,MK25-2,OA-22,CONFIG D,SUBASSY LD626789	146	152.935
MINE,UNDERWATER,MK25-2,OA-29,30,CONFIG D,SUBASSY LD626833	612	650.25
MINE,UNDERWATER,MK36-1,OA-21,25,CONFIG D,SUBASSY LD626901	538	287.83
MINE,UNDERWATER,MK36-1,OA-22,26,CONFIG D,SUBASSY LD626905	1	0.535
MINE,UNDERWATER,MK36-1,OA-06,23,27,CONFIG D,SUB-ASSY LD626909	184	98.44
MINE,UNDERWATER,MK36-1,OA-24,28,CONFIG D,SUB-ASSY LD626913	51	30.6
MINE,UNDERWATER,MK36-1,OA-29,30,CONFIG D,SUBASSY LD626949	98	55.86
MINE,UNDERWATER,MK36-3,OA-11,13,CONFIG D,SUBASSY LD627017	327	174.945
MINE,UNDERWATER,MK36-3,OA-12,14,CONFIG D,SUBASSY LD627021	691	367.9575
MINE,UNDERWATER,MK39-0,OA-02,CONFIG D,SUBASSY LD627045	139	139
MINE,UNDERWATER,MK39-0,OA-03,CONFIG D,SUBASSY LD627049	57	73.245
MINE UNDERWATER MK52 MOD3 0A-03,04,05 CONFIGURATION D SUB-ASSY	1	0.649
MINE,UW,MK52-4,OA-03,04,05,CONFIG D,SUBASSY LD627187,WR-51/55	1	0.575
MINE,UNDERWATER,MK52-5,OA-03,04,05,CONFIG D,SUBASSY LD627203	2	1.196
MINE,UNDERWATER MK65-0,LAYING MINE PRESERVED CONFIGURATION	59	84.8125
GASKET,TAIL COVER F/MN MK25,49 1509758	9165	2.29125
FITTING,EXPLOSIVE,MK27-0,F/MINE,MK56-0 2428464,WS-5890	2308	2.885
HEAD ASSY,EXPL LDD,F/MN MK 56 2428494	674	2.73981
FIRING MECHANISM MK 37-0,F/MINE MK 52-7F/DRILL MINE MK 55	58	0.54375
SCREW,CAP,SOCKET HEAD,5/8-11 UNC-3AX1IN,F/SUSP LUG,F/MN 24245449	14349	0.71745
PACKING,PREFORMED,O-RING,18.275IN ID,F/MN,MK57-0 1552793	287	0.05453
DESTRUCTOR,MK115A LDDST100	5100	765
COMTROL UNIT,PARACHUTE MK 66-1,F/MINES MK 25,36,52,53,55,56	6	0.002341463
CONTROL UNIT, DEPTH MK 78-0 EMPTY F/MINES MK 57 MOD 0	2	0.025
DRIVER,EXP,MK2-1,EXP LDD,F/MN,MK57 1800707	11239	16.39020833
DRIVER,EXP,MK4-0,EXP LDD,F/MN,MK57 1635718	1811	0.100611111
FITTING,EXP LDD,MK9-0,F/MN,MK57-0 1826850	692	0.461333333
FITING,EXP,MK18-0,F/MN,MK52,55,56, 57 2033020,OS-9633	10174	6.782666667
PISTON,EXP LDD,F/MN,MK57-0 1826849	492	0.022874583
PROPELLANT ASSY,EXP,F/MN,MK57-0 1800668	2	0.004166667
FITTING,EXPLOSIVE,MK19-1,F/MN,MK52,55 2289989	1440	0.76
FITTING,EXPLOSIVE,MK20-0,F/MN,MK52,55 1698444	839	0.442805556
FITTING,EXPLOSIVE,MK28-0,F/DRILL MN,MK56-0 2423239	856	0.475555556
MINE UNDERWATER MK 52-3 0A-13,14,CONFIGURATION D SUBASSY	258	175.8915
MINE,UNDEWATER,M K55-2,OA-11,12,CONFIGURATION D	524	581.902
MINE, UNDERWATER, MK55 MOD 3, 0A-11,12 CONFIGURATION D SUBASSY	231	257.6805
MINE, UNDERWATER, U/W MK 56-0 OA11-12 CONFIG C SUB ASSY	1	1.073
MINE,UNDERWATER,MK55-12 OA-11,12, CONFIGURATION D SUB ASSY	38	42.408

MINE, UNDERWATER,MK 55-13 OA-11,12, CONFIG D SUB ASSY	45	50.22
ACTUATOR,PISTON,GAS F/VERSATILE EXERCISE MINE	4	2.706
FITTING,EXPLOSIVE,MK1-1,W/PRMR,MK131-0,F/MN,MK50,52,55 1299002	6051	4.034
FITTING,EXPLOSIVE,MK13-0,F/DRILL MN,MK56 1552708	431	0.102619048
EXPLOSIVE SECTION,MK1-1,EXP LDD,F/MN,MK56 LD616866,WR-51/66	208	61.88
EXPLOSIVE, SECTION,UNDERWATER MINE MK 2-2, EMPTY	3	0.225
DRILL SECTION,MK 1 MOD 1 INERT,LOADED F/MINE MK 56	2	0.5
MECHANISM SECTION,MK2-1,F/MN,MK57 2210882	1	0.245
ACTUATOR,EXP,MK18-0,F/CNTRL UNIT,MK112-0,MN,MK25,36,50 2422459	2080	0.14015625
SIGNAL,SMK & ILL,MARINE,MK55-0,F/DRILL MN,MK56,57 1635988	805	1.788888889
ARMING DEV,MK30-0,EXP LDD,F/DST MODIF KIT,MK75	41552	72.716
BOOSTER,MK59-0,U/W/MODIF KIT,MK75,F/DST,MK36,40 2421706	38430	108.084375
CARTRIDGE, AIRCRAFT, FIRE EXT, UH-1N	4	0.0004
EXPLOSIVE KIT F/ F-111 AIRCRAFT	6	0.06
CARTRIDGE, KIT, SHIP, F/F-111 AIRCRAFT	8	0.026
EXPLOSIVE KIT A, SHI F/111 ACFT CREW MODULE	12	0.858
COVER, EXPLOSIVE, ASSEMBLY F/F-111 AIRCRAFT	11	0.1925
CONNECTOR,EXPLOSIVE,TRANSFER, F/111	156	0.417
CONNECTOR,EXPLOSIVE,TRANSFER,F/F11	65	0.2075
WARHEAD SECTION,GUIDED MISSILE,MK5 MOD3-COMP B LOADED,563486	2	0.39
ACTUATOR,EXPLOSIVE,LINEAR,F/AGM-65A	39	0.0195
SAFETY & ARMING DEVICE MK 51-0 F/RIM-67A,67B,66A	647	2.1787725
WARHEAD,DUMMY,INERT MK 70-0 F/AIM-9D,9G,9H	88	1.32
DUMMY WARHEAD,GUIDED MISSILE MK 70 MOD 1	7	0.0875
WARHEAD,WDU-27/B, F/AIM 7F/M, INERT	1	0.0585
ACTUATOR,EXPLOSIVE,LINEAR	1	0.0015
DETONATING CORD,BBU-12/A,COMP OF ZUNI RKT MTR,MK63-0 DL2581328	40662	4.716792
EXERCISE HEAD,WDU-9/B,F/AIM-9D,9G,9H DL2605158	15	0.219375
EXERCISE HEAD,MK4-0,EXP LDD,W/S-A,FZ,BSTR & SIGNAL,F/AIM-7D,7E	2	0.093
SIGNAL,FLASH,MK42-0,F/AIM-7C,7D LD268011,458457	40	0.0284
FUZE,FMU-111/B,W/BOOSTER DERIVED FROM MK19 HARMS MISSILE	314	204.1
FUZE,INFLUENCE,MK303-2,W/WHD BSTR,F/AIM-9B 1504746	4	0.03116
FUZE,GUIDED MISSILE PRACTICE,MK303-2L,DESIGNED F/AIM-9B	7	0.0525
IGNITER,RKT MTR,MK258-0,F/RKT MTR,MK6-3,F/AIM-7C,D 2313631	9	0.0234
IGNITER,RKT MTR,MK178-4,F/AGM-12B LD623101,2551104	218	0.3815
ROCKET, MOTOR MDL M77A1 BQM-34/A	25	3.75
RKT MTR,A/A44A-8,W/IGNITER,W/PROP SK4-24034,330130-1	10	0.39
RKT MTR,MK27-3A,EXP LDD ASSY,F/RIM-66A,24B/C,66A-3,4,5,6 2556778	320	168.96
ROCKET MOTOR M42A1 MIM 14A	389	1268.14
ROCKET MOTOR, MK27-4 F/AGM-78B, 78C, 78D-1	17	8.483
RKT MTR,A/A44A-9,W/IGNITER ED-07-36-38-19,330198-1	6	0.0225
RKT MTR,MK8-2,W/IGNTR,MK178-4,F/AGM-12B,12B-2,12B-3 2623555	9	1.60425
ROCKET MOTOR	24	3.1752
ROCKET MOTOR	1	0.081
ROCKET MOTOR,MK38-2 EXPL LDD,W/IGNITER MK26	5	0.7
ROCKET MOTOR F/ HAWK MISSILE 10242870	58	32.712
ROCKET MOTOR	99	0.70125
SAFETY & ARM DEV,MK6-1,F/GM,RIM-2D (TERRIER) 1998718	232	1.914
SAFETY & ARMING DEVICE MK 7-1 F/RIM-2E,2F,24A, 24B, 24C	118	0.767
SAFETY & ARMING DEVICE MK17-0, RIM-66A, 66	576	1.008
SAFETY & ARMING DEVICE MK 7-0 F/RIM-2E-2F	189	1.2285
SAFETY & ARMING DEVICE;MK 15-0,F/RIM,8G,RGM-8H,8J	165	0.20625
SAFETY & ARMING DEV,MK6-0,F/RIM-2D *SENSITIVE ITEM* LD495570	462	3.8115
SAFETY & ARMING DEVICE MK 13-2, F/AIM-9L & 9D	69	0.111645833
SAFETY & ARMING DEV,MK13-0,F/AIM-9D,G,H *SENSITIV ITEM* LD521496	34	0.0969
SAFETY & ARMING DEVICE, MK 14-0 F/RIM 2E,4,5	151	0.9815
ROCKET,MOTOR,BLAST TEST,MK94-0,INGITER MODEL MK276-1F/STARS PROG	3	1.4025
RKT MTR,MK27-2,EXP LDD,DTRM,W/IGN,PRES SWCH,F/RIM-24B,C 2493130	300	158.4
ROCKET, MOTOR, MK 30 MOD 2, EXP LDD SUST F/RIM-2E,2F,67	1039	472.745
RKT MTR,MK7-0,EXP LDD SUSTAINER,F/RIM-2 LD484346,2140724	15	6.5625
ROCKET, MOTOR, INERT, MK 30-1	4	1.75
ROCKET MOTOR MK27 MOD 0 EXPL LDD, DTRM W/IGN	1	0.528
RKT MTR,MK11-5,EXP LDD BSTR,W/RELEAS ACT,F/RIM-8C,RGM-8H 1738637	72	188.64
RKT MTR,MK12-1,EXP LDD BSTR,F/RIM-2,67 1738571,LD487648	1128	1384.62
RKT MTR MK39-7 EXP LDD W/IGNITER MK 265 W/O FINS F/AGM 45	5	0.68915
ROCKET MOTOR	15	0.255
ROCKET MOTOR DUMMY BSTR MK 20-0 F/DUMMY GM MK 48-0,1	6	0.267
WARHEAD, GUIDED MISSILE, HIGH EXPL	1	1.0905
ROCKET MOTOR,5IN,M17,W/IGN,MK127,PROP GRN,MK29-1,F/GM,AIM-98/E	702	38.61
ROCKET MOTOR	126	15.75
ROCKET MOTOR,MK36-5,EXP LDD,W/O ROLON WING,F/AIM-9D,G,H SK2971	279	19.27332
WARHEAD,MK51-0,HE,F/RIM-2E,2F,24B,24C LD552974	324	37.098
WARHEAD,MK51-1,HE,F/RIM-66A,66B,67A 2117010	244	27.938
ROCKET MOTOR MK 52 MOD 2 - MK 274 MOD 0 IGNITER	915	11.7425
ROCKET MOTOR,MK36 MOD 6 AIM 9L	44	2.838
WARHEAD, HE, MK 48-2 F/AIM-9D, 9G, 9H USER NAVY	37	0.56351
WARHEAD,GUIDED MISSILE, MK 10-0, HE, F/RIM-2E/2F	1	0.088
ROCKET, MOTOR, MK58-5,LDD,EXPL,F/AIM-7F,7M,7P,GUIDED MISSILE	241	28.0765
ROCKET,MOTOR, MK 36 MOD 8 AIM-9	1	0.065
ROCKET MOTOR, MK 58-2 LDD	14	1.47
ROCKET MOTOR, MK27-5 F/AGM-78 USER US NAVY	16	8.056

ROCKET,MOTOR,MK 36-7,EXP LDD, F/AIM-9L,9G,& 9H	94	6.063
WARHEAD,INERT,MK18-0,F/AIM-7D,7E,7E-2 1698382,LD480246	1	0.0495
WARHEAD,HE,MK38-0,W/S-A,FZ BSTR,FIR SWTCH,F/AIM-7D,E,E-2 2841429	4	0.198
WARHEAD MK 90 MOD 0 F/RIM-66A,67A,66B,F/STANDARD MISSILE	102	11.73
ROCKET MOTOR, MK 3, F/AIM-9L/M,INERT	1	0.1295
WARHEAD SECTION WAU-10-A/B,C/O MK 71-0 WHD HE,W/SAFETY DEVICE	45	2.67075
WARHEAD,MK82-0,EXPLOSIVE LDD F/PHOENIX 21171038	29	2.9
WHD SECT,HE,W/WHD,MK40-0,FZ,BSTR,F/AGM-12C-2	664	498
WARHEAD SECTION,GUID MISS,HE,MK 5-1 W/WHD MK 80-0	1	0.09915
RKT MTR,XM-100,F/SARGEANT 10102215,810	9	40.14
WARHEAD,GUIDED MISSILE, MK 95-MOD-0,HE,F/RGM-66D	21	1.764
WARHEAD,SECTIN, GUID MISS, WAU-9/B, W/WHD WDU-22/B	10	1.295
WARHEAD, WDU-17/B F/AIM-9L	9	0.131625
WARHEAD, HE, MK 38-2	1	0.07425
WHD, SECT, GUID MISSILE, H.E.,MK 86-2 W/WHD MK 68-0	6	0.609
WAREHEAD,SECTION,GUIDED MISSILE,WAU 17A/B,C/O WDU-27/B	77	5.267955
WARHEAD,SECT,GM,IMPACT,MODEL#WAU-7/B,PBXC-116,FZ FMU-111/B	16	1.168
TARGET,DETECTING,DEVICE DSU-15B/B,F/AIM-9M	2	0.0055925
WARHEAD,H.E.GUIDED MISSILE F/AMRAAM AIM-120 P/N3819740	52	3.77
BSTR,FUZE,ASSY,MK45-0,W/FLEX LEAD	159	0.1291875
BOOSTER,FUZE,MK43-0,EXP LDD,F/RIM-2D LD495576,1676213	1835	1.452708333
BOOSTER,FUZE,MK38-1,LDD EXPL,F/AIM/RIM-7E,7M & 7P	2	0.002
BOOSTER,FZ,MK44-0,EXP LDD,F/BULPUP/SHRIK/HARPON LD521579,2049578	1315	50.6275
INITIATOR,RKT MTR INGITER 9082141	1	0.00065
GENERATOR, GAS PRESSURE,PROPELLANT ACTUATED, LGM 30	1	0.00125
GENERATOR,GAS PRESSURE,PROP, ACTUATOR, MK 2-1 ELEC,EXP LDD	1	0.00785
GENERATOR,GAS PRESSURE,PROP ACTUATOR,MK3-1,HYDRAULIC EXP LDD	1	0.0091
SAFETY & ARMING DEVICE MK 76-0 F/RIM-66	942	6.34437
IGNITER,MK 192-2,F/RIM-2,RKT MTR SUST MK 7-0	7	0.028
IGNITER, MK 272 MOD 0 F/TERRIER ROCKET MTR/SUS MK 30-2	253	2.4035
RKT MOTOR,MK56-2,EXP LDD,DTRM W/ING F/RIM-66A/B	956	554.002
ROCKET, MOTOR, MK 36 MOD 11, AIM-9 L/M	434	51.3205
PROPULSION SECTION, GUIDED MISSILE	24	2.76
ROCKET,MOTOR MK 30-4,W/O MK 272-0 IGNITER, F/STD SM 2	661	289.1875
ROCKET MOTOR DUAL THRUST MK 104 M0D 2 F/SM-2	38	20.368
HELLFIRE, PROPELLANT SECTION,GUIDED MISSILE	51	1.5045
GENERATOR, GAS PRESSURE, PROPELLANT, ACTUATED	3	0.009
WHD ATM9A/B AGM87A-1 MK8 MOD	4	0.008
WARHEAD,GUIDED MISSILE,MK 71- MOD-0 HE	2	0.264
WARHEAD, MK 115 MOD 1, F/RIM-66/67	385	43.3125
ROCKET MOTOR,MK 36 MOD 12	4	0.198
INERT DUAL THRUST RKT MTR	6	3.216
GUIDED MISSILE, TRAINING, TYPE I, ATM-78A-1	1	1.0335
CONTAINER, MK 386-0 F/2 MK 48-0 WARHEADS NALC VW17	396	0.792
CONTAINER,S-S,CNU-121/E,CMPLT RND,F/AGM-78/ATM-78 423-221234	36	12.6
CRADLE,GUIDED MISSILE MK16-0 SHIP & STOR F/AIM 9D-9G-9H	13	3.38
CONTAINER,MK 287-MODS 0,1,F/MK 36 MOD 2 OR 5IN ROCKET MOTOR	2	0.03
CONTROL UNIT STEERING MK 117-0 F/RIM/66A	4	0.204
CONTROL UNIT STEERING MK 118-0,F/RKT MTR SPACER MK 4-0,F/RIM-67A	2	0.102
CONTROL UNIT STEERING MK 118-1 W/RKT MTR SPACER MK4-0,F/RIM-67A	9	0.459
CONTROL,FIN,SET,MK26-0,CONSISTS OF 4 FINS F/RIM-1	603	56.079
FIN ASSEMBLY, GUIDED, METAL DORSAL SET MK29 MOD 0	12	1.41
FIN,ASSY,SET,GUIDED MISSILE,BSTR SET, MK 31-0	2367	224.865
AUTO PILOT BATTERY UNIT MK 3-1 F/RIM-67A	70	3.395
FUZE, SHROUD, ASSY, MK 368-1 F/RIM-66A,67A	1	0.035
EXPL RELEAS DEV,ACCUMULATOR,F/HAWK MISSILE 10108943	48	0.012
EXPLOSIVE, KIT A, SHIELD	12	0.858
SEVERANCE ASSY F-11	14	0.392
SEVERANCE ASSEMBLY F/F-111	16	0.08
INITAITOR, PROPELLANT, DELAY,F-111	25	0.2
INITAITOR,ASSEMBLY,F/F-111 AIRCRAFT	40	0.2
SQUIB, FIRE EXTINGUISHER, C-5	150	0.75
SQUIB ASSY, ELEC C-141A	88	1.056
IGNITER,W/INSTALLATION TOOL,F/AGM-12C,RKT ENG LR62-RM-2,4 315390	198	0.0693
INITIATOR, ASSEMBLY, F/F-111 AIRCRAFT	4	0.006
ROCKET,MOTOR ASSY,PITCH	1	0.004
CARTRIDGE, GUILLOTINE, F-111	16	0.0256
CARTRIDGE, GUILLOTINE, F-111	11	0.0176
BOOSTER, FITTING F-111	12	0.048
SEVERANCE,STRIP ASSEMBLY F/F-111	1	0.005
EXPLOSIVE, CHARGE, CR, F/F-F111 AIRCRAFT	11	0.121
INITIATOR, DELAY F/F-111 AIRCRAFT	23	0.207
SEVERANCE, ASSEMBLY F/AIRCRAFT F-111	6	0.01374
CONNECTOR, EXPLOSIVE TRANSFER F/111	46	0.1098
FUZE BOMB,FMU-124A/B,F/GBU-12,16 INTRCHNGBLE W/ALL MK80 SRS BOMB	917	1.834
CNT., SHIPPING SEAWATER BATTERY, NALC TU44 F/TORPEDO MK46-1,2	29	0.1595
AUTO PILOT BATTERY UNIT ,MK 6-1 F/RIM-66	1	0.04
AUTO PILOT BATTERY UNIT MK 7-0,F/RIM-67	8	0.32
SPACER SUSTAINER MK 4-MOD 1 F/ RIM-67 W/O A 7405-2	28	0.63
CONTAINER,S-S,CNU-333/E,EMPTY F/BGM-71A-1,(INERT)	12	2.4
SIMULATOR,SUBMARINE,MOBILE MK 57-0,TACITCAL	1	0.171

ROCKET, MOTO,BOMB MODIFIED,F/2000LB,LOW DRAG,GEN PURPOSE BOMB	553	559.9125
TAIL, SECTION ASSEMBLY MK 7-0 F/MINE MK 65	26	1.82
FIN DORSAL ASSY #4 W/WIRING HARNESS ASSY	1	0.021383333
ELECTRIC, COMPONENT SET W/RASP MK 9-0 F/ASROC	219	4.243125
GUIDANCE SECTION,GUIDED MISSILE	86	4.171
CONTROL SECTION,GUIDED MISSILE,MK 117-MOD 7,F/RIM-66B,	9	0.3015
AUTOPILOT BATTERY UNIT,MK 2 MOD 7,F/RIM-66B,66E	44	1.804
FIN DORSAL #3 W/WIRING HARNESS ASSY F/RIM-67	5	0.64
SPACER,SUSTAINER,MK4 MOD2;FOR RIM-67B	25	0.5625
AUTO PILOT BATTERY UNIT MK 8-0,F-RIM-67B, IN CNTR MK 460-3	115	5.8305
GUIDANCE, SECTION, MK 67-0,F/RIM-67B, INERT	150	12.76875
KIT,ANTENNA,WRAP-AROUND,SM-1,ER,MK 128-0, INERT	98	0.392
SHIPPING AND STORAGE CONTAINER, GUIDED MISSILE	13	0.3705
CONTAINER, MK 129 MOD 0 F/AIM9E INFLUENCE FUZES	334	0.334
CONTAINER,RKT MTR A1M-7D/E	4	0.308
WING ASSY F/AIM 90,CANARD,DOUBLE DELTA	8	0.168
GUIDED MISSILE,TACTICAL,AGM-78D,CMPLT STND ARM (CHINA LAKE)	247	255.3486
CARTRIDGE, CATAPULT, MK 205-1 U/O SJU-4/A	1	0.00375
ARMING WIRE ASSEMBL	89250	11.69175
ACTUATOR,EXPL,MK18-1,F/CONTROL UNIT,MK112,F/MN,MK52,5,6 5468542	12763	95.7225
CARTRIDGE, IMPULSE CANOPY	2	0.003
DROGUE TRAY ASSY F/ LUU-2A/B AIRCRAFT PARACHUTE	383	0.383
TAIL SECTION,DESTRUCTOR,MK11-0,F/MN,EX64-0,2,3 5177682	1836	78.03
GASKET,FIBER,F/CLOS PLG CX41,F/C445,C477,2700/WDN BX 75-14-575B	29244	0.7311
SHELL,INCR,POLY-FOAM,F/DODICS C256,C276,CNTR,M252A4 9230175-21	21944	0.342875
INSERT,INCR,POLY-FOAM,FLEX,F/DODICS C256,C276,3000/BX 9230175-20	59744	0.305595908
BAG ASSY,PROTECT,F/C226 9241850,9241848 O/P	48373	6.530355
CONNECTOR/EXPLOSIVE TRANSFER F-111	107	3.094
TRANSFER ASSEMBLY F/F/111 AIRCRAFT	33	0.1386
CUTTER,PROPELLANT,ACTUATED	181	0.2715
TIMING ELEMENT MK 4 MOD 0 ELECTROYTTIC,F/CLOCK DELAY MK 21-0	3129	0.9778125
FUZE, GUIDED MISSILE, FMU-138/B (NALC YW06)	10	0.05
PALLET,ADAPTER,COMPLETE,ADU-426/E,F/FIN ASSY,BOMB,BSU-11A/B	282	2.71425
WARHEAD,GUIDED MISSILE,HIGH EXPL. MK12 MOD 0 (NALC YW19)	608	331.512
TARGET,DETECTING,DEDVICE,DSU-15A/B,F/AIM-9L/M	17	0.05093625
CHARGE,EXPLOSIVE MK70-0,U/W/LIMPET MK5-0 P/N 2880420	36	0.9
GUDIANCE & CONTROL TRAINING, AN-DSQ-29 F/NATM-9L7A	5	0.1064375
MOTOR,ROCKET,(GTR-18)SMOKEY SAM D L 1335AS100	157	0.176625
FLIGHT CONTROL GROUP OA-8878D/D	1	0.07441
TARGET SEEKER-RADOME F/AIM-7F-8 GUIDANCE SECTION	1	0.063475
TARGET SEEKER, RADOME F/AIM-7E & 11	13	0.825175
PROCESSOR, SIGNAL 2A1A6 F/MINE MK 60 MOD 1	24	0.0762
AUTOPILOT BATTERY SECTION MK 10-4 EXTENDED RANGE F/RIM-67	47	2.4205
GUIDANCE SECTION, GUIDED MISSILE MK69 MOD 0 F/RIM-66C	23	3.2338
AUTO PILOT BATTERY UNIT MK 9-0,F-RIM-66C,66D IN CNU-460-4,CNTR	21	1.0185
CONTROL UNIT, STEERING, MK191-0,F-RIM-66C,66D	53	2.703
WARHEAD,MK 115 MOD 0,F/RIM-6B,66D,67A,67B	1320	144.21
ACTUATOR, EXPLOSIVE, STAB, ASSY MK 26-1 F/MINE MK 60-1 3267110	146	0.201966667
MONITORING ASSEMBLY,ACCELERATION,F/SIDEWINDER MISSILE	1	0.0025
CHAFF COUNTERMEASURE USED ON M130 GEN DISPENSER	360	0.075
ROCKET 40.70MM HEAD	18	0.12
ROCKET 64MM HEAD MODEL PG 18	12	0.0375
REEL ASSY SET 2	11	0.0275
GRIPSTOCK-CONTROL GROUP,GUIDED MISSILE LAUNCHER	23	0.092
WAD,PYRALIN,F/5/54 SHORT CTG 329507-25	102	0.00255
DETECTING DEVICE,TARGET,MK1-0,F/RIM-2B-2 LD477319,1499760	14	0.469
DETECTING DEVICE,TARGET,MK7-0,F/RIM-24A-1	4	0.124
CONTAINER,FIBER,M314,F/C651,PKG AS REQD 7549071	8663	21.6575
BOX,FBRBD,PACK,REUSABLE,COLLAPSABLE,F/HIGH EXPL 7548645	77986	155.972
CNTR,AMMO,FIBER,M105A2,F/CTG 105MM 7549073	11596	28.99
BOX,PACK,WDN,F/CNTR,105A2/M108A2,F/PKG 105MM CTG	19850	228.275
CNTR,AMMO,WDN,OUT,EMPTY,F/6 2.75 RKT MTR/4 2.75 RKT UNAS 9209570	90	2.25
FIRING MECH,A-6-1,W/CBL ASSY,CA-377,F/MN,MK25-2 490758	4	0.106
MINE VEHICLE,MK1-1 LD291871,1379778	13	6.5
FITTING,EXPLOSIVE,MK10-2,F/MN,MK57 2419996	19	0.005541667
FUZE,DEPTH CHG,MK158-0,NOSE TYP,F/7.2IN DEPTH CHG 438552	5644	13.31984
FUZE,DEPTH CHG,MK177-0,NOSE TYP,F/7.2IN DEPTH CHG 399141	156656	515.39824
CARTRIDGE, MORTAR, P/N 756440-1	8	0.154
PROJ,5/25,VT,SUBASSY,MK36 MODS,W/O FZ,COMP A-3 LDD 1380857	270	7.29
CLUSTER,PROJ LNCH,MK14-0,EXP,CLSTR,MK13-0,2.25 TAIL,MK6 1453528	3964	204.146
PROJ,3/70,VT,NF,SUBASSY,MK34 MODS,GRAY,W/O NF,ADF 1380971	10	0.07
PROJ,5/25,ILL,SUBASSY,MK45 MODS,W/LOAD,MK4-5,W/O MTF 562016	1	0.027
FUZE,MK328-0,F/GW,MK1,2 MODS WALLEYE I *SENSITIV ITEM* DL2204328	3	0.00775
FUZE,BOMB,MK257-0,ELEC,F/BOMB,FIRE,MK79-1 1519294	96	0.174
FUZE,BOMB,AN-M103A1,0.1 SEC DLAY,NOSE TYPE 73-8-14	503	1.536944444
BURSTER,BOMB,AN-M4,F/100LB SMK/GAS BOMB 82-3-281	1300	1.56
FUZE,BOMB,M173,MODIFIED,NOSE.TYPE,CONTACT	292	0.146
FUZE,BOMB,M195,TAIL TYPE P-81143	6	0.0117
FUZE,BOMB,M990D,TAIL TYP,ELEC,IMPACT,SAFE/ARM DEV,MK26 10401657	12	0.0324
CARTRIDGE,IMPULSE,MK25-2,FMLY PRIMER,ELEC,MK25-2 LD295764	950	0.06175
SAFETY & ARMING DEV,MK5-1,W/FZ BSTR,F/AIM-7D,7E LD495623,1584038	518	1.61875

WHD SECT,HE,W/EXP LDD BOMB,MK81-1,MODIF,FZ BSTR,F/U/W/V3B01	5	1.225
ROCKET MTR,M5,PN8025075 S8BAB	24	22.596
IGNITER,RKT MTR,MK265-0,F/AIM-7D,E,F,AGM-45A,RKT MTR 2516361	128	0.0896
CTG,SIGNAL,PRACTICE BOMB,MK4-4 N/S PACK LD 256093,1211717	50	0.0035
RKT,2.75IN,PRAC,UNASS,WHD,MK1 MODS,INERT LDD,MTR,MK1-3,GRN MK31	56	2.828
RKT MTR,2.75IN,MK1 MODS,W/PROP GRA1N,MK31 MODS LD174925,656139	3	0.2445
RKT MTR CLUSTER,2.75 RKT MTR,MK3 MODS,PROP GRN,MK43,7/AERO 6A LA	7	0.42942
FUZE,RKT,AUX DET,MK44-2,F/WHD,5IN,MK7,10,12 MODS,SPIN STB 440406	444	0.25086
TAIL ASSY,2.25IN,MK3-0,2,3,W/PROP GRAN,MK10-0 329533	13885	105.873125
EXTENDER MECH,MK16-0,EXP LDD,F/MN,MK50 1208186	298	0.66752
FITTING,EXP LDD,MK3-0,F/DRILL KITS,MK4,5;MN,MK18,25,36 1236413	5075	0.440331667
WARHEAD,7.2IN DEPTH CHG,MK5-0,TNT LDD,W/AUX BSTR,MK1-0 393836	1548	44.14
DETONATOR,ELEC,MK51-0,F/12.75 DEPTH CHG 497630	209	0.013
FUZE,MK131-3,F/7.2IN DEPTH CHG 328804	5376	12.66048
FUZE,MK312-2,W/O BOOSTER,F/AGM-12B	1369	4.44925
IGNITER,W/INSTALLATION TOOL,F/AGM-12B,RKT ENG LR-58-RM-4 313089	179	0.022375
FUZE,PROXIMITY,MK53-9,NOSE,NON-SD,W/AUX DET,REWORKED 584004	683	2.066075
GUIDED MISSILE, DUMMY, MK 48 MOD 1	5	4.965
DUMMY, GUIDED MISSILE, TARTAR MK 49-1	2	1.915
SHIPPING AND STORAGE CONTAINER,MK199 MOD0,1,EMPTY	10	6.13
CONTAINER MK205 MOD 0 F/RIM-2D,2E,2F EMPTY	713	164.95255
AUTO PILOT,UNIT, MK 2-2,F/RIM-66A,66B	29	1.2035
GUIDANCE, SECTION MK 33-4 F/RIM-66A, 66B, 67A	7	0.385
GUIDANCE, SECTION MK 33-3 F/RIM-66A,66B,67A	87	4.7415
AUTOPILOT BATTERY UNIT MK 3-3 F/RIM-67A	8	0.388
FIN ASSY,GM,DORSAL MK 27-1,CONSISTS OF 4 FINS F/RIM-66A	300	6.4
CONTROL UNIT STEERING MK 117-2,6 F/RIM/66A,66B	43	2.193
FIN ASSEMBLY, GUIDED MISSILE/METAL DORSAL SET MK29 MOD 1	13	0.277766667
STEERING, CONTROL UNIT MK 118 MOD 2	21	1.071
ROCKET,MOTOR , MK65-0 1, EXPL LDD DTRM W/IGNITER	135	79.1775
FUZE, W/SHROUD ASSY, MK 368-3 F/RIM-66A,66B,67A	25	0.875
FUZE, W/SHRO00000000000000000000000000000000000000000000000000000	29	1.015
CNTR,S-S,MK427-0,EMPTY,F/1 CBU MK20-2 DL1569340,1569340	30	6.3
CRADLE,WEAPON,MK18-0,EMPTY,F/ROCKEYE 2 2581189	1	0.7275
CNTR,MK426-0,F/WALLEYE 64A33F1	3	0.843
SHIPPING & STORAGE CONTAINER,ALUM,MK 470 MOD 0	2	0.5
TELEMETERING,INSERT,AN/DKT-26A,W/BATTERY,FREQ 2252.5 MH	10	0.925
TELEMETERING,INSERT,AN/DKT-26A,W/BATTERY,FREQ 2212.5 MH	8	0.74
EXERCISE,HEAD,GUIDED MISSILE, MK 20-1 F/RIM-2C-2D	18	2.718
DETECTING,DEVICE,TARGET,SHROUD ASSY,MK 45-0,3, F/RIM-66A,66B,67B	7	0.28
CONTAINER,S&S,CNU-171/E,F/AGM-45	40	0.74
SHIPPING AND STORAGE CONTAINER, F/GUIDANCE SECTION	127	53.975
CRADLE CNU242/E	2	0.695
CONTROL UNIT,G.M.STEERING MK 222-0,F/RIM-66B NALC 2W96	53	2.7295
DETONATOR, ELECTRIC, PQM-102B DRONE	1	0.001
EXPLOSIVE CORD SET	17	0.1496
DETONATION TRANSFER ASSEMBLY	1	0.0015
CORD, DETONATING, TRANSFER ASSY F/F-16 ARCFT	2	0.005
DETONATION TRANSFER ASSY F/15	15	0.015
DETONATION,TRANSFER,ASSY	3	0.003
FLEX LIN SHAPED CHARGE HOLDER ASSY	429	1.2485
BOOSTER,CARTRIDGE,AUTO PARA RELEASE	56	0.112
CORD, DETONATING, ASSEMBLY	1	0.005
CORD, DETONATING, ASSEMBLY F-16 AIRCRAFT	1	0.005
CORD, ASSEMBLY DETONATING	1	0.0015
CORD, ASSEMBLY, DETONATING	1	0.0025
DETONATION TRANSFER ASSEMBLY	4	0.02
EXPLOSIVE,DEMO CHG COMP.B 7LBS	69	0.242
DEMO CHG 10LBS COMP B (CRANE)	43	0.026
COMP,B,GRADE B,15LB CHARGE	76	0.722
CHARGE, DEMOLITION, 20LBS, COMP B	10	0.132
CHARGE,DEMO.30 LBS COMP B LDD	39	0.585
CHARGE,DEMO,COMP B, 42LBS	28	0.672
PAD,FILLER,F/WHD,2.75IN RKT,MK5-0 :05487	2000	0.010
BLASTING CAP :CAGE CODE 07TS0	543	0.000
COMPOSITION C-4 :CAGE CODE 07TSO	7	0.000
FUZE, SAFETY, TEC :CAGE CODE 07TS0	17575	0.000
DETONATING CORD (TEC-CORD 25 GRAIN) :CAGE CODE: 07TS0	10596	0.000
BOOSTER CORD SENSITIVE 3/4# :CAGE CODE 07TS0	1033	0.000
FUSE LIGHTERS, PULL WIRE :CAGE CODE 07TSO	2776	0.000
8140: CRATE,FIN,ASSY,MK 26-2,EMPTY,F/500LB BOMB,GP P/N 1331056	644	11.914
DMY UNDERWATER MINE,MK27-0,OA-OOJ,HANDLING,INERT :10001	2	2.000
SPACER,STAR SHAPED,F/FWD FZ WELL,GAR,MK2-2 WHD :10001	2065	0.005
LEVER,RLSE BND,F/FIN ASSY,MK15-2 F/500LB,GP,LD SNAKEYE N-STD-PK	12500	0.063
EYEBOLT SHOULDER F/BULLPUP	4357	0.149
SPARE PARTS KIT F/M58A3 LINEAR CHARGE :10001	41	0.001
COVER,PROTECTIVE,F/WARHEAD,MK103 (10001)2159385NC	72	0.027
PISTON FOR HEAD	1	0.042
FIN PARTS :CAGE CODE 10001	18	1.476
EMPTY CONTAINERS, MK 460-MOD3 (UNSERVICEABLE) :10001	55	2.475
EMPTY CONTAINERS, MK 460-MOD2 (UNSERVICEABLE):10001	7	0.066

PALLET ADAPTER,MK88-0,FORWARD END CAPS,F/2 16IN PROJ	40	0.800
AUTO PILOT BATTERY :10001	23	1.024
CONTAINER,EMPTY,MK 460 MOD 0 :10001	2	0.002
DETONATOR ELECTRIC, MK115, MOD0 :10001	1322	0.331
1336: WARHEAD, ORDANCE, SECT,WAU-1/B F/STD ARM, P/N 67A85F818	41	20.295
GUIDANCE SECTION F/GUIDED MISSILE PN-L5245624	1	0.017
GUIDANCE SECTION F/GUIDED MISSILE PN-L5538971	1	0.317
TUBE,FIBER MK 1 MOD 2 F/ARMING WIREASSY MK 9	2522	0.067
BOX,WOODEN MK 2 MOD 2 F/MK 9 ARMINGWIRE ASSY	42	0.009
1370:SIGNAL,ILL,MARINE,MK3-3 GREEN,6/MK 8-0 BOX	12	0.087
1336: WARHEAD,MK 51-0,INERT LDD,F/RIM-2E,2F,24B P/N LD552974	14	0.917
8140:BOX,WDN,F/122,SAFETY DEVICE MK 3, 12, (10001)PL2501896	24	0.048
EXTRACTOR,PROJ,MK1-1;2-0,1,2,F/5 CTG 179059,328916,328307,328930	3428	4.799
EXTRACTOR,PROJ,F/6 CTG 182710	1780	8.010
FILLING UNIT,VACUUM,MK1-0,F/SMK TANK,MK12-0 LD586320,2324273	8	0.900
KIT MODIFICATION F/SMOKE TANK MK 12-0 W/LANYARD,SPRINGS,SPACER	195	0.380
WIRE TIE 16 GAUGE F/155MM	30000	0.094
LAUNCHER,RKT,2.75IN,M158A1,7 TUBE LAUNCHER 10678600	1	0.042
LAUNCHER, PRACTICE SUBCALIBER M287	165	1.865
CHARGE,MAIN,ASSY,F/MINE SWEEPING CABLE CUTTER MK 13-1	89	0.223
ELBOW,ASSY, F/MN SWEEPING CABLE CUTTER MK 13-1	678	5.085
LINE THROWING DEVICE	2	0.047
COVER ASSY., FUZE COMPONENT OF DISPENSER 2878188	178	0.089
RACK, BOMB, EJECTOR, BRU-10 A/B	1	0.025
1338: IGNITER ASSY,FIRST STAGE,F/RKT MOTOR P/N 11177117X-010	1	0.032
FUZE, MK 254 MOD 2 (INERT)	1	0.039
PADS,BOOSTER,PKG 50/PLASTIC BAG/FBRBD BX :11862	5121	0.512
COMPUTER, GUIDANCE	1	0.104
ACTUATOR,ASSY,EXPLOSIVE BRAKE USED W/SPARROW LAUNCHER	4	0.004
DIVISIONARY, FUZE, TYPE I PRACTICE DODIC DWBU	31	0.003
MIXED TYPE SMALL ARMS :59678	663	0.033
1305:CTG,20MM,APT,M95,M95A1,LINK,M10	7778	3.088
1305:CTG,20MM,INC,T18,LINKED W/M10 LINK	402	0.158
1305:CTG,20MM,LINK ELEC,TP,MK105-1,W/PRMR,M52A3B1,LINK MK 2 MODS	4292	2.146
1305:LINK, 20MM, METAL, N/S PAK	20000	0.270
CTG 7.62MM/5.56MM:19200	466	0.230
1305:CTG, 12 GAUGE, RIFLE SLUG W/PLASTIC CASE	20	0.002
VARIOUS, MIXED, SMALL ARMS	655	0.013
1305: BRASS F/9MM, BALL	1275	73.313
BRASS F/7.62MM,BLANK M82	250	4.750
BRASS F/7.62MM SPECIAL BALL	1425	0.392
BRASS F/5.56MM BLANK	250	1.250
CTG, 9MM	400	22.000
CASE, CARTRIDGE	6479	0.324
TUBE AND STRAPPING ASSEMBLY,CONT	269	19.503
HANDLE, CONTAINER	2000	50.000
CARTRIDGE, 38 CAL SH STOP (NON-MILITARY NSN)	100	0.005
CLIP,CARTRIDGE	64	0.035
SUPPORT, CARTRIDGE	2783	0.139
FIN,EXTENSION,ALUM,F/CTG,60MM 9215574	7500	1.875
CHARGE, PROPELLANT, INCREMENT XM182 F/CTG 60MM,DWG#9216363	233241	6.028
CARTRIDGE, 60MM, PRACTICE	23	0.161
FIN ASSY W/PRIMER PERCISSION M32,CTG IGN M5A2 F/60MM	86923	13.038
1310:FIN,ASSY,M27,W/IGN CTG M702 F/60MM HE,NON-STD DRVD F/RENOO	174	0.026
PROJECTILE, M720 METAL PARTS	15	0.000
CASE,PROJECTILE	2553	1.277
PROPELLING, CHARGE, M204, F/60MM MORTAR, M720/M888 DODIC ZZDT	45696	0.922
RING, OBTURATOR PLASTIC	72053	2.162
PROJ,3/50,AP,SUBASSY,EXP D LDD,MK29 MODS,W/O BF 1350945	44	0.352
PROJECTILE,SUBASSY 3 INCH 50 CALIBER VT	11	0.176
PROJ SUBASSY,3/50,VT,MK33 MODS,W/NDF,AD,COMP A-3 LDD 515209	7	0.046
PROJECTILE,SUBASSY, F/3IN 50 CAL, VT NON-FRAG MK 31 ALL MODS	1	0.016
PROJ SUBASSY,3/50,VT,MK31 MODS,NONFRAG,GRAY,W/NF,AD 513887	1	0.006
PROJECTILE,SUB-ASSY, 3 IN 50 CAL VT NON-FRAG MK 33 ALL MODS	33	0.206
PROJ SUBASSY,3/50,VT,MK33 MODS,NONERAG,GRAY,W/SDF,AD 515249	215	3.440
PROJECTILE,SUBASSY,3 IN 50 CAL VT-NON-FRAG,MK 33 ALL MODS	9	0.059
CASE,CTG,M14B4,STL,SPIRAL WRAP,F/105MM CTG 8595386	16373	42.297
PROJECTILE, METAL PARTS ASSEMBLY, F/105MM, M1	934	13.223
GAS,CHECK,GASKET,U/W/CTG,165MM,HEP M123A1,PROJ,106MM,M344A1	16469	0.082
FIN ASSEMBLY, CARTRIDGE	105	0.039
CASE,CTG,MODEL M14B1,105MM STEEL P/N 9240919	8114	101.425
CASE, CARTRIDGE	102691	325.188
SPACER,CARTRIDGE	1508	0.431
PROTECTIVE BAG ASSEMBLY F/C276	819	0.020
SABOT, 81 MILLIMETER, PRACTICE	69	0.690
FIVE INCREMENT BUNDLE,M8,F/PROP CHG,M36/A1,F/CTG,4.2IN 8833727-2	99521	1.078
INCREMENT,SINGLE M8 PROPELLANT U/ON CHG PROP,F/4.2MM CTG	85807	0.930
PROJ,3/50,SUBASSY,VT,NONFRAG,MK33 MODS,GRAY,SDF,W/BSTR 563840	2	0.013
PROJECTILE, SUB ASSY, 3 IN 70 CAL MK 34 ALL MODS W/AUX DET MK 44	10	0.100
PROJECTILE,3 IN 70 CAL NON-FRAG MK 34 ALL MODS PROX FZ MK 75-2	3	0.113
PROJECTILE, SUBASSY, F/ 3 IN 50 CAL, MK 33 COMP A/3	1	0.006

PROJ,3/50,VT,NONFRAG,SUBASSY,MK31 MODS,GRAY,W/O NSF/AD 513887	5	0.032
PROJ,3/50,SUBASSY,ILL,MK25 MODS,BLK PWR,W/MTF 1380742	3	0.020
NUT,PRESSURE PLATE	960	0.048
DISC,ROTATING	227	0.114
CONTAINER,CTG,STEEL,C1117/C1118,CF OR C1213,CF, ROUND ASTMA108	162	0.008
HOLDER,PRO,MATERIEL,WIRE STEEL ASTMA228	13572	0.007
LINER,CARTRIDGE CAS	8648	8.648
PLATE,STRIKER,POINT,NUT/ASSEMBLY P/N MS1169	273	0.001
LABEL WARNING	2	0.000
FUZE, ADAPTER,MAT'L,STL U/IN 4.2IN,M329A1,M328A1,M335E1	1366	0.137
CONTAINER, CARTRIDGE ALUM ALLOY F/4.2 CTG	62794	9.419
IGNITER ASSEMBLY F/75MM RIFLE, M20	916	22.900
CASE,CARTRIDGE	388	2.474
1315:PROJ,90MM,HE,COMP B LDD,M71W/O FZ,W/PLIG	20	0.490
1315:PROJ, SUBASSY,, 105MM, HE,M1,TNT LDD, PKG 2/WDN BOX	26	0.637
1315:CASEMCTG,3/50,W/O PROJ,W/PROP SPDN3327,PRMR MK 14,SLOWFIRE	2	0.025
1315:CASE,CTG,3/50,W/O PROJ,W/PROP-SPDN 10170-PRMR-MK42-2 EXPER	2043	25.538
1315:CTG,3/50,B/L&P,TARGET,W/PRIJ,MK3-5,CASE,MK3-3,PRMR MK 14	4	0.058
1315:PROJ,90MM,W/BRSTR INITAITOR, BRSTER CHG F/BREAKDOWN M313C	61	1.495
1315:FIN ASSY,M149/M170,W/IGN CTG,M285,PRMR,M71A2,F/81MM,N/S PAK	381132	133.396
1315:CASE, CTG, /75MM, W/O PRIMER T6EB1	11	0.001
1315:FIN ASSY M158,W/PRMR & IGNITION CTG, F/81MM N/S PAK	1300	0.455
1315:FIN,ASSY,M4A2,W/PRMR,M34 & IGN CTG,M6 F/81MM N/S PAK	4154	1.454
1315:FIN ASSY,MK-24,W/IGN CTG,M299,F/81MM N/S PAK	9234	3.232
1315:PROJ, 105MM, HE, TNT DERIVED FROM BREAKDOWN	2	0.060
FIN,ASSY,M158,W/PRIMER,M71A2 & IGN,CTG,M66E1	19722	3.114
CHARGE, PROPELLING, 81 MM	42	0.133
PROJ,106MM,HE,HEP-T,SHELL DES F/M346A1 & M638 CTG 8596145	368	1.887
BAG LOADING ASSEMBLY 340 GRAINS OF M9 PROP/U/O CHG PROP M36A2	28277	579.679
PROJECTILE, 4.2, M329A2 METAL PARTS ASSEMBLY	1931	1.522
CASE,PROJECTILE	445	5.825
PROJECTILE, 106MM, M344A1, METAL PARTS ASSEMBLY	54	0.037
EXTENSION PARTS ARRANGEMENT: U/ON OBTURATING MECHANISM 4.2	177	0.018
PIN,OBTURATING PK REF MILSD1169	230	0.012
PROJ,105MM,FUZE TYPE,MECH TIME,FZ MODEL,M571 W/O BOOSTER 9229964	2315	8.103
BAND,OBTURATING,POLYAMIDE,PLASTIC W/ON 175MM M437A2	258	0.387
CTG,CASE,ALUM,ALLOY,1100-F,MODEL M9A1E1	2435	1.339
PROJECTILE METAL PARTS ASSEMBLY	3049	6.352
CONTAINER,ASSY, W/ON CHG PROP, M205 INCREMENT	132	1.564
PLUG,PROJ,NOSE,F/105MM	300140	45.021
CHARGE,PROPELLING,81MM, F/M853A1, MODEL M219	242	12.443
CHARGE,PROPELLING,81MM CASED	200	0.000
CARTRIDGE,IGNITION,M752A1 F/81MM M819/M853	79	2.607
HOLDER,INCREMENT,FRONT,ALUM ALLOY F/81MM PN 9220708 NALC 5W93	15267	0.009
BODY, PROJECTILE, F/M980 & M984	14857	1931.410
CARTRIDGE, IGNITION,120MM PRACTICE, M931-MORTARS	96	0.480
CHARGE PROPELLING M233	324	8.748
CHARGE,PROPELLING,120 MM, M931	96	0.018
CASE,CTG 105MM STEEL W/PRIMER	3091	15.455
CASE,90MM,BRASS,W/LIVE PRIMER,MIXED MODELS	8394	44.069
CTG, 105MM, STL CASE, BASE DET FUZE, COMPONENTS MISSING	18	0.540
PROJ,SUBASSY,3/50,MK31 MODS,TNT LDD,W/O NF,ADF,W/NSP,WIRE CRIMP	32	0.152
CTG,3/50,EXPERIMENTAL,VARIOUS MKS,MODS 375898	1391	103.720
PROJ,3/70 CAL,HE,VT,MK34 MODS,W/FZ,BSTR FZ & AUX DET FZ	17	0.081
PROJ,3/70 CAL,W/FZ CAV LNR,VT,NON-FRAG,SUB-ASSY,MK34 MODS	14	0.067
PROJ,75MM,T50E2,SUBASSY,COMP B LDD,W/O FZ,F/75MM GUN	500	1.353
PROJ,105MM,HE-P/T,T81E28	1134	20.979
CARTRIDGE,4.4 CHAFF,F/RBOC	18	0.105
CARTRIDGE,4.4 CHAFF,MK 171 (NALC CW83)	512	2.987
CHARGE, 8/55 DUMMY POWDER MK 6-0	1	0.033
DMY PROP CHG,16/45,MK3-0 179795	23	1.725
ADAPTER,FUZE,NOSE	47	0.041
ADAPTER,PROJ,FUZE,THREAD F/PROJ.	5	0.021
GAS CHECK,BASE PLUG,CMPLT,F/5/38 PROJ,MK38,46 561809-5-1	1178	12.369
GAS CHECK,GASKET	620	0.013
PLUG,CORK,F/6IN CATAPULT CTG 561457PC2	96	0.025
PROJ,5/38,BODY ASSY,MK46-1,EMPTY 438520	334	6.958
CASE,CTG,5/54,MK9-0,STEEL 517536	86	0.747
PROJ, 5"38,VTF MK53-7,ADF MK44-1 PROJ, MK 35-5,FOL VT SD ORNSD	41	1.242
PROJ,5/25,MK36 MODS,W/NOSE FZ,BASE FZ,AUX DET 514281	99	1.485
PROJ,5/25,SUBASSY,ILL,MK45 MODS,W/LOAD,MK4-5,MTF,MK50 562016	2	0.060
PROJ SUBASSY,5/38,ILL,MK30 MODS,W/O MTF,W/EXPELL CHG 1305688	20	0.578
PROJ SUBASSY,5/38,COMMON,MK46 MODS,W/GREEN DYE,W/O BDF 1380758	166	4.913
PROJ SUBASSY,5/38,COMMON,MK46 MODS,W/RED DYE,W/O BDF 1380758	104	3.078
PROJ SUBASSY,5/38,COMMON,MK46 MODS,W/BLUE DYE,W/O BDF 1380758	115	3.403
PROJ SUBASSY,5/38,COMMON,MK46 MODS,W/ORANGE DYE,W/O BDF 1380758	309	9.144
PROJ SUBASSY,5/38,AAC/HC,MK49 MODS,W/O NF/ADF/BDF,EXP D 513862	120	3.383
PROJ,SUBASSY,6IN,AAC/HC,MK34 MODS,NSP,W/O ADF/BDF,EXP D LD265574	5778	315.190
PROJ,8IN,SUBASSY,HC,MK25 MODS,W/NSP,W/O ADF/BDF,EXP D LD288702	40	5.520
WINSHIELD,FZ,MAT'L PLAS,U/W/M513A22 OR M515A1 FZ F/5/38 6/47	295	0.051
PROJ SUBASSY; F/16 IN,AP, MK 8 MOD 6 THRU 8	8	11.178

PROJ,5/38,SUBASSY,AAC/HC,MK52-0,W/0 NF/ADF/BDF,COMP A-3 LD289027	111	3.110
FUZE ADAPTER F/U/W ARMY TYPE FUZE 5IN54 CAL PROJECTILE	50	0.040
PROJ,6IN,ILL,MK32 MODS,MTF MK18/50 MODS,BLK PDR EXPL CHG 562237	180	11.293
PROJ,5/25,AAC/HC,SUBASSY,MK36 MODS,BDF,W/O NF,ADF 514281	3	0.093
PROJ, SUBASSY,5"38,VT,MK 49 MODS W/NSP,W/O ADF,CAV F/VT FZ	37	1.121
TRACER,MK 9 MOD 0,DERIVED FROM 5"25 PROJECTILES	85	0.024
GAS CHECK,BS PLG,CMPLT,F/5/38 PROJ,MK52,56-0/5/54 PROJ MK55,61-0	5021	0.110
PROJECTILE,155MM,PXR-6325,INERT WAX	48	2.391
URETHANE, TUBE LINER 01, DACRON, INERT :59678	120	0.011
URETHANE, TUBE LINER 02, DACRON, INERT :59678	134	0.070
URETHANE, TUBE, LINER 03 DACRON, INERT :59678	128	0.012
PROJ,6IN,MK34-7,FZ-VT,MK47-0,ADF,MK47-0,ADF,MK44-1,BFHP,GRAY	75	4.295
FUZE,ADAPTER WITH BOOSTER NON-STAN DARD PAK	3	0.002
1320:TRACER, MK 5 MOD 1, DERIVED FROM 6" & 8" PROJECTILES	707	0.201
1320:TRACER, MK 6 MOD 0 DERIVED FROM 5"25 PROJECTILE	23	0.007
BAND, OBTURATOR,MAT'L, W/F/PROJECTILE/RKT PARTS	782	0.391
CHARGE,ASSEMBLY,EXPUSION, U/ON 155MM PROJ, P/N 9272019	2419	0.645
CASE,PROJECTILE,EMPTY/INERT	71	0.178
PROJ, SUBASSY, F/5IN54 CAL,HE,PROJ BODY MK 64-0,1,W/NSP	45	0.047
TRACER,MK 4 MOD 0,DERIVED FROM 3"50 PROJECTILES	60	0.017
CARTRIDGE, 5.125, PRAC. MK193-1 NALC EW77	1	0.022
BODY LOADING ASSEMBLY	5021	1.682
CASE, PROJECTILE,F/155MM,PRACTICE,M804	30	0.149
CARTRIDGE 5.125 INCH,CHAFF	133	7.869
CHARGE ASSEMBLY, EXPUSION	1370	0.206
CARTRIDGE, RF SEDUCT MK635 MOD-0	7	0.366
CHARGE, EXPULSION FOR M509A1	1978	0.700
CARTRIDGE,5.125 INCH	7	0.228
PROJ, 155MM, INERT, PXR-6325 (M549) MPTS	41	2.042
PROJ, 155MM, M864 W/INERT LOADED GRENADE, W/LIVE BS BURNE & CHG	392	19.845
CASE, PROJECTILE (M110A2)	3	0.127
PROJECTILE. 155MM, M741A1, TEST ROUNDS	167	9.206
PROJ,5/54,MIX TYP,VARIOUS MK-MODS,W/W/O FZ,COMP A-3/EXPERIM LDD	10	0.341
PROJ,6IN,AP,MK35 MODS,W/O WINDSHIELD,DYE LOAD,EXP D LDD	480	33.168
CARTRIDGE,5.125 CHAFF MK-182	18	0.026
FUZE ASSY,REWORK ARTIC UNITS,TALOS BOOSTER FINS	45	1.575
WING AND FIN ASSY (NALC ZW74)	1	0.011
OBSERVATION WINDOW ASSY,COMP OF BOMB,F.A.E. 2604755	500	3.000
BOMB,PHOTOFLASH,M120,150LB 78-2-536-2	65	6.208
FUZE,BOMB,MK115,AN-M102A2,W/PRMR,DET,M14,.025SEC DLAY	10	0.030
FUZE,BOMB,MK244-1,NOSE TYPE,IMPACT 344764,344759	202	0.687
FIRING DEVICE, BATTE	911	0.223
ACCESS COVER F/SUU-14 DISP	575	0.011
KIT,BOMB PRACTICE	2000	2.000
WING ASSY, GUIDED BOMB	8	0.125
CAP,SHIPPING,BASE,PLASTIC,F/BOMB,MK82 4902460	5215	0.652
SWITCH ASSEMBLY,SAF	45	0.005
SWITCH,SELECTOR ASS	50	0.005
PLUG,PROTECT,SUSP LUG INSERT STEEL OR PLASTIC PER DWG 1265387	897	0.404
PLUG,BASE,FUZE,F/250 LB BOMB MK 81-1 & 500 LB BOMB MK 82-1	2146	3.505
CLIP,PLUG RETAINING,STEEL,F/FUZE CNTRL CBL,ALL MK,MOD 1040535	379	0.002
PLUG,CLOSING P84023E	6240	3.838
BAND ASSY,F/FIN ASSY,BOMB,MK14 MODS,SNAKEYE 1,250LB 1567935	1812	0.172
ADAPTER-BOOSTER,BOM	1	0.002
WARHEAD,HE,MK58-0,F/GW,MK1-0/WALLEYE 2116999,63A70J11	830	448.200
GUIDE TUBE,TAIL RELEAS WIR,F/SNAKEYE FIN,MK14-0,1,2 A56825	2756	0.069
SOCKET SET SCREW 38-24X1/2	17630	0.097
ADAPTER BOOSTER BOMB, M150 TRAINING INERT	68	0.025
1325:FUZE,RKT,M429 F/2.75 TETRYL F/EXPERMINTAL USE	36	0.022
WARHEAD MK 58-0 INERT LDD F/WALLEYE	4	21.600
PLUG,NOSE,BOMB,F/BOMB,750LB 186B5	4	0.009
FUZE,BOMB MK-339-0 NOSE TYPE,INERTED F/CBU 88/B SMOKEYE	60	0.217
DECAL.POSITIVE,ARM, NAVY & AIR FORCE F.A.E.	1820	0.003
FUZE,BOMB,MK344-1, TAIL TYPE,INERT NON-STD PAK	7	0.026
FUZE,BOMB,MK376-0,TAIL TYPE, INERT NON-STD PAK	3	0.026
ARMING WIRE ASSY, (INERT)	234	0.068
SHIPPING PROTECTOR, PLASTIC INERT	10523	3.600
LANTARD,FIRING ASSEMBLY NON-STANDARD PACK	16	0.080
COMMUNICATIONS LINK ASSY,COMPONENT OF BOMB,F.A.E. DL2603861	839	1.468
OUT OF LINE ASSY,COMPONENT OF BOMB,F.A.E. 2604768	40260	4.026
LEAD ASSY,303A,F/BOMB FAE 2602490	16066	1.607
LEAD ASSY,DISPENSER,FUZE,EXP LDD,COMP OF CBU-72/B,FAE 2877569	7131	0.357
FUZE,EXTENSION,WHD,PBXN-5 LDD,COMP OF CBU-72/B,FAE 2605895	18345	1.835
SENSOR, ASSY, CONSISTS OF SENSORS,DECAL PLATE, SCREW	81	0.304
FUZE,COVER,ASSEMBLY F/FAE P/N 2604765	271	0.407
RETAINER,ASSEMBLY DWG # 1562613	18	0.005
FITTING,AFT RING,ALUM ALLOY 2602117	91	0.011
PLATE,LOCK RING,STL,CORROSION RESIST 2596941	12468	0.008
CABLE ASSY,SPECIAL PURPOSE,ELECTRICAL,BRANCHED,F.A.E. 2604743	227	0.022
FIN ASSEMBLY,BOMB	3	0.039
REAR BULKHEAD ASSEM	150	0.750

PIN COLLAR	1900	19.000
RETAINER FUZE,DISPENSER,ALLUM ALLOY DIE CAST P/N 300032603829	24	0.120
FITTING,NOSE,COMPONENT OF CBU 55/B 2602118	100	0.006
EXTRACTOR,ARMING WIRE,C/O SWIVEL ASSY,SLEEVE,WIRE,F.A.E. 2602106	678	0.041
SPACER, BURSTER TUBE, SILICONE RUBER, AMS 3332	3100	0.155
FUZE EXTENSION WHD,EXP LDD,COMPONENT OF CBU 55,F.A.E. 2877207	16160	10.100
COVER ASSEMBLY,FUZE	72	1.368
BULKHEAD COVER & PROBE RELES ASSY,PPP-T-60,F/CBU-55B FAE 2603852	1371	0.864
SPRING,FIN	112	0.006
FAIRING ASSY,DISPENSER,COMPONENT OF CBU 72,F.A.E. 2877562	2189	1.642
BOOSTER ASSY,C/O BSTR & ALUM TAPE,EXP LDD,F/BOMB F.A.E. 2877823	36647	3.665
KIT, FUZE BOMB, FMU-124A/B W/INITIATOR ASSY AND INERT COMPONENTS	2	0.015
DISK,STEEL 010 F/BLU-73 COMPONENT 0F BOMB F.A.E. 2596568	37481	2.436
FUZE COVER,PROTECTI	34469	60.321
LANYARD KIT PN 705180-10, PN 705179-10 LARC LY99	46	0.058
ARMING WIRE ASSEMBL	108000	17.280
DEFLECTOR, AIR TURBI	127	0.064
INITAITOR, BOMB, FUZE	2	0.001
SPRING,ARMING WIRE	1415	7.783
RETARDER,INFLATABLE,AIR BSU-85/B,F/MK83,BOMB,INERT, NALC 1W73	125	1.042
KIT,RETROFIT	2054	0.555
DISPENSER,& BOMB,AIRCRAFT,CBU-88/B,SMOKE BLU-98/B P/N 2881584	23	8.642
FUZE, SYSTEM BOMB	1	0.006
GUIDANCE AND CONTROL SECTION,GUI	1	0.078
FUZE,BOMB,M101A2,FORMER FSN 13255285186/13252896868/13252896872	262	0.380
FUZE,BOMB,TAIL,AN-M102A2,W/PRMR DET,W/O DLAY,FMY 132509355080	25	0.125
FUZE,BOMB,M117,FORMER FSN 13255170475 73-8-162	25	0.003
FUZE,BOMB M132 FORMERLY FSN 1325-541-9493	241	0.030
FZ,BOMB,M100A2,TAIL,IMPACT. 025 SEC DLAY,PRMR,DET,N/S PACK	1	0.001
PIN,SAFETY F/MAU 91A/B BOMB FIN NON STANDARD PACK	945	0.788
SPRING,FIN F/MAU 91A/B BOMB FIN NON STANDARD PACK	4000	0.003
RELEASE BAND ASSY,F/MAU 91A/B BOMB FIN NON STANDARD PACK	700	1.750
BOMB,PRACTICE,EMPTY	132	21.307
1337:TOW THERMAL BATTERIES P/N 13296452	6	0.051
GRENADE,HAND,TEAR,CN,M7A1,FZ M201A1 13-21-7	212	0.242
GRENADE,HAND,TACTICAL,CS,M743,W/O FUZE	704	0.660
GRENADE GP M42	1984680	406.859
WARHEAD,HE,MK52-0,F/AGM-45A LD616868,2116996	1	0.099
ORD SECTION F/STANDARD ARM WAU-1/B (CHINA LAKE)	14	0.551
TELEMETERING INSERT (ZW50)	1	0.093
TELEMETERING INSERT (NALC ZW49)	1	0.093
FUZE,GUIDED MISSILE,MK 330-2 W/O FUZE BSTR MK 44-0 AGM/45B	289	1.065
BOOSTER, FUZE MK-60 MOD-0 FOR AIM-54A	130	0.580
CORD ASSEMBLY DET F/STD ARM AGM-78A-1,2,G	2	0.000
FUZE,INFLUENCE,MK303-2,W/O WHD BSTR,F/AIM-9B LD495684	5	0.019
BOOSTER, GUIDED MISSILE WARHEAD MK34 MOD1	27	0.527
FZ MK 310 MOD-0 W/1 EA FZ BOOSTERS MK 40 MK 41	1	0.325
GENERATOR,GAS PRESSURE, PROPELLANT ACUTATED F/AIM-7C-7D	260	3.965
SQUIB, ELECTRIC	336	1.680
SAFETY & ARMING DEVICE,MK5-1,W/O FZ BSTR,F/AIM-7D,7E	63	0.197
ACTUATOR, EXPLOSIVE LINEAR AIM-7, AIM-7E	600	3.000
SQUIB, ELEC.ALUM P/N308086-5 463-6000	4	0.005
WARHEAD,MK5-7,EMPTY,F/GM,RIM-2C,2D,(TERRIER)	2	0.135
WARHEAD,MK10-0,EMPTY,F/GM,F/RIM-2E,2F,24A,24B,24C	3	0.188
WARHEAD,HE,MK73-1,F/AGM-78B,C,D	59	12.862
WARHEAD, GUIDED MISSILE, HIGH EXPL	24716	61.790
WARHEAD, GUIDED SECTION F/WAU-10/B	47	2.789
WARHEAD, GUIDED MISSILE, HIGH EXPL	12	0.341
CHOCK,BOMB,F/AGM-12B	5	0.025
MK 56 ALL MODS "DTRM" CONTAINING INERT PROPELLANT	10	2.375
ROCKET MOTOR, MK 104 MOD 1, INERT	2	0.875
ROCKET MOTOR MK 38, MOD 4	22	2.911
PROPULSION SECTION, GUIDED MISSILE	9	0.405
IGNITER, MK 154-4,METAL F/TERRIER ROCKET MOTOR	10	0.017
RKT MTR,MK6-2,W/O STAB,ASSY,F/AIM-7C	7	0.981
IGNITER, ROCKET MOTOR	11	0.026
RKT MTR,MK1-0,EXP LDD,DTRM,W/IGNITER,F/RIM-24-A1	13	11.700
IGNITER,RKT MTR,MK184-0,F/DTRM,MK1-0,F/RIM-24A	5	0.013
LDD MISSILE/PROP EXP,MK12-0,F/GM,TERRIER,F/SLED TEST :59678	3	3.968
IGNITER ASSEMBLY	3	0.001
ROCKET MOTOR	12	0.390
ROCKET MOTOR	1	0.034
BOOSTER,ROCKET MK 70-1 EXPL LDD F/RIM-66C SM-2 ER, NALC 7W88	1128	1623.756
ROCKET MOTOR,LAUNCH,M114,(TOW)	87	0.173
IGNITER, F/ALGOL IIIA, ROCKET MOTOR, NASA	2	0.015
ROCKET MOTOR,ALGOL III	1	15.650
IGNITER, F/ALTAIR IIIA ROCKET MOTOR, NASA	2	0.015
ALTAIR 111 ROCKET MOTOR	1	0.324
IGNITER, F/ANTARES IIIA, ROCKET MOTOR, NASA	1	0.008
IGNITER,F/CASTOR II PN 813760-1 NASA	3	0.000
ROCKET MOTOR,TX-354-3,CASTOR	4	0.940

A151591, INERT	2	0.001
DUMMY MOTOR, GUIDED MISSILE	9	0.725
RKT MTR;INERT A/A44A-B,W/IGNTR,F/GM,SM80 330131-1 SK-24034	2	0.006
RKT MTR,PITCHED FILLED,INERT P/N 330121-1	2	0.050
LAUNCHER ASSY,COPPER,SPHERE,F/GM,F/RSLP PROGRAM	1	0.021
BOOSTER, GUIDED MISSILE TRAINING, MK 18-5 ,INERT, NALC 7W11	4	3.700
BOOSTER, GUIDED MISSILE EMPTY,TRAINING MK18-6 NALC 7W11	9	16.560
BOOSTER,TRAINER,F/TALOS, INERT	2	3.680
RKT MTR,2KS36,250 MB-1,GENIE,F/CHINA LAKE	24	9.012
TAIL ASSY,MK1-0,1.25IN,W/PROP GRN,MK4-1,ELEC CNCTR,HH TYP 388837	910	0.705
SHOCK,PAN COVER ASS	27	0.169
TUBE, ASSY, INNER, CONSISTS OF PIN, SCREWS ETC.	10	0.006
METAL PARTS F/LAUNCHER ROCKET,66MM, ASSY	7	0.008
RKT MTR,2KS36.250,(GENIE),F/CHINA LAKE	23	8.637
REPAIR KIT,FIN RETA	2885	36.063
LINER,ROCKET WARHEAD,F/ MK 25 TO MK 32	1698	1.274
WHD,2.75IN RKT,FLECHETTE,WDU-4A/A,W/PDF,BF 67D9700	122	0.747
ROCKET, COUNTERMEASURE	3320	481.400
NOZZLE AND FIN ASSY F/5IN ZUNI RKT MTR,MK71-0 DL318AS135	16	0.080
LAU/RKT,A/C,2.75IN RKT,MK1 MODS,HE LDD,DIMPLED 1340009254562H559	12	0.196
PAN AND LID ASSEMBL	1762	12.554
WHD,RKT.HE F/2.75 N/ST PK F/EXPERMINTAL USE	45	1.024
CANNISTER F/WHD M259 W/WP F/EXPERMENTAL USE	18	0.006
ROCKET ASSY,F/EXPERIMENTAL USE,TRAINING,F/VIPER MISSILE	14	0.022
ROCKET MOTOR,5IN,MK10-4,W/GRAIN,MK18-0,W/ELEC CONNECTOR	1	0.060
1340:WARHEAD,SECTION,W/COMPB BURSTER,DRD F/3.25" ROCKET	1306	4.310
FUZE,ADAPTER	12	0.007
CLIP, SHORTING	10497	0.420
FIN RETAINER AND LIVE LEAD ASSEM	1562	9.372
CLIP GROUND	4850	0.606
COVER ASSEMBLY,SHIP	539	4.851
SHOCK PAN ASSEMBLY F/LAU-10/A LAUNCHER, INERT	664	3.652
FUZE,ROCKET,MK164-0,FORMERLY 13400389847	82235	192.738
RKT,2.25IN,MK16-5,SCAR,W/PROP GRAIN,MK16-1,WHD MK3-2 424968	37792	377.920
WHD,3.50IN RKT,SMK,MK6,FS LDD,W/O BURSTER TUBE 479472	224	2.296
COLLAR PIN,FRONT	1068	237.630
WARHEAD,5.0 IN. CHAFF MK-84	26	1.017
FUZE, MINE, METAL PARTS, M603, INERT	255	0.050
CABLE ASSEMBLY CA-528, P/N 1001-384434	1	0.005
CASE,MK25-1,EMPTY,F/MINE MK25 384548	36	13.140
PACK ASSY,PARACHUTE,MK19-0,F/MN,MK25 LD284770	82	0.615
TEST FIXTURE,F/RELEASE MECH,F/MN,MK10-3,9 1338863	8	0.014
MINE, UNDERWATER MK 25 MOD 0, INERT LDD W/O FLIGHT GEAR	1	0.006
MINE,UNDERWATER,MK49-0,INERT LDD 490712	3	3.000
CASE,UNDERWATER MINE,MK10-8,INERT LDD,F/MINE10-3 491044 NON-STND	1	0.250
CASE,UMN MK10-9,INERT LDD,F/MINE MK10-3 LD290869 1370141	1	0.134
ARMING DEVICE MK 30-0 EMPTY F/DST MOD KIT MK 75	62	0.124
FIRING MECHANISM MK 42 MOD 1 W/SINGLE TIMER (NALC UW94)	1	0.002
ARMING DEVICE MK 11 MOD 0 NS EMPTY	2	0.018
SHIPPING RINGS	450	0.001
ELECTROLYTE,AMPOULE,F/STERILIZER,SD-4-2,MN,MK27,36 3026277	98	0.025
ARMING DEVICE, DESTRUCTOR MK 32-1, EMPTY F/DEST MOD KIT MK 75	9	0.203
FIRING MECHANISM, UNDERWATER MINE, A-6 MOD 3 F/MINE MK 25	6	0.270
FIRING MECHANISM MK 9-1 F/NON-SERVICE MIN EMK 36	1	0.006
FIRING MECH,MK42-0,W/SNGL TIMER,- BATTERY DL2501080	69	0.099
CABLE ASSY,F/TRANSMITTER,SONAR,MK62-0 2491363	41	0.005
DRILL SECTION MK 1-1 EMPTY F/MINES MK 56 U/W/MIN MK 57 W/O EXPLO	1	0.196
DETONATING,FUZE,F/MNC,MK77	219	0.068
INITIATOR, HYDROSTATIC MK16 MOD0 F/MINE MK60 (NALC EW43)	79	17.917
INITIATOR, HYDROSTATIC MK16 MOD1 F,/MINE MK 60 (NALC EW43)	322	0.109
DUMMY MINE, UNDERWATER NALC (R957)	6	40.905
ADAPTER, BOMB FIN ADU-320A/B F/DST MK 40 ALL MODS (NALC KW93)	1	0.027
RACK,INSTRUMENT,SUBASSY,F/ACTUATION MINES MK 52/55-5 NALC 7W72	4	0.340
KIT ASSEMBLY, EXPLOSIVE SECTION, U/ON MK 13 (NALC 9W31)	1	0.475
CUTTER, CABLE, UNDERWATER MINE, MK26 MOD 0 (NALC 2W38)	2	0.060
ARMING DEVICE, UNDERWATER MINE, MK32 MOD 1	18	0.069
KIT, SUB LAUNCH MINE, MK 39 MOD 1 (NALC 5W68)	100	2.948
DUMMY, UNDERWATER MINE MK56	2	1.200
PRIMER,ELECTRIC,MK25-0,F/7.20 DEPTH CHG 315051	350	0.438
SIGNAL ASSY,MK26-1,F/DRILL MN,MK6,10,49 2007036,LD496406	842	1.655
1351:MK 25, MINE PIECES,DERIVED/SAW OPERATIONS, DODIC R740	903	209.496
CASE,MK25-1,DRILLED AND USED,EXPLOSIVE CONTAMINATED	10	3.650
FLASH,SIGNAL,MK-17 MOD-0 (EXTENDER)	2	0.004
VALVE, VENT(NALC EW88)	2	0.001
VALVE EXPLOSIVE	32	0.010
ANCHOR, UNDERWATER MINE (NALC EW81) MK60 MOD0	45	18.113
FITTING, EXPLOSIVE (NALC GW27)	2	0.000
BOOSTER,EXPLOSIVE LDD,F/ARMING DEVICE,MK10-0, 1620066	191	0.024
EXPLOSIVE LEAD ASSY,F/GAS GENERATOR HEAD,U/W/MN,MK56 2430147	932	0.047
PACK, PARACHUTE, SUBASSEMBLY F/EXE. (NALC LW97)	16	1.120
CASE, MK 65-0, PBXN-103 LOADED F/MINE MK 65	26	45.500

FLIGHT GEAR AND SHIEL SUBASSEMB (NALC FW89)	12	0.300
FLIGHT GEAR SUBASSY MINE MK 52, FAIRED F/MN MK 52 MODS(NALC LW82	60	9.000
FLIGHT GEAR SUBASSEMBLY MINE EXERCISE & TRAINING (NALC LW83)	8	1.200
ANCHOR, MECHANISM SECTION	42	38.598
CASE,U/W/MIEN,MK52-11,CONFIGURATION EXPL LDD NALC 7W14	1533	1271.624
CASE,U/W/MINE,SUBASSY CONFIGURATION E EXPL LD MK55-11 NALC 7W15	2860	3376.230
EXPLOSIVE NOSE SECTION (NALC 7W85)	201	97.988
EXPLOSIVE SECTION MK 13-0 EXP LDD F/MINE MK 67-2 NALC 7W86	56	24.360
KIT,ASSY,EXPLOSIVE SECT,MK155-0 F/MINE MK 67-2 NALC 7W87	199	94.525
KIT,CONTROL UNIT,MK126 DL5917207 NALC 9W23	63	1.890
KIT,CHARGE,EXPLOSIVE,MK70 F/LIMPET ASSY MODULAR MK5 NALC 9W24	217	20.615
FUSE EJECTOR ASSEMBLY	2	0.004
ACTUATOR,EXPLOSIVE,ELECTRIC,MK31-0 F/MINE MK65 NALC 1W02	209	0.078
TAIL SECTION, DESTRUCTOR MK 11-1 F/MINE MK 41 ALL MODS NALC 1W20	1	0.075
ANCHOR,MECHANISM,SECTION,SUBASSY W/ON LAYING MINE MK 57	24	22.056
REFURBISHMENT, KIT, MK 132-0, F/MINE NALC 1W33	813	95.528
FLIGHT, GEAR, KIT, MK 164 - MOD 0 NALC 1W29	2524	75.720
KIT,REFURBISHING,MK151-0,F/EXERCISE HEAD MK 91 NALC 1W58	171	2.993
FIRING,DEVICE,ACOUSTIC,MK35-0,U/ON MINE NEUT SYS, NALC 2W39	453	2.039
EXPLOSIVE,SECTION, MK 14-0 F/DESTRUCTOR MK 57 NALC 2W40	275	14.988
TAIL,SECTION,MK7-1,F/UNDERWATER MINE MK65	393	20.829
MODIFICATION KIT, MK 75-15, F/DST MK 36, 40, 41 NALC 3W87	4888	5.866
FLIGHT GEAR SUBASSY F/MK 55 MINE NALC 4W22	2704	439.400
FLIGHT GEAR SUBASSY NALC 4W21	1466	219.900
PACK,PARACHUTE SUBASSY MINE MK 52 U/ON MINE MK 52 NALC 4W19	84	3.570
PACK,PARACHUTE,SUBASSY,MINE MK 55 USED ON MK 55-11 NALC 4W20	411	18.906
KIT, CONVERSION, BOMB/MINE MK130-1 F/MINES MK62,63,64 NALC4W70	227	0.533
CNTR,KIT CHARGE SECTION,EXPLO,W/LIGHT BEACON,MK173-0 NALC 5W35	69	14.663
FLIGHT GEAR KIT MK 166-MOD 0, U/ ON MINE MK 63 NALC 5W62	384	43.680
GAS GENERATOR, MK 73 MOD 0 BATTERY MK 46-2 F/MK 67-2	1594	11.955
CABLE,ASSY-PYRO F/MINE NEUTRALIZATION SYSTEM (AN/SLQ-48) NAL5W63	4	0.013
RING ADAPTER KIT USED TO MAKE LIMPET MK 5 MOD 1	34	1.530
FIRING,DEVICE,MK35-1 F/MINE NEUT SYSTEM AN/SLQ-18 NALC CWGT	514	1.285
ACTUATOR EXPL STAB (5561835) :53711	447	3.353
DETONATOR, USED ON MNC MK 77 NEUT CHARGE	219	0.029
MANTA MINE,BOTTOM INFLUENCE,W/O FUZE	2	0.705
ROCKAN MINE,W/O FUZE (FOREIGN)	2	0.320
CONTROL UNIT, PARACHUTE MK 66-0	1	0.005
COIL, WIRE MK 8 MOD 0 F/TORPEDO MK 37 #2507301	10	0.525
WEIGHT, TORPEDO EXERCISE	1	0.250
TORPEDO, TRAINING TYPE MK 46 MOD 1 (NALC DW44)	1	0.404
ROCKET,THROWN,TORPEDO,5C-3, INERT PN 10001DL1984845	2	1.550
TORPEDO,MK46-1,PHASE2,EXER,CMPLT ASSY,HELO LAUNCHED NALC 1511	1	0.392
TORPEDO,MK46-1,PHASE 2,WARSHOT,CMP ASSY W/O LAUNCH (NALC 1510)	145	59.233
1356:WARHEAD, MK 26-6 STEAMED OUT	15	9.615
ARMING DEVICE,MK2-4,INERT,F/TORPEDO,MK37,44	2	0.046
TORPEDO, WARSHOT, MK46MOD4, USED W/CAPTOR SYSTEM F/MN NALC1400	587	239.790
TORPEDO, WARSHOT	31	56.878
CYLINDER PRESSURE CO2, BOTTLE F/TORPEDO MK 46	40	0.200
TORPEDO MK46 MOD5 WARSHOT, TUBE LAUNCHED, NALC-1472	8	2.068
STABILIZER, AIR, MK 33 MOD 0 (NALC 5W14)	4	0.032
TORPEDO, WARSHOT NALC 1694	588	237.846
TORPEDO, WARSHOT, MK 46 MOD 5A	22	5.687
FIRING MECHANISM ASSEMBLY 4000 FT, F/136100-016-3818 ONLY	4368	10.920
ADAPTER,TAIL ASSY,F/7.20 WHD MK 5 1556378	128	0.640
CASE,DEPTH CHARGE MK9-4	16	4.313
TAIL ASSY,2.25INCH,MK6 MODS,5/25 PDR,LONG RANGE 657652	38	0.304
WARHEAD,7.2IN DPTH CHG,HE,MK4-0,2,3,HBX LDD,W/AUX BSR,MK1 329139	6675	228.619
FIRING & ARMING MECH,MK38-0,DET,SELEC,DPTH FIR MECH,F/SUS 772395	3	0.005
BOOSTER,MK6-4,STL,TNT LDD,F/DPTH CHG,MK6,8,9,16-0 434329	656	1.906
DEPTH CHG 7.20 ASSD 7.2 HEAD MK4 TN	863	41.208
DEPTH CHG,PRAC 4.00 SUB-CAL,UNASSEMBLED W/IGNITER MK112 MODS	24	3.816
DEPTH CHG,PRAC,4.0 UNASSD,4.0 WHD,MK3-0,EMPTY,2.25 TAIL 657046	7405	91.452
1361:DERIVED,MK 9,WASHED LEAD ENDS, TNT CONTAMINATED	6834	273.360
TAIL ASSY,DEPTH CHG,MK1-0,5.25IN,FMY 13610388449	9	0.495
TAIL ASSY,DEPTH CHG,MK2-0,5.25IN,W/PROP GRAN,MK45-0 LD296619	709	38.995
DISPERSER AND RIOT CONTROL AGENT	118	0.025
BREECH,CARTRIDGE,DI	14	0.007
FLARE,INFRARED	412	0.798
CAP,SEALING	5129	12.823
FLARE, BALLISTIC	5	0.004
FLARE,BALLISTIC,AERIAL,TARGET	27	0.016
SPOTTING CHG PHOTO	1689	0.507
SMOKE,CTG ASSY.	1026	0.013
BAND,SUSPENSION	340	0.765
FUSE SIGNALING FLAMMABLE SOLID	10	0.045
MARKER LOCATION MARINE INERT FILLER	2	0.013
CARTRIDGE,NOISE,DUMMY,ASSAULT INTERIM MK 213	951	0.023
FLARE,CARTRIDGE,ALA-17/B IN FIBER BOX	367	1.301
CIRCUIT CARD ASSEMBLY	90	0.000
DEVICE,RECALL,AUDIBLE MK 137 MOD 0	12	0.006

FZ,DETONATING MK 22-0,TRG,INIT,KITS CONSISTS OF 1 MW86 & 1 5W42	198	4.950
CLIP,CORD DETONATING	6000	30.000
CHARGE,SHOCK TEST, UERD, 10,000 LB NALC 6W57	2	14.000
CHARGE,PENTOLITE DONOR STND 2.00 INCH LONG PELLETS,PRESSED	1144	0.137
CHARGE,PENTOLITE DONOR,STD,12IN BASE,4IN DIA,APEX 3/8IN 2108394	2377	14.856
CHARGE,PENTOLITE DONOR,STD,CONE,24IN BAS,8IN DIA,APX 3/8 2108394	2287	28.588
1375: BLASTING CAP, ELEC,SPEC 2FT WIRES	85	0.007
CHARGE,DEMO,24LB,PENTOLITE,CYLINDRICAL,10-1/8IN DIAX5-	15	0.094
CHARGE,PENTOLITE 42LB CYLINDRICAL 10-1/8 IN DIA X 9-1/2 IN HIGH	69	1.449
CHARGE,DEMO,EXPL,COMP B,24LB,(CRANE)	50	0.313
CHARGE,SHOCK,TEST,250LB,HBX-1 LDD,PKD IN WDN BX	1	0.125
CHARGE,DEMO,FLEXIBLE ROLL,20LB,COMP C-3	8	0.080
BOOSTER,PENTOLITE,F/250LB SHOCK CHARGE,PKD IN WDN BOX	1	0.008
BSTR,PENTOLITE,1/2 LB PLUG,F/55LB TNT CHG,3.25IN DIAX3IN LG	20	0.050
CHARGE,DEMOLITION,30LB,TNT,FMY 137600X827009	3	0.045
KIT,RENOVATION,WIRE HARNESS,F/DEMO CHG,LINEAR,MK58-68	47	1.105
CAP,BLASTING ELEC VIBRO SR SPOOL W/COPPER WIRE	16	0.021
CHARGE PENTOLITE DONOR 2 LB CHARGES	12	0.025
CHARGE PENTOLITE, 3 LB	10	0.030
CHARGE PENTOLITE 12 LB, CYLINDRICAL 7 IN DIA X 5-1/2 IN HIGH	11	0.066
CHARGE,TAPERED,W/HBX-1,F/EXPERIMENTAL USE	2	0.037
BUOY,DUMMY,WOODEN	6	0.420
DEMO CHARGE 47.4# COMP B IN ALLUMINUM CAN	728	17.836
BOOSTER F/250 LBS SPHERE F/DEMO CHARGE PKD W/9998LL0000242	1	0.050
CARGE DEMO,12 LB. CAST,COMP B, UNCASED	37	0.310
DETONATOR FLASH MK35	4380	142.350
ADAPTER, FIRING DEVICE MK 114-0 F/LIMPET MK 5 NALC 5W42	318	0.159
BOOSTER,F/1200 LB CHG PENTOLITE LDD, NALC 9W49	4	0.107
KIBT, BACK PACK, MK 46 TYPE U/W/ MK 1 LIMPET NALC 1W82	137	5.823
FIRING DEVICE,MK50-0	1235	294.548
EXPLOSIVE SECTION MK15-0 USED F/W-98 MOD 0 NEUTRALIZATION CHARGE	1116	30.132
CHARGE, DIVERSIONARY, MK 141 MOD 0 DWBS	84	0.091
CORD,DETONATING,PRIMACORD,PETN,MIXED TYPES,NONSTANDARD PACK	9	0.002
HOUSING DETONATOR	1500	0.233
BLACK POWDER,CLASS 8 MIL-P-223B	2621	1.835
PROPELLANT POWDER MULTI PURPOSE M6	12387	9.290
EXPLOSIVE,PBXN-201 WS11498,7548645	5181	3.109
COMPOSITION A3,91% RDX,9% DESENSITIZER MIL-C-440	578679	373.511
HIGH EXPLOSIVE MATERIAL, COMPOSITION B, TYPE 1, GRADE B	1	0.001
COMPOSITION D-2,DESENSITIZER MIL-C-18164	4990	147.205
HIGH EXPLOSIVE MATERIAL - D	20	0.000
PENTOLITE 50 PCT PETN, 50 PCT TNT PKG 50 LB JAN-P-408	3250	1.950
COMPOSITION B,FLAKE,GRADE,B,MIX VISCOSITY 7.1-17SEC MIL-C-401	1349	0.787
COMPOSITION B,RECLAIM,CLASS 1,2,UN LIMIT CONFORMATN MIL-C-00401	2910	1.601
RECLAIMED, AMMONUIM PICRATE EXPLOSIVE D	895	0.483
BLACK, POWDER	1	0.001
EXPLOSIVE,CH-6 RDX	61	0.036
HBX-1,HIGH EXPLOSIVE RECLAIMED DRVD FROM MK 54 DEPTH BOMB	1088515	609.568
TNT,BLOCK,300LB,W/PENTOLITE BSTR,F/MONO LAKE RUN UP TEST	6	1.080
TNT,1/2LB PLUG,F/55LB TNT CHG,3 1/4IN DIA X3IN THICK,W/2 HOLES	55	0.153
1376:EXPLOSIVE,DEMO, CHG,COMP B, 24 LBS	40	0.940
1376:EXPLOSIVE,CHARGE,TAPERED,EXPERMENTAL,HBX-1 LOADED F/NAVY	1	0.403
1376:H-6,EXPLOSIVE W/FILLER E,DERIVED FROM MK 19, RECLAIMED	60350	32.589
1376:H-6, DERIVED FROM MK 19 BREAKDOWN	1250	0.650
1376: PBXN-107, TYPE II RECLAIMED	8800	220.000
RECLAIMED TRITONAL, DERIVED 750# BOMB	138075	77.322
1376: COMPOSITION A3,RECLAIMED RDX, DESENSITIZED UN 0483	46841	27.714
PROPELLANT POWDER,M1,FOR USE IN HE-T,M71A1 AND TP-T,XM764	232659	127.235
TRINITROTOLUENE, FLAKE	103800	63.318
PROPELLANT, M9, FLAKE F/81MM IGNITER CARTRIDGE	99	0.067
5/38SPDB MIL-P-231	5143	3.483
3/50 SPDN NPPB 347 NFL MIL-STD-652	495133	280.575
5/38 SPDN IABR 64273 NFL MIL-STD-652	166272	94.221
4/50 SPDB NOSB 404 NFL 10887,IN M7 MTL CAN	990	0.561
5/54 SPDW IHBF 65R NFL MIL-P-231	300627	210.439
8/55 SPCF RHDE 68775 FNA	594532	317.084
PROPELLANT POWDER	50	0.250
CARTRIDGE,AIRCRAFT,FIRE EXT UH-IN	4	0.004
CATAPULT,A/C EJECTION SEAT 2124-19	5	0.053
CATAPULT,A/C EJECTION SEAT 2174-518-13	1	0.022
CORD, DETONATING, SMDC	22	0.088
CARASTRIDGE,AIRCRAFT,FIRE EXT,E3A,AIRCRAFT	1	0.002
THRUSTER, INERT, EXPLOSIVE ACTUATED ASSY	7	0.021
CATAPULT, ROCKET, F/AIRCRAFT F/15	5	0.109
CARTRDIGE, AIRCRAFT FIRE EXTINGUISHER	11	0.055
CARTRIDGE, IMPULSE	2	0.000
SQUIB,ELECTRIC,S140	707	0.000
PRESS RELEASE DEVICE F/DETONATING FUZES	12	0.036
ALTAIR,ROCKET,MOTOR,STAR 20B	6	3.450
FUZE,BASE DETONATING,MK19-0 206213	1	0.001
FUZE,AUX DET,MK44-1,F/3/50,5/38,5/54 VT,NON-FRAG LD109463,388904	194869	60.897

PRIMER,ELECTRIC PERCUSSION MK 13-1	200	0.021
PRIMER,PERCUSSION,MK14-0,F/HAND RAMMED 3/50 LD41230,44527	3569	0.592
BODY ASSY,AUX DET,F/ADF,MK55-0,W/TETRYL BSTR,CUP,COVER 438128	1635	0.545
RING HANDLING, METAL F/PROX FUZE	32130	0.161
FZ.PROX.AUX.DET.FZ. MK75-3 Q52400	50	0.167
FUZE,DETONATING,SOVIET MADE,MG57,CLASS C EXPLOSIVE	4999	3.272
PRIMER, PERCUSSION MK161 MOD0 F/76MM CTG	51	0.011
FUZE,BASE DETONATING,MK28-7	10	0.013
FUZE,BASE DETONATING,MK28-9	10	0.013
FUZE,PROXIMITY,MK75-5,NOSE,W/O BSTR,NON-SD 1208049	6090	11.049
FUZE BODY,CP M78	48	0.095
1390: PRIMER, PERCUSSION,T79, FROM 120 MM BREAKDOWN	1414	0.471
FUZE,VT,MK69-0,MODEL #ZEI-EA-AL,W/AUX DET,MK44,PKG/MK1-0 S-A BOX	10	0.025
1390:FUZE,PROX,MK 72 MODS W/AUX DET MK 44 DREIVE FROM BREAKDOWN	3255	0.339
1390:FUZE,PROX, MK 72 MODS W/MK 30 BSTR, DERIVED F/BREAKDOWN	36	0.004
FUZE,DETONATING W/BASE PLATE/TRACER	19660	0.314
1390:FUZE, BASE,DETONATING,W/BASE PLATE-TRACER DERIVE FR/ 105MM	4648	0.074
FUZE,BASE,DETONATING,W/O TRACER,DERIVED F/105MM,NON-STD PAK	1947	3.505
FUZE, POINT DETONATING MK399 MOD0 TIME DELAY	13	0.002
FUZES,DETONATING,MULTIOPTION,M734	220	0.006
FUZE,PROXIMITY	321	7.865
FUZE,AUXILLARY DETONATING,MK17 MOD 190845	10	0.001
PRIMER,MK113-0,USED IN DETONATOR,MK9-5 398491	10	0.001
CUP,CHARGE	3379	0.003
CUP,CHARGE	4813	0.005
WAD,PYRALIN,F/3/50 SHORT CTG 329507-6	7821	0.016
WAD,PYRALIN,F/5/38 SHORT CTG 329507-17	22222	0.444
WAD,PYRALIN,F/6/47 SHORT CTG 329507-18	330	0.008
WAD,PYRALIN,F/6/47 CTG CASE,MK4/6 MODS,U/W/FULL CHG SK145019	31752	1.111
WAD,PYRALIN,F/8/55 REDUCED CHG 563474	1508	0.204
WAD,PYRALIN,OUTER,F/TORPEDO IMPULSE CHG 145051-3,SK79348-1	10875	0.435
WAD,PYRALIN,INNER,F/TORPEDO IMPULSE CHG SK124447	8000	0.300
WAD,PYRALIN,OUTER,F/TORP IMP CHG SK124448	7200	0.270
WAD,PYRALIN,PATCH,F/SDCP CHG,5/6IN CAT CHG,TORP IMP CHG 300248-2	1938	0.163
CUP, CHARGE	100	0.025
DISK,AMMUNITION,SILICONE,F/BOMB,FAE 2596331	18793	1.222
STRIP, AMMUNITION, DESIGNED F/30MM PKGING IN M592 CONTAINER	1841	0.736
DUMMY, GUIDED MISSILE, MK 49-MOD 1, EMPTY, NALC 7W24	1	0.300
DUMMY GUIDED MISSILE,STD-MR MK 56 MOD 1,TYPE RIM-66B	2	0.903
GUIDED MISSILE, PRACTICE (NALC PA46)	45	26.100
DUMMY GUIDED MISSILE F/TESTING MISSILE LAUNCH P/N LD477222	1	0.096
DUMMY,GUIDED,MISSILE,PRACTICE, F/MK 40 MOD 0 LOADING MISSILE	2	1.945
GUIDED MISSILE,PRACTICE	1	0.443
GUIDED MISSILE, INTERCEPT-AERIAL SM-2 RIM	1	0.939
GUIDED MISSILE,RIM 67A-2,STD,ER,TACT,BSTR MK12 NALC 2030	382	367.484
GUIDED MISSILE,PRACTICE,RIM-67A-12,W/BSTR MK 12 NALC 2031	11	10.582
GUDD,MISSILE,RIM-67/A-12STD,W/UHF,DTLM,LSES BSTR NALC 2032	8	7.708
GUIDED MISSILE RIM-67/A-13, STD ER, TACTICAL NALC 2034	57	54.920
GUIDED MISSILE,RIM-67A-13,W/O BSTR,W/UHF DLTM, NALC 2036	4	3.854
GUIDED MISSILE,INTERCEPT AERIAL,F/RIM-66-B-8 NALC 2040	35	23.800
GUIDED MISSILE, RIM 66-B/9, STD MR TACITCAL NALC 2044	48	46.824
GUIDED MISSILE, RIM-66-B-8,STD,MR PRACTICE, NALC 2041	1	0.976
GUIDED MISSILE, RIM-66E-1 STD MR TACTICAL NALC 2048	72	70.236
GUIDED MISSILE SM-2,RIM-67B-2 STD ER, TACTICAL NALC 2202	331	310.809
GUIDED MISSILE,PRAC,SM-2,RIM 67B-2 NALC 2203	5	4.695
GUIDED, MISSILE RIM-67-A/5,STD ER W/UHF,DTLM NALC 2066	1	0.855
GUIDED,MISSILE,SM-2,RIM-67-C-2 BLK II STD LESS BSTR,NALC 2210	801	755.744
GUIDED MISSILE,RIM 66E-5 NALC 2079	2	2.347
GUIDED MISSILE RIM-67B-3 SM-2 TACTAICAL NALC 2216	37	35.150
GUIDED MISSILE, STANDARD RIM-67-C-2,SM 2 NALC 2220	3	2.831
GUIDED MISSILE SURFACE ATTACK EXPLO HD LD BGM-71A-1A NALC 4W73	1	0.027
GUIDED MISSILE F/RIM-67D-1,SM-2,BLD III, TERRIER NALC 2222	120	113.220
GUIDED MISSILE, PHOENIX, TACTICAL, AIM-54C	2	0.766
GUIDED MISSILE, PHOENIS, TACTICAL, AIM-54C	2	0.766
GUIDED MISSILE, PHOENIX, TACTICAL, AIM-54C	4	1.531
GUIDED MISSILE, PHOENIX, TACTICAL, AIM-54C	1	0.383
GUIDED MISSILE, PHOENIX, TACTICAL. AIM-54C	1	0.383
GUIDED MISSILE, PHOENIX, TACTICAL, AIM-54C	3	1.148
GUIDED MISSILE RIM-67B-4 SM2 BLK I TACTICAL NALC 2228	18	17.100
GUIDED MISSILE RIM 67B-5, SM-2 ER TACTICAL NALC 2230	4	3.800
GUIDED MISSILE,PRACTICE/MK199 NALC 2229	2	1.150
GUIDED MISSILE,INTERCEPT-AERIAL (NALC-2360)	12	8.166
GUIDED MISSILE,INTERCEPT-AERIAL, MK 372-7 R/RIM-66B-8 NALC 2358	5	3.403
GUIDED MISSILE INERT OPERATIONAL MISSILE SIM. STANDARD M-2 E	1	0.963
GUIDED MISSILE, PRACTICE	1	0.963
GUIDED MISSILE INERT OPERATIONAL MISSILE SIM. STANDARD M-2	1	0.079
COVER, ACCESS, GUIDED MISSLE COMP. MATERIAL TITANIUM ALLOY	157	1.963
FORWARD COVER F/STD ARM,INERT P/N 423-501013	23	1.599
MINUTEMAN MISSLIE SECTION	1	0.075
GUIDANCE SECTION F/STD ARM	11	0.782
GUIDANCE, SECTIION TACTICAL MK24-4 F/AGM-45A/B-3	1	0.245

WIRING HARNESS F/STD ARM P/N 2817329	120	2.520
COUPLING SET F/GUIDED MISSILE,AGM-78A,ATM-78A	34	0.255
FIN, COVER, GUIDED MISSILE,F/RIM-66	600	7.500
FIN ASSEMBLY,DORSAL F/RIM-66	43	0.921
COVER, ACCESS,GUIDED MISSILE, AGM-78	24	0.120
STEERING CONTROL UNIT F/AGM-78 911AS3100 (CHINA LAKE)	13	2.275
BATTERY,AUTOPILOT 911AS2000	78	3.120
REPEATER,MISSILE,F/STANDARD ARM	33	2.063
ANTENNA & WNGS ASSY,SN#R1-R1375,F/GM,AIM-7C,SPARROW #2146-5026	447	2.347
ANTENNA,REAR,F/AIM 7E2,PN2146-5018	26	0.260
GUIDANCE ASSY,WHEEL #1 NR,F/TERRIER AND TARTAR 2189119	73	5.439
SHIELD,FLARE,F/GM,AGM-120,USAF KIT 1338K1105138A TSC65D034	61	0.580
GUIDANCE SECTION,ELEC,F/TERRIER + TARTAR 2234315	124	9.238
WHEEL #2R, F/TERRIER AND TARTAR BUWEPS DWG 2234269	45	1.688
RECEIVER,WHEEL #2 NR,F/TERRIER/TARTAR,2188220,2189100,2189182-1	91	3.692
INGNITER, GAS GENERATOR, MK 266 MOD 0, F/AIM-7D, 7E	16	0.031
STANDARD ARM GUIDANCE SECT F/AGM-78 (CHINA LAKE MATERIEL)	26	1.157
FIN ASSEMBLY, GUIDED MISSILE (NALC YW90)	22	0.009
FIN,SET,MK47-0,CONSISTS OF 4 FINS PER SET,5538397,	66	6.303
FIN, GUIDED MISSILE, DORSAL NO. 1 FOR RIM-67	13	0.277
FIN, GUIDED MISSILE F/RIM-67, NALC 6W38	21	0.448
FIN ASSY,GUIDED MISSILE,DORSAL NO 2,F/RIM-66C-D NALC 6W33	4	0.061
FIN ASSY,GUIDED MISSILE,DORSAL,F/RIM -66C,D, NALC 6W34	4	0.085
DETECTING DEVICE,TARGET-SHROUD ASSY,MK45 MOD5, NALC 6W42	18	0.639
AUTOPILOT,UNIT,MK 10-0,W/BATTERY F/RIM-67C NALC 6W44	4	0.184
DORSAL FIN SET MK48-0 CONSISTS OF 4 FINS F/RIM-67C NALC 6W47	447	7.152
SPACER, SUSTAINER, MK6 MOD-0:O/A;FOR RIM-67C, NALC 6W46	3	0.068
FIN, GUIDED MISSLE DORSAL NO.4, NALC 6W48	5	0.103
FIN GUIDED MISSILE, NALC 6W50	10	0.157
FIN, GUIDED MISSILE (NALC 6W51)	19	0.298
FIN ASSY, GUIDED MISSILE, UHF DORSAL TELEMETEREING (NALC 7W55)	4	0.038
FIN ASSY,UHF,DORSAL,AN DKT-34C,F/RIM-66,INERT, NALC 7W56	6	0.021
AUTOPILOT,BATTERY SECT,F/RIM-66G/H/J GUID MISSILE, NALC 7W60	6	0.231
CONTROL SECTION, STEERING MK213MOD0 F/RIM-66G/H/J NALC 7W61	269	1.502
FIN SET, GUIDED MISSILE, MK51 MOD-0-(NALC7W62)	217	20.507
FIN ASSY,GUIDED MISSILE,DORSAL F/RIM-66G/H/J, NALC 7W63	435	0.290
GUIDANCE SECTION,GUIDED MISSILE,MK-74-0, NALC 7W59	56	2.156
FIN SET,DORSAL MK 49 MOD 0,4 DORSAL FINS PER SET, NALC 7W65	392	6.272
WING ASSEMBLY, GUIDED MISSILE (NALC MW95)	3	0.006
DETECTING DEVICE, TARGET/SHROUD A (NALC 9W27)	2	0.070
TRANSMITTING,SET,TELEMETRIC DATA, AN/DKT-53A,F/STD MSL NALC 9W96	1	0.002
TELEMETRIC DATA TRANSMITTING SET (NALC 9492)	1	0.000
CONTROL,UNIT,STRING,MK118-4,W/RKT,MTR,MK4-0 NALC 1W08	42	2.142
AUTOPILOT BATTERY UNIT MK 10 MOD 1 NALC 1W04	69	3.450
FIN ASSY,GUIDED MISS,BSU-87/B /AGM-122/A (4 PER SET) NALC 1W14	80	0.099
COVER, ACCESS, GUIDED MISSILE	230	5.721
AUTOPILOT,BATTERY SECTION MK 10-2,F/RIM-76C NALC 2W97	51	1.964
AUTOPILOT BATTERY F/MK 11-MOD 1 NALC 2W98	53	2.041
CONTROL UNIT,STEERING MK 117-8 F/RIM-66E NALC 1W83	393	20.043
GUIDANCE SECTION, MK 67-1 F/RIM-66D-2,INERT NALC 3W67	123	9.978
GUIDANCE SECTION,GUIDED MISSILE	207	242.915
AUTOPILOT BATTERY SECT,MK 10-3 F/RIM-67C/D, NALC 5W58	274	10.549
DETECTING DEVICE,TARGET,F/G RIM-66E, MK 45-MOD 7, NALC 5W56	3	0.063
COVER,PROTECTIVE,GUIDED MISSILE,FORWARD END, PN/5497641-9	71	10.650
GUIDANCE SECTION,GUIDED MISSILEF/RIM-66K,67D	149	7.897
AUTOPILOT BATTRY SECTION MK11 MOD2 (NALC YW74)	52	3.322
DETECTING DEVICE,TARGET GUIDED MISSILE,SM-2,BLOCK II NALC 6W58	27	0.567
DETECTING DEVICE,TARGET GUIDED MISSILE,SM-2,BLOCK III NALC3W58	1	0.036
GUIDANCE SECTION, GUIDED MISSILE,MK 79 MOD 3, NALC DWAB	1	0.188
DETECTING, DEVICE, TARGET/SHROUD A	1	0.072
DETECTING DEVICE, TARGET/SHROUD A, MK 45-5 NALC DWBC	1	0.048
TEST,ANTENNA ASSY	18	0.095
IGNITER,BOOSTER,ASSY (FIRST STAGE) F/STARS PROGRAM	75	3.375
BOOSTER,AY,IGNITER,ROCKET MOTOR F/SANDIA NAT'L LABS STAR PROG	59	1.593
GUIDANCE & CONTROL SECTION MK 18-4 W/O TDD F/AIM-9H	115	2.405
GUIDANCE AND CONTROL SECTION	56	2.464
G-C GROUP,TRAINER,TAAM-N-6,COMPLETE,F/AIM-7C	189	27.689
G-C GROUP,MK7-9,W/O WING, FIN,BSTR,FIN, F/RIM-8H-3	15	1.511
GUIDANCE & CONTROL GROUP,MK12-3,F/AIM-9C (SIDEWINDER) 2581262	76	3.287
GUIDANCE & CONTROL SECTION AN/DSQ-29,MISSILE MODEL AIM-9L	271	7.520
GUIDANCE AND CONTROL SECTION WGU-4D/B,SEEKER SECT 639AS962	1	0.163
GUIDANCE AND CONTROL SECTION, F/GUIDED MISSILE	4	0.157
LAUNCHER,GUIDED MISSILE,STD ARM P/N 922AS300	52	4.940
TUBE ASSEMBLY, LAUNCHER	7	0.032
GRIPSTOCK-CONTROL GROUP,GUIDED MISSILE LAUNCHER	5	0.014
LAUNCHER, GUIDED MISSILE, AIRCRAFT	1	1.174
CLEANING SYSTEM R/LAUNCHER,F/AGM-78A P/N 11-00759	3	0.014
PAN CLEANING SYSTEM	10	0.075
ADAPTER, SKID SHIPPING AND STORAGE, AGM-78A	6	0.150
FITTING CLAMPS F/ GUIDED MISSILE	92	0.690
ADAPTER, HANDLING F/GUIDED MISSILE P/N SED136A1	7	0.053

ADAPTER, HOOK	2	0.007
BEAM,HOISTING,GUIDED MISSILE MK 5 MOD 1	10	0.170
PROTECTOR DOME GC	11	0.017
CRADLE,STORAGE,MISSILE,MK6-0,RMPTY,F/RIM-8	75	10.575
CRADLE,STORAGE,BOOSTER,MK7-0,EMPTY,F/RIM-8	364	40.222
SLING F/GUIDED MISSILE P/N 423220704	4	0.046
CARRIER, WEAPONS ASSEMBLY	2	0.090
FIXTURE, WARHEAD INSERTION MK22MOD0	1	0.088
COVER, AFT, PROTECTIVE MK 17-0 U/W/CANNISTER MK 13	46	0.230
SLING, PIVOT FIXTURE	9	0.104
SLING PLENUM CELL COVER USN. MK 147-0 P/N 6169840-9 NALC 1W96	1	0.024
STRONGBACK, HORIZONTAL TRANSFER ASSY MK3MOD0 NALC 2W22	10	0.625
STRONGBACK, VERTICAL ASSEMBLY MK 4 MOD 0 NALC 2W23	22	0.539
FIXTURE, TILT ASSEMBLY MK25 MOD0	24	10.692
BEAM, CANISTER ADAPTER LIFT MK50 MOD0 NALC 4W47	1	0.068
GUIDE CELL MK 115-0 F/GUIDED MISSILE P/N PL5497614 NALC 4W48	6	0.165
STAND MISSILE CANISTER, MK35 MOD0 NALC 4W49	80	15.422
FIXTURE TILT, MK 23 MOD 0 NALC DWAC	1	0.075
SKID, SHOCK ISOLATION (DWAD)	5	0.413
CANISTER, ADAPTER ASSY MK18-0 F/MK41 VLS (NALC 4W66)	90	27.630
ADAPTER, SILL ASSEMBLY MK164-0 (NALC 4W68)	32	1.808
STEADY, REST, BEAM (PN# 5223355-9)	42	10.710
RECEIVER, LOCATOR, BEAM,(PN# 5599489-9)	23	7.245
CANISTER, TRAINER (2W07)	2	201.300
CARRIER, SPIDER ASSEMBLY MK60MOD0	3	0.006
ADAPTER, HANDLIFT TRUCK	33	1.287
KIT,PKING,HAND,SHIPPING&TRANS,KIT MK14 P/N 6169954 NALC DWAJ	2	0.113
KIT,PKNG,HAND SHPHG & TRANS NALC DWAK	1	0.035
BEAM, HOISTING,ROCKET MOTOR FAN	6	0.072
ADAPTER, SILL ASSEMBLY (NALC DWBX)	21	0.785
ADAPTER ASSEMBLEY CANISTER MK 18-1 NALC DWBV	11	1.854
PANEL ASSEMBLY NACE	1	0.025
ORDNANCE CONTROL BOX ASSY	15	0.075
BOX,WOOD PK	94	0.235
HEAD ASSY	1	0.004
FUZE ELECTRICAL MK 2 MOD 0	319	0.424
1336: ROCKET MOTOR, XM10E2, LACROSSE	25	16.138
RECEPTICLE F/ACCESS DOOR F/SUU-13 DISP	238	0.238
CARTRIDGE, 120MM, M934/M933	6964	307.809
1390: FUZE, MTSQ, M577 INERT	12	0.016
PACKAGING STOP FOR PA46 FBR CNTR F/ 4.2IN MORTARS :19200	1900	118.750
81MM WOODEN BOX	96	0.768
CARTRIDGE, 105MM	1522	2.244
EXPENDED .25MM CTG:19200	2375	142.500
B00STER, PA530 :19200	1258	0.052
CTG,40MM, M430, INERT LOADED	112	0.074
BOOSTER CUP, O, 0, W PELLET BOOSTER :19203	72	0.003
CONTAINER WOODEN F/PROPULSION SECT. GM WPU-5/B 26241856	35	0.735
1340: RKT, MOTOR, 2.25 IN W/O PROJ, MK 3-0 GRAING MK 3-1	81	0.377
EMPTY CONTAINERS, MK684-MOD0 (UNSERVICEABLE)	18	0.011
EMPTY CONTAINERS, MK683-MOD0 (UNSERVICLEABLE)	21	0.019
BAG,PROTECTIVE,PLASTIC,F/C276 IN M252A4 FBR CNTR :19203	321964	8.049
105MM, PROJ, COMP B, DERIVED FROM BREAKDOWN/1315009650777	5	0.300
8140: BOX, S&S WDN,F/81MM MORTAR,PKD IN MTL CNTR,M266 P/N7548649	1371	9.597
8140: BOX, WOODEN,EMPTY,F/ADAPTER BOOSTER P/N 7549171	3375	8.438
STEEL DISC FOR M251A2 FBR CNTR F/ 4.2IN MORTARS :19203	600	0.039
8140: DRUM, METAL, 30 GALLON, PN 7611039	7197	0.785
BOX, WOODEN F/105MM :19203	10620	127.440
BASE,COUPLING FIRING DEVICE INERT ZINC DIE CASTING :19203	53072	3.980
1390: FUZE,PD,M524E4.W/BSTR,0.05 SEC DELAY P/N 8797514	853	0.960
BOOSTER CUP, 0, 0, F/M935 FUZE :19203	3154	1.533
BLOCK,DEMO,1.7LB,F/FUNCTION TEST,FMY 1375009263985	2	0.003
BODY, LOADING, ASSY F/60MM, M720, INERT LDD W/ORT RING :19203	20	4.500
BOX, WOODEN WIRE BOUND F/PA84 CTRS	23	0.000
CONTAIN FIBER PA84	897	0.805
BOX, F/ WARHEAD, EMPTY	112	0.616
BOOSTER,F/DEMOLITION CHG,MK36-1 2084107REVA	79	0.115
BOOSTER,F/DEMOLITION CHG,MK36-1 2084108REVA	78	0.014
1390: FUZE,PROX,MK 71-5,VT-NSD,W/AUX DET FZ MK 44-1 P/N 584122	852	4.189
TARGET,DETECTING,DEVICE,DSU-101B F/STD ARM,INERT	61	0.000
TARGET, DETECTING DEVICE :24617	1	0.185
RELAY, EXPLOSIVE MK 33 MOD 0	4337	0.022
FENDER, VEHICULAR	3	0.179
FENDER, VEHICULAR	3	0.158
FENDER,VEHICULAR,M1A1,BATTLE TANK,LEFT FRONT	52	17.810
SKIRT,FENDER,COMBAT,MODEL M1IA	52	17.134
SKIRT,FENDER,M1IA,TANK,COMBAT	52	22.334
FENDER,VEHICULAR,MIA1,BATTLE TANK, FRONT	52	17.134
FENDER,VEHICULAR,SKIRT FENDER	52	17.134
FENDER, VEHICULAR	3	0.704
ARMOR, SUPPLEMENTAL	3	0.149

ARMOR, SUPPLEMENTAL	3	0.191
ARMOR, SUPPLEMENTAL	3	0.320
ARMOR, SUPPLEMENTAL	3	0.263
GUARD, SPLASH, VEHICULAR	3	0.001
GUARD, SPASH, VEHICULAR	3	0.135
GUARD, SPLASH, VEHICULAR	3	0.273
GUARD, SPLASH, VEHICULAR	3	0.840
TRIPLETT	5	0.001
SLING SET	8	0.003
CABLE	1	0.003
CTG. 30MM, SATHEI-T-SD	48	0.030
CTG. 30MM, SAPHEI-T	101	0.063
MODULE	5	0.005
HEAD CONTROL ASSY	4	0.001
IGNITER,W/INSTAL TOOL,F/RKT ENGINE,LR-58-RM-4;BULLPUP,AGM-12B	102	0.242
CLIP,ARMING WIRE :30003	2168	52.032
WARHEAD,F/CBU-88/B,ALTERED,FR/CANISTER,F/BLU-73/B, FAE	33	1.238
1340: HANDLING, RING, F/ BULLPIP P/N293BB000003-3	11	0.006
CONTAINER,SHIPPING,EXPENDABLE,MTL, F/GM,BULLPUP,:CAGE 19203	21	1.071
RING,HANDLING,F/GUIDED MISSILE,AGM-12B	6	0.003
RING,HANDLING,F/CENTER SECTION,F/GM,AGM-12B (BULLPUP)	110	0.165
1336:CENTER,SECTION,BULLPUP/F/AGM-12B (293D700000039)	36	6.300
CENTER SECTION,BULLPUP,F/AGM-12C (ASM-N-7B) 293F1000008-9	4	1.000
1336: CHOCK,FORWARD,BOMB,F.AGM-12B-3 (BULLPUP)293F000003-003	3	0.015
RING,LOCK,F/GUIDED MISSILE,AGM-12C	14	0.010
GUIDANCE & CONTROL GROUP,NOSE SECTION,INERT,F/AGM-12B,C,BULLPUP	1	0.028
PLATE, DATA :30003	401	0.002
8140: HOUSING, F/BOMB, FZ, F/BOBM M990D P/N 10401656	3958	0.825
PALLET,BOMB,MHU-149/E,STEEL,TOP FRAME,F/BOMB,MK82,F/AF ONLY	6	0.180
PALLET,BOMB,MHU-149/E,STEEL,INTERMEDIATE FRAME,F/MK82 BOMB	22	0.660
SCREW,SELF LOCKING DWG.NAS1190-3P5NF.A.E.	12009	0.300
BASE	270	0.135
TOW FLIGHT MOTOR	9	0.090
2.75 BURSTER CHARGES, P/N 1601AS209 :30003	2500	0.150
8140:END,SPACERS,F/MK 45-0 NONSTD PAK DWG #2151083	5000	3.750
1325: GAS,CK,250LB BOMB,AN-M-57,EMPTY NON-STD PK P/N2520426	1	0.125
COVER PLATE ASSY,F/CONVERT WHD,MK51-0 TO STD MSL,MK51-0 2556799	50	0.180
CRATE ASSY,FIN,MK28-2,EMPTY,F/FIN,500LB BOMB,GP	2318	13.618
8140: BASE CAP, F/RKT WHD MK 63-0 P/N 2581327	440	0.199
BOMB,PRACTICE,HTW,MK115-0,INERT P/N 2581351	10	0.325
BOMB,PRACTICE,HTW,MK115-0 SUBASSY P/N 2581353	14	0.455
CANNISTER F/PARA RELEASE F/BOMB MK 115-0	232	0.054
PELLETS,BOOSTER,1IN,F/SLU-FAE PROJECT 2596253 M	287	5.023
DECAL (UP) F/FUZE,COVER,F.A.E.PN 2596588 NON-STANDARD PACK	3500	0.000
DECAL F/AFT,EXTRACTOR,F.A.E. PN 2596613 NON-STANDARD PACK	2038	0.000
STUD,ASSY DWG 2602433 F.A.E.	273	0.005
COVER,BOSS	573	5.444
RETAINER,ELECTRICAL,COMPONENT OF BOMB,CBU 72/B,FAE :30003	18529	0.232
PLUNGER,INDEXING NON STANDARD PAK	24	0.001
DECAL,F/INSERT,LIFTING BAR F.A.E. PN 2602911,NON-STANDARD PACK	2789	0.000
DECAL F/FWD,EXTRACTOR,F.A.E, PN 2602912 NON-STANDARD PACK	2000	0.000
DECAL,F/AFT,EXTRACTOR,F.A.E, PN 2602913 NON-STANDARD PACK	14582	0.000
SHOULDER BOLT	188	0.020
EYE,BOLT,W/O BRIDAL,FAE,PN 2603847 NON-STANDARD PACK	100	0.000
BAND,QUICK RELEASE ASSY,F/CNU 120/E	150	0.000
YOKE W/THRUSTER, PISTON & FIRING PIN F.A.E. PN 2605869	18	0.000
CONDUIT,PRIMARY,ARMING WIRE,FWD,F/CBU-88/B,FAE	80	0.000
CONDUIT,ARMING,WIRE,AFT.F/CBU-88/B F.A.E.	125	0.000
COVER,F/ARMING,WIRE,THURSTER,F.A.E.NON-STANDARD PACK PN2605882	20	0.001
CONDUIT,F/ARMING WIRE, PN 2606875 F.A.E. NON-STANDARD PACK	45	0.000
1325:CBU,MK20-1,ROCKEYE II/W/O FZ,INERT,TRAINER P/N 28008556	1	0.446
HARNESS	2	0.001
CLIP,ARMING WIRE,EXTRACTOR,F/DISP,SUU-49A/B,F/CBU-88/B,FAE	6343	0.000
SPRING,WASHER,F/FIN THRUSTER,F.A.E PN 2877535 NON-STANDARD PACK	1250	0.000
CLAMP,ALUM,GUIDE,ARMING,WIRE,TUBE F/CBU-88/B F.A.E.	237	0.012
DECAL,WARNING F/LOWER FINS,F.A.E, PN 2877550 NON-STANDARD PACK	3740	0.000
SPRING,WASHER,BELLEVILLE,F.A.E.,PN 2877556 NON-STANDARD PACK	3745	0.000
WASHER,SADDLE F/CBU-88/B, F.A.E.	772	0.000
DECAL,FUZE ARMING WIRE 2877559	4638	0.014
EXTRACTOR ASSEMBLY	181	28.508
PROBE,RELEASE,ASSY,BRIDAL,F/FWD,BULKHEAD,F.A.E. PN 2877571	100	0.002
STREAMER,WARNING,TAG	1700	0.000
DECAL,F/EXTRACTOAR,HOOKUP,F.A.E. PN2877635 NON-STANDARD PK	1214	0.000
DECAL,F/EXTRACTOR,HOOKUP,F.A.E, PN 2877636 NON-STANDARD PACK	14469	0.000
DECAL,F/CTG,ACTUATED,FIN, F.A.E. PN2878068 NON-STANDARD PACK	3205	0.000
DECAL,LINK,INDICATOR,F/REAR BULKHEAD,F.A.E, PN 2878208	1670	0.000
ROD PLUG,COMPONENT OF CBU 72/B,FAE	1900	0.004
PLUG,ROD DWG.22878239-2	5000	0.009
PLUG,PLATE DWG 2878240 F.A.E.	10150	0.660
PLUG,PLATE DWG 2878241 F.A.E.	5550	0.167
HARNESS DETONATOR	3	0.011

8140: PAN & LID ASSY, NON-STD PACK P/N358AS512	66	0.660
1340:PLUG,OGIVE,ALUM,NOSE,F/WHD,5IN,MK24-0,ZUNI, P/N 458166	336	0.096
SCREW,SOCKET, HEAD :30003	3162	0.000
BOMB, PRACTICE, 500 LBS.	62230	0.000
BOMB,PRACTICE,MK106-6,5LB	3	0.025
8140:CONTR,MK494-1,F/FLIGHT GEAR, MINE SUPPORT EQUIP P/N 5167184	4	0.150
1340: FAIRING, FORWARD, F/LAU 61/A P/N 67A20D317	960	55.200
ELECTRONIC,ASSY,MK3-0,F/AGM-78-A	17	0.298
1377: CARTRIDGE,IMP,RR-124,CHAFF,F/AN/ALE-A P/N 75AS100	134	0.025
STANDARD ARM GUIDANCE SECT 78D/2/3 CHINA LAKE MAT'L :30003	25	1.500
LAUNCHER,GUIDED MISSILE,LAU-77XD2 :30003	25	2.584
BOMB, GENREAL PURPOSE, 250 LB	750	0.000
M931, FUZED ASSEMBLY :30003	141	6.204
WIRE AND CABLE PN 302-14 F.A.E.	10000	7.500
TARGET, DETECTING DEVICE PN 3023474	1	0.185
FORGING TRIDENT PROJECT/HERCULES	10	0.100
PIVOT FIXTURE (PN# 5599762-)	25	11.500
PIVOT SHAFT ASSEMBLY	1	0.001
FIBER CONT M248 F/105MM :CAGE CODE 30554	21586	129.516
FORGING TRIDENT PROJECT/HERCULES	53	8.109
CARBON/CARBON BILLETS TRIDENT PROJECT/HERCULES	40	0.140
CARBON/CARBON BILLETS TRIDENT PROJECT/HERCULES	134	0.469
CARBON/CARBON BILLETS TRIDENT PROJECT/HERCULES	178	0.623
CARBON/CARBON BILLETS TRIDENT PROJECT/HERCULES	139	0.487
FORGING TRIDENT PROJECT/HERCULES	31	4.650
EXPLOSIVE LEAD, MK32, MOD0 :CAGE CODE 30874	1288	6.440
AMPLIFIER	4	0.000
MODULE,COMMAND DESTRUCT,F/STD ARM,MISSILE	11	0.008
CABLE ASSY,SPECIAL PURPOSE,F/GM,HA 330020-11,F/RSLP PROGRAM	4	0.039
STEADY REST ASSY,(PN# 5224114-D)	21	2.352
TIME DELAY,MK23-0	16	0.024
SLING,BEAM TYPE	2	0.030
PALLET,MATERIEL HANDLING, STEEL, MK 12 MOD 1 45 1/2 X 35 X 4 3/4	10	0.060
PALLET, MATERIEL HANDLING MK 3-1 STEEL 40X48	7	0.140
PALLET,MATERIAL HANDLING,WOODEN,40 X 48	4412	220.600
PALLET,MATERIAL HANDLING,MIL-P-15011 (45.5 X 35),WOOD	3248	138.040
PALLET,MATERIAL,HANDLING,WOOD,42"X53",(MIL-P-15011F)-	1443	5.772
PALLET,MATERIAL HANDLING	11	0.550
ADAPTER PALLET,TOP	42	1.050
ADAPTER PALLET,BOTTOM	11	0.275
1338: TOW CAS CUTTER SQUIB P/N 1319441	30	0.060
CORD ASSEMBLY, ELASTIC	25	0.013
HOOK, CARGO, W/CTG ACTUATED DEVICE	48	2.040
HOOK,CARGO	50	1.650
GUIDANCE SECTION F/GUIDED MISSILE PN417-798220	1	0.085
AUTOPILOT BATTERY SECTION :CAGE CODE 53711	1	0.039
RED SMOKE	102	4.998
MCM TEST SET	1	0.005
CAST IRON BAR INERT F/MISSILE	2	0.010
CONTAINER,WOODEN :19203	29	0.160
VALVE, GATE	91	0.041
GUARD,PROPELLER NON-STANDARD PACK LD298560,12449466	40	0.020
SLING, HOISTING MK129 MOD 0	3	0.035
TEST SET,MINE MK 239-2 MINES MK 10,25,27,36,39,52,55,56	4	0.060
TEST SET,MINE MK 264-0 CMPT W/POWER PACK MK 93-0	9	0.518
TEST SET, MINE MK 340 MOD1 F/MN 52, 55	10	0.515
TEST SET, DST MK 502 MOD 1 F/DST 36,40,41	18	0.376
TEST SET, DST. MK 502 MOD 2 F/DST. 36,40,41	5	0.113
TEST SET, DEST. MK 502 MOD 3 F/DST 36,40,41	22	0.499
TEST SSET, MINE MK 264-1,COMPLT W/POWERT PACK MK 93-0	9	0.518
TEST SET, MINE MK 340 MOD O F/ MINE MK55	23	0.652
TEST SET, DESTRUCTOR MK 502 MOD 0	33	0.689
TEST SET, MK 436 MOD0 F/MINE MK55 MOD7	6	0.082
TEST SET, MINE MK239-1,F/MINES MK 52,55,&57 P/N 1476328	1	0.015
TEST SET,MINE MK 408-0 F/FIRING MECHANISM MK 26-0	7	0.417
TEST SET,MINE MK 407-0,F/MINES MK 56,57,F/DRILL MINE MK 55-7B	1	0.052
TEST,SET MK 435-0,F/MINE MK 55 F/DRILL MK 55-7B,8B	2	0.100
TEST SET,MK 450-0,F/MINES MK 55,F/DRILL MINE MK 55-7B,8B	4	0.120
TEST SET, UNDERWATER MINE MK 407 MOD 1	5	0.025
TEST SET, MK 596 MOD 0 F/MIE MK 65 MOD1, C/O STIMULUS UNIT	4	0.142
TEST SET, ELECT. M40 F/MINE AP M18A1, NALC KX10	1599	19.988
WRENCH, ARMING, MINE	8229	4.115
RETAINER,BOMB SAFETY,STL,W/RED FLAG,BLND RIVET,F/DISP&BM 8887947	18	0.153
CABLE ASSY,TEST	1	0.001
TEST SET ELECTRICAL F/GUIDED MISSILE P/N 11-008123-3	3	0.259
TEST SET F/GUIDED MISSILE	1	0.076
STAND MAINTENANCE F/ GUIDED MISSILE P/N 60605100	2	0.500
SNUBBER, ASSEMBLY F/GUIDED MISSILE P/N 19-00749	1	0.063
SIMULATOR,GUIDED MISSILE FLIGHT ELECTRONIC	13	1.014
AIR FRAME,BLAST/LAUNCH TEST MISSILE, TARTAR, MK7-0	2	0.137
SIMULATOR, GUIDED MISSILE MK 89-1,F/STD MISS SM-2 NALC 3W85	4	0.120

TOOL EXTRACTOR PN 11-00762D	20	0.540
WRENCH,SOCKET,CLOSING PLUG,T31,F/750LB GP BOMB,M117 10400013	4	0.007
SETSCREW, 3A, RIGHT HAND P/N 80205MS51977-43	2620	0.655
SCREW,SELFLOCKING DWG NAS 1190-3P8N F.A.E.	19380	0.678
SCREW, CAP, HEXAGON HEAD, 2A,RIGHT HAND	4419	0.028
SCREWXSELF&LOCKING	14677	0.073
SCREW,SELF LOCKING	3583	0.018
SETSCREW F/FAE P/N 2602928	16674	3.335
BOLTS F.A.E.	1500	0.188
BOLT,MACHINE	216533	108.267
WASHER,FLAT NON STANDARD PAK	4585	0.028
NUT,PLAIN,RECTANGULAR,A14 PLAIN	6	0.000
WASHER, FLAT,RECTANGULAR	43	0.002
WASHER,FLAT,STEEL FF-W-92	2833	48.161
WASHER,LOCK,F.A.E. MS-35338-44	17617	0.004
NUT,PLAIN,HEXAGON,,2B RIGHT HANDED THREAD DIRECTION	6919	0.173
WASHER,FLAT NON STANDARD PAK	31247	0.187
WASHER FLAT, FIN THRUSTER CABLE MS-27183-1	3800	0.760
NUT, SELF-LOCKING, HEXAGON	1142	0.086
NUT,SELF LOCKING,FIN THRUSTER CABLE MS21044-N4	2530	1.265
DISK,BOOSTER,F/BLU-73,COMPONENT OF BOMB,FAE 2596568	36377	0.728
COTTER PIN NON STANDARD PACK	4290000	15.444
COTTER PIN NON STANDARD PAK	4332	0.996
PIN, QUICK RELEASE	188	0.047
COTTER PIN NON STANDARD PAK	6800	0.012
PIN SPRING DWG MS-9048-077 F.A.E.	18982	0.380
PIN,GROOVED,HEADLESS,F/BLU-73,COMPONENT OF BOMB,FAE 2602083	9	0.000
RIVET,BLIND,F/CBU-72,F.A.E. M24243/1-D404	168	0.126
RING,RETAINING	21518	0.646
RING,RETAINING,F/STABILIZER PINS,F/FAE,NONSTD PACK MS16633-1050	404	0.040
GASKET,RUBBER,F/40MM AMMO BOX,MK1,2-0/TORP IMP BOX,MK1 423998-1	75495	2.988
GASKET,RUBBER,F/5/38 CTG TANK,MK9-0 329464-3	8465	0.419
GASKET,RUBBER,F/5/38 CTG TANK,MK15-1 4230034PC3-1	5000	0.025
GASKET RUBBER,SYNTHETIC F/AMMO COMPONENT BOX MK2 1211588	855	0.026
GASKET,RUBBER,F/5/38 CTG TANK,MK17-0 328702-3	9250	0.463
GASKET,RUBBER,F/6/47 CTG TANK,MK3,4-0 328347-4,330129-3	9110	0.558
GASKET,RUBBER,F/8/55 POWDER TANK,MK10-0/1 140584-3	31817	3.671
GASKET,NOSE PLUG,CORK,F/3/50,5/54,6/47DP PROJ	66	0.000
GASKET,RUBBER,F/5/38 CTG TANK,MK9-1 329469-3	99999	6.667
GASKET,RUBBER,F/MK2-0 NOSE,SHIP PLUG 736524	4766	0.024
GASKET,RUBBER,F/3/50 CTG TANK,MK8,10-0 328010-4	43575	0.056
GASKET,RUBBER,F/3/50 CTG TANK,MK5-0,1,2,MK12	3300	0.017
GASKET CONTAINER F/CNU92 CNTR	3938	1.969
GASKET,RUBBER,F/SMALL ARMS AMMO BOX,MK1-0 439184-2	2125	0.478
GASKET,RUBBER F/16/50,PWDR TANK,MK7-0,MK8-0 562263-5	1100	0.138
GASKET,RUBBER,F/BASE PLUG,F/6IN AP PROJ,MK35-7,9 SK84033-6-11	3900	0.020
GASKET,RUBBER F/AMMO COMPONENT BX MK1-0 330104-3	1589	0.079
GASKET,RUBBER,F/SMOKELESS POWDER PACK BOX,MK7-0 138441-8	52960	0.265
GASKET,RUBBER,F/5IN CTG TANK,MK6-0 1,2,MK14,19,20 204263-2	11020	0.055
GASKET,RUBBER,F/5/38 CTG TANK,MK15-0 389115-3	667929	3.340
GASKET,RUBBER,F/3/50 PROJ 603075	9180	0.115
GASKET,RUBBER,F/BASE PLUG,F/5/38 COMMON PROJ,MK32,38 SK84033-5-2	4000	0.020
GASKET	2000	0.002
GASKET END PLATE LOWER P/N-33 F/CNTR F/AIM-7	36	0.003
O-RING,PK PREFORMED DWG AN6230-15 F.A.E.	446	0.022
GASKET,SQUIB,RETAINER 7202	1000	0.000
LACES,F/GROMMET,F/PROJ,16IN	4000	0.000
RETAINER,PACKING	113874	6.832
GASKET,RUBBER 8860552	31500	78.750
GASKET,RECT,SHAPED,F/COVER OF M592 AMMO CAN	1215	0.334
GASKET F/LIFTING PLUG F/M549,SIM,MI06 F/155MM P/N 9327806	226043	0.264
PACKING,PREFORMED,O-RING MS9068-240	2406	0.024
PACKINGXPREFORMED	105	0.002
O-RING	174480	8.724
PACKING,PREFORMED	145	1.088
PACKING PREFORMED	22400	0.112
PACKING,PREFORMED C-69-446,MS29513-446,RT253-65-446,1793-446	57	1.026
PACKING,PREFORMED,O-RING MS9068-279	3579	0.018
CAP-PLUG,PROTECTIVE,DUST + MOIST SL,PLAS 1050	2000	0.200
CAP-PLUG,PROTECTIVE,DUST-MOIST SL,PLAS 43X,SMC850474-1	3000	45.000
CAP,PROTECTIVE,DUST	6400	0.000
NUT,LANYARD LOCK	1540	36.960
COVER,ACCESS	44	0.033
PIN,DETENT,F/STREAMER,WARNING,TAG,F.A.E. PN NAS1334AS509	336	5.040
PLUG,PROTECTIVE,DUST & MOISTURE SEAL 1298083	13441	0.134
CAP, PROTECTIVE, DUST	7940	6.511
SPRING, HELICAL, GARTER F/BOMB FIN MK 15-1	10	0.011
SLEEVE OVAL BERLOCK F/SUU-13 PALLET	1460	0.730
WASHER,FLAT,F/TRACER,MK5-0,1,MK9-0 141655-3,226105-2,453171	15400	0.061
SPACER,CRADLE,MK3-0,F/TALOS MISSILE LD489060,V966-00300,1734950	604	30.200
SHIM,MATERIEL STEEL	6350	0.318

SHI, MATERIEL STEEL	6650	0.333
RECEIVER :CAGE CODE 53711	2	0.002
BUNGEE STRAP KITS P/N 6120591	5684	3.108
CELL HATCH P/N 6692849	5	0.013
WARHEAD,INERT MOD 5/8	3	0.085
ENDS,SILK,RED,ROUND,APROX 11IN DIA F/IGNITER,F/16IN PROP CHG	9200	0.552
BEACON,N.A.E. MK2-5 INERT NALC 1W16	8	0.162
SONOBOUY, AN/SSQ57A-LS / SLC (NALC 8W30)	1	0.020
SONOBOUY	5	0.100
SONOBUOY,AN/SSQ-57A, CHANNEL 8, FREQUENCY 167.50 NALC 8W48	1	0.018
SONOBUOY,AN/SSQ-57A,LS/SLC CHANNEL 10 NALC 8W48	1	0.018
SONOBUOY, AN/SSQ-57A,LS/SLV, CHANNEL 18 NALC 8W48	1	0.018
SONOBUOY,AN/SSQ-57A,LS/SLC CHANNEL 25 FREQ NALC 8W48	7	0.126
SONOBUOY, AN/SSQ/57A LS/SLC CHANNEL 26 NALC 8W48	15	0.270
SONOBUOY,AN/SSQ-57A,LS/SLC CHANNEL 27 NALC 8W48	7	0.126
SONOBUOY,AN-SSQ-57A,LS/SLC, CHANNEL 29 NALC 8W48	4	0.072
SONOBUOY,AN-SSQ-57A, LS/SLC CHANNEL 30, NALC 8W48	3	0.054
SONOBOUY,AN/SSQ-57A,SLC-LAU-126A,CHANNEL 22 NALC 8W60	1	0.013
SONOBUOY,SN/SSQ-57A,SLC-LAU-126A CHANNEL 23, NALC 8W60	1	0.013
SONOBUOY,AN/SSQ-57A,SLC-LAU-126-A, CHANNEL 24, NALC 8W60	5	0.063
SONOBUOY,AN/SSQ-57A,SLC-LAU-126A,CHANNEL 25, NALC 8W60	4	0.048
SONOBUOY,AN/SSQ-57A,SLC-LAU-126/A,CHANNEL 26, NALC 8W60	4	0.050
SONOBUOY, AN/SSQ-57A,SLC-LAU-126/A, CHANNEL 27, NALC 8W60	4	0.050
SONOBUOY,AN/SSQ-LAU-126/A, CHANNEL 28 NALC 8W60	1	0.013
SONOBUOY,AN/SSQ-57A,SLC-LAU-126/A, CHANNEL 29 NALC 8W60	4	0.050
SONOBUOY,AN/SSQ-57A, SLC-LAU-126/A CHANNEL 30, NALC 8W60	2	0.025
SONOBOUY, AN/SSQ-57A CHANNEL 1 (NALC 8W60)	2	0.020
SONOBUOY,AN/SSQ-57A,SLC-LAU-126/A, CHANNEL 07 NALC 8W60	13	0.163
SONOBUOY, AN/SSQ-57A, SLC-LAU-126A, CHANNEL 12 NALC 8W60	8	0.096
SONOBUOY, AN/SSQ-57A,SLC-LAU-126A, CHANNEL 14 NALC 8W60	7	0.084
SONSBOUY,AN/SSQ-57A,SLC-LAU-126/A,CHANNEL 16, NALC 8W60	4	0.048
SONOBUOY,AN/SSQ-57A,SLC-LAU-126/A,CHANNEL 18 NALC 8W60	7	0.088
SONSBUOY,AN/SSQ-57A, SLC-LAU-126/A CHANNEL 19 NALC 8W60	5	0.063
SONOBUOY,AN/SSQ-57A,SLC-LAU-126/A, CHANNEL 20 NALC 8W60	1	0.013
SONOBOUY, AN/SSQ-53B, DETECTS INDERWATER ACCOUSTICAL (NALC 8W62)	2626	41.937
SONOBOUY, AN/SSQ-77A (NALC 8W64)	20	0.050
SONOBOUY AN/SSQ-62B, CHANNELS	2	0.040
SONOBUOY,AN/SSQ-86 NALC8W68	29	0.486
SONOBOUY AN-SSQ-62B (DICASS) CHANNEL 8 (NALC 8W71)	1	0.019
SONOBOUY, AN/SSQ-62B (DICASS) NALC 8471	22	0.528
SONOBOUY (NALC 8W72)	674	8.088
SONOBOUY, AN/SSQ-57B (NALC 8W73)	14	0.070
SONOBOUY, AN/SSQ-57B (NALC NW73)	42	0.525
SONOBOUY AN/SSQ-57B (NALC 8W73)	9	0.113
SONOBUOY,AN/SSQ-57B,SLC LAU-126/A NALC 8W73	161	2.254
SONOBOUY AN/SSQ-57 B (NALC 8W73)	58	0.725
SONBUOY,AN/SSQ-57B,SLC LAU-126A NALC 8W73	6	0.084
SONOBOUY, AN-SSQ/57B, CHANNEL 09	52	0.650
SONOBUOY AN/SSQ-57B SLC LAU-126/A (NALC 8W73)	63	0.283
SONOBOUY (NALC 8W73), AN/SSQ-57B CHANNEL 11	43	0.538
SONOBUOY,AN/SSQ-57B,SLC-LAU-126/A CHANNEL 12 NALC 8W73	125	1.563
SONOBUOY,AN/SSQ-57B,SLC- LAU-126A NALC 8W73	66	0.825
SONOBUOY,AN/SSQ-57B NALC 8W73	158	1.975
SONOBUOY AN/SSQ-57B SLC (NALC 8W73)	45	0.633
SONOBOUY,AN/SSQ-57B,SLC-LAU-126/A,CHANNEL 16 NALC 8W73	96	1.200
SONOBUOY AN/SSQ-57B SLC LAU-126/A (NALC 8W73)	65	0.292
SONOBUOY,AN/SSQ-57B,SLC LAU-126/A CHANNEL 18 NALC 8W73	96	1.200
SONOBUOY,AN/SSQ-57B,SLC-LAU-126/B CHANNEL 19 NALC 8W73	100	1.250
SONOBUOY, AN/SSQ-57B NALC 8W73	159	2.862
SONOBUOY, AN/SSQ-57B, SLC, LAU-126A NALC 8W73	105	1.313
SOSNBUOY,AN/SSQ-57B,SLC-LAU-126/A CHANNEL 25 NALC 8W73	222	2.775
SONOBUOY,AN/SSQ-57B,SLC-LAU-126/A,CHANNEL 26 NALC 8W73	84	1.050
SONOBUOY,AN/SSQ-57B,SLC-LAU-126/A,CHANNEL 27 NALC 8W73	144	1.800
SONOBUOY,AN/SSQ-57B,SLC-LAU-126/A,CHANNEL 29 NALC 8W73	93	1.163
SONOBUOY, AN/SSQ-77B,ACRFT LAUNCHED,SELF ACUTUATING NALC 8W76	8798	123.172
SONOBUOY,LITHIUM BATTERY INCLUDED NALC 8W75	5753	96.363
SONOBUOY,AN/SSQ-62C,DICASS,SONAR,CHANNEL A,HELO-COMPAT NALC 8W79	6	0.162
LISTENING SONOBOUYS (NALC 8W79)	13	0.247
SONOBUOY, AN/SSQ-62C DICASS, SONAR CHANNEL C, (NALC 8W79)	50	1.350
SONOBOUY AN/SSQ-62C NALC 8W79	30	0.570
SONOBUOY,SSQ-62D (DICASS) CHANNEL A NALC 8W82	125	2.563
SONOBUOY. AN/SSQ-62-D, CHANNEL B NALC 8W82	95	1.710
SONOBUOY, AN-SSQ-52D (DICASS) CHANNEL C NALC 8W82	5	0.090
SONOBUOY, AN/SSQ-62D, (DICASS) CHANNEL 1 NALC 8W82	200	2.600
SONOBUOY, AN/SSQ-62D (DICASS) CHANNEL A NALC 8W83	8	0.148
SONOBUOY,AN/SSQ-62D,CHANNEL B, NALC 8W83	12	0.198
SONOBOUY AN/SSQ-62D, CHANNEL C NALC 8W83	18	0.324
SONOBOUY (NALC 8W83)	33	0.545
SONOBUOY, AN-SSQ-53E (DIFAR) NALC 8W84	301	3.409
SONOBOUY, AN/SSQ-62C DICASS, SONAR CHANNEL B (NALC 8W85)	14	0.378
SONOBUOY,AN/SSQ-57C,CALIBRATED,OMNI,W/DIFAR NALC 8W88	210	2.678

SONOBOUY (NALC 8W88)	36	0.432
JUNCTION, BOX ASSY	45	0.113
HARD COVERS/LIDS/F/M58 HE LINEAR DEMO	44	1.650
CHAFF,COUNTMEASURE,RR-70/ALF/ALE-32&33,DISPENSERS PKD 120	2523	0.053
AMPLIFIER,TRANSMITER,AM-6988A,SQUIB COUNTERMEASURE DEVICE MW94	2256	2.256
CIRCUIT CARD ASSEMBLY 191255	216	0.019
CHAFF, COUNTERMEASURES, RR-181/AL	75	1.913
DECOY,UNITS,INFLATABLE, F/AN/SLQ-49 (1PR PER CNTR) NALC 4W71	2	0.595
CHAFF,COUNTERMEASURE,RR-188/AL,F/AN/ALE-40 DISPENSER NALC 3W37	581	0.504
CHAFF, COUNTERMEASURES RR-129A/AL. (OPERATIONAL)STANDARD E-GLASS	5	0.000
DISP,RBOC,TYPE II	100	0.039
CTG, PRESSURE	4	0.020
FILTER,RADIO FREQUE	250	0.028
FILTER,RADIO,FREQUENCY INTERFERENCE,500.0 VOLTS DC SINGLE RADIO	1400	0.280
BLOCK, ASSY, BOOSTERS, W/PBXN5	17	0.553
CONNECTOR,PLUG,F/VOLT DETECT TEST SET,MK586,F/MN,MK60-0	2100	0.326
RETAINER, ELECTRICAL CONNECTOR	1185	0.001
DUMMY CONNECTOR, PLUG, MALE	345	0.431
DUMMY CONNECTOR, PLUG, FEMALE	2488	1.244
CONNECTOR,RECEPTABLE, ELECTRICAL	4	0.000
CRYSTAL,UNIT,QUARTZ,RECEIVER CHANNEL NO.1,F/AGM-12B,12C NALCVW28	1	0.001
1330,GRENADE,GP,M42 & M46, DWG 9215340 & 9215370	333080	69.392
1325, 750# BOMB,NOSE PIECES, W/EXLO	198	11.880
1325, 750# BOMB, BASE, PEICES W/EXPL	202	12.120
1325, 750# BOMB, PIECES, INTERMEDIATED, W/EXLP	868	52.080
1325, 750# BOMB, SCRAP, METAL STEEL	9056	543.360
5310: LOCKNUT STEEL, P/N 1129786	16	0.120
1375: BOOSTER,F/DEMOLITION CHG,MK 36-1	99	0.050
1350: DETECTOR, PRESSURE. MK 11-1,F/MINE MK 55-8, P/N 2499934	4	0.035
1370: CARTRIDGE,4.4 INM, MORTAR,CHAFF MK 171-0 P/N 6020391	25	0.021
SLEEVE,INSULATION MIL-I-22129 F.A.E	31825	79.563
COUPLING,ELECTICAL CONDUIT	30	0.060
TARGET,DETECTING,DEVICE PN 5977194	1	0.317
CHARGER, BATTERY	1	0.003
BATTERY, NONRECHARG	3	0.004
BATTERY,NONRECHARGE	2	0.000
BATTERY, THERMAL	2	0.004
BATTERY, PACK, MK142 MOD 0 (NALC 3W81)	35	0.012
BATTERY,PROPULSION,MK 33-0 F/MINES MK 27-2,3,4,5	32	6.240
BATTERY PROPULSION	9	1.755
CABLE ASSEMBLY F/GUIDED MISSILE	8	0.500
CABLE ASSEMBLY, SPECIAL PURPOSE, F/SUU-25C/A DISPENSER	56	0.056
CABLE ASSEMBLY, SPECIAL PURPOSE	662	0.099
CABLE, ASSEMBLY, ELECTRICAL, SPECIAL PURPOSE	96	0.095
WIRING HARNESS F/STD ARM P/N 2817328	131	3.275
CABLE ASSEMBLY SPECIAL PURPOSE P/N 2817330 (CHINA LAKE MAT'L)	107	2.675
CABLE ASSEMBLY SPECIAL PURPOSE	18	0.090
CABLE ASSY,SPECIAL PURPOSE,ELECTRICAL,F.A.E. 2604741	7433	0.483
TARGET DETECTION DEVICE	1	0.317
TARGET DETECTING DEVICE PN 6228709	2	0.634
TARGET, DETECTING DEVICE PN 6228709-24	1	0.317
TARGET DETECTION DEVICE	1	0.317
RETAINER,BOLT, AC	12	0.002
WARHEAD	1	0.110
SAFETY PLUG F/BLU 66/B BOMBLET	5964	0.072
TIMER,STOP,ELECTRICAL CONNECTOR	2	0.017
BATHTHERMGRAPH, AN/SSQ-36, CHANNEL 12 NALC 8W47	14	0.175
BATHYTHERMGRAPH,AN/SSQ-36,W/SLC LAR126/A NALC 8W59	1344	16.800
BATHYTHERMOGRAPH TRANSMITTER AN/SSQ-36 (NALC 8W59)	106	1.178
BATHYTHERMGRAPH,SLC,LAU-126/A NALC 8W59	1548	19.350
BATHYTHERMOGRAPH,TRANSMITTING SET,AN/SSQ-36 CHANNEL 16 NALC 8W74	35	0.376
BATHYTHERMOGRAPH,AN/SSQ-36 NALC 8W74	10	0.095
BATHTERMOGRAPH,TRANSMITTING SET,AN/SSQ-36B, NALC 8W78	607	6.677
HUMIDITY INDICATOR DWG TA350-345 F.A.E.	68	0.011
WHD, ORDNANCE SECT P/N67A85F1017 WAU-4/B F/STANDARD ARM	43	21.285
WARHEAD SEEK,WAU 14/B,F/AGM-78D-4 (CHINA LAKE MATERIEL)	31	0.000
ALUMINUM TECHNICAL	631165	360.816
CHEMICAL,AMMONIUM NITRATE,GRADE 1 MIL-A-175A	96988	55.658
CHEMICAL,MAGNESIUM POWDER,48-100 MESH JAN-M-382A	25720	13.503
CHEMICAL,MAGNESIUM POWDER,48-120 MESH JAN-M-382A	16185	9.792
CHEMICAL,MAGNESIUM POWDER,120-200 MESH JAN-M-382A	12300	7.257
SUPPRESSANT,FLASH,270GM POTASSIUM SULFATE,180GM POTASSIUM NITRAT	32526	19.516
AMMONIUM PERCHLORATE,TECHNICAL	3	0.005
RED PHOSHORUS,BUTYL RUBBER PELLETS,F/CBU-88/B,SMOKEYE,FAE,W/I DR	1261	61.789
CHEMICAL,BARIUM NITRATE,CLASS B, MA-B-162B	24000	14.400
CHEMICAL,MAGNESIUM POWDER,80-120 MESH,FMY 68106283442 JAN-M-382A	44873	224.365
POTASSIUM NITRATE,CLASS 1,COMPONENT OF 5/38,6/47 MIL-P-156B	16600	9.960
POTASSIUM SULPHATE,TYPE 2,COMPONENT OF 5/38,6/47 MIL-P-193A	190700	953.500
1450:FUZE TEST COUPLER P/N 6830370	1	0.002
FZ,BOMBS DMY,OUTLINE TAIL TYPE,HYDOSTATIC MK 230 INERT	5	0.038
DISPLAY BOARD,AMMUNITION,MK3-0,F/A/C SIGNAL,CTG 562892	38	0.570

DMY,PROJ.8IN.HC.MK24 MODS,WOOD REPLICA,SECTIONALIZED F/TRAINING	29	0.290
SEAT RESET SPRING, FUEL CONTROL, ALUMINUM, ANODIZED	3	0.011
GUIDED MISSILE,TYPE III,ATM-78C2 CHINA LAKE NALC 1828	5	5.168
GUID & CONTROL GRP, TRAIN, F/ATM-12C, W/WINGS & CANARDS, INERT	1	0.047
WHD SEC GM TRNG M201	16	15.200
TARGET, MINIATURE MOBILE MK38 MOD 0 (NALC NW99)	53	0.530
GUIDED MISSILE MAIN ASSY,(CHINA LAKE MAT'L) P/N 30003-911AS5000	8	0.827
TARGET, MOBILE, MINIATURE (NALC SW88)	53	0.636
TARGET, MOBILE, MINIATURE (SW89)	14	0.168
TARGET, MOBILE, MINIATURE (NALC SW90)	12	0.144
TARGET,MOBILE, MINIATURE (NALC SW91)	19	0.228
GUIDED MISSILE, TRAINING NALC(7W68)	16	3.520
TARGET, MOBILE, MINIATURE (NALC 7W84)	182	0.005
WARHEAD SECTION, GUIDED MISSILE,T	4	0.287
MISSILE,GUIDED,TRAINING ROUND MK 66 MOD 4, NALC DWBL	2	1.358
BODY SECTION, GUIDED MISSILE, TRAINING	2	1.159
TARGET, MOBILE MINIATURE	1	0.020
SQUIB, ELECTRIC	13	0.065
DRUM,55 GAL MTL, W/REMOVABLE LID	24	0.756
CNTR.FIBER DRUM F/ALUM POWDER N/STANDARD PK	142	0.710
DRUM,SHIPPING AND STORAGE	208	5.720
TRANSPARENT STATIC SHIELD BAGS	1580	0.790
CUSHIONING MATERIAL, PACKAGING	1249	0.625
LINER, CASE	75	0.045
DUMMY PROJECTILE,155MM,M692,ADAM-T :8136198320	256	13.984
SHIPPING AND STORAGE CONTAINER, M TORPEDO MK44 AND MK46	1	0.520
BODY, CONTAINER	2	0.004
CRATE,FIN ASSY,MK12-2,EMPTY,F/1 FIN,MK14-1,F/250LB BOMB 1331053	4	0.020
CONTAINER,MK480-0,EMPTY,F/S-A MK14,M17F,F/RIM-2,24,66,67	9	0.855
CONTAINER, SHIPPING & STORAGE, MK 492-1 F/RIM-66,67	489	9.291
PALLET, CRATE, MK2-MOD 0, STEEL, INERT	3	0.369
PLUG NOSE F/2.75	135	0.068
PLUG,NOSE,SHIP,F/5IN WHD,MK25-1 394560-2	1130	0.327
PLUG,NOSE,SHIPPING,PLASTIC,F/7.2IN.,RKT,BODY,MK5	540	0.270
CONTAINER,AMMO,MTL,MK2-0,EMPTY,F/4 2.25SCARS/16 MTRS LD165076	536	6.164
CONTAINER,AMMO,MTL,MK1-0,EMPTY,F/4 2.75 RKT LD261188,516074	141	1.692
CONTAINER,AMMUNITION,WOOD MK31-0,EMPTY F/5IN RKT HEAD	75	0.488
BOX,PACKING,MK7-1,EMPTY,F/110LB SMKLS PDR,GALV STL LD328475	2135	43.768
BOX,PRIMER,COPPER,F/PRIMER,MK13-0,1,2 LD167013	8	0.001
BOX, PRMR,MK 7-0.EMPTY F/PRMR MK 38-1,40-1,MK4,MK42,MK45	1781	20.482
BOX,AMMO,COMP,MK1-0,EMPTY,MTL,15.16X11.97X14.54 LD109431	222	1.776
CAP.WATERPROOF,PROTECTING,MK3-0,STEEL 329747	234	0.117
CAP,WATERPROOF PROTECTING,MK4-0,STEEL 437782	20	0.010
CAP,WATERPROOF,PROTECTING,MK4-1,BRASS B583511,SK165450	1029	1.029
PALLET ASSEMBLY,STEEL;MK-1 MOD-2	54	2.700
PALLET, ADAPTER, COMPLETE	31	0.326
PALLET ADAPTER,BOTTOM,MK4-0,STL,F/6/47 PROJ 562440	37	0.259
PALLET, ADAPTER BOTTOM, MK 3 MOD 0 STEEL F/9 5 IN 38 PROJECTILE	55	0.429
PALLET,ADAPTER,TOP MK 4-1 STEEL	108	0.648
PALLET ADAPTER, BOTT	59	0.042
PALLET ADAPTER,TOP,MK11-0,F/5 INCH PROJ & RKT HEADS 981446	824	12.360
PALLET ADAPTER,BOTTOM,MK11-0,F/12 5/54 PROJ/RKT HEADS 981449	209	6.061
PLUG,PROJECTILE	2831	0.630
PLUG,FUZE HOLE,PROJ	10415	3.645
PLUG SHIPPING PLASTICE W/GASKET FOR PROXIMITY FUZE	300	0.150
BOX,AMMUNITION	6	0.048
BOX,AMMUNITION,20MM	4	0.030
BOX,20MM,AMMO,MK3-1,EMPTY,STEEL,18.2X9.1X13.0 LD91384,329494	289	2.168
BOX,20MM,AMMO,MK3-3,EMPTY,STEEL,18.2X9.1X13.0 LD255998,564212	11	0.083
BOX,40MM,AMMO,MK1 MODS,STL,11.7X11.7X22,F/16RD/4RD CLP 423999	128695	2316.510
BOX,1.10,AMMO,MK1-0,2-3,EMPTY,STL,13.712X12X12 199114	107	1.605
TANK, CTG, 5IN 54CAL MK 14-0,ALUM	1644	5.754
TANK,PWR,MK3-0,ALUM,F/16/45 CHG LD58137,204241	39	1.326
TANK, POWDER, MK 4-1, STEEL F/16IN 50 CAL FULL CTG	249	12.077
TANK, POWDER, MK 8-0, ALUM F/16IN 50 CAL REDUCED CHG	18	0.486
BOX,PACKING,AMMUNITION,WOODEN 8886810	132	0.726
CRATE,SHIPPING,MK55-1,F/MINE MK 55	14	1.421
ADAPTER,UNIT LOAD A, MK 79-0 F/ MK 84	336	58.464
SHIPPING AND STORAGE CONTAINER,GUIDED MISSILE	199	10.945
EMPTY CONTAINER,MK 460 MOD 4 (P/N 2642960)	125	1.813
SHIPPING AND STORAGE CONTAINER,G P/N 2642926	93	0.465
EMPTY CONTAINER,MK 460 MOD 2 (P/N 2642928)	132	1.716
CONTAINER, SHIPPING & STORAGE, MK 460-0 F/RIM-67A	193	2.220
PALLET, BASE FOR 8 INCH PROJECTILE	15	0.195
COVER,ASSEMBLY,PALLET FOR 8 INCH PROJECTILE	203	2.335
CAP,BASE,SHIPPING,F/5IN WARHEAD,MK24/32	790	0.494
BOX WOOD 4-PACK F/2.75 ROCKET WARHD	731	4.021
CONTAINER,METAL,PA70,F/60MM,CTG, DWG # 9252725	54	0.324
RING,SHIPPING 694429	41	0.013
PALLET, BOMB, MK 8-0 INTERMEDIATE FRAME	397	7.543
PALLET, BOMB, MK 8-0 TOP FRAME	163	3.260

PALLET BOMB MK 9-0 INTERMEDIATE FRAME	219	5.475
PALLET BOMB, MK 9-0 TOP FRAME	126	2.520
PALLET,FRAME,TOP STEEL F/BOMB, MK 11-0	49	1.911
PALLET, BOMB, MK 79-0, BOTTOM FRAME	64	6.784
SHIPPING AND STORAGE CONTAINER,GUIDED MISSILE MK 567-0	75	1.388
CAP,SHIPPING,BASE F/2000 LB GP BOMB MK 84 1366054	3029	15.145
PALLET ASSEMBLY F/155MM PROJECTILE DRAWING NO. 7549274	5803	110.257
PALLET,CRATE,METAL	1	0.210
TANKE, 5 IN 38 CALIBER CARTRIDGE, MK 15-0 ALUM	8356	20.890
CONTAINER, SHIPPING & STORAGE, ASSY F/FUZE, PA19	419	1.257
CARTON,CARDBOARD,U/FOR PKGING 40MM CTG M383,M384,M385 (50 CTG)	164	0.049
SUPPORT,BOTTOM,POLYETHYLENE,F/FZ,ART & RKT 9232148	6894	0.689
SUPPORT TOP,POLYETHYLENE,USED F/ARTILLERY AND RKT FZS 9232149	7780	0.778
PALLET BASE FOR PROJECTILE 155MM	1090	27.250
CNTR,AMMUNITION, F/BOMB FUZES MODELS MK376-0,MK344-0,1, STEEL	52	0.910
DRAWSTOP LEVER NUT P/N 69052300-64	732	0.015
CONTAINER,SHIPPING & STORAGE,STL.F/CNU-131B	9	0.150
PALLET ADAPTER,MK58-1,INTERMEDIATE FRAME 67A215D2	37	0.222
BOX,CAP,ENGINEER/END ITEM ID-1375-00-212-4599	73	0.035
FIBER, CONTAINER, M229A1 F/3.5IN ROCKET DWG# 75490385	20	0.280
CONTAINER,AMMO,WOOD,F/5IN RKT MTR,MK71-0 318AS105,LD269032 REV D	30	0.525
CUSHION LOWER AFT PROP SEC P/N-37 F/AIM-70 CNTR	11	0.022
CONTAINER AMMO. FIBERBOARD AND TIN F/105MM CTG.	1428	1.785
SHIPPING AND STORAGE CONTAINER, G	8	1.528
TANK, PDR, MK 4-0, ALUM F/16 IN 50 CAL FULL CHARGE	3205	120.188
BOX, PACKING, AMMUNITION, U/ON 2.75 ROCKET MOTOR	825	4.125
PLUG,SUSP LUG INSERT,PLAS,F/BOMB MK81,82,83 2519633	37375	0.934
CONTAINER,AMMUNITION,FIBER,MODEL PA55 F/105MM M1,M44,M60 9258026	13160	39.480
SHIPPING AND STORAGE CONTAINER,MK 510-0,F/RIM-66B CONTROL UNIT	791	9.888
GROMMET,ROTATING,BAND,PLASTIC TYPE 1,F/PROJ 155MM,M107,M110,M116	432	60.480
CONTAINER, AMMUNITION, MODEL M36A5	9504	65102.400
SHIPPING AND STORAGE CONTAINER, G	6	0.057
CONTAINER,MK494-0,MN SUPPORT EQUIP,F/PACK ASSY,FLIT GEAR 2501785	27	1.013
CONTAINER,S & S, CNU-199/E F/AIM-7C/D/E/E-2/F F/WINGS & FINS	9	0.540
CONTAINER,MK586-0,F/FLIGHT GEAR,MN,MK55 2644941,WR-54/245A	160	11.040
CONTAINER, AMMUNITION (WW68)	4	0.020
CONTAINER, AMMUNITION (WW69)	7	0.018
CONTAINER,SHIPPING & STORAGE,MK427-1	7	1.435
CUSHION LOWER PROPU F/AIM-7 MOTOR CNTR	14	0.000
UPPER CUSHION NR-31 F/CNU-186 CNTR F/AIM-7 PROPULSION SEC	38	0.006
PALLET,COVER, ASSY, WOOD F/155MM CTG, M107, M110,M116	3666	32.994
PLUG ASSY,FRONT,SHIP,C/O PLAS PLG & GASKET,F/ZUNI MTR 2841443	2842	1.332
SHIPPING AND STORAGE CONTAINER GUIDED MISSILE	126	0.378
PALLET,ADAPTERS,BOTTOM & TOP	34	0.935
CUSHION,LOWER END,ARMAMENT SECTION	94	0.047
CNTR.FZ. F/BD FUZE MK 21-0	106	0.086
PALLET ADAPTER,COMPLETE,MK13-0,STEEL,F/39 5/38 CTG TANK 100005	530	19.080
COVER,TANK,ALUM F/3/70 CTG TANK MK 11 MOD 0 MK 13 MOD 0	2326	4.885
CONTAINER,MK158-0 EXERCISE ASSY F/ TORP MK37-0	2	0.265
CUSHION,RETAINER,BW-1,BT-3 TARTER WHD,EXHEAD 1273307	12	0.012
CONTAINER AMMUNITION ,WOOD, MK 38-0 F/ONE 5IN RKT MOTOR	387	6.773
TANK, CARTRIDGE 5 IN 38 CAL, MK 6-0,1,2, ALLUM W/OS COVER	3	0.009
TANK, 5 IN 38 CALIBER CTG, MK 9-0,1,	38	0.171
COVER TANK STEEL F/ 3/50 CTG TANK MK 8-0, MK 10-0	150	0.075
CRATE,SHIPPING & STORAGE, AMMUNTTION MK 12-3 EMPTY F/250 LB BOMB	6	0.300
PALLET ADAPTER,TOP,MK13-0,F/5/38 CTG TANK 1372798-1	24	0.432
CONTAINER, AMMUNITION (TW83)	82	0.308
SHIPPING & STORAGE CONTAINER,F/CNU-185/E GUIDANCE & CONTROL SEC	8	1.600
CNTR SHRIKE MISSILE PROP SECT	34	2.516
GASKET END PLATE LOWER F/AGM-45 CNT	128	0.013
GASKET CONTAINER ARMAMENT SEC F/AGM-45	31	0.001
PAD,FELT,F/WHD,GAR,MK3,PKG 50/PLAS BAG 191783	4114	0.004
CRATE,FIN ASSY,MK13-0,EMPTY,F/1 FIN,F/2000LB BOMB,MK84-0 1350859	1050	42.000
CONTAINER,SHIP,MK179-0,F/PARAPAK,MK33-0 LD497742	140	1.400
BOX, PACKING, AMMUNITION, FIBERBOARD, U/F/30 CALIBER CTGS	2480	0.012
CONTAINER,AMMUNITION,MODEL M36A5,F/81MM MORTAR,FIBERBOARD & TIN	10339	93.051
CARTON, PACKING; F/CTG CALIBER 30 IN RD CLIP 19203 813934	80	0.004
BOX,PACKING ASSEMBLY,F/57MM RIFLE AMMO	42	0.210
CONTAINER,AMMO/MODEL M267,F/90MM CTGS,#T142E3,FIBERBOARD & TIN	40	0.600
WOODEN BOX F/MINE HE	68	0.850
BOX, AMMUNITION, METAL M19A1, DRAWING # 7553315	235425	470.850
TRAY,LINK PACKAGING U/F/LINK CTG (.5 CALIBER)	384	0.038
PALLET,CRATE,METAL	1	0.016
BOX, PACKING, AMMUNITION, REMOVEABLE LINER,PLYWOOD,NN-P-530	43	0.342
CRATE,FIN ASSY,MK28-0,EMPTY,F/1 FIN,MK15-0,1,F/500LB BOM 2580137	201	1.106
PLUG,SHIPPING,NOSE BASE F/BOMB MK 81, 82, 83 OR 84	645	0.077
CONTAINER,AMMO,M518, F/2.75IN RKT. MTR, MK 40 8883478	130	0.098
CNTR,AMMO,WOOD,OUT,EMPTY,F/24 FZ,MK191,INR CNTR,MK140-0 LD299599	3288	34.524
STOP,PACKING,F/81MM,HE,CARTRIDGE,M362	160	0.001
CONTAINER,AMMUNITION 8880527	48	0.082
CONTAINER,AMMO,FIBER,M523,F/WHD,2.75IN RKT,HE,M151 8886811	401	0.251

BOX, PACKING WDN F/CONTAINER M251	12540	150.480
CONTAINER, S & S: MK 430-0 F/12 FINS F/AIM-9D,9G,9H	44	0.198
LATCH ASSY F/M468 CNTR	1378	0.276
CAP,SHIPPING,BASE,F/1000LB GP BOMB MK83-3,4 1211674	33577	16.789
STRAP,WING SUPPORT	29	0.145
CUSHION AFT LOWER 1" G&C SEC P/N-60 F/AIM-7 CNTR	49	0.049
SUPPORT,FIN 1516596	2	0.200
BOX,ASSY,AMMUNITION,METAL,M2A1	75922	196.132
PALLET, ADAPTER, COMPLT, MK 11-0 F/5 PROJECTILES	447	8.717
CAP, SHIPPING BASE F/500 LB GP BOMB MK82-0,1 1212105	87724	153.517
CONTAINER CNU/147/E	100	11.750
CONNECTOR, DETONATING CORD	1810	0.023
SHIPPING & STORAGE CONTAINER,BMB,CNU-416/E TOP	1	0.100
SADDLE,GALVANIZED METAL,1FWD & 1AFT/SET,F/PALLET,MK9	200	0.001
PALLET,WOODEN,1 WAY,40X48	1	0.040
CONTAINER,SHIPPING,WOOD,CNU-137,F/5IN RKT WHD	52	0.390
BAGS,SILK,EXPELLING CHG,MIXED,F/VARIOUS TYPE CHG	250	0.000
LACE,GROMMET,36IN MARLIN LINE,F/8I N,PROJ N/S PAK	16000	0.300
BOTTLE,SAMPLE,9.5 OZ, T.C.W. CO, SUR USA 3-M-36 EMPTY	305	0.008
SAMPLE,BOTTLE 8OZ T.C.W. CO.SUR USAEMPTY NS PAK	900	0.300
CRADLE PARTS F/MN MK25	57	0.003
SPACERS,WOODEN,F/16/50 PROP CHG F/SHIPMENT,PACKED IN TANK,MK4-0	949	4.508
SUPPORT,ROCKET STYROFOAM	3276	0.130
CONTAINER,FIBERBOARD,WRAPPED,M343,F/F392,ADAP-BSTR BOMB NS-PAK	388	0.388
BOX,WOODEN 2.75 RKT CONTAINER	30	1.785
CONTAINER,WOODEN,F/25MM CTG PGU-23/UTP	103	1.030
BOX,AMMO,M2,SA,MTL	12	0.009
CORK INSERT SPACER 4 3/8 X 1 1/2 X 1 PKG AS REQD	20000	3.000
WOODEN,BX,METAL LINED,EXPL CONTAMINATED,F/3.5 PROPELLANT GRAIN	996	3.486
CONTAINER,METAL,MK3-3,1,CONTAMINATED EXPLO FR/HBX-3,HIGH EXPLO	118	0.885
CONTAINER, WOODEN, MK 697 MOD 0 F/ROCKET MOTOR	8	0.200
CONTAINER,FIBER,M251A1,F/CTG, 4.2IN,HE,MODELS M3A1,M329,M328	2953	14.765
SHIPPING AND STORAGE CONTAINER, MK 593 MOD 0,F/GUIDED MISSILE	128	7.808
BOX,PACKING,AMMUNITION, U/O 4.2 INCH MORTAR-IN FIBER CONTAINER	255	2.040
CONTAINER, AMMUNITION (DW59)	7	0.018
SHIPPING AND STORAGE CONTAINER, F/AGM 69A, SRAM	2	0.010
PALLET, F/PROJECTILE DODIC D651	4996	119.904
PALLET ASSEMBLY F/ PROJECTILE, (8 ROUNDS) DRAWING NO. 7549275	3955	69.213
CONTAINER,AMMUNITION,FIBER,PA46 MOD: 4.2 MORTAR #9276779	118	0.059
GROMMET,ROTATING,BAND,PLASTIC,U/W/155,PROJ,M107,M110,P/N 9251987	10	0.003
GROMMET,ROTATING BAND,F/M483, INERT	2528	0.755
BOX,PACKING,AMMUNIT	287	4.018
CONTAINER,AMMUNITION FIBER PA71 (9276005)	936	1.404
CONTAINER, S & S, CNU-289E F/AFM-9L RK MTR LARC SY56	28	2.100
CONTAINER, S & S, CNU-283A/E, F/AIM-9L/M, WINGS & FIN	71	1.775
GROMMET,ROTATING BAND	44256	4.426
DISK ,SOLID, PLAIN	2118	0.011
BOX,PACKING,AMMUNITION 98271047	23710	280.964
BODY ASSEMBLY, AMMUNITION	24	1.500
SHIPPING & STORAGE, CONTAINER, F/30MM CTGS MODEL XM592	4214	48.461
ADAPTER,PALLET,FIN ASSY ADU-415/E F/SHIPPING & STORAGE MK 84	66	3.498
PALLET,PROJECTILE	780	14.430
CONTAINER TUBE,STRAP ASSEMBLY	9	0.675
BOX,AMMO,WOODEN F/25MM PRACTICE BRASS CASE	32	0.240
CONTAINER,AMMUNITION	8	0.048
BOX,PACKING,AMMUNIT	663	4.973
CONTAINER AMMUNITION F/PROJ 155MM COPPERHEAD, TRNG M823	278	4.865
CONTAINER SHIPPING	3	0.075
CONTAINER,SHIPPING & STORAGE,CNU-327/E F/BOMB DISPENSER	10	2.700
CONTAINE, SHIPPING & STORAGE, MK 365-0 F/CARTRIDGE CYL SHAPE	28	0.126
CONTAINER, SHIPPING & STORAGE, CNU-335/E F/BSU-49/B	10	1.265
CONTAINER AMMUNITION	1583	9.498
SKID, UNDERWAER MINE (NALC 6W76)	1	0.225
CUSHION CENTER F/CANARDS AIM-9L	34	1.530
CUSHION CENTER F/S&A DEVICE F/AIM-9L P/N 777962-01	8	0.044
CUSHION TOP & BOTTOM F/S&A DEVICE F/AIM-9L P/N 777961-01	16	0.072
CONTAINER, STORAGE & SHIPPING, CNU-354/E F/HARM ROCKET MOTOR	9	1.242
CONTAINER MK 543 MOD 0,F/DESTRUCTOR CHARGE MK 2	179	0.358
CONTAINER, SHIPPING & STORAGE, CNU-335 A/E	55	11.000
SHIPPING AND STORAGE CONTAINER, G, (LARC WY81)	5	0.525
SHIPPING/STORAGE CONTAINER, MK372 MOD7 EMPTY	500	76.000
CONTAINER,SHIPPING & STORAGE,MK 211-3,F/AN/DKT 26/27,INERT	976	43.432
SHIPPING & STORAGE CONTAINER F/HELLFIRE MISSILE	3	0.128
COVER ASSEMBLY,WOOD F/155MM, (D501,D503,D509,D520,D563)	3232	24.240
BASE, ASSY, MATERIEL WOOD F/PALLET F/155MM PROJ	941	9.410
CONTAINER,S&S,CNU-296/E,F/HARM WINGS BSU-59/B AND FINS BSU-60/B	12	0.281
PALLET,LOADING & STORAGE, BOMB,MHU-187/E	82	0.113
PALLET,ADAPTER,ADU-383/E F/12 MK15-0 FIN ASSY BOMBS SNAKEYE	26	0.416
SHIPPING AND STORAGE	18	8.460
CONTAINER,SHIPPING & STORAGE,CNU/371/E, INERT	70	1.750
CONTAINER,SHIPPING & STORAGE,AFG F/AGM-123A LARC YY51	364	10.920

CONTAINER,SHIPPING & STORAGE F/MK 82 AIR FOIL GRP LARC YY52	726	0.218
ADAPTER,PALLET,FIN ASSEMBLY,MODEL ADU-535/E,TWO FRAMES ARE USED	1062	13.275
CONTAINER, SHIPPING & STORAGE F/FLIGHT GEAR MK 160-0 F/DSTR MK41	16	0.560
EMPTY CONTAINER, MK 684 MOD P/N 5167081	370	0.370
SHIPPING & STORAGE CONTAINER,G,DUAL THRUST ROCKET MOTOR MK693	386	48.250
SHIPPING AND STORAGE CONTAINER,G	234	3.510
CONTAINER, SHIPPING & STORAGE, MK 688-0, INERT	53	2.385
PALLET,BOMB	20	0.860
CANISTER,LAUNCH MK 13 MOD 0	759	1041.348
CONTAINER, S&S, MK 639 MOD 0 F/MK 13 EXPL SECTION KIT ASSY	8	0.224
PALLET,BOMB,COMPLETE,MHU-122 A/E	3	0.264
CARTON ASSEMBLY	154477	169.925
SHIPPING & STORAGE CONTAINER, BMB,CNU-416/E (8463245-010)	21	2.310
PALLET FRAME, F/TOP, LOADING & STORAGE, BOMB, MHU-122/E	2986	29.860
PALLET FRAME,INTERMEDIATE,LOADING & STORAGE BOMB, MHU-122/E	760	7.600
PALLET,BOMB,BOTTOM,MHU 122/E	152	1.520
SHIPPING & STORAGE CONTAINER MK 568-0 F/ARMING DEVICE MK 2-5	10	0.100
CONTAINER,SHIP & STORAGE F/AGM123/A MXU 651/B & CNU-441/E	36	0.540
CONTAINER,SHIPPING,MK706-0,F/2.75IN RKT MTR MK66-2	10082	105.861
SHIPPING AND STORAGE CONTAINER, F/AIM-9M/R,SIDEWINDER NALC 4W80	46	7.015
CANISTER,LAUNCH,MK 14 MOD 0	30	30.720
CANISTER, LAUNCH MK14 MOD1	1057	1077.612
CANISTER,LAUNCH,MK 19 MOD 0	61	83.692
COVER, ASSY U/W/PALLET TOP F/155MM PROJ P/N 9327881	13221	36.358
TRAY,PACKING,25MM,POLY,F/CTG,25MM 986AS125,1829AS100	1063	0.266
S & S CONTAINER, MK 737 MOD O EMPTY SHIP & STOR	13	1.742
PALLET, BOTTOM,WOOD F/SHIPPING AND STORING 155 MM M549A1 (8RDS)	5852	239.639
CONTAINER, S & S CNU-419/E F/BSU-85/B RETARDER FIN	773	9.914
CONTAINER, S&S F/DESTRUCTOR MK 40 FLIGHT GEAR KIT P/N 5561732	21	2.625
CONTAINER, AMMUNITION,F/MICLIC (M913/M914) EMPTY DWG# 5854655	11	7.123
AMMO, CAN MATERIEL FIBER ROUND, W/LATCH CLOSURE F/BULK PROP	1739	8.695
CONTAINER, ROCKET MOTOR, WOODEN, INERT	17	0.425
CAN, AMMUNITION, F/ BULK PROPELLANTS	1704	127.800
CONTAINER,AMMUNITION,FIBER,PA78,F/60MM,CTG,DWG# 9293287	14280	314.160
SECONDARY, STEEL CONTAINER MATRIC DESIGN DWG ACVM0839	2572	861.620
CONTAINER,AMMO,FOR REFURBISHING KIT 13-32 MOD ASSEMBLY	32	3.760
SHIPPING AND STORAGE CONTAINER	5	1.200
LINER,AMMUNITION,F/PKGING 30MM CTGS IN M592 CONTAINERS	320	0.400
STRAP, REMOVAL MAT'L F/PKGING RENO OF 30 MM CTGS IN M592	41	0.000
CHANNEL, EDGE, GUARD, STEEL F/PKGING RENOVATION 30MM CTGS, M592	357	0.037
CANISTER, LAUNCH MK15 MOD0	40	60.280
PALLET, TOP, METAL F/155MM P/N 12914624	4015	60.225
PALLET, BASE, METAL F/155MM P/N 12914620	3932	66.844
COVER, PALLET, TOP F/155MM PROJECTILE	13716	102.870
CONTAINER,AMMO,FIBER P/73 F/B643 DWG # 9280110-C	47996	13.499
PALLET, BASE, F/155MM PROJECTILE	10588	79.410
LAUCHERS EMPTY	20	0.050
PALLET,PROJECTILE,STEEL,F/155MM W/SHORT LATCH ROD ASSY	88	2.860
COVER, ROTATING BAND, FLEXIBLE	2914	0.017
SHIPPING AND STORAGE CONTAINER MK 768 MOD 0 NALC: CWEK	1	0.044
CANISTER,MK21-0 U/AS LAUNCH TUBE & CONTR F/SM-2 NALC CWHC	15	0.315
SM-2 BLOCK IVA CANISTER MK 21 MOD 1 P/N 7116000-9 NALC CWMQ	70	144.690
FIBER CNTR F/M722 60MM INERT CMP	256	0.000
CNTR CNU 381/E	20	9.500
BOX, SHIPPING INSULATED	624	73.320
CONTAINER, SHIPPING & STORAGE F/WINGS & CANARDS	7	0.175
SHIPPING & STORAGE CONTAINER NAVY USE	5	1.975
CLAMP,BOTTOM HALF	293	0.010
BRACKETS, FUZE HOLDER :82577	27	0.000
1315: PROJECTILE, 105MM, W/O FUZE P/N 9211471	4	0.014
KIT,ADAPTER DWG.SK4902816 :82577	68	0.442
TARGET, DETECTING DEVICE :83179	4	0.738
FUSE SHROUD :CAGE CODE 83179	5	0.175
STREAMER,WARNING	342	8.550
BOX FIBERBOARD, INFOLD TRAY BOTTOM	28780	0.040
BOX FIBERBOARD INFOLD TRAY TOP	27369	0.380
CUSHION BOTTOM, STRAKE	224	1.120
HEAD PRIMER	50	0.005
RELEASE,PIN,QUICK	5894	0.884
BOOSTER F/2.75 ROCKET FUZE M423 F/EXPERIMENTAL USE	38	0.038
PLUG NOSE BOOSTER ASSY	116	0.058
PROJ,60MM,COMP B LDD,F/WADF	152	4.180
PROJECTILE,155MM,SPECIAL TEST P/N 9298319-0	127	6.937
PROJECTILE,155MM,M692 W/LIVE EXPLOSIVE CHARGE P/N 9298319-2	264	14.421
BOOK COVER,BOARD.065 THCK,25WX30LG ,W/PH FACTOR 6,5 P-OR-M 1.5	164116	61.544
PLASTIC SHEET (3 X 4)	1	0.007
WINDOW,OBSERVATION,F/F.A.E. 653AS135	5719	14.298
WIRE, NONELECTRICAL	19000	2802.500
BAR, METAL, BRASS	10	0.009
YARN, FABRIC STYLE 96808 F/TRIDENT	157168	677.394
IGNITER,ELECTRIC,F/MNC	219	0.055

CARTRIDGE,POWER DEVICE VALVE DWG# 3167668 W/CCONNECTOR	1	0.004
ROCKET MOTORS MK69-0 F/ATM 78 P/N 246AS103	2	1.090
AUTO PILOT BATTERY UNIT F/ST PN 423-301178	17	1.190
ORD SECT,F/STND ARM (CHINA LAKE MATERIEL)	2	0.094
AUTO PILOT BATTERY UNIT F/ST,INERT P/N 911AS2000	2	0.095
ORD SEC F/STND ARM (CHINA LAKE MATERIEL)	35	6.160
ORD SECT F/STD ARM WAU-2/B P/N 67A85F821	3	0.528
ORD SECT MK2-2,F/STND ARM (CHINA LAKE MATERIEL)	1	0.182
ARMING FIRING DEVICE, MK 26-0 F/RIM 2D,2E,2F	6	0.015
KRAFT PAPER F/60MM,W12-6218X	4000	0.065
NUT COUPLING F/STD ARM P/N 911AS103 P/N 2454141	22	0.000
GUIDANCE SECTION F/STD ARM P/N 423-300052	5	0.320
GUIDANCE,SECTION,F/STANDARD ARM,INERT P/N 423-300054	10	1.100
STEERING CONTROL UNIT F/STD ARM P/N 423-601057	20	1.350
BOOSTER ASSY F/M433,ROCKET, NON-STANDARD PACK	294	0.040
ROCKET MOTOR,XM13/T50,W/O IGNITER,FMY 13363021716,F/CHINA LAKE	5	4.590
ROCKET MOTOR,5IN,MK2-3,W/PG,MK18-0,ELEC CNCTR,F/CHINA LAKE PROJ	132	7.920
ROCKET MOTOR,XM28,JATO,M5,W/IGNITER,F/CHINA LAKE PROJECT	7	6.528
ROCKET MOTOR,LOKI,OBSOLETE,F/CHINA LAKE	60	0.900
ROCKET MOTOR,KD2U,W/MODIF BSTR,W/O IGNTR,F/CHINA LAKE,800214-21	2	6.988
WARHEAD,GUIDED MISSILE,EMPTY,EX29-3,W/CAV LNR,F/BULLPUP	1	0.108
CASE,CTG,PHOTOFLASH,M123A1,EMPTY,W/PRMR,2 SEC DLAY	8256	46.646
CHARGE ASSY,LINE,MODEL 301F,COUNTERMIN,300FT,PRAC,INERT CHINA LK	6	0.150
CARTRIDGE,30MM AMMO F/CANNON W/SOLID PROJ CLASS B EXPL	24364	22.232
BOOSTER,MISSILE,MK2-3,EXP LDD,F/TERRIER,STARBIRD,CLASS B	5	5.725
BOOSTER,MISSILE,MK6-0,PKD 1 BSTR/MK17-0 CNTR 1470056,1470056C	130	66.170
FRAGMENTATION PACK 2618022	299	3.588
ROCKET MOTOR,3IN,JUDI,METEOROLOGICAL,MEDIUM IMPULSE 2515-14	8	0.048
ROCKET ASSY,7.5IN,AEROBEE,F/PT MUGU	6	4.200
ROCKET MOTOR,F/GUIDED MISSILE,HAWK,F/POINT MUGU 1-052515	7	3.815
ROCKET MOTOR,CAJUN,TE-82-3	32	3.680
ROCKET MOTOR,VIPER CHG497SNDA121	24	3.960
POLARIS CHAMBER,PROPELLANT LDD	2	1.000
PLATE,DRAG,F/CHARGE,TEST,1200LB	4	0.100
BOOSTER, F/ DEMOLITION CHARGE, 8 LB.	8	0.008
BOOSTER,PENTOLITE,F/CHARGE,SHOCK,60LB	1	0.013
BOOSTER,TNT LDD,125LB,F/CHARGE,DEMO	3	0.188
BOOSTER,PENTOLITE,F/DEMO CHARGE 1000 LB SPHERE	1	0.050
CHARGE,DEMOLITION,SPHERE,1000LB,TNT LDD	8	5.388
DUMMY NOSE SECTION,GUIDED MISSILE 293D6000019-19	22	1.441
JAMMER,EXPENDABLE 99957,130142	51	2.525
RIVET BLIND MIL-R-24243-1B508 F.A.E	7500	0.005
CLOUD DETONATOR ASSY,W/BSTR,PBXN-5,25 GR EA,F/SLU-FAE PROJECT	3	0.013
CARTRIDGE,IMPULSE,F/SUU-49,FAE,N00104-74C-B431 2605897	562	0.086
ADAPTER,CHOCK,BOMB,F/BULLPUP 293D700006	929	2.813
YARN,FABRIC STYLE,F/THICKOL 96813	18	4.005
YARN,FABRIC STYLE,F/HERCULES 96814	198	54.450
YARN,FABRIC STYLE,F/HERCULES 96815	811	223.025
PROJ,57MM,FRAG,T/281U,W/PLAS PLUG,W/O FZ BREAK-UP	5000	19.167
ROCKER MOTOR,CHEROKEE,TE-146 15510-07	10	0.525
ALECTO UNIT,FACED,CRIMPED CY35,W/IGNITERS,PR-6788	558	1.116
IGNITER,X1-3K,JET THRUST,F/GENIE,F/CHINA LAKE PROJECT	18	0.270
SPACER,DIVIDER,F/4 WRBND CRATE,F/M19A1 MTL BX,11 7/8X5 13/32	66323	165.808
MINE,UNDERWATER,SMALL,PSEC,COASTAL SYS STA, PANAMA CITY, FLA	4	2.200
MINE,UNDERWATER,MED,SPEC,COASTAL SYSTEMS STA.PANAMA CITY, FLAITY	4	4.400
CTG, 30MM X 173, FRANGIBLE ARMOR PIERCING INCENDIARY (INERT)	17	0.032
CTG 30MM X 173, MP-T/SD, MK 264 MOD 0	76	42.370
MINE,UNDERWATE,KB,SPECIAL,COASTAL SYSTEMS STA, PANAMA CITY, FLA<	3	3.521
CARTRIDGE, 30MM, MK173 TPDS-T LINK	100	0.154
CTG 30MM HEI-T EXPRO EXPLOSIVE P/N 28068727-103	123	68.573
CTG 30MM, HEI-T (HIGH EXPLOSIVE INCENDIARY, TRACED), P/N28070543	7	0.008
CTG, 30MM X 173 MK 258-0, APFSDS-T, LINKED FOR BUSHMASTER II	79	44.043
MINE, INDERWATER, LARGE, COASTAL SYSTEMS STA, PANAMA CITY, FLA	4	6.644
LEAD, UNKNOWN,PYRO,COASTAL SYS STA, PANAMA CITY, FLA	5	0.042
BOOSTER,LONG METAL FITTING,COASTAL SYS STA, PANAMA CITY, FLA	5	0.042
BOOSTER,CLOTH WRAP,SHORT,COASTAL SYS STA, PANAMA CITY, FLA	5	0.042
BOOSTER,CLOTH WRAP,LONG,COASTAL SYS STA, PANAMA CITY, FLA	5	0.042
CTG 30MM X 173 TP-T, RECEIVED UNDER 1305L1083392823	67	37.353
30MM X 173 MPLD-T (INERT TRACER) ROUNDS	41	22.858
CTG 30MM X 173, APFSDS-T	96	53.520
BOOSTER,SHORT,METAL FITTING,COASTAL SYS STA, PANAMA CITY, FLA	10	0.042
BOOSTER,LONG,CERAMIC,COASTAL SYS STA, PANAMA CITY, FLA	5	0.210
TOW GYROSCOPE P/N 10084389	12	0.060
GYROSCOPE,CTG,POWER DEVICE	12	0.216
1377: TOW 2 GYROSCOPE P/N10084389	6	0.004
TOW FLIGHT MOTOR SQUIB, P/N 10085086	9	0.090
ACTUATOR, PNEUMATIC-BEACON SHUTTER	12	0.000
CTG,POWER DEVICE,THERMAL BEACON	14	0.284
TOW, THERMAL BATTERIES P/N13296452	7	0.035
PROJECTILE PART,NOI,WARHEAD MK 115-0, EMPTY	32	11.840
CONTAINER,METAL 176/E F/STD ARM	1	0.060

DORSIALS MIXED F/AGM-78 INERT	99	0.000
SHROUD F/STD ARM WARHEAD,NON-STANDARD PACK P/N 67A85F084	68	0.000
CABLE ASSY F/STD ARM INERT P/N 67A8SE461	19	0.171
DETONATOR F/MINE MK 77 NEUT CHARGE	1	0.010
SPACER ASSY W/RP SMOKE F/STD ARM	5	0.000
SIGNAL,SMOKE SDU-29/B,WP,F/AGM-7 P/N 2604776	36	0.648
PLASTIC FRONT COVER F/STD ARM ROCKET MOTOR	40	0.100
CENTER SECTION,F/BULLPUP W/PARTS,W/O WHD	2	0.075
PROJECTILE,6/47,ILLUMINATING	50	0.208
DETONATOR RING 145 GRAMS F/MK 77 MINE	3	0.011
WARHEAD,7.2IN,DC,HBX-1 LDD,W/BSTR,FSL,INTEGRAL,MK1	798	13.367
WARHEAD,7.2IN,DC,HE,MK5-0,HBX-1 LDD	32	1.000
TNT,BLOCK,SPECIAL,33LB,12X12X4	192	3.296
CASE,CTG,90MM,BRASS,M19,W/LIVE PRIMER	51	0.034
SPACER,SEPERATOR 11-7/8INX5INX13/32IN	2000	1.000
PLUGS, PLASTIC,RED, SIZE # 12	12210	0.061
BOOSTER, FUZE, MK 33-0 F/TERRIER WARHEAD	8	0.076
CONT., SHIPPING F/EXHAUST VALVE, NALC TA19 INERT	268	0.276
TASK "A" ASSY, PBX-N103	16	9.776
FLIGHT RACEWAY,CABLE AND CONNECTOR SECOND STAGE	11	0.055
BOX,WOODEN,F/WALLEYE	2	0.002
ROCKET MOTOR	1	0.990
PALLET, ASSY, METAL F/105MM (DWG # ACV00134)	10	0.125
CONTAINER,SHIPPING & STORAGE,METAL,PA117,F/105MM :CAGE CD 19203	20	1.950
ROCKET MOTOR,MK104 MOD2	2	0.618
3A PLATE	5	0.063
INITIATOR F/GUIDED MISSILE P/N ME4530009	17	0.043
CONTAINER,AF/FIN ASSY,F/MXU 650/B,BOMB DWG# MS27683-17-IH	26	0.845
O-RIONG,PK,PERFORMED,DWG# MS2877-114 F.A.E. NON-STANDARD PK	2718	0.000
CONNECTOR,ELECTRICAL,NAPEC DWG 0311 F/M58A2 LINEAR DEMO CHG	5	0.033
POWER CHANGE-OVER UNITS	3	0.008
1450:ANTENNA COUPLER F/MK 45-0 P/N P06736W	7	0.105
INITIATOR F/GUIDED MISSILE P/N SEV26100001	19	0.048
TOTAL TONNAGE		**362743.063**

SCAN OF STORED INDUSTRIAL PLANT EQUIPMENT AT HWAD

TOTAL TONNAGE 12,652

Equipment #	Description	Pep Num	Location	Pounds
341404744	GEAR HOBBING	843	050-001	1,370
341404745	GEAR HOBBING	843	050-001	1,370
341404746	GEAR HOBBING	843	050-001	1,400
341404747	GEAR HOBBING MACHINE	843	050-001	1,400
341404748	GEAR HOBBING MACHINE	843	050-001	1,400
341404751	GEAR HOBBING MACHINE	843	050-001	1,400
341506017	GRINDING MACHINE	843	050-001	8,000
341509112	GRINDING MACHINE	843	050-001	8,800
341509759	GRINDING MACHINE	116	050-001	8,920
341514813	GRINDING MACHINE	116	050-001	9,850
341522321-1	GRINDING MACHINE	116	050-001	8,010
341522321-2	GRINDING MACHINE	116	050-001	0
341602569-1	LATHE BAR	116	050-001	13,000
341602569-2	LATHE BAR	116	050-001	2,400
341602633-1	LATHE BAR	116	050-001	15,000
341602633-2	LATHE BAR	116	050-001	1,500
341602633-3	LATHE BAR	116	050-001	0
341602640-1	LATHE BAR	116	050-001	12,700
341602640-2	LATHE BAR	116	050-001	1,200
341602641-1	LATHE BAR	116	050-001	12,900
341602641-2	LATHE BAR	116	050-001	1,900
341609198-1	LATHE BAR	737	050-001	19,250
341609198-2	LATHE BAR	737	050-001	1,525
341610383-1	LATHE BAR	116	050-001	2,500
341610383-2	LATHE BAR	116	050-001	13,000
341612197-1	LATHE BAR	116	050-001	13,000
341612197-2	LATHE BAR	116	050-001	2,200
341630796-1	LATHE BAR	116	050-001	13,000
341630796-2	LATHE BAR	116	050-001	2,500
341630802-1	LATHE BAR	116	050-001	12,900
341630802-2	LATHE BAR	116	050-001	24,490
341632491-1	LATHE BAR	116	050-001	16,300
341632491-2	LATHE BAR	116	050-001	820
341632491-3	LATHE BAR	116	050-001	880
341632577-1	LATHE BAR	737	050-001	19,470

341632577-2	LATHE BAR	737	050-001	0
341632579-1	LATHE BAR	737	050-001	19,780
341632579-2	LATHE BAR	737	050-001	1,600
341632587-1	LATHE BAR	737	050-001	20,200
341632587-2	LATHE BAR	737	050-001	1,600
341632671-1	LATHE BAR	843	050-001	15,225
341632671-2	LATHE BAR	843	050-001	566
341632671-3	LATHE BAR	843	050-001	4,020
341632671-4	LATHE BAR	843	050-001	1,550
341635701-1	LATHE BAR	465	050-001	28,000
341635701-2	LATHE BAR	465	050-001	670
341636661-1	LATHE BAR	843	050-001	15,225
341636661-2	LATHE BAR	843	050-001	566
341636661-3	LATHE BAR	843	050-001	4,020
341636661-4	LATHE BAR	843	050-001	
341636662-1	LATHE BAR	843	050-001	15,225
341636662-2	LATHE BAR	843	050-001	566
341636662-3	LATHE BAR	843	050-001	15,225
341636662-4	LATHE BAR	843	050-001	1,550
341638508	LATHE BAR	116	050-001	10,500
344300834	PRESS MECHANICAL	116	050-001	28,000
344300872-1	PRESS MECHANICAL	116	050-001	23,340
344300872-2	PRESS MECHANICAL	116	050-001	0
344301240-1	PRESS MECHANICAL	116	050-001	28,000
344301240-2	PRESS MECHANICAL	116	050-001	680
344301240-3	PRESS MECHANICAL	116	050-001	520
344301244-1	PRESS MECHANICAL	116	050-001	28,000
344301244-2	PRESS MECHANICAL	116	050-001	530
344303038-1	PRESS MECHANICAL	116	050-001	26,000
344303038-2	PRESS MECHANICAL	116	050-001	2,000
344304530	PRESS MECHANICAL	116	050-001	37,000
344306539-1	PRESS MECHANICAL	116	050-001	28,000
344306539-2	PRESS MECHANICAL	116	050-001	680
344309694-1	PRESS MECHANICAL	209	050-001	1,125
344309694-10	PRESS MECHANICAL	209	050-001	8,666
344309694-11	PRESS MECHANICAL	209	050-001	17,540
344309694-12	PRESS MECHANICAL	209	050-001	17,540

344309694-13	PRESS MECHANICAL	209	050-001	9,400
344309694-2	PRESS MECHANICAL	209	050-001	2,230
344309694-22	PRESS MECHANICAL	209	050-001	3,120
344309694-23	PRESS MECHANICAL	209	050-001	3,120
344309694-24	PRESS MECHANICAL	209	050-001	1,780
344309694-25	PRESS MECHANICAL	209	050-001	1,780
344309694-26	PRESS MECHANICAL	209	050-001	1,800
344309694-27	PRESS MECHANICAL	209	050-001	30
344309694-28	PRESS MECHANICAL	209	050-001	30,312
344309694-29	PRESS MECHANICAL	209	050-001	6,700
344309694-3	PRESS MECHANICAL	209	050-001	12,800
344309694-30	PRESS MECHANICAL	209	050-001	1,180
344309694-38	PRESS MECHANICAL	209	050-001	7,175
344309694-39	PRESS MECHANICAL	209	050-001	1,400
344309694-4	PRESS MECHANICAL	209	050-001	675
344309694-40	PRESS MECHANICAL	209	050-001	970
344309694-41	PRESS MECHANICAL	209	050-001	700
344309694-42	PRESS MECHANICAL	209	050-001	1,850
344309694-43	PRESS MECHANICAL	209	050-001	80
344309694-44	PRESS MECHANICAL	209	050-001	2,530
344309694-45	PRESS MECHANICAL	209	050-001	450
344309694-46	PRESS MECHANICAL	209	050-001	1,710
344309694-47	PRESS MECHANICAL	209	050-001	2,850
344309694-48	PRESS MECHANICAL	209	050-001	1,500
344309694-49	PRESS MECHANICAL	209	050-001	3,280
344309694-5	PRESS MECHANICAL	209	050-001	760
344309694-50	PRESS MECHANICAL	209	050-001	1,650
344309694-51	PRESS MECHANICAL	209	050-001	2,970
344309694-52	PRESS MECHANICAL	209	050-001	2,940
344309694-53	PRESS MECHANICAL	209	050-001	120
344309694-54	PRESS MECHANICAL	209	050-001	1,850
344309694-55	PRESS MECHANICAL	209	050-001	50
344309694-56	PRESS MECHANICAL	209	050-001	3,180
344309694-57	PRESS MECHANICAL	209	050-001	2,280
344309694-58	PRESS MECHANICAL	209	050-001	1,550
344309694-59	PRESS MECHANICAL	209	050-001	3,850
344309694-6	PRESS MECHANICAL	209	050-001	500

344309694-60	PRESS MECHANICAL	209	050-001	640
344309694-61	PRESS MECHANICAL	209	050-001	2,990
344309694-62	PRESS MECHANICAL	209	050-001	5,890
344309694-63	PRESS MECHANICAL	209	050-001	2,550
344309694-64	PRESS MECHANICAL	209	050-001	240
344309694-65	PRESS MECHANICAL	209	050-001	1,500
344309694-7	PRESS MECHANICAL	209	050-001	5,000
344309694-8	PRESS MECHANICAL	209	050-001	2,500
344309694-9	PRESS MECHANICAL	209	050-001	10,350
344310018-1	PRESS MECHANICAL	116	050-001	30,600
344310018-10	PRESS MECHANICAL	116	050-001	0
344310018-11	PRESS MECHANICAL	116	050-001	0
344310018-12	PRESS MECHANICAL	116	050-001	0
344310018-13	PRESS MECHANICAL	116	050-001	0
344310018-2	PRESS MECHANICAL	116	050-001	5,400
344310018-3	PRESS MECHANICAL	116	050-001	3,360
344310018-4	PRESS MECHANICAL	116	050-001	2,400
344310018-5	PRESS MECHANICAL	116	050-001	2,900
344310018-6	PRESS MECHANICAL	116	050-001	1,860
344310018-7	PRESS MECHANICAL	116	050-001	41,860
344310018-8	PRESS MECHANICAL	116	050-001	2,020
344310018-9	PRESS MECHANICAL	116	050-001	2,780
359801023	LOAD, ASSEMBLE & IDENT.	116	050-001	4,000
359801025	LOAD, ASSEMBLE & IDENT.	116	050-001	4,000
361100247	MARKING MACHINE	116	050-001	2,500
361100248	MARKING MACHINE	116	050-001	2,500
368000806-1	DIE CASTING	843	050-001	33,730
368000806-2	DIE CASTING	843	050-001	0
368000813-1	DIE CASTING	843	050-001	33,250
368000813-2	DIE CASTING	843	050-001	0
369000362	BASIC ASSEMBLY	843	050-001	15,000
369003107	BASIC ASSEMBLY	843	050-001	4,000
369003108	BASIC ASSEMBLY	843	050-001	4,000
369003109	BASIC ASSEMBLY	843	050-001	15,000
369003110	BASIC ASSEMBLY	843	050-001	15,000
369003111	BASIC ASSEMBLY	843	050-001	8,000
369003112	BASIC ASSEMBLY	843	050-001	10,000

369003113	BASIC ASSEMBLY	843	050-001	9,000
369003532-1	BASIC ASSEMBLY	843	050-001	10,000
369003532-2	BASIC ASSEMBLY	843	050-001	1,500
341603566	LATHE CHUCK	119	050-004	17,500
341634131	LATHE CHUCKING	119	050-004	24,100
341920338	THREADING MACHINE	119	050-004	5,000
341921473-1	KEYSEATING MACHINE	119	050-004	4,500
341921473-2	KEYSEATING MACHINE	119	050-004	1,000
341921491	TAPPING MACHINE	119	050-004	4,750
341921493	TAPPING MACHINE	119	050-004	4,750
341921700	KEYSEATING MACHINE	119	050-004	4,500
343160726	WELDING MACHINE	119	050-004	9,206
343160728	WELDING MACHINE	119	050-004	9,206
343161420-1	WELDING MACHINE	119	050-004	12,000
343161420-2	WELDING MACHINE	119	050-004	2,900
343161871	WELDING MACHINE	119	050-004	17,000
343161872-1	WELDING MACHINE	119	050-004	92,062
343161872-2	WELDING MACHINE	119	050-004	1,936
343161873	WELDING MACHINE	119	050-004	17,000
343161874	WELDING MACHINE	119	050-004	17,000
343250787-1	WELDING MACHINE	119	050-004	5,200
343250787-2	WELDING MACHINE	119	050-004	740
343250788-1	WELDING MACHINE	119	050-004	4,500
343250788-2	WELDING MACHINE	119	050-004	880
343251261	WELDING MACHINE	119	050-004	5,300
343251292-1	WELDING MACHINE	119	050-004	3,000
343251292-2	WELDING MACHINE	119	050-004	3,000
344200136	BANDING PRESS	119	050-004	4,000
344200137	BANDING PRESS	119	050-004	4,000
344200138	BANDING PRESS	119	050-004	4,000
344200141	BANDING PRESS	119	050-004	7,200
344200753-1	BANDING PRESS	119	050-004	4,500
344200753-2	BANDING PRESS	119	050-004	2,000
344201100-1	PRESS HYDRAULIC	119	050-004	91,000
344201100-2	PRESS HYDRAULIC	119	050-004	7,480
344201100-3	PRESS HYDRAULIC	119	050-004	6,580
344201100-4	PRESS HYDRAULIC	119	050-004	1,120

344201903-1	BANDING PRESS	119	050-004	5,520
344201903-2	BANDING PRESS	119	050-004	600
344202244-1	PRESS HYDRAULIC	119	050-004	72,900
344202244-10	PRESS HYDRAULIC	119	050-004	400
344202244-11	PRESS HYDRAULIC	119	050-004	1,220
344202244-12	PRESS HYDRAULIC	119	050-004	2,820
344202244-13	PRESS HYDRAULIC	119	050-004	200
344202244-14	PRESS HYDRAULIC	119	050-004	1,880
344202244-2	PRESS HYDRAULIC	119	050-004	200
344202244-3	PRESS HYDRAULIC	119	050-004	830
344202244-4	PRESS HYDRAULIC	119	050-004	4,047
344202244-5	PRESS HYDRAULIC	119	050-004	940
344202244-6	PRESS HYDRAULIC	119	050-004	120
344202244-7	PRESS HYDRAULIC	119	050-004	3,740
344202244-8	PRESS HYDRAULIC	119	050-004	7,000
344202244-9	PRESS HYDRAULIC	119	050-004	5,660
344202647-1	PRESS HYDRAULIC	119	050-004	11,575
344202647-10	PRESS HYDRAULIC	119	050-004	793
344202647-11	PRESS HYDRAULIC	119	050-004	435
344202647-12	PRESS HYDRAULIC	119	050-004	920
344202647-13	PRESS HYDRAULIC	119	050-004	2,574
344202647-2	PRESS HYDRAULIC	119	050-004	2,975
344202647-3	PRESS HYDRAULIC	119	050-004	6,260
344202647-4	PRESS HYDRAULIC	119	050-004	9,160
344202647-5	PRESS HYDRAULIC	119	050-004	2,160
344202647-6	PRESS HYDRAULIC	119	050-004	1,350
344202647-7	PRESS HYDRAULIC	119	050-004	2,730
344202647-8	PRESS HYDRAULIC	119	050-004	11,035
344202647-9	PRESS HYDRAULIC	119	050-004	1,115
344203453-1	PRESS HYDRAULIC	119	050-004	43,000
344203453-2	PRESS HYDRAULIC	119	050-004	24,650
344203453-3	PRESS HYDRAULIC	119	050-004	2,600
344203453-4	PRESS HYDRAULIC	119	050-004	600
344203453-5	PRESS HYDRAULIC	119	050-004	1,345
341102893-1	BORING MACHINE	472	050-005	17,700
341102893-2	BORING MACHINE	472	050-005	11,300
341102893-3	BORING MACHINE	472	050-005	8,000

341102893-4	BORING MACHINE	472	050-005	7,800
341102893-5	BORING MACHINE	472	050-005	1,180
341102893-6	BORING MACHINE	472	050-005	920
341511718-1	GRINDING MACHINE	472	050-005	28,700
341511718-10	GRINDING MACHINE	472	050-005	1,310
341511718-11	GRINDING MACHINE	472	050-005	860
341511718-12	GRINDING MACHINE	472	050-005	450
341511718-13	GRINDING MACHINE	472	050-005	15,020
341511718-2	GRINDING MACHINE	472	050-005	8,360
341511718-3	GRINDING MACHINE	472	050-005	5,525
341511718-4	GRINDING MACHINE	472	050-005	9,750
341511718-5	GRINDING MACHINE	472	050-005	1,240
341511718-6	GRINDING MACHINE	472	050-005	3,640
341511718-7	GRINDING MACHINE	472	050-005	1,960
341511718-8	GRINDING MACHINE	472	050-005	880
341511718-9	GRINDING MACHINE	472	050-005	1,860
341630077-1	LATHE	472	050-005	32,750
341630077-2	LATHE	472	050-005	1,600
341630077-3	LATHE	472	050-005	1,060
341630077-4	LATHE	472	050-005	800
341630077-5	LATHE	472	050-005	325
341635670-1	LATHE	472	050-005	17,020
341635670-10	LATHE	472	050-005	4,150
341635670-11	LATHE	472	050-005	1,700
341635670-13	LATHE	472	050-005	1,480
341635670-14	LATHE	472	050-005	1,060
341635670-15	LATHE	472	050-005	4,000
341635670-17	LATHE	472	050-005	3,200
341635670-2	LATHE	472	050-005	13,530
341635670-20	LATHE	472	050-005	530
341635670-21	LATHE	472	050-005	3,850
341635670-23	LATHE	472	050-005	680
341635670-24	LATHE	472	050-005	2,980
341635670-25	LATHE	472	050-005	2,980
341635670-26	LATHE	472	050-005	1,340
341635670-27	LATHE	472	050-005	1,500
341635670-28	LATHE	472	050-005	1,260

341635670-29	LATHE	472	050-005	2,200
341635670-3	LATHE	472	050-005	10,300
341635670-30	LATHE	472	050-005	680
341635670-32	LATHE	472	050-005	5,000
341635670-4	LATHE	472	050-005	10,300
341635670-5	LATHE	472	050-005	1,700
341635670-6	LATHE	472	050-005	3,200
341635670-7	LATHE	472	050-005	6,600
341635670-8	LATHE	472	050-005	5,360
341635670-9	LATHE	472	050-005	9,200
341636377-1	LATHE	472	050-005	12,380
341636377-10	LATHE	472	050-005	6,000
341636377-11	LATHE	472	050-005	2,850
341636377-12	LATHE	472	050-005	4,000
341636377-13	LATHE	472	050-005	1,100
341636377-14	LATHE	472	050-005	4,475
341636377-15	LATHE	472	050-005	4,640
341636377-16	LATHE	472	050-005	12,220
341636377-17	LATHE	472	050-005	4,530
341636377-18	LATHE	472	050-005	2,230
341636377-19	LATHE	472	050-005	2,850
341636377-2	LATHE	472	050-005	11,880
341636377-20	LATHE	472	050-005	1,950
341636377-21	LATHE	472	050-005	1,765
341636377-23	LATHE	472	050-005	2,520
341636377-3	LATHE	472	050-005	17,300
341636377-4	LATHE	472	050-005	6,440
341636377-5	LATHE	472	050-005	33,750
341636377-7	LATHE	472	050-005	2,750
341636377-8	LATHE	472	050-005	5,050
341636377-9	LATHE	472	050-005	12,080
344206152-1	PRESS HYDRAULIC	119	050-005	22,100
344206152-10	PRESS HYDRAULIC	119	050-005	19,580
344206152-2	PRESS HYDRAULIC	119	050-005	24,400
344206152-3	PRESS HYDRAULIC	119	050-005	4,000
344206152-4	PRESS HYDRAULIC	119	050-005	1,800
344206152-5	PRESS HYDRAULIC	119	050-005	19,000

344206152-6	PRESS HYDRAULIC	119	050-005	10,300
344206152-7	PRESS HYDRAULIC	119	050-005	10,000
344206152-8	PRESS HYDRAULIC	119	050-005	3,500
344206152-9	PRESS HYDRAULIC	119	050-005	25,000
344206153-1	PRESS HYDRAULIC	119	050-005	22,100
344206153-2	PRESS HYDRAULIC	119	050-005	25,000
344206153-3	PRESS HYDRAULIC	119	050-005	24,400
344206153-4	PRESS HYDRAULIC	119	050-005	3,500
344206153-5	PRESS HYDRAULIC	119	050-005	1,800
344206153-6	PRESS HYDRAULIC	119	050-005	4,000
344206153-7	PRESS HYDRAULIC	119	050-005	10,300
344206153-8	PRESS HYDRAULIC	119	050-005	10,000
344206153-9	PRESS HYDRAULIC	119	050-005	18,500
344206157-1	PRESS HYDRAULIC	119	050-005	42,600
344206157-10	PRESS HYDRAULIC	119	050-005	1,620
344206157-11	PRESS HYDRAULIC	119	050-005	1,620
344206157-12	PRESS HYDRAULIC	119	050-005	1,200
344206157-13	PRESS HYDRAULIC	119	050-005	7,020
344206157-14	PRESS HYDRAULIC	119	050-005	9,700
344206157-15	PRESS HYDRAULIC	119	050-005	20,440
344206157-2	PRESS HYDRAULIC	119	050-005	47,840
344206157-3	PRESS HYDRAULIC	119	050-005	27,900
344206157-4	PRESS HYDRAULIC	119	050-005	5,500
344206157-5	PRESS HYDRAULIC	119	050-005	7,100
344206157-6	PRESS HYDRAULIC	119	050-005	6,000
344206157-7	PRESS HYDRAULIC	119	050-005	6,000
344206157-8	PRESS HYDRAULIC	119	050-005	27,000
344206157-9	PRESS HYDRAULIC	119	050-005	26,200
341906697-1	RIFLING MACHINE	472	050-006	8,000
341906697-10	RIFLING MACHINE	472	050-006	1,800
341906697-11	RIFLING MACHINE	472	050-006	470
341906697-12	RIFLING MACHINE	472	050-006	470
341906697-13	RIFLING MACHINE	472	050-006	400
341906697-14	RIFLING MACHINE	472	050-006	20,650
341906697-15	RIFLING MACHINE	472	050-006	1,000
341906697-16	RIFLING MACHINE	472	050-006	2,900
341906697-17	RIFLING MACHINE	472	050-006	980

341906697-18	RIFLING MACHINE	472	050-006	2,310
341906697-19	RIFLING MACHINE	472	050-006	9,800
341906697-2	RIFLING MACHINE	472	050-006	31,850
341906697-20	RIFLING MACHINE	472	050-006	550
341906697-21	RIFLING MACHINE	472	050-006	400
341906697-22	RIFLING MACHINE	472	050-006	3,180
341906697-23	RIFLING MACHINE	472	050-006	1,800
341906697-3	RIFLING MACHINE	472	050-006	27,425
341906697-4	RIFLING MACHINE	472	050-006	35,775
341906697-5	RIFLING MACHINE	472	050-006	37,350
341906697-6	RIFLING MACHINE	472	050-006	3,450
341906697-7	RIFLING MACHINE	472	050-006	2,800
341906697-8	RIFLING MACHINE	472	050-006	1,280
341906697-9	RIFLING MACHINE	472	050-006	5,410
344206160-1	PRESS HYDRAULIC	119	050-006	47,840
344206160-10	PRESS HYDRAULIC	119	050-006	1,620
344206160-11	PRESS HYDRAULIC	119	050-006	26,200
344206160-12	PRESS HYDRAULIC	119	050-006	27,000
344206160-13	PRESS HYDRAULIC	119	050-006	4,460
344206160-14	PRESS HYDRAULIC	119	050-006	11,000
344206160-15	PRESS HYDRAULIC	119	050-006	1,200
344206160-16	PRESS HYDRAULIC	119	050-006	20,080
344206160-2	PRESS HYDRAULIC	119	050-006	42,600
344206160-3	PRESS HYDRAULIC	119	050-006	5,500
344206160-4	PRESS HYDRAULIC	119	050-006	6,000
344206160-5	PRESS HYDRAULIC	119	050-006	600
344206160-6	PRESS HYDRAULIC	119	050-006	7,100
344206160-7	PRESS HYDRAULIC	119	050-006	27,900
344206160-8	PRESS HYDRAULIC	119	050-006	9,700
344206160-9	PRESS HYDRAULIC	119	050-006	1,620
344206167-1	PRESS HYDRAULIC	119	050-006	14,120
344206167-10	PRESS HYDRAULIC	119	050-006	29,400
344206167-2	PRESS HYDRAULIC	119	050-006	6,800
344206167-3	PRESS HYDRAULIC	119	050-006	6,400
344206167-4	PRESS HYDRAULIC	119	050-006	1,700
344206167-5	PRESS HYDRAULIC	119	050-006	3,720
344206167-6	PRESS HYDRAULIC	119	050-006	35,400

344206167-7	PRESS HYDRAULIC	119	050-006	17,420
344206167-8	PRESS HYDRAULIC	119	050-006	11,280
344206167-9	PRESS HYDRAULIC	119	050-006	20,260
344206168-1	PRESS HYDRAULIC	119	050-006	14,120
344206168-10	PRESS HYDRAULIC	119	050-006	0
344206168-2	PRESS HYDRAULIC	119	050-006	11,280
344206168-3	PRESS HYDRAULIC	119	050-006	17,420
344206168-4	PRESS HYDRAULIC	119	050-006	3,540
344206168-5	PRESS HYDRAULIC	119	050-006	20,260
344206168-6	PRESS HYDRAULIC	119	050-006	3,720
344206168-7	PRESS HYDRAULIC	119	050-006	6,800
344206168-8	PRESS HYDRAULIC	119	050-006	6,400
344206168-9	PRESS HYDRAULIC	119	050-006	1,700
344206169-1	PRESS HYDRAULIC	119	050-006	14,120
344206169-10	PRESS HYDRAULIC	119	050-006	0
344206169-2	PRESS HYDRAULIC	119	050-006	11,280
344206169-3	PRESS HYDRAULIC	119	050-006	17,420
344206169-4	PRESS HYDRAULIC	119	050-006	3,720
344206169-5	PRESS HYDRAULIC	119	050-006	20,260
344206169-6	PRESS HYDRAULIC	119	050-006	1,700
344206169-7	PRESS HYDRAULIC	119	050-006	35,400
344206169-8	PRESS HYDRAULIC	119	050-006	6,400
344206169-9	PRESS HYDRAULIC	119	050-006	6,800
344206174-1	PRESS HYDRAULIC	119	050-006	33,400
344206174-10	PRESS HYDRAULIC	119	050-006	4,900
344206174-2	PRESS HYDRAULIC	119	050-006	3,530
344206174-3	PRESS HYDRAULIC	119	050-006	3,400
344206174-4	PRESS HYDRAULIC	119	050-006	15,600
344206174-5	PRESS HYDRAULIC	119	050-006	19,700
344206174-6	PRESS HYDRAULIC	119	050-006	9,550
344206174-7	PRESS HYDRAULIC	119	050-006	2,020
344206174-8	PRESS HYDRAULIC	119	050-006	9,550
344206174-9	PRESS HYDRAULIC	119	050-006	14,340
344206175-1	PRESS HYDRAULIC	119	050-006	14,340
344206175-10	PRESS HYDRAULIC	119	050-006	2,020
344206175-11	PRESS HYDRAULIC	119	050-006	4,900
344206175-2	PRESS HYDRAULIC	119	050-006	15,600

344206175-3	PRESS HYDRAULIC	119	050-006	19,700
344206175-4	PRESS HYDRAULIC	119	050-006	9,550
344206175-5	PRESS HYDRAULIC	119	050-006	9,550
344206175-6	PRESS HYDRAULIC	119	050-006	13,800
344206175-7	PRESS HYDRAULIC	119	050-006	17,500
344206175-8	PRESS HYDRAULIC	119	050-006	3,530
344206175-9	PRESS HYDRAULIC	119	050-006	3,400
369002597	TURNING MACHINE	119	050-008	38,700
369002601	TURNING MACHINE	119	050-008	38,650
369002603	TURNING MACHINE	119	050-008	39,000
369002605	TURNING MACHINE	119	050-008	38,700
369002607	TURNING MACHINE	119	050-008	38,700
369002608	TURNING MACHINE	119	050-008	38,650
369002612	TURNING MACHINE	119	050-008	39,000
369002613	TURNING MACHINE	119	050-008	38,600
369002614	TURNING MACHINE	119	050-008	39,000
369002615	TURNING MACHINE	119	050-008	39,000
369002616	TURNING MACHINE	119	050-008	39,000
369002617	TURNING MACHINE	119	050-008	39,000
369002618	TURNING MACHINE	119	050-008	39,000
369002619	TURNING MACHINE	119	050-008	38,700
369002620	TURNING MACHINE	119	050-008	39,000
369002621	TURNING MACHINE	119	050-008	39,000
369002622	TURNING MACHINE	119	050-008	38,700
369002623	TURNING MACHINE	119	050-008	38,700
369002624	TURNING MACHINE	119	050-008	38,700
369002625	TURNING MACHINE	119	050-008	39,200
369002626	TURNING MACHINE	119	050-008	38,700
369002627	TURNING MACHINE	119	050-008	39,000
369002628	TURNING MACHINE	119	050-008	39,000
369002629	TURNING MACHINE	119	050-008	39,000
369002630	TURNING MACHINE	119	050-008	39,000
369002631	TURNING MACHINE	119	050-008	38,700
369002632	TURNING MACHINE	119	050-008	38,700
369002633	TURNING MACHINE	119	050-008	38,700
369002634	TURNING MACHINE	119	050-008	39,000
369002635	TURNING MACHINE	119	050-008	39,000

369002636	TURNING MACHINE	119	050-008	39,000
369003078	TURNING MACHINE	119	050-008	38,700
369003287-1	TURNING MACHINE	119	050-008	20,000
369003287-2	TURNING MACHINE	119	050-008	10,000
369003287-3	TURNING MACHINE	119	050-008	6,500
369003296	BANDING MACHINE	119	050-008	15,000
369003299	BANDING MACHINE	119	050-008	9,127
369003300	BANDING MACHINE	119	050-008	12,000
369003301	BANDING MACHINE	119	050-008	9,127
369003302	BANDING MACHINE	119	050-008	15,000
369003303	BANDING MACHINE	119	050-008	9,127
369003304	BANDING MACHINE	119	050-008	9,500
369003305-1	TURNING MACHINE	119	050-008	18,900
369003305-2	TURNING MACHINE	119	050-008	2,060
369003306-1	TURNING MACHINE	119	050-008	25,000
369003306-2	TURNING MACHINE	119	050-008	0
369003307-1	TURNING MACHINE	119	050-008	25,000
369003307-2	TURNING MACHINE	119	050-008	0
344206110-1	PRESS HYDRAULIC	472	050-009	109,000
344206110-10	PRESS HYDRAULIC	472	050-009	820
344206110-11	PRESS HYDRAULIC	472	050-009	3,350
344206110-12	PRESS HYDRAULIC	472	050-009	2,760
344206110-13	PRESS HYDRAULIC	472	050-009	3,530
344206110-14	PRESS HYDRAULIC	472	050-009	3,000
344206110-15	PRESS HYDRAULIC	472	050-009	400
344206110-2	PRESS HYDRAULIC	472	050-009	3,550
344206110-3	PRESS HYDRAULIC	472	050-009	15,600
344206110-4	PRESS HYDRAULIC	472	050-009	7,450
344206110-5	PRESS HYDRAULIC	472	050-009	6,450
344206110-6	PRESS HYDRAULIC	472	050-009	6,450
344206110-7	PRESS HYDRAULIC	472	050-009	13,000
344206110-8	PRESS HYDRAULIC	472	050-009	2,700
344206110-9	PRESS HYDRAULIC	472	050-009	26,620
344206182-1	PRESS HYDRAULIC	119	050-009	4,820
344206182-2	PRESS HYDAULIC	119	050-009	1,320
344206183-1	PRESS HYDRAULIC	119	050-009	4,820
344206183-2	PRESS HYDRAULIC	119	050-009	1,320

344206412	PRESS HYDRAULIC	119	050-009	39,560
344309692-1	PRESS MECHANICAL	209	050-009	1,125
344309692-10	PRESS MECHANICAL	209	050-009	4,900
344309692-15	PRESS MECHANICAL	209	050-009	3,120
344309692-16	PRESS MECHANICAL	209	050-009	3,120
344309692-17	PRESS MECHANICAL	209	050-009	1,780
344309692-18	PRESS MECHANICAL	209	050-009	1,780
344309692-19	PRESS MECHANICAL	209	050-009	15,150
344309692-2	PRESS MECHANICAL	209	050-009	2,500
344309692-20	PRESS MECHANICAL	209	050-009	9,400
344309692-21	PRESS MECHANICAL	209	050-009	10,350
344309692-25	PRESS MECHANICAL	209	050-009	27,880
344309692-27	PRESS MECHANICAL	209	050-009	40
344309692-28	PRESS MECHANICAL	209	050-009	725
344309692-29	PRESS MECHANICAL	209	050-009	1,175
344309692-3	PRESS MECHANICAL	209	050-009	675
344309692-34	PRESS MECHANICAL	209	050-009	450
344309692-4	PRESS MECHANICAL	209	050-009	5,000
344309692-40	PRESS MECHANICAL	209	050-009	4,160
344309692-41	PRESS MECHANICAL	209	050-009	11,350
344309692-42	PRESS MECHANICAL	209	050-009	1,500
344309692-43	PRESS MECHANICAL	209	050-009	1,520
344309692-44	PRESS MECHANICAL	209	050-009	900
344309692-45	PRESS MECHANICAL	209	050-009	2,400
344309692-46	PRESS MECHANICAL	209	050-009	750
344309692-47	PRESS MECHANICAL	209	050-009	390
344309692-48	PRESS MECHANICAL	209	050-009	1,400
344309692-49	PRESS MECHANICAL	209	050-009	80
344309692-5	PRESS MECHANICAL	209	050-009	1,210
344309692-50	PRESS MECHANICAL	209	050-009	6,000
344309692-51	PRESS MECHANICAL	209	050-009	575
344309692-52	PRESS MECHANICAL	209	050-009	13,100
344309692-53	PRESS MECHANICAL	209	050-009	4,170
344309692-54	PRESS MECHANICAL	209	050-009	2,450
344309692-55	PRESS MECHANICAL	209	050-009	2,900
344309692-56	PRESS MECHANICAL	209	050-009	3,270
344309692-57	PRESS MECHANICAL	209	050-009	50

344309692-58	PRESS MECHANICAL	209	050-009	1,680
344309692-59	PRESS MECHANICAL	209	050-009	8,025
344309692-6	PRESS MECHANICAL	209	050-009	8,000
344309692-60	PRESS MECHANICAL	209	050-009	1,550
344309692-61	PRESS MECHANICAL	209	050-009	2,600
344309692-62	PRESS MECHANICAL	209	050-009	3,180
344309692-7	PRESS MECHANICAL	209	050-009	15,500
344309692-8	PRESS MECHANICAL	209	050-009	17,540
344309692-9	PRESS MECHANICAL	209	050-009	17,540
369002514	TURNING MACHINE	119	050-009	18,500
369002515	TURNING MACHINE	119	050-009	18,500
369002516	TURNING MACHINE	119	050-009	18,500
369002517	TURNING MACHINE	119	050-009	18,500
369002518	TURNING MACHINE	119	050-009	35,000
369002519	TURNING MACHINE	119	050-009	19,140
369002599	TURNING MACHINE	119	050-009	39,000
369002609	TURNING MACHINE	119	050-009	39,000
369002611	TURNING MACHINE	119	050-009	39,000
369003308-1	TURNING MACHINE	119	050-009	19,000
369003308-2	TURNING MACHINE	119	050-009	2,600
369003308-3	TURNING MACHINE	119	050-009	350
369003309-1	TURNING MACHINE	119	050-009	19,000
369003309-2	TURNING MACHINE	119	050-009	0
369003309-3	TURNING MACHINE	119	050-009	350
369003310-1	TURNING MACHINE	119	050-009	19,000
369003310-2	TURNING MACHINE	119	050-009	2,600
369003310-3	TURNING MACHINE	119	050-009	350
369003311-1	TURNING MACHINE	119	050-009	19,000
369003311-2	TURNING MACHINE	119	050-009	0
369003311-3	TURNING MACHINE	119	050-009	350
369003790-1	TURNING MACHINE	119	050-009	25,000
369003790-2	TURNING MACHINE	119	050-009	10,000
369003790-3	TURNING MACHINE	119	050-009	8,000
369003791-1	TURNING MACHINE	119	050-009	20,000
369003791-2	TURNING MACHINE	119	050-009	6,500
369003791-3	TURNING MACHINE	119	050-009	6,500
369003792-1	TURNING MACHINE	119	050-009	20,000

369003792-2	TURNING MACHINE	119	050-009	8,000
369003792-3	TURNING MACHINE	119	050-009	6,500
369003793-1	TURNING MACHINE	119	050-009	20,000
369003793-2	TURNING MACHINE	119	050-009	8,000
369003793-3	TURNING MACHINE	119	050-009	6,500
344206150-1	PRESS HYDRAULIC	209	050-010	76,500
344206150-10	PRESS HYDRAULIC	209	050-010	12,464
344206150-11	PRESS HYDRAULIC	209	050-010	11,802
344206150-12	PRESS HYDRAULIC	209	050-010	4,460
344206150-13	PRESS HYDRAULIC	209	050-010	1,675
344206150-14	PRESS HYDRAULIC	209	050-010	1,675
344206150-15	PRESS HYDRAULIC	209	050-010	3,265
344206150-16	PRESS HYDRAULIC	209	050-010	28,400
344206150-17	PRESS HYDRAULIC	209	050-010	2,755
344206150-2	PRESS HYDRAULIC	209	050-010	45,680
344206150-3	PRESS HYDRAULIC	209	050-010	43,600
344206150-4	PRESS HYDRAULIC	209	050-010	10,730
344206150-5	PRESS HYDRAULIC	209	050-010	10,500
344206150-6	PRESS HYDRAULIC	209	050-010	4,500
344206150-7	PRESS HYDRAULIC	209	050-010	32,100
344206150-8	PRESS HYDRAULIC	209	050-010	31,350
344206150-9	PRESS HYDRAULIC	209	050-010	5,200
344206172-1	PRESS HYDRAULIC	209	050-010	76,500
344206172-10	PRESS HYDRAULIC	209	050-010	4,500
344206172-11	PRESS HYDRAULIC	209	050-010	3,265
344206172-12	PRESS HYDRAULIC	209	050-010	1,675
344206172-13	PRESS HYDRAULIC	209	050-010	1,675
344206172-14	PRESS HYDRAULIC	209	050-010	4,460
344206172-15	PRESS HYDRAULIC	209	050-010	11,802
344206172-16	PRESS HYDRAULIC	209	050-010	27,380
344206172-17	PRESS HYDRAULIC	209	050-010	3,985
344206172-2	PRESS HYDRAULIC	209	050-010	43,600
344206172-3	PRESS HYDRAULIC	209	050-010	45,680
344206172-4	PRESS HYDRAULIC	209	050-010	31,350
344206172-5	PRESS HYDRAULIC	209	050-010	32,100
344206172-6	PRESS HYDRAULIC	209	050-010	5,200
344206172-7	PRESS HYDRAULIC	209	050-010	12,464

344206172-8	PRESS HYDRAULIC	209	050-010	10,500
344206172-9	PRESS HYDRAULIC	209	050-010	10,500
344206809-1	DIE CASTING	120	050-011	2,770
344206809-2	DIE CASTING	120	050-011	75
344206810-1	DIE CASTING	120	050-011	3,430
344206810-2	DIE CASTING	120	050-011	250
344206810-3	DIE CASTING	120	050-011	250
344206890	PRESS HYDRAULIC	120	050-011	2,200
344206891	PRESS HYDRAULIC	120	050-011	2,200
344309266-1	PRESS MECHANICAL	120	050-011	10,250
344309266-2	PRESS MECHANICAL	120	050-011	507
344310029-1	PRESS MECHANICAL	120	050-011	46,000
344310029-2	PRESS MECHANICAL	120	050-011	500
368001030-1	DIE CASTING	120	050-011	19,900
368001030-2	DIE CASTING	120	050-011	4,500
368001030-3	DIE CASTING	120	050-011	790
368001030-4	DIE CASTING	120	050-011	200
368001030-5	DIE CASTING	120	050-011	200
368001031-1	DIE CASTING	120	050-011	19,900
368001031-2	DIE CASTING	120	050-011	4,500
368001031-3	DIE CASTING	120	050-011	790
368001031-4	DIE CASTING	120	050-011	500
368001032-1	DIE CASTING	120	050-011	13,260
368001032-2	DIE CASTING	120	050-011	4,500
368001032-3	DIE CASTING	120	050-011	790
368001032-4	DIE CASTING	120	050-011	200
369001132-1	BASIC ASSEMBLY	120	050-011	4,500
369001132-2	BASIC ASSEMBLY	120	050-011	400
369001133-1	BASIC ASSEMBLY	120	050-011	4,500
369001133-2	BASIC ASSEMBLY	120	050-011	500
369001133-3	BASIC ASSEMBLY	120	050-011	400
369001134-1	BASIC ASSEMBLY	120	050-011	4,500
369001134-2	BASIC ASSEMBLY	120	050-011	400
369001134-3	BASIC ASSEMBLY	120	050-011	500
369001155	BASIC ASSEMBLY	120	050-011	3,200
369001156	BASIC ASSEMBLY	120	050-011	3,200
369001158-1	BASIC ASSEMBLY	120	050-011	3,200

369001158-2	BASIC ASSEMBLY	120	050-011	2,000
369001159-1	BASIC ASSEMBLY	120	050-011	3,200
369001159-2	BASIC ASSEMBLY	120	050-011	2,000
369001162	BASIC ASSEMBLY	120	050-011	2,000
369001163	BASIC ASSEMBLY	120	050-011	2,000
369003312-1	TURNING MACHINE	119	050-011	20,900
369003312-2	TURNING MACHINE	119	050-011	0
369003312-3	TURNING MACHINE	119	050-011	0
369003313-1	TURNING MACHINE	119	050-011	20,900
369003313-2	TURNING MACHINE	119	050-011	0
369003313-3	TURNING MACHINE	119	050-011	0
369003314-1	TURNING MACHINE	119	050-011	19,000
369003314-2	TURNING MACHINE	119	050-011	3,550
369003314-3	TURNING MACHINE	119	050-011	350
369003315-1	TURNING MACHINE	119	050-011	19,000
369003315-2	TURNING MACHINE	119	050-011	3,550
369003315-3	TURNING MACHINE	119	050-011	350
369003317-1	TURNING MACHINE	119	050-011	19,000
369003317-2	TURNING MACHINE	119	050-011	2,800
369003317-3	TURNING MACHINE	119	050-011	350
369003321-1	TURNING MACHINE	119	050-011	19,000
369003321-2	TURNING MACHINE	119	050-011	350
369003321-3	TURNING MACHINE	119	050-011	1,300
369003323-1	TURNING MACHINE	119	050-011	20,900
369003323-2	TURNING MACHINE	119	050-011	0
369003323-3	TURNING MACHINE	119	050-011	0
369003324-1	TURNING MACHINE	119	050-011	20,900
369003324-2	TURNING MACHINE	119	050-011	0
369003324-3	TURNING MACHINE	119	050-011	0
369003325-1	TURNING MACHINE	119	050-011	25,000
369003325-2	TURNING MACHINE	119	050-011	0
369003325-3	TURNING MACHINE	119	050-011	0
369003326-1	TURNING MACHINE	119	050-011	19,000
369003326-2	TURNING MACHINE	119	050-011	0
369003326-3	TURNING MACHINE	119	050-011	350
369003327-1	TURNING MACHINE	119	050-011	20,900
369003327-2	TURNING MACHINE	119	050-011	0

369003327-3	TURNING MACHINE	119	050-011	0
369003328-1	TURNING MACHINE	119	050-011	25,000
369003328-2	TURNING MACHINE	119	050-011	0
369003328-3	TURNING MACHINE	119	050-011	0
369003329-1	TURNING MACHINE	119	050-011	25,250
369003329-2	TURNING MACHINE	119	050-011	0
369003330-1	TURNING MACHINE	119	050-011	19,000
369003330-2	TURNING MACHINE	119	050-011	0
369003330-3	TURNING MACHINE	119	050-011	350
369003331-1	TURNING MACHINE	119	050-011	19,000
369003331-2	TURNING MACHINE	119	050-011	0
369003331-3	TURNING MACHINE	119	050-011	350
369003332-1	TURNING MACHINE	119	050-011	19,000
369003332-2	TURNING MACHINE	119	050-011	2,600
369003332-3	TURNING MACHINE	119	050-011	350
369003333-1	TURNING MACHINE	119	050-011	19,000
369003333-2	TURNING MACHINE	119	050-011	0
369003333-3	TURNING MACHINE	119	050-011	350
369003334-1	TURNING MACHINE	119	050-011	19,000
369003334-2	TURNING MACHINE	119	050-011	2,600
369003334-3	TURNING MACHINE	119	050-011	350
369003336-1	TURNING MACHINE	119	050-011	25,250
369003336-2	TURNING MACHINE	119	050-011	0
369003336-3	TURNING MACHINE	119	050-011	0
369003337-1	TURNING MACHINE	119	050-011	30,000
369003337-2	TURNING MACHINE	119	050-011	1,000
369003338-1	TURNING MACHINE	119	050-011	30,000
369003338-2	TURNING MACHINE	119	050-011	1,000
369003339-1	TURNING MACHINE	119	050-011	30,000
369003339-2	TURNING MACHINE	119	050-011	1,000
369003339-3	TURNING MACHINE	119	050-011	0
369003340-1	TURNING MACHINE	119	050-011	30,000
369003340-2	TURNING MACHINE	119	050-011	1,000
369003340-3	TURNING MACHINE	119	050-011	0
369003341-1	TURNING MACHINE	119	050-011	30,000
369003341-2	TURNING MACHINE	119	050-011	1,000
369003342-1	TURNING MACHINE	119	050-011	30,000

369003342-2	TURNING MACHINE	119	050-011	1,000
369003342-3	TURNING MACHINE	119	050-011	0
369003343-1	TURNING MACHINE	119	050-011	30,000
369003343-2	TURNING MACHINE	119	050-011	1,000
369003343-3	TURNING MACHINE	119	050-011	0
369003344-1	TURNING MACHINE	119	050-011	30,000
369003344-2	TURNING MACHINE	119	050-011	1,000
369003345-1	TURNING MACHINE	119	050-011	30,000
369003345-2	TURNING MACHINE	119	050-011	1,000
369003786-1	TURNING MACHINE	119	050-011	20,000
369003786-2	TURNING MACHINE	119	050-011	4,500
369003786-3	TURNING MACHINE	119	050-011	6,500
369003787-1	TURNING MACHINE	119	050-011	20,000
369003787-2	TURNING MACHINE	119	050-011	10,000
369003787-3	TURNING MACHINE	119	050-011	6,500
369003788-1	TURNING MACHINE	119	050-011	20,000
369003788-2	TURNING MACHINE	119	050-011	10,000
369003788-3	TURNING MACHINE	119	050-011	6,000
369003789-1	TURNING MACHINE	119	050-011	20,000
369003789-2	TURNING MACHINE	119	050-011	10,000
369003789-3	TURNING MACHINE	119	050-011	6,000
341636907-1	LATHE CHUCK	209	050-014	19,800
341636907-2	LATHE CHUCK	209	050-014	1,300
341636907-3	LATHE CHUCK	209	050-014	350
341636908-1	LATHE CHUCK	209	050-014	18,900
341636908-2	LATHE CHUCK	209	050-014	1,300
341636908-3	LATHE CHUCK	209	050-014	250
341636909-1	LATHE CHUCK	209	050-014	21,000
341636909-2	LATHE CHUCK	209	050-014	1,300
341636910-1	LATHE CHUCK	209	050-014	21,000
341636910-2	LATHE CHUCK	209	050-014	1,800
341636911-1	LATHE CHUCK	209	050-014	18,900
341636911-2	LATHE CHUCK	209	050-014	1,300
341636912-1	LATHE CHUCK	209	050-014	19,800
341636912-2	LATHE CHUCK	209	050-014	0
341636912-3	LATHE CHUCK	209	050-014	350
341636913-1	LATHE CHUCK	209	050-014	19,800

341636913-2	LATHE CHUCK	209	050-014	1,300
341636913-3	LATHE CHUCK	209	050-014	0
341636915-1	LATHE CHUCK	209	050-014	19,800
341636915-2	LATHE CHUCK	209	050-014	1,300
341636919-1	LATHE	209	050-014	19,800
341636919-2	LATHE	209	050-014	1,300
341636925-1	LATHE CHUCK	209	050-014	19,800
341636925-2	LATHE CHUCK	209	050-014	1,300
341636925-3	LATHE CHUCK	209	050-014	350
341636926-1	LATHE CHUCK	209	050-014	19,800
341636926-2	LATHE CHUCK	209	050-014	1,300
341636926-3	LATHE CHUCK	209	050-014	0
341636927-1	LATHE CHUCK	209	050-014	19,800
341636927-2	LATHE CHUCK	209	050-014	1,300
341636927-3	LATHE CHUCK	209	050-014	0
341636928-1	LATHE CHUCK	209	050-014	19,800
341636928-2	LATHE CHUCK	209	050-014	1,300
341636928-3	LATHE CHUCK	209	050-014	350
341636929-1	LATHE CHUCK	209	050-014	18,900
341636929-2	LATHE CHUCK	209	050-014	2,060
341636930-1	LATHE CHUCK	209	050-014	18,900
341636930-2	LATHE CHUCK	209	050-014	2,060
341636931-1	LATHE CHUCK	209	050-014	21,100
341636931-2	LATHE CHUCK	209	050-014	1,300
341636931-3	LATHE CHUCK	209	050-014	350
341636932-1	LATHE CHUCK	209	050-014	19,800
341636932-2	LATHE CHUCK	209	050-014	1,300
341636932-3	LATHE CHUCK	209	050-014	350
341636933-1	LATHE CHUCK	209	050-014	19,800
341636933-2	LATHE CHUCK	209	050-014	2,600
341636933-3	LATHE CHUCK	209	050-014	350
341636934-1	LATHE CHUCK	209	050-014	19,800
341636934-2	LATHE CHUCK	209	050-014	0
341636934-3	LATHE CHUCK	209	050-014	1,300
341636935-1	LATHE CHUCK	209	050-014	19,000
341636935-2	LATHE CHUCK	209	050-014	2,100
341636936-1	LATHE CHUCK	209	050-014	18,900

341636936-2	LATHE CHUCK	209	050-014	2,060
341636936-3	LATHE CHUCK	209	050-014	0
341636937-1	LATHE CHUCK	209	050-014	18,900
341636937-2	LATHE CHUCK	209	050-014	2,060
341636941-1	LATHE CHUCK	209	050-014	19,800
341636941-2	LATHE CHUCK	209	050-014	1,300
341636941-3	LATHE CHUCK	209	050-014	350
341921480	TAPPING MACHINE	209	050-014	4,750
341921481	TAPPING MACHINE	209	050-014	4,750
341921482	TAPPING MACHINE	209	050-014	4,750
341921483	TAPPING MACHINE	209	050-014	4,750
341921485	TAPPING MACHINE	209	050-014	4,750
341921486	TAPPING MACHINE	209	050-014	4,750
341921488	TAPPING MACHINE	209	050-014	4,750
341921489	TAPPING MACHINE	209	050-014	4,750
341921490	TAPPING MACHINE	209	050-014	4,750
341921494	TAPPING MACHINE	209	050-014	4,750
341921497	TAPPING MACHINE	209	050-014	4,750
341921518	KEYSEATING MACHINE	209	050-014	4,500
341921520	KEYSEATING MACHINE	209	050-014	4,500
341921997-1	KEYSEATING MACHINE	209	050-014	4,500
341921997-2	KEYSEATING MACHINE	209	050-014	1,000
341922061-1	KEYSEATING MACHINE	209	050-014	4,488
341922061-2	KEYSEATING MACHINE	209	050-014	1,000
343251265	WELDING MACHINE	209	050-014	5,300
344309695-1	PRESS MECHANICAL	209	050-014	2,500
344309695-10	PRESS MECHANICAL	209	050-014	15,500
344309695-11	PRESS MECHANICAL	209	050-014	17,540
344309695-12	PRESS MECHANICAL	209	050-014	17,540
344309695-13	PRESS MECHANICAL	209	050-014	9,400
344309695-2	PRESS MECHANICAL	209	050-014	10,350
344309695-21	PRESS MECHANICAL	209	050-014	5,000
344309695-22	PRESS MECHANICAL	209	050-014	27,880
344309695-23	PRESS MECHANICAL	209	050-014	5,860
344309695-24	PRESS MECHANICAL	209	050-014	3,120
344309695-25	PRESS MECHANICAL	209	050-014	3,120
344309695-26	PRESS MECHANICAL	209	050-014	7,575

344309695-27	PRESS MECHANICAL	209	050-014	1,175
344309695-29	PRESS MECHANICAL	209	050-014	500
344309695-3	PRESS MECHANICAL	209	050-014	1,125
344309695-37	PRESS MECHANICAL	209	050-014	4,050
344309695-38	PRESS MECHANICAL	209	050-014	2,650
344309695-39	PRESS MECHANICAL	209	050-014	450
344309695-4	PRESS MECHANICAL	209	050-014	500
344309695-40	PRESS MECHANICAL	209	050-014	2,500
344309695-41	PRESS MECHANICAL	209	050-014	690
344309695-42	PRESS MECHANICAL	209	050-014	1,200
344309695-43	PRESS MECHANICAL	209	050-014	1,725
344309695-44	PRESS MECHANICAL	209	050-014	50
344309695-45	PRESS MECHANICAL	209	050-014	5,750
344309695-46	PRESS MECHANICAL	209	050-014	2,575
344309695-47	PRESS MECHANICAL	209	050-014	6,000
344309695-48	PRESS MECHANICAL	209	050-014	975
344309695-49	PRESS MECHANICAL	209	050-014	3,200
344309695-50	PRESS MECHANICAL	209	050-014	1,500
344309695-51	PRESS MECHANICAL	209	050-014	1,500
344309695-52	PRESS MECHANICAL	209	050-014	2,500
344309695-53	PRESS MECHANICAL	209	050-014	2,800
344309695-54	PRESS MECHANICAL	209	050-014	3,300
344309695-55	PRESS MECHANICAL	209	050-014	13,100
344309695-56	PRESS MECHANICAL	209	050-014	6,475
344309695-57	PRESS MECHANICAL	209	050-014	2,250
344309695-58	PRESS MECHANICAL	209	050-014	2,100
344309695-59	PRESS MECHANICAL	209	050-014	2,025
344309695-8	PRESS MECHANICAL	209	050-014	1,780
344309695-9	PRESS MECHANICAL	209	050-014	1,780
3442NERIE-1	HYDRAULIC PRESS SYSTEM	209	050-024	20,540
3442NERIE-10	HYDRAULIC PRESS SYSTEM	209	050-024	6,300
3442NERIE-11	HYDRAULIC PRESS SYSTEM	209	050-024	1,208
3442NERIE-12	HYDRAULIC PRESS SYSTEM	209	050-024	1,222
3442NERIE-13	HYDRAULIC PRESS SYSTEM	209	050-024	2,084
3442NERIE-14	HYDRAULIC PRESS SYSTEM	209	050-024	1,806
3442NERIE-15	HYDRAULIC PRESS SYSTEM	209	050-024	24,140
3442NERIE-16	HYDRAULIC PRESS SYSTEM	209	050-024	2,105

3442NERIE-17	HYDRAULIC PRESS SYSTEM	209	050-024	1,616
3442NERIE-18	HYDRAULIC PRESS SYSTEM	209	050-024	689
3442NERIE-19	HYDRAULIC PRESS SYSTEM	209	050-024	1,428
3442NERIE-2	HYDRAULIC PRESS SYSTEM	209	050-024	1,886
3442NERIE-20	HYDRAULIC PRESS SYSTEM	209	050-024	1,428
3442NERIE-21	HYDRAULIC PRESS SYSTEM	209	050-024	4,500
3442NERIE-22	HYDRAULIC PRESS SYSTEM	209	050-024	4,500
3442NERIE-23	HYDRAULIC PRESS SYSTEM	209	050-024	388
3442NERIE-24	HYDRAULIC PRESS SYSTEM	209	050-024	1,148
3442NERIE-25	HYDRAULIC PRESS SYSTEM	209	050-024	48,860
3442NERIE-26	HYDRAULIC PRESS SYSTEM	209	050-024	12,800
3442NERIE-27	HYDRAULIC PRESS SYSTEM	209	050-024	8,250
3442NERIE-28	HYDRAULIC PRESS SYSTEM	209	050-024	1,154
3442NERIE-29	HYDRAULIC PRESS SYSTEM	209	050-024	20,000
3442NERIE-30	HYDRAULIC PRESS SYSTEM	209	050-024	3,200
3442NERIE-31	HYDRAULIC PRESS SYSTEM	209	050-024	1,046
3442NERIE-32	HYDRAULIC PRESS SYSTEM	209	050-024	1,886
3442NERIE-33	HYDRAULIC PRESS SYSTEM	209	050-024	480
3442NERIE-34	HYDRAULIC PRESS SYSTEM	209	050-024	782
3442NERIE-35	HYDRAULIC PRESS SYSTEM	209	050-024	13,600
3442NERIE-36	HYDRAULIC PRESS SYSTEM	209	050-024	35,200
3442NERIE-37	HYDRAULIC PRESS SYSTEM	209	050-024	30,000
3442NERIE-38	HYDRAULIC PRESS SYSTEM	209	050-024	566
3442NERIE-39	HYDRAULIC PRESS SYSTEM	209	050-024	3,394
3442NERIE-40	HYDRAULIC PRESS SYSTEM	209	050-024	848
3442NERIE-41	HYDRAULIC PRESS SYSTEM	209	050-024	1,458
3442NERIE-42	HYDRAULIC PRESS SYSTEM	209	050-024	708
3442NERIE-43	HYDRAULIC PRESS SYSTEM	209	050-024	3,256
3442NERIE-44	HYDRAULIC PRESS SYSTEM	209	050-024	780
3442NERIE-45	HYDRAULIC PRESS SYSTEM	209	050-024	4,138
3442NERIE-46	HYDRAULIC PRESS SYSTEM	209	050-024	2,540
3442NERIE-47	HYDRAULIC PRESS SYSTEM	209	050-024	48,280
3442NERIE-48	HYDRAULIC PRESS SYSTEM	209	050-024	1,346
3442NERIE-49	HYDRAULIC PRESS SYSTEM	209	050-024	1,926
3442NERIE-5	HYDRAULIC PRESS SYSTEM	209	050-024	1,866
3442NERIE-50	HYDRAULIC PRESS SYSTEM	209	050-024	2,072
3442NERIE-51	HYDRAULIC PRESS SYSTEM	209	050-024	35,200

3442NERIE-52	HYDRAULIC PRESS SYSTEM	209	050-024	2,312
3442NERIE-53	HYDRAULIC PRESS SYSTEM	209	050-024	18,000
3442NERIE-54	HYDRAULIC PRESS SYSTEM	209	050-024	438
3442NERIE-55	HYDRAULIC PRESS SYSTEM	209	050-024	2,105
3442NERIE-56	HYDRAULIC PRESS SYSTEM	209	050-024	1,934
3442NERIE-57	HYDRAULIC PRESS SYSTEM	209	050-024	1,452
3442NERIE-58	HYDRAULIC PRESS SYSTEM	209	050-024	1,216
3442NERIE-59	HYDRAULIC PRESS SYSTEM	209	050-024	29,600
3442NERIE-6	HYDRAULIC PRESS SYSTEM	209	050-024	840
3442NERIE-60	HYDRAULIC PRESS SYSTEM	209	050-024	1,366
3442NERIE-61	HYDRAULIC PRESS SYSTEM	209	050-024	18,000
3442NERIE-62	HYDRAULIC PRESS SYSTEM	209	050-024	140
3442NERIE-63	HYDRAULIC PRESS SYSTEM	209	050-024	26,600
3442NERIE-64	HYDRAULIC PRESS SYSTEM	209	050-024	1,066
3442NERIE-65	HYDRAULIC PRESS SYSTEM	209	050-024	798
3442NERIE-66	HYDRAULIC PRESS SYSTEM	209	050-024	41,080
3442NERIE-67	HYDRAULIC PRESS SYSTEM	209	050-024	218
3442NERIE-68	HYDRAULIC PRESS SYSTEM	209	050-024	150
3442NERIE-69	HYDRAULIC PRESS SYSTEM	209	050-024	350
3442NERIE-7	HYDRAULIC PRESS SYSTEM	209	050-024	426
3442NERIE-70	HYDRAULIC PRESS SYSTEM	209	050-024	30,060
3442NERIE-71	HYDRAULIC PRESS SYSTEM	209	050-024	438
3442NERIE-72	HYDRAULIC PRESS SYSTEM	209	050-024	468
3442NERIE-73	HYDRAULIC PRESS SYSTEM	209	050-024	426
3442NERIE-74	HYDRAULIC PRESS SYSTEM	209	050-024	525
3442NERIE-75	HYDRAULIC PRESS SYSTEM	209	050-024	668
3442NERIE-76	HYDRAULIC PRESS SYSTEM	209	050-024	574
3442NERIE-77	HYDRAULIC PRESS SYSTEM	209	050-024	708
3442NERIE-78	HYDRAULIC PRESS SYSTEM	209	050-024	20,000
3442NERIE-79	HYDRAULIC PRESS SYSTEM	209	050-024	19,000
3442NERIE-8	HYDRAULIC PRESS SYSTEM	209	050-024	6,300
3442NERIE-82	HYDRAULIC PRESS SYSTEM	209	050-024	30
3442NERIE-83	HYDRAULIC PRESS SYSTEM	209	050-024	268
3442NERIE-84	HYDRAULIC PRESS SYSTEM	209	050-024	604
3442NERIE-85	HYDRAULIC PRESS SYSTEM	209	050-024	264
3442NERIE-89	HYDRAULIC PRESS SYSTEM	209	050-024	32,800
3442NERIE-9	HYDRAULIC PRESS SYSTEM	209	050-024	3,394

3442NERIE-90	HYDRAULIC PRESS SYSTEM	209	050-024	1,452
3442NERIE-91	HYDRAULIC PRESS SYSTEM	209	050-024	3,166
3442NERIE-92	HYDRAULIC PRESS SYSTEM	209	050-024	24,140
3442NERIE-93	HYDRAULIC PRESS SYSTEM	209	050-024	24,430
3442NERIE-94	HYDRAULIC PRESS SYSTEM	209	050-024	1,450
344309691-1	PRESS MECHANICAL	209	050-024	10,350
344309691-10	PRESS MECHANICAL	209	050-024	15,500
344309691-13	PRESS MECHANICAL	209	050-024	1,780
344309691-14	PRESS MECHANICAL	209	050-024	1,780
344309691-2	PRESS MECHANICAL	209	050-024	2,500
344309691-21	PRESS MECHANICAL	209	050-024	3,120
344309691-22	PRESS MECHANICAL	209	050-024	3,120
344309691-23	PRESS MECHANICAL	209	050-024	30,312
344309691-25	PRESS MECHANICAL	209	050-024	9,400
344309691-26	PRESS MECHANICAL	209	050-024	2,700
344309691-27	PRESS MECHANICAL	209	050-024	3,000
344309691-28	PRESS MECHANICAL	209	050-024	3,790
344309691-3	PRESS MECHANICAL	209	050-024	5,000
344309691-35	PRESS MECHANICAL	209	050-024	450
344309691-36	PRESS MECHANICAL	209	050-024	2,680
344309691-37	PRESS MECHANICAL	209	050-024	5,800
344309691-38	PRESS MECHANICAL	209	050-024	1,500
344309691-39	PRESS MECHANICAL	209	050-024	2,750
344309691-4	PRESS MECHANICAL	209	050-024	640
344309691-40	PRESS MECHANICAL	209	050-024	700
344309691-41	PRESS MECHANICAL	209	050-024	2,600
344309691-42	PRESS MECHANICAL	209	050-024	650
344309691-43	PRESS MECHANICAL	209	050-024	1,500
344309691-44	PRESS MECHANICAL	209	050-024	4,775
344309691-45	PRESS MECHANICAL	209	050-024	13,200
344309691-46	PRESS MECHANICAL	209	050-024	4,070
344309691-47	PRESS MECHANICAL	209	050-024	5,950
344309691-48	PRESS MECHANICAL	209	050-024	1,840
344309691-49	PRESS MECHANICAL	209	050-024	2,000
344309691-5	PRESS MECHANICAL	209	050-024	1,125
344309691-50	PRESS MECHANICAL	209	050-024	1,500
344309691-51	PRESS MECHANICAL	209	050-024	50

344309691-52	PRESS MECHANICAL	209	050-024	2,475
344309691-53	PRESS MECHANICAL	209	050-024	2,800
344309691-54	PRESS MECHANICAL	209	050-024	1,500
344309691-55	PRESS MECHANICAL	209	050-024	3,450
344309691-56	PRESS MECHANICAL	209	050-024	4,400
344309691-57	PRESS MECHANICAL	209	050-024	100
344309691-8	PRESS MECHANICAL	209	050-024	17,540
344309691-9	PRESS MECHANICAL	209	050-024	17,540
344702009	FORMING MACHINE	721	050-024	8,100
341509467-1	GRINDING MACHINE	224	050-026	12,000
341522967-1	GRINDING MACHINE	224	050-026	22,000
341522967-2	GRINDING MACHINE	224	050-026	3,000
341522967-3	GRINDING MACHINE	224	050-026	2,500
341522968-1	GRINDING MACHINE	224	050-026	26,000
341522968-2	GRINDING MACHINE	224	050-026	1,580
341522968-3	GRINDING MACHINE	224	050-026	780
341522968-4	GRINDING MACHINE	224	050-026	2,260
341522968-5	GRINDING MACHINE	224	050-026	0
341522969-1	GRINDING MACHINE	224	050-026	15,000
341522969-2	GRINDING MACHINE	224	050-026	1,500
341522969-3	GRINDING MACHINE	224	050-026	1,810
341522969-4	GRINDING MACHINE	224	050-026	2,000
341523033-1	GRINDING MACHINE	224	050-026	21,000
341523033-2	GRINDING MACHINE	224	050-026	2,850
341523034-1	GRINDING MACHINE	224	050-026	20,720
341523034-2	GRINDING MACHINE	224	050-026	2,780
341615158-1	LATHE CHUCK	224	050-026	28,500
341615158-2	LATHE CHUCK	224	050-026	1,400
341623211-1	LATHE CHUCK	224	050-026	32,500
341623211-2	LATHE CHUCK	224	050-026	1,420
341626810-1	LATHE CHUCK	224	050-026	33,000
341626810-2	LATHE CHUCK	224	050-026	2,160
341638504	LATHE BAR	224	050-026	10,500
341638505	LATHE BAR	224	050-026	10,500
341638506	LATHE BAR	224	050-026	10,500
341638507	LATHE BAR	224	050-026	10,500
341638509	LATHE BAR	224	050-026	10,500

341638510	LATHE BAR	224	050-026	10,500
341638511-1	LATHE BAR	224	050-026	10,500
341638511-2	LATHE BAR	224	050-026	620
341638512-1	LATHE BAR	224	050-026	10,500
341638512-2	LATHE BAR	224	050-026	1,180
341638513-1	LATHE BAR	224	050-026	10,500
341638513-2	LATHE BAR	224	050-026	620
342600574	DEBURR & GAGE MACHINE	224	050-026	6,000
342600575	DEBURR & GAGE MACHINE	224	050-026	2,500
342600576	DEBURR & GAGE MACHINE	224	050-026	2,500
342600577	DEBURR & GAGE MACHINE	224	050-026	2,600
344200119-1	ROLLING MILL	224	050-026	34,500
344200119-2	ROLLING MILL	224	050-026	10,050
344200119-3	ROLLING MILL	224	050-026	4,950
344200119-4	ROLLING MILL	224	050-026	5,925
344200119-5	ROLLING MILL	224	050-026	5,390
344200119-6	ROLLING MILL	224	050-026	300
344309849-1	PRESS MECHANICAL	224	050-026	44,100
344309849-2	PRESS MECHANICAL	224	050-026	3,000
344309850-1	PRESS MECHANICAL	224	050-026	39,000
344309850-2	PRESS MECHANICAL	224	050-026	0
344309850-3	PRESS MECHANICAL	224	050-026	0
344309851	PRESS MECHANICAL	224	050-026	46,000
344309852-1	PRESS MECHANICAL	224	050-026	52,275
344309852-2	PRESS MECHANICAL	224	050-026	820
344309852-3	PRESS MECHANICAL	224	050-026	5,500
344309852-4	PRESS MECHANICAL	224	050-026	4,420
344309853-1	PRESS MECHANICAL	224	050-026	41,400
344309853-2	PRESS MECHANICAL	224	050-026	4,140
344309854-1	PRESS MECHANICAL	224	050-026	35,000
344309854-2	PRESS MECHANICAL	224	050-026	2,000
344309854-3	PRESS MECHANICAL	224	050-026	10,000
344309865-1	PRESS MECHANICAL	224	050-026	52,000
344309865-2	PRESS MECHANICAL	224	050-026	4,600
344309865-3	PRESS MECHANICAL	224	050-026	3,280
344309865-4	PRESS MECHANICAL	224	050-026	2,020
344309869	PRESS MECHANICAL	224	050-026	15,000

344309870	PRESS MECHANICAL	224	050-026	17,600
344309871	PRESS MECHANICAL	224	050-026	17,600
344309872-1	PRESS MECHANICAL	224	050-026	43,700
344309872-2	PRESS MECHANICAL	224	050-026	0
344309872-3	PRESS MECHANICAL	224	050-026	7,400
344309924-1	PRESS MECHANICAL	224	050-026	79,000
344309924-2	PRESS MECHANICAL	224	050-026	8,490
344309924-3	PRESS MECHANICAL	224	050-026	6,650
344309926-1	PRESS MECHANICAL	224	050-026	72,000
344309926-2	PRESS MECHANICAL	224	050-026	6,225
344309926-3	PRESS MECHANICAL	224	050-026	5,675
344309926-4	PRESS MECHANICAL	224	050-026	1,125
344309926-5	PRESS MECHANICAL	224	050-026	2,380
344309926-6	PRESS MECHANICAL	224	050-026	600
344309939-1	PRESS MECHANICAL	224	050-026	68,740
344309939-2	PRESS MECHANICAL	224	050-026	6,430
344309939-3	PRESS MECHANICAL	224	050-026	7,100
344309939-4	PRESS MECHANICAL	224	050-026	3,350
344309939-5	PRESS MECHANICAL	224	050-026	1,250
344309939-6	PRESS MECHANICAL	224	050-026	460
344309939-7	PRESS MECHANICAL	224	050-026	1,150
344309957-1	PRESS MECHANICAL	224	050-026	42,000
344309957-2	PRESS MECHANICAL	224	050-026	3,700
369300173-1	ASSEMBLY MACHINE	224	050-026	8,500
369300173-2	ASSEMBLY MACHINE	224	050-026	4,510
369300181-1	ASSEMBLY MACHINE	224	050-026	82,000
369300181-2	ASSEMBLY MACHINE	224	050-026	2,920
341100449	BORING DRILL	234	050-028	19,500
341100453	BORING DRILL	234	050-028	20,000
341100541-1	BORING MACHINE	234	050-028	12,250
341100541-2	BORING MACHINE	234	050-028	8,000
341100541-3	BORING MACHINE	234	050-028	700
341100541-4	BORING MACHINE	234	050-028	400
341100541-5	BORING MACHINE	234	050-028	0
341101881-1	BORING MACHINE	234	050-028	16,500
341101881-2	BORING MACHINE	234	050-028	2,300
341101881-3	BORING MACHINE	234	050-028	4,220

341101881-4	BORING MACHINE	234	050-028	1,940
341101881-5	BORING MACHINE	234	050-028	2,000
341101881-6	BORING MACHINE	234	050-028	1,420
341104209-1	BORING AND TURNING MACHIN	234	050-028	43,700
341104209-2	BORING AND TURNING MACHIN	234	050-028	1,060
341104209-3	BORING AND TURNING MACHIN	234	050-028	1,950
341104209-4	BORING AND TURNING MACHIN	234	050-028	290
341104209-5	BORING AND TURNING MACHIN	234	050-028	375
341104209-6	BORING AND TURNING MACHIN	234	050-028	610
341104209-7	BORING AND TURNING MACHIN	234	050-028	1,480
341104209-8	BORING AND TURNING MACHIN	234	050-028	1,330
341105139-1	BORING AND TURNING MACHIN	234	050-028	55,000
341105139-2	BORING AND TURNING MACHIN	234	050-028	1,440
341105139-3	BORING AND TURNING MACHIN	234	050-028	700
341105619	BORING DRILL	234	050-028	32,500
341105718-1	BORING MACHINE	234	050-028	8,325
341105718-2	BORING MACHINE	234	050-028	415
341106016-1	BORING AND TURNING MACHIN	234	050-028	39,000
341106016-2	BORING AND TURNING MACHIN	234	050-028	1,600
341106101-1	BORING MACHINE	234	050-028	26,500
341106101-2	BORING MACHINE	234	050-028	2,380
341106101-3	BORING MACHINE	234	050-028	3,340
341106101-4	BORING MACHINE	234	050-028	1,220
341106101-5	BORING MACHINE	234	050-028	500
341106180-1	BORING AND TURNING MACHIN	234	050-028	62,000
341106180-2	BORING AND TURNING MACHIN	234	050-028	1,440
341106186-1	BORING DRILL	234	050-028	35,000
341106186-2	BORING DRILL	234	050-028	3,000
341106297-1	BORING AND TURNING MACHIN	234	050-028	54,000
341106297-2	BORING AND TURNING MACHIN	234	050-028	885
341106297-3	BORING AND TURNING MACHIN	234	050-028	775
341106362-1	BORING AND TURNING MACHIN	234	050-028	36,500
341106362-2	BORING AND TURNING MACHIN	234	050-028	1,110
341106362-3	BORING AND TURNING MACHIN	234	050-028	1,150
341106362-4	BORING AND TURNING MACHIN	234	050-028	500
341106362-5	BORING AND TURNING MACHIN	234	050-028	300
341106489-1	BORING MACHINE	234	050-028	6,900

341106489-2	BORING MACHINE	234	050-028	0
341106778-1	BORING MACHINE	234	050-028	28,000
341106778-2	BORING MACHINE	234	050-028	2,250
341106778-3	BORING MACHINE	234	050-028	1,075
341106778-4	BORING MACHINE	234	050-028	490
341200352-1	BROACHING MACHINE	234	050-028	47,820
341200352-2	BROACHING MACHINE	234	050-028	5,180
341200359-1	BROACHING MACHINE	234	050-028	37,300
341200359-2	BROACHING MACHINE	234	050-028	26,700
341200359-3	BROACHING MACHINE	234	050-028	3,600
341200359-4	BROACHING MACHINE	234	050-028	3,560
341200359-5	BROACHING MACHINE	234	050-028	0
341200359-6	BROACHING MACHINE	234	050-028	0
341200359-7	BROACHING MACHINE	234	050-028	0
341200359-8	BROACHING MACHINE	234	050-028	0
341200359-9	BROACHING MACHINE	234	050-028	0
341200409-1	BROACHING MACHINE	234	050-028	26,000
341200409-2	BROACHING MACHINE	234	050-028	32,375
341200409-3	BROACHING MACHINE	234	050-028	6,050
341200551-1	BROACHING MACHINE	234	050-028	34,900
341200551-2	BROACHING MACHINE	234	050-028	24,600
341200551-3	BROACHING MACHINE	234	050-028	15,750
341200551-4	BROACHING MACHINE	234	050-028	6,900
341200551-5	BROACHING MACHINE	234	050-028	4,080
341200551-6	BROACHING MACHINE	234	050-028	1,540
341200551-7	BROACHING MACHINE	234	050-028	400
341200551-8	BROACHING MACHINE	234	050-028	1,200
341200652-1	BROACHING MACHINE	234	050-028	38,000
341200652-2	BROACHING MACHINE	234	050-028	22,100
341200652-3	BROACHING MACHINE	234	050-028	14,620
341200652-4	BROACHING MACHINE	234	050-028	1,920
341201032-1	BROACHING MACHINE	234	050-028	24,380
341201032-2	BROACHING MACHINE	234	050-028	3,380
341201460-1	BROACHING MACHINE	234	050-028	59,000
341201460-2	BROACHING MACHINE	234	050-028	11,800
341201460-3	BROACHING MACHINE	234	050-028	4,920
341201460-4	BROACHING MACHINE	234	050-028	13,240

341201460-5	BROACHING MACHINE	234	050-028	980
341201460-6	BROACHING MACHINE	234	050-028	2,940
341201460-7	BROACHING MACHINE	234	050-028	1,580
341302187	DRILLING MACHINE	234	050-028	16,100
341317259-1	DRILLING MACHINE	234	050-028	10,270
341317259-2	DRILLING MACHINE	234	050-028	2,450
341317259-3	DRILLING MACHINE	234	050-028	660
341317259-4	DRILLING MACHINE	234	050-028	490
341501961	GRINDING MACHINE	234	050-028	14,700
341502117	GRINDING MACHINE	234	050-028	24,000
341502124-1	GRINDING MACHINE	234	050-028	14,375
341502124-2	GRINDING MACHINE	234	050-028	325
341502135	GRINDING MACHINE	234	050-028	20,000
341502214-1	GRINDING MACHINE	234	050-028	16,000
341502214-2	GRINDING MACHINE	234	050-028	9,000
341502214-3	GRINDING MACHINE	234	050-028	7,000
341502214-4	GRINDING MACHINE	234	050-028	1,800
341502214-5	GRINDING MACHINE	234	050-028	1,500
341502214-6	GRINDING MACHINE	234	050-028	1,600
341502214-7	GRINDING MACHINE	234	050-028	1,800
341502214-8	GRINDING MACHINE	234	050-028	2,000
341504137	GRINDING MACHINE	234	050-028	20,800
341509230-1	GRINDING MACHINE	234	050-029	20,850
341509230-2	GRINDING MACHINE	234	050-029	1,520
341511548-1	GRINDING MACHINE	234	050-029	35,400
341511548-10	GRINDING MACHINE	234	050-029	2,050
341511548-11	GRINDING MACHINE	234	050-029	1,800
341511548-12	GRINDING MACHINE	234	050-029	450
341511548-13	GRINDING MACHINE	234	050-029	1,840
341511548-14	GRINDING MACHINE	234	050-029	1,820
341511548-15	GRINDING MACHINE	234	050-029	1,790
341511548-16	GRINDING MACHINE	234	050-029	0
341511548-2	GRINDING MACHINE	234	050-029	30,200
341511548-3	GRINDING MACHINE	234	050-029	12,900
341511548-4	GRINDING MACHINE	234	050-029	12,750
341511548-5	GRINDING MACHINE	234	050-029	2,330
341511548-6	GRINDING MACHINE	234	050-029	11,260

341511548-7	GRINDING MACHINE	234	050-029	2,650
341511548-8	GRINDING MACHINE	234	050-029	6,480
341511548-9	GRINDING MACHINE	234	050-029	740
341511651-1	GRINDING MACHINE	234	050-029	26,725
341511651-2	GRINDING MACHINE	234	050-029	1,275
341511652	GRINDING MACHINE	234	050-029	25,000
341511729	GRINDING MACHINE	234	050-029	41,620
341511910	GRINDING MACHINE	234	050-029	40,000
341513888-1	GRINDING MACHINE	234	050-029	13,800
341513888-2	GRINDING MACHINE	234	050-029	465
341513898-1	GRINDING MACHINE	234	050-029	0
341513898-2	GRINDING MACHINE	234	050-029	18,360
341518909-1	GRINDING MACHINE	234	050-029	11,600
341518909-2	GRINDING MACHINE	234	050-029	1,980
341518909-3	GRINDING MACHINE	234	050-029	320
341521681-1	GRINDING MACHINE	234	050-029	2,140
341521681-10	GRINDING MACHINE	234	050-029	25,000
341521681-11	GRINDING MACHINE	234	050-029	2,390
341521681-12	GRINDING MACHINE	234	050-029	2,480
341521681-13	GRINDING MACHINE	234	050-029	3,000
341521681-14	GRINDING MACHINE	234	050-029	1,600
341521681-15	GRINDING MACHINE	234	050-029	530
341521681-16	GRINDING MACHINE	234	050-029	785
341521681-17	GRINDING MACHINE	234	050-029	370
341521681-18	GRINDING MACHINE	234	050-029	400
341521681-2	GRINDING MACHINE	234	050-029	2,450
341521681-3	GRINDING MACHINE	234	050-029	2,150
341521681-4	GRINDING MACHINE	234	050-029	2,350
341521681-5	GRINDING MACHINE	234	050-029	2,530
341521681-6	GRINDING MACHINE	234	050-029	35,560
341521681-7	GRINDING MACHINE	234	050-029	10,000
341521681-8	GRINDING MACHINE	234	050-029	16,200
341521681-9	GRINDING MACHINE	234	050-029	9,700
341521745-1	GRINDING MACHINE	234	050-029	16,940
341521745-2	GRINDING MACHINE	234	050-029	0
341521887-1	GRINDING MACHINE	234	050-029	7,000
341521887-2	GRINDING MACHINE	234	050-029	22,000

341521887-3	GRINDING MACHINE	234	050-029	1,180
341521887-4	GRINDING MACHINE	234	050-029	500
341521887-5	GRINDING MACHINE	234	050-029	3,200
341521887-6	GRINDING MACHINE	234	050-029	4,000
341521887-7	GRINDING MACHINE	234	050-029	2,050
341521887-8	GRINDING MACHINE	234	050-029	0
341521887-9	GRINDING MACHINE	234	050-029	0
341521964-1	GRINDING MACHINE	234	050-029	54,900
341521964-2	GRINDING MACHINE	234	050-029	11,900
341521964-3	GRINDING MACHINE	234	050-029	5,620
341521965-1	GRINDING MACHINE	234	050-029	54,900
341521965-2	GRINDING MACHINE	234	050-029	11,900
341521965-3	GRINDING MACHINE	234	050-029	5,620
341521966-1	GRINDING MACHINE	234	050-029	54,900
341521966-2	GRINDING MACHINE	234	050-029	11,900
341521966-3	GRINDING MACHINE	234	050-029	5,620
341522533-1	GRINDING MACHINE	234	050-029	11,000
341522533-10	GRINDING MACHINE	234	050-029	1,270
341522533-11	GRINDING MACHINE	234	050-029	460
341522533-12	GRINDING MACHINE	234	050-029	980
341522533-13	GRINDING MACHINE	234	050-029	663
341522533-2	GRINDING MACHINE	234	050-029	2,580
341522533-3	GRINDING MACHINE	234	050-029	15,950
341522533-4	GRINDING MACHINE	234	050-029	2,000
341522533-5	GRINDING MACHINE	234	050-029	900
341522533-6	GRINDING MACHINE	234	050-029	34,200
341522533-7	GRINDING MACHINE	234	050-029	1,850
341522533-8	GRINDING MACHINE	234	050-029	2,100
341522533-9	GRINDING MACHINE	234	050-029	850
341523570-1	GRINDING MACHINE	234	050-029	31,375
341523570-10	GRINDING MACHINE	234	050-029	1,675
341523570-11	GRINDING MACHINE	234	050-029	1,475
341523570-2	GRINDING MACHINE	234	050-029	13,650
341523570-3	GRINDING MACHINE	234	050-029	2,175
341523570-4	GRINDING MACHINE	234	050-029	5,180
341523570-5	GRINDING MACHINE	234	050-029	2,150
341523570-6	GRINDING MACHINE	234	050-029	2,150

341523570-7	GRINDING MACHINE	234	050-029	2,275
341523570-8	GRINDING MACHINE	234	050-029	3,100
341523570-9	GRINDING MACHINE	234	050-029	750
341600371-1	LATHE ENGINE	234	050-029	32,000
341600371-2	LATHE ENGINE	234	050-029	3,340
341600371-3	LATHE ENGINE	234	050-029	0
341600371-4	LATHE ENGINE	234	050-029	0
341600371-5	LATHE ENGINE	234	050-029	0
341600371-6	LATHE ENGINE	234	050-029	0
341600371-7	LATHE ENGINE	234	050-029	0
341600373	LATHE ENGINE	234	050-029	35,600
341600517	LATHE ENGINE	234	050-029	13,000
341603374-1	LATHE ENGINE	234	050-029	37,000
341603374-2	LATHE ENGINE	234	050-029	600
341603374-3	LATHE ENGINE	234	050-029	300
341607175-1	LATHE BORING	234	050-031	300,000
341607175-10	LATHE BORING	234	050-031	1,720
341607175-11	LATHE BORING	234	050-031	28,900
341607175-12	LATHE BORING	234	050-031	34,150
341607175-13	LATHE BORING	234	050-031	41,100
341607175-14	LATHE BORING	234	050-031	8,000
341607175-15	LATHE BORING	234	050-031	1,500
341607175-16	LATHE BORING	234	050-031	900
341607175-17	LATHE BORING	234	050-031	950
341607175-18	LATHE BORING	234	050-031	2,000
341607175-19	LATHE BORING	234	050-031	2,250
341607175-2	LATHE BORING	234	050-031	12,300
341607175-20	LATHE BORING	234	050-031	2,400
341607175-21	LATHE BORING	234	050-031	3,150
341607175-22	LATHE BORING	234	050-031	2,830
341607175-23	LATHE BORING	234	050-031	4,600
341607175-24	LATHE BORING	234	050-031	10,300
341607175-25	LATHE BORING	234	050-031	3,450
341607175-3	LATHE BORING	234	050-031	2,000
341607175-4	LATHE BORING	234	050-031	1,700
341607175-5	LATHE BORING	234	050-031	2,000
341607175-6	LATHE BORING	234	050-031	6,800

341607175-7	LATHE BORING	234	050-031	3,150
341607175-8	LATHE BORING	234	050-031	1,350
341607175-9	LATHE BORING	234	050-031	2,056
341607178-1	LATHE BORING	234	050-031	33,650
341607178-10	LATHE BORING	234	050-031	450
341607178-11	LATHE BORING	234	050-031	640
341607178-12	LATHE BORING	234	050-031	1,385
341607178-13	LATHE BORING	234	050-031	820
341607178-14	LATHE BORING	234	050-031	650
341607178-15	LATHE BORING	234	050-031	895
341607178-16	LATHE BORING	234	050-031	3,160
341607178-17	LATHE BORING	234	050-031	1,700
341607178-18	LATHE BORING	234	050-031	540
341607178-19	LATHE BORING	234	050-031	2,020
341607178-2	LATHE BORING	234	050-031	66,300
341607178-20	LATHE BORING	234	050-031	1,320
341607178-21	LATHE BORING	234	050-031	1,150
341607178-22	LATHE BORING	234	050-031	290
341607178-23	LATHE BORING	234	050-031	60
341607178-24	LATHE BORING	234	050-031	5,880
341607178-25	LATHE BORING	234	050-031	9,062
341607178-26	LATHE BORING	234	050-031	3,800
341607178-27	LATHE BORING	234	050-031	300
341607178-28	LATHE BORING	234	050-031	335
341607178-29	LATHE BORING	234	050-031	265
341607178-3	LATHE BORING	234	050-031	12,550
341607178-30	LATHE BORING	234	050-031	0
341607178-31	LATHE BORING	234	050-031	225
341607178-32	LATHE BORING	234	050-031	590
341607178-33	LATHE BORING	234	050-031	390
341607178-34	LATHE BORING	234	050-031	415
341607178-4	LATHE BORING	234	050-031	9,150
341607178-5	LATHE BORING	234	050-031	24,750
341607178-6	LATHE BORING	234	050-031	54,350
341607178-7	LATHE BORING	234	050-031	56,300
341607178-8	LATHE BORING	234	050-031	9,950
341607178-9	LATHE BORING	234	050-031	3,050

341612958-1	LATHE HOLLO	234	050-031	32,300
341612958-2	LATHE HOLLO	234	050-031	3,300
341612958-3	LATHE HOLLO	234	050-031	0
341616675-1	LATHE BORING	234	050-031	643,000
341616675-2	LATHE BORING	234	050-031	26,700
341616675-3	LATHE BORING	234	050-031	35,000
341616675-4	LATHE BORING	234	050-031	2,400
341616675-5	LATHE BORING	234	050-031	1,130
341616675-6	LATHE BORING	234	050-031	1,700
341616675-7	LATHE BORING	234	050-031	845
341616675-8	LATHE BORING	234	050-031	1,785
341616679-1	LATHE BORING	234	050-031	63,100
341616679-2	LATHE BORING	234	050-031	31,900
341616679-3	LATHE BORING	234	050-031	26,900
341616679-4	LATHE BORING	234	050-031	2,320
341616679-5	LATHE BORING	234	050-031	1,100
341616679-6	LATHE BORING	234	050-031	2,150
341616679-7	LATHE BORING	234	050-031	1,760
341616679-8	LATHE BORING	234	050-031	1,575
341616679-9	LATHE BORING	234	050-031	1,200
341617371-1	LATHE ENGINE	234	050-031	16,000
341617371-2	LATHE ENGINE	234	050-031	960
341618090-1	LATHE ENGINE	234	050-031	59,440
341618090-10	LATHE ENGINE	234	050-031	2,670
341618090-11	LATHE ENGINE	234	050-031	1,980
341618090-2	LATHE ENGINE	234	050-031	1,540
341618090-3	LATHE BORING	234	050-031	1,825
341618090-4	LATHE ENGINE	234	050-031	1,230
341618090-5	LATHE ENGINE	234	050-031	1,300
341618090-6	LATHE ENGINE	234	050-031	1,285
341618090-7	LATHE ENGINE	234	050-031	1,780
341618090-8	LATHE ENGINE	234	050-031	7,100
341618090-9	LATHE ENGINE	234	050-031	37,000
341618093-1	LATHE BORING	234	050-031	51,100
341618093-10	LATHE BORING	234	050-031	790
341618093-11	LATHE BORING	234	050-031	1,330
341618093-12	LATHE BORING	234	050-031	2,132

341618093-13	LATHE BORING	234	050-031	73
341618093-14	LATHE BORING	234	050-031	3,203
341618093-15	LATHE BORING	234	050-031	809
341618093-16	LATHE BORING	234	050-031	775
341618093-17	LATHE BORING	234	050-031	7,000
341618093-18	LATHE BORING	234	050-031	1,500
341618093-19	LATHE BORING	234	050-031	1,630
341618093-2	LATHE BORING	234	050-031	59,800
341618093-20	LATHE BORING	234	050-031	286
341618093-21	LATHE BORING	234	050-031	2,390
341618093-3	LATHE BORING	234	050-031	25,500
341618093-4	LATHE BORING	234	050-031	26,000
341618093-5	LATHE BORING	234	050-031	4,930
341618093-6	LATHE BORING	234	050-031	1,128
341618093-7	LATHE BORING	234	050-031	550
341618093-8	LATHE BORING	234	050-031	1,210
341618093-9	LATHE BORING	234	050-031	800
341620943-1	LATHE ENGINE	234	050-035	27,560
341620943-2	LATHE ENGINE	234	050-035	17,050
341620943-3	LATHE ENGINE	234	050-035	1,900
341620949	LATHE TRACE	234	050-035	17,000
341622949-1	LATHE BORING	234	050-035	9,300
341622949-10	LATHE BORING	234	050-035	3,500
341622949-11	LATHE BORING	234	050-035	3,900
341622949-12	LATHE BORING	234	050-035	1,100
341622949-13	LATHE BORING	234	050-035	2,100
341622949-2	LATHE BORING	234	050-035	3,550
341622949-3	LATHE BORING	234	050-035	17,120
341622949-4	LATHE BORING	234	050-035	2,500
341622949-5	LATHE BORING	234	050-035	6,500
341622949-6	LATHE BORING	234	050-035	3,550
341622949-7	LATHE BORING	234	050-035	6,300
341622949-8	LATHE BORING	234	050-035	2,260
341622949-9	LATHE BORING	234	050-035	4,830
341623271-1	LATHE HOLLO	234	050-035	39,600
341623271-2	LATHE HOLLO	234	050-035	3,200
341623271-3	LATHE HOLLO	234	050-035	2,550

341628352-1	LATHE BORING	234	050-035	60,000
341628352-10	LATHE BORING	234	050-035	2,897
341628352-11	LATHE BORING	234	050-035	650
341628352-2	LATHE BORING	234	050-035	21,000
341628352-3	LATHE BORING	234	050-035	5,300
341628352-4	LATHE BORING	234	050-035	3,500
341628352-5	LATHE BORING	234	050-035	2,100
341628352-6	LATHE BORING	234	050-035	2,015
341628352-7	LATHE BORING	234	050-035	3,700
341628352-8	LATHE BORING	234	050-035	2,300
341628352-9	LATHE BORING	234	050-035	1,800
341628356-1	LATHE ENGINE	234	050-035	70,000
341628356-2	LATHE ENGINE	234	050-035	2,800
341628357	LATHE ENGINE	234	050-035	55,000
341628366	LATHE ENGINE	234	050-035	55,000
341628368	LATHE ENGINE	234	050-035	55,000
341628369	LATHE ENGINE	234	050-035	55,000
341628370-1	LATHE ENGINE	234	050-035	53,970
341628370-2	LATHE ENGINE	234	050-035	1,130
341628375-1	LATHE ENGINE	234	050-035	53,970
341628375-2	LATHE ENGINE	234	050-035	1,127
341628376-1	LATHE ENGINE	234	050-035	53,970
341628376-2	LATHE ENGINE	234	050-035	1,500
341628380-1	LATHE ENGINE	234	050-035	70,000
341628380-2	LATHE ENGINE	234	050-035	2,800
341628381-1	LATHE ENGINE	234	050-035	70,000
341628381-2	LATHE ENGINE	234	050-035	1,500
341628381-3	LATHE ENGINE	234	050-035	1,500
341628382-1	LATHE ENGINE	234	050-035	70,000
341628382-2	LATHE ENGINE	234	050-035	2,800
341618130-1	LATHE BORING	234	050-036	62,500
341618130-2	LATHE BORING	234	050-036	32,200
341618130-3	LATHE BORING	234	050-036	27,500
341618130-4	LATHE BORING	234	050-036	2,300
341618130-5	LATHE BORING	234	050-036	2,440
341618130-6	LATHE BORING	234	050-036	1,130
341618130-7	LATHE BORING	234	050-036	1,995

341618130-8	LATHE BORING	234	050-036	1,465
341618663-1	LATHE BORING	234	050-036	62,260
341618663-10	LATHE BORING	234	050-036	4,000
341618663-11	LATHE BORING	234	050-036	2,200
341618663-12	LATHE BORING	234	050-036	1,600
341618663-13	LATHE BORING	234	050-036	2,100
341618663-14	LATHE BORING	234	050-036	5,900
341618663-15	LATHE BORING	234	050-036	40,100
341618663-2	LATHE BORING	234	050-036	33,800
341618663-3	LATHE BORING	234	050-036	26,400
341618663-4	LATHE BORING	234	050-036	3,000
341618663-5	LATHE BORING	234	050-036	1,500
341618663-6	LATHE BORING	234	050-036	62,260
341618663-7	LATHE BORING	234	050-036	5,000
341618663-8	LATHE BORING	234	050-036	0
341618663-9	LATHE BORING	234	050-036	800
341618666-1	LATHE BORING	234	050-036	58,000
341618666-10	LATHE BORING	234	050-036	850
341618666-11	LATHE BORING	234	050-036	1,360
341618666-12	LATHE BORING	234	050-036	2,170
341618666-13	LATHE BORING	234	050-036	82
341618666-14	LATHE BORING	234	050-036	3,232
341618666-15	LATHE BORING	234	050-036	750
341618666-16	LATHE BORING	234	050-036	770
341618666-17	LATHE BORING	234	050-036	5,800
341618666-18	LATHE BORING	234	050-036	1,660
341618666-19	LATHE BORING	234	050-036	1,640
341618666-2	LATHE BORING	234	050-036	56,800
341618666-3	LATHE BORING	234	050-036	25,200
341618666-4	LATHE BORING	234	050-036	25,200
341618666-5	LATHE BORING	234	050-036	4,845
341618666-6	LATHE BORING	234	050-036	3,918
341618666-7	LATHE BORING	234	050-036	580
341618666-8	LATHE BORING	234	050-036	930
341618666-9	LATHE BORING	234	050-036	545
341618673	LATHE ENGINE	234	050-036	21,000
341619005-1	LATHE BORING	234	050-036	7,700

341619005-10	LATHE BORING	234	050-036	1,120
341619005-2	LATHE BORING	234	050-036	12,350
341619005-3	LATHE BORING	234	050-036	7,250
341619005-4	LATHE BORING	234	050-036	1,600
341619005-5	LATHE BORING	234	050-036	1,050
341619005-6	LATHE BORING	234	050-036	17,700
341619005-7	LATHE BORING	234	050-036	1,350
341619005-8	LATHE BORING	234	050-036	850
341619005-9	LATHE BORING	234	050-036	1,880
341619371-1	LATHE HOLLO	234	050-036	25,000
341619371-2	LATHE HOLLO	234	050-036	19,000
341619371-3	LATHE HOLLO	234	050-036	1,000
341619371-4	LATHE HOLLO	234	050-036	500
341619470	LATHE ENGINE	234	050-036	38,000
341619471	LATHE ENGINE	234	050-036	38,000
341619472	LATHE ENGINE	234	050-036	37,700
341619503-1	LATHE ENGINE	234	050-036	43,750
341619503-2	LATHE ENGINE	234	050-036	1,310
341619505	LATHE ENGINE	234	050-036	44,200
341619506	LATHE ENGINE	234	050-036	48,000
341620925-1	LATHE BORING	234	050-036	14,920
341620925-2	LATHE BORING	234	050-036	12,020
341620925-3	LATHE BORING	234	050-036	12,500
341620925-4	LATHE BORING	234	050-036	1,214
341620925-5	LATHE BORING	234	050-036	2,030
341620925-6	LATHE BORING	234	050-036	1,000
341620925-7	LATHE BORING	234	050-036	2,350
341504697	GRINDING MACHINE	234	050-038	20,800
341507142-1	GRINDING MACHINE	234	050-038	45,500
341507142-2	GRINDING MACHINE	234	050-038	9,850
341507165-1	GRINDING MACHINE	234	050-038	21,500
341507165-2	GRINDING MACHINE	234	050-038	4,575
341604263-1	LATHE ENGINE	234	050-038	23,600
341604263-2	LATHE ENGINE	234	050-038	0
341628386-1	LATHE ENGINE	234	050-038	72,000
341628386-2	LATHE ENGINE	234	050-038	2,800
341628386-3	LATHE ENGINE	234	050-038	3,850

341628386-4	LATHE ENGINE	234	050-038	4,600
341714848	MILLING MACHINE	234	050-038	30,000
341715049	MILLING MACHINE	234	050-038	19,000
341906696-1	RIFLING MACHINE	234	050-038	1,550
341906696-10	RIFLING MACHINE	234	050-038	3,550
341906696-11	RIFLING MACHINE	234	050-038	1,212
341906696-12	RIFLING MACHINE	234	050-038	1,480
341906696-13	RIFLING MACHINE	234	050-038	2,920
341906696-14	RIFLING MACHINE	234	050-038	1,200
341906696-15	RIFLING MACHINE	234	050-038	11,500
341906696-16	RIFLING MACHINE	234	050-038	490
341906696-17	RIFLING MACHINE	234	050-038	1,030
341906696-18	RIFLING MACHINE	234	050-038	4,200
341906696-2	RIFLING MACHINE	234	050-038	7,900
341906696-3	RIFLING MACHINE	234	050-038	43,000
341906696-4	RIFLING MACHINE	234	050-038	43,150
341906696-5	RIFLING MACHINE	234	050-038	5,500
341906696-6	RIFLING MACHINE	234	050-038	43,400
341906696-7	RIFLING MACHINE	234	050-038	40,800
341906696-8	RIFLING MACHINE	234	050-038	522
341906696-9	RIFLING MACHINE	234	050-038	2,200
344202126-1	PRESS HYDRAULIC	472	050-038	120,000
344202126-10	PRESS HYDRAULIC	472	050-038	7,000
344202126-11	PRESS HYDRAULIC	472	050-038	3,870
344202126-12	PRESS HYDRAULIC	472	050-038	2,630
344202126-13	PRESS HYDRAULIC	472	050-038	10,270
344202126-14	PRESS HYDRAULIC	472	050-038	4,825
344202126-15	PRESS HYDRAULIC	472	050-038	4,800
344202126-16	PRESS HYDRAULIC	472	050-038	2,540
344202126-17	PRESS HYDRAULIC	472	050-038	3,050
344202126-18	PRESS HYDRAULIC	472	050-038	2,930
344202126-19	PRESS HYDRAULIC	472	050-038	3,060
344202126-2	PRESS HYDRAULIC	472	050-038	32,550
344202126-20	PRESS HYDRAULIC	472	050-038	4,200
344202126-21	PRESS HYDRAULIC	472	050-038	5,000
344202126-3	PRESS HYDRAULIC	472	050-038	3,105
344202126-4	PRESS HYDRAULIC	472	050-038	1,925

344202126-5	PRESS HYDRAULIC	472	050-038	1,955
344202126-6	PRESS HYDRAULIC	472	050-038	2,550
344202126-7	PRESS HYDRAULIC	472	050-038	470
344202126-8	PRESS HYDRAULIC	472	050-038	9,760
344202126-9	PRESS HYDRAULIC	472	050-038	9,760
344202174-1	PRESS HYDRAULIC	234	050-038	61,000
344202174-2	PRESS HYDRAULIC	234	050-038	43,220
344202174-3	PRESS HYDRAULIC	234	050-038	16,000
344202174-4	PRESS HYDRAULIC	234	050-038	3,700
344202174-5	PRESS HYDRAULIC	234	050-038	13,800
344202174-6	PRESS HYDRAULIC	234	050-038	3,700
344205911-1	PRESS HYDRAULIC	234	050-038	18,100
344205911-2	PRESS HYDRAULIC	234	050-038	4,700
344206347-1	SWAGING MACHINE	234	050-038	3,800
344206347-2	SWAGING MACHINE	234	050-038	2,350
344206347-3	SWAGING MACHINE	234	050-038	7,600
344206347-4	SWAGING MACHINE	234	050-038	15,800
344206347-5	SWAGING MACHINE	234	050-038	10,600
344206347-6	SWAGING MACHINE	234	050-038	17,600
344206347-7	SWAGING MACHINE	234	050-038	13,300
368000369-1	BLAST CLEANING	234	050-038	6,100
368000369-2	BLAST CLEANING	234	050-038	5,600
443000473-1	OVEN WALK IN	234	050-038	79,000
443000473-2	OVEN WALK IN	234	050-038	11,500
443000473-3	OVEN WALK IN	234	050-038	5,600
443000473-4	OVEN WALK IN	234	050-038	3,860
443000473-5	OVEN WALK-IN	234	050-038	9,250
443000473-6	OVEN WALK-IN	234	050-038	2,400
443000473-7	OVEN WALK-IN	234	050-038	12,000
443000473-8	OVEN WALK-IN	234	050-038	1,400
443000475-1	OVEN WALK-IN	234	050-038	78,500
443000475-2	OVEN WALK-IN	234	050-038	11,500
443000475-3	OVEN WALK-IN	234	050-038	5,600
443000475-4	OVEN WALK-IN	234	050-038	3,860
443000475-5	OVEN WALK-IN	234	050-038	8,620
443000475-6	OVEN WALK-IN	234	050-038	2,400
443000475-7	OVEN WALK-IN	234	050-038	12,000

443000475-8	OVEN WALK-IN	234	050-038	1,325
443000476-1	OVEN WALK-IN	234	050-038	3,560
443000476-2	OVEN WALK-IN	234	050-038	11,500
443000476-3	OVEN WALK-IN	234	050-038	5,680
443000476-4	OVEN WALK-IN	234	050-038	7,850
443000476-5	OVEN WALK-IN	234	050-038	9,494
443000476-6	OVEN WALK-IN	234	050-038	2,400
443000476-7	OVEN WALK-IN	234	050-038	12,000
443000476-8	OVEN WALK-IN	234	050-038	1,325
443000476-9	OVEN WALK-IN	234	050-038	60
344201253-1	PRESS HYDRAULIC	472	050-044	30,000
344201253-2	PRESS HYDRAULIC	472	050-044	0
344201253-3	PRESS HYDRAULIC	472	050-044	0
344202172-1	PRESS HYDRAULIC	472	050-044	78,500
344202172-2	PRESS HYDRAULIC	472	050-044	0
344202172-3	PRESS HYDRAULIC	472	050-044	0
344600840-1	SWAGING MACHINE	472	050-044	28,000
344600840-10	SWAGING MACHINE	472	050-044	2,394
344600840-11	SWAGING MACHINE	472	050-044	1,332
344600840-12	SWAGING MACHINE	472	050-044	1,000
344600840-13	SWAGING MACHINE	472	050-044	2,358
344600840-14	SWAGING MACHINE	472	050-044	950
344600840-15	SWAGING MACHINE	472	050-044	4,460
344600840-16	SWAGING MACHINE	472	050-044	5,500
344600840-17	SWAGING MACHINE	472	050-044	1,240
344600840-18	SWAGING MACHINE	472	050-044	5,400
344600840-19	SWAGING MACHINE	472	050-044	6,426
344600840-2	SWAGING MACHINE	472	050-044	1,940
344600840-20	SWAGING MACHINE	472	050-044	13,500
344600840-21	WASHER AND DEGREASER	472	050-044	696
344600840-22	WASHER AND DEGREASER	472	050-044	1,134
344600840-23	WASHER AND DEGREASER	472	050-044	1,140
344600840-24	WASHER AND DEGREASER	472	050-044	1,680
344600840-25	WASHER AND DEGREASER	472	050-044	900
344600840-26	WASHER AND DEGREASER	472	050-044	660
344600840-27	WASHER AND DEGREASER	472	050-044	720
344600840-3	SWAGING MACHINE	472	050-044	3,000

344600840-4	SWAGING MACHINE	472	050-044	6,400
344600840-5	SWAGING MACHINE	472	050-044	13,000
344600840-6	SWAGING MACHINE	472	050-044	49,840
344600840-7	SWAGING MACHINE	472	050-044	2,408
344600840-8	SWAGING MACHINE	472	050-044	2,450
344600840-9	SWAGING MACHINE	472	050-044	2,424
CD01	CONVEYOR CHAIN DRIVE	0	050-046	0
CD02	CONVEYOR CHAIN DRIVE	0	050-046	0
CONVCORN01	PROJECTILE CONVEYOR	0	050-046	0
CONVCORN02	CONVEYOR CORNERS	0	050-046	0
EP01	ELECT PANEL GAM 15 & 17	0	050-046	0
EP02	ELECT PANEL GAM 16	0	050-046	0
EP03	ELECT PANEL GAM 19 & 20	0	050-046	0
EP04	ELECT PANEL GAM 18 & 14	0	050-046	0
EP05	ELECT PANEL GAM 12 & 13	0	050-046	0
GAM CAM	CAMERA GAM 11 THRU 20	0	050-046	0
GAM MON	MONITORS GAM 11 THRU 20	0	050-046	0
GAM111153-1	CONVEYOR RACEWAY	0	050-046	0
GAM111153-10	CONVEYOR CHAIN DRIVE	0	050-046	0
GAM111153-11	HYD UNIT	0	050-046	0
GAM111153-12	PALLET TRANSFORMER	0	050-046	0
GAM111153-13	4 CORNERS	0	050-046	0
GAM111153-14	STA 7 LOCK PLACE FEED	0	050-046	0
GAM111153-15	STA 3 FUZE	0	050-046	0
GAM111153-16	STA 6 PIN	0	050-046	0
GAM111153-17	STA 11 OUTFEED	0	050-046	0
GAM111153-18	STA 7 LOCK PLACE FEED	0	050-046	0
GAM111153-19	PALLET TRANSFORMER	0	050-046	0
GAM111153-2	STA 4 RIBBON	0	050-046	0
GAM111153-20	PALLET TRANSFORMER	0	050-046	0
GAM111153-21	PALLET TRANSFORMER	0	050-046	0
GAM111153-3	4 ROBOT CONTROLLERS	0	050-046	0
GAM111153-4	2 ROBOTS A	0	050-046	0
GAM111153-5	2 ROBOTS B	0	050-046	0
GAM111153-6	STA 2 FUZE UNTRAY	0	050-046	0
GAM111153-7	STA 5 RIBBON	0	050-046	0
GAM111153-8	STA 1 INFEED	0	050-046	0

GAM111153-9	GUARDS	0	050-046	0
GAM121154-1	STA 7 LOCK PLACE FEED	0	050-046	0
GAM121154-10	4 ROBOT CONTROLLERS	0	050-046	0
GAM121154-11	CONVEYOR RACEWAY	0	050-046	0
GAM121154-12	PALLET TRANSFORMER	0	050-046	0
GAM121154-13	STA 2 FUZE UNTRAY	0	050-046	0
GAM121154-14	CONVEYOR CHAIN DRIVE	0	050-046	0
GAM121154-15	STA 6 SAFETY CLIP	0	050-046	0
GAM121154-16	STA 11 OUTFEED	0	050-046	0
GAM121154-17	STA 3 FUZE	0	050-046	0
GAM121154-18	PALLET TRANSFORMER	0	050-046	0
GAM121154-19	PALLET TRANSFORMER	0	050-046	0
GAM121154-2	STA 5 RIBBON	0	050-046	0
GAM121154-20	PALLET TRANSFORMER	0	050-046	0
GAM121154-21	STA 7 LOCK PLACE FEED	0	050-046	0
GAM121154-3	HYD UNIT	0	050-046	0
GAM121154-4	STA 1 INFEED	0	050-046	0
GAM121154-5	4 CORNERS	0	050-046	0
GAM121154-6	GUARDS	0	050-046	0
GAM121154-7	STA 4 RIBBON	0	050-046	0
GAM121154-8	2 ROBOTS A	0	050-046	0
GAM121154-9	2 ROBOTS B	0	050-046	0
GAM131155-1	HYD UNIT	0	050-046	0
GAM131155-10	PALLET TRANSFORMER	0	050-046	0
GAM131155-11	GUARDS	0	050-046	0
GAM131155-12	STA 5 RIBBON	0	050-046	0
GAM131155-13	STA 7 LOCK PLACE FEED	0	050-046	0
GAM131155-14	STA 2 FUZE UNTRAY	0	050-046	0
GAM131155-15	STA 4 RIBBON	0	050-046	0
GAM131155-16	STA 11 OUTFEED	0	050-046	0
GAM131155-17	PALLET TRANSFORMER	0	050-046	0
GAM131155-18	PALLET TRANSFORMER	0	050-046	0
GAM131155-19	PALLET TRANSFORMER	0	050-046	0
GAM131155-2	STA 3 FUZE	0	050-046	0
GAM131155-20	STA 6 CLIP	0	050-046	0
GAM131155-21	STA 7 LOCK PLACE FEED	0	050-046	0
GAM131155-3	CONVEYOR CHAIN DRIVE	0	050-046	0

GAM131155-4	4 CORNERS	0	050-046	0
GAM131155-5	STA 1 INFEED	0	050-046	0
GAM131155-6	4 ROBOT CONTROLLERS	0	050-046	0
GAM131155-7	2 ROBOTS A	0	050-046	0
GAM131155-8	2 ROBOTS B	0	050-046	0
GAM131155-9	CONVEYOR RACEWAY	0	050-046	0
GAM141156-1	STA 1 INFEED	0	050-046	0
GAM141156-10	2 ROBOTS A	0	050-046	0
GAM141156-11	2 ROBOTS B	0	050-046	0
GAM141156-12	CONVEYOR RACEWAY	0	050-046	0
GAM141156-13	4 ROBOT CONTROLLERS	0	050-046	0
GAM141156-14	GUARDS	0	050-046	0
GAM141156-15	STA 11 OUTFEED	0	050-046	0
GAM141156-16	STA 6 RIBBON	0	050-046	0
GAM141156-17	STA 7 LOCK PLATE FEEDER	0	050-046	0
GAM141156-18	STA 4 RIBBON	0	050-046	0
GAM141156-19	PALLET TRANSFORMER	0	050-046	0
GAM141156-2	STA 2 UNTRAY	0	050-046	0
GAM141156-20	PALLET TRANSFORMER	0	050-046	0
GAM141156-21	PALLET TRANSFORMER	0	050-046	0
GAM141156-3	PALLET TRANSFORMER	0	050-046	0
GAM141156-4	HYD UNIT	0	050-046	0
GAM141156-5	STA 5 FUZE	0	050-046	0
GAM141156-6	4 CORNERS	0	050-046	0
GAM141156-7	CONVEYOR CHAIN DRIVE	0	050-046	0
GAM141156-8	STA 7 LOCK PLATE FEEDER	0	050-046	0
GAM141156-9	STA 3 FUZE	0	050-046	0
GAM151157-1	4 CORNERS	0	050-046	0
GAM151157-10	PALLET TRANSFORMER	0	050-046	0
GAM151157-11	GUARDS	0	050-046	0
GAM151157-12	RACEWAY CONVEYOR	0	050-046	0
GAM151157-13	2 ROBOTS A	0	050-046	0
GAM151157-14	2 ROBOTS B	0	050-046	0
GAM151157-15	STA 6 CLIP	0	050-046	0
GAM151157-16	STA 7 PLACE LOCK FEEDER	0	050-046	0
GAM151157-17	STA 11 OUTFEED	0	050-046	0
GAM151157-18	STA 3 FUZE	0	050-046	0

GAM151157-19	PALLET TRANSFORMER	0	050-046	0
GAM151157-2	HYD UNIT	0	050-046	0
GAM151157-20	PALLET TRANSFORMER	0	050-046	0
GAM151157-21	PALLET TRANSFORMER	0	050-046	0
GAM151157-3	STA 5 RIBBON	0	050-046	0
GAM151157-4	STA 7 PLACE LOCK FEEDER	0	050-046	0
GAM151157-5	CONVEYOR CHAIN DRIVE	0	050-046	0
GAM151157-6	STA 1 INFEED	0	050-046	0
GAM151157-7	STA 2 FUZE UNTRAY	0	050-046	0
GAM151157-8	STA 4 RIBBON	0	050-046	0
GAM151157-9	4 ROBOT CONTROLLERS	0	050-046	0
GAM161158-1	4 CORNERS	0	050-046	0
GAM161158-10	2 ROBOTS B	0	050-046	0
GAM161158-11	4 ROBOT CONTROLLERS	0	050-046	0
GAM161158-12	STA 3 FUZE	0	050-046	0
GAM161158-13	PALLET TRANSFORMER	0	050-046	0
GAM161158-14	STA 5 RIBBON	0	050-046	0
GAM161158-15	STA 7 PLACE LOCK FEEDER	0	050-046	0
GAM161158-16	STA 11 OUTFEED	0	050-046	0
GAM161158-17	STA 4 RIBBON	0	050-046	0
GAM161158-18	PALLET TRANSFORMER	0	050-046	0
GAM161158-19	PALLET TRANSFORMER	0	050-046	0
GAM161158-2	CONVEYOR CHAIN DRIVE	0	050-046	0
GAM161158-20	PALLET TRANSFORMER	0	050-046	0
GAM161158-21	STA 6 CLIP	0	050-046	0
GAM161158-3	STA 7 PLACE LOCK FEEDER	0	050-046	0
GAM161158-4	STA 2 FUZE UNTRAY	0	050-046	0
GAM161158-5	HYD UNIT	0	050-046	0
GAM161158-6	STA 1 INFEED	0	050-046	0
GAM161158-7	GUARDS	0	050-046	0
GAM161158-8	RACEWAY CONVEYOR	0	050-046	0
GAM161158-9	2 ROBOTS A	0	050-046	0
GAM171159-1	CONVEYOR CHAIN DRIVE	0	050-046	0
GAM171159-10	2 ROBOTS A	0	050-046	0
GAM171159-11	2 ROBOTS B	0	050-046	0
GAM171159-12	4 ROBOT CONTROLLERS	0	050-046	0
GAM171159-13	CONVEYOR RACEWAY	0	050-046	0

GAM171159-14	STA 7 SLIDER LOCK/PLACE	0	050-046	0
GAM171159-15	STA 3 FUZE	0	050-046	0
GAM171159-16	STA 6 PIN REMOVE	0	050-046	0
GAM171159-17	STA 11 OUTFEED	0	050-046	0
GAM171159-18	PALLET TRANSFORMERS	0	050-046	0
GAM171159-19	PALLET TRANSFORMERS	0	050-046	0
GAM171159-2	FUZE UNTRAY	0	050-046	0
GAM171159-20	PALLET TRANSFORMERS	0	050-046	0
GAM171159-21	STA 7 SLIDER LOCK/PLACE	0	050-046	0
GAM171159-3	STA 4 RIBBON	0	050-046	0
GAM171159-4	STA 5 RIBBON	0	050-046	0
GAM171159-5	4 CORNERS	0	050-046	0
GAM171159-6	STA 1 INFEED	0	050-046	0
GAM171159-7	HYD UNIT	0	050-046	0
GAM171159-8	GUARDS	0	050-046	0
GAM171159-9	PALLET TRANSFORMER	0	050-046	0
GAM181160-1	STA 1 INFEED	0	050-046	0
GAM181160-10	GUARDS	0	050-046	0
GAM181160-11	PALLET TRANSFORMER	0	050-046	0
GAM181160-12	STA 2 FUZE UNTRAY	0	050-046	0
GAM181160-13	4 ROBOT CONTROLLERS	0	050-046	0
GAM181160-14	STA 5 RIBBON	0	050-046	0
GAM181160-15	STA 11 OUTFEED	0	050-046	0
GAM181160-16	STA 3 FUZE	0	050-046	0
GAM181160-17	STA 7 SLIDER FEEDER	0	050-046	0
GAM181160-18	PALLET TRANSFORMER	0	050-046	0
GAM181160-19	PALLET TRANSFORMER	0	050-046	0
GAM181160-2	CONVEYOR CHAIN DRIVE	0	050-046	0
GAM181160-20	PALLET TRANSFORMER	0	050-046	0
GAM181160-21	STA 6 CLIP	0	050-046	0
GAM181160-3	4 CORNERS	0	050-046	0
GAM181160-4	STA 4 RIBBON	0	050-046	0
GAM181160-5	STA 7 SLIDER FEEDER	0	050-046	0
GAM181160-6	HYD UNIT	0	050-046	0
GAM181160-7	CONVEYOR RACEWAY	0	050-046	0
GAM181160-8	2 ROBOTS A	0	050-046	0
GAM181160-9	2 ROBOTS B	0	050-046	0

GAM191161-1	4 CORNERS	0	050-046	0
GAM191161-10	GUARDS	0	050-046	0
GAM191161-11	HYD UNIT	0	050-046	0
GAM191161-12	STA 5 RIBBON	0	050-046	0
GAM191161-13	STA 3 FUZE	0	050-046	0
GAM191161-14	STA 2 FUZE UNTRAY	0	050-046	0
GAM191161-15	STA 7 LOCK PLACE FEEDER	0	050-046	0
GAM191161-16	STA 2 OUTFEED	0	050-046	0
GAM191161-17	PALLETS & TRANSFORMERS	0	050-046	0
GAM191161-18	PALLETS & TRANSFORMERS	0	050-046	0
GAM191161-19	PALLETS & TRANSFORMERS	0	050-046	0
GAM191161-2	CONVEYOR CHAIN DRIVE	0	050-046	0
GAM191161-20	STA 6 PIN	0	050-046	0
GAM191161-21	STA 4 RIBBON	0	050-046	0
GAM191161-3	STA 7 LOCK PLACE FEEDER	0	050-046	0
GAM191161-4	RACEWAY & CONVEYOR	0	050-046	0
GAM191161-5	STA 1 INFEED	0	050-046	0
GAM191161-6	PALLETS & TRANSFORMERS	0	050-046	0
GAM191161-7	2 ROBOTS A	0	050-046	0
GAM191161-8	2 ROBOTS B	0	050-046	0
GAM191161-9	4 ROBOT CONTROLLERS	0	050-046	0
GAM201162-1	2 ROBOTS A	0	050-046	0
GAM201162-10	4 CORNERS	0	050-046	0
GAM201162-11	STA 1 INFEED	0	050-046	0
GAM201162-12	RACEWAY CONVEYOR	0	050-046	0
GAM201162-13	PALLET TRANSFORMER	0	050-046	0
GAM201162-14	GUARDS	0	050-046	0
GAM201162-15	STA 7 SLIDER LOCK/PLACE	0	050-046	0
GAM201162-16	STA 6 PIN	0	050-046	0
GAM201162-17	STA 4 RIBBON	0	050-046	0
GAM201162-18	PALLET TRANSFORMER	0	050-046	0
GAM201162-19	PALLET TRANSFORMER	0	050-046	0
GAM201162-2	2 ROBOTS B	0	050-046	0
GAM201162-20	PALLET TRANSFORMER	0	050-046	0
GAM201162-21	STA 11 OUTFEED	0	050-046	0
GAM201162-3	4 ROBOT CONTROLLERS	0	050-046	0
GAM201162-4	STA 7 SLIDER LOCK/PLACE	0	050-046	0

GAM201162-5	CONVEYOR CHAIN DRIVE	0	050-046	0
GAM201162-6	STA 2 FUZE	0	050-046	0
GAM201162-7	STA 5 RIBBON	0	050-046	0
GAM201162-8	STA 3 FUZE	0	050-046	0
GAM201162-9	HYD UNIT	0	050-046	0
MSAAP1172	CRACK DETECTOR B/L 6	0	050-046	0
MSAAP21350	FIXTURE O-RING PRESS	0	050-046	0
MSAAP21455	CONVEYOR CHAINS	0	050-046	0
MSAAP21460	CONVEYOR CHAINS	0	050-046	0
MSAAP21493	CONVEYOR CHAINS	0	050-046	0
MSAAP774	FORWARD PLATE ASSEMBLY	0	050-046	0
MSAAP775	GREASER	0	050-046	0
MSAAP776	MANIPULATOR PROJECTILE	0	050-046	0
MSAAP778	CHAIN DRIVE	0	050-046	0
MSAAP779	GROMMET INSTALLATION	0	050-046	0
MSAAP787	HYD UNIT	0	050-046	0
MSAAP792	MAIN CONTROL PANEL	0	050-046	0
MSAAP793	STACKING STATION #10	0	050-046	0
MSAAP794	STACKING STATION #9	0	050-046	0
MSAAP795	STACKING STATION #8	0	050-046	0
MSAAP796	STACKING STATION #7	0	050-046	0
MSAAP797	STACKING STATION #6	0	050-046	0
MSAAP798	STACKING STATION #5	0	050-046	0
MSAAP799	STACKING STATION #4	0	050-046	0
MSAAP800	STACKING STATION #3	0	050-046	0
MSAAP801	STACKING STATION #2	0	050-046	0
MSAAP802	STACKING STATION #1	0	050-046	0
MSAAP815	HYD UNIT	0	050-046	0
MSAAP816	HYD UNIT	0	050-046	0
MSAAP824	RAM RETRACT	0	050-046	0
MSAAP869	LEAD CUP INSERTION B/L 4	0	050-046	0
MSAAP870	FOIL INSERTION B/L 5	0	050-046	0
MSAAP872	CRACK DETECTOR B/L 4	0	050-046	0
MSAAP875	CONSOLE B/L 5	0	050-046	0
MSAAP876	BODY LOAD INSPECTION B/L 4	0	050-046	0
MSAAP877	CONE SWAGE PRESS B/L 4	0	050-046	0
MSAAP878	PRE-CONSOLIDATE	0	050-046	0

MSAAP882	COPPER CONE FEEDER B/L 4	0	050-046	0
MSAAP883	LEAD CUP INSERTION B/L 5	0	050-046	0
MSAAP884	FOIL INSERTION B/L 4	0	050-046	0
MSAAP886	CRACK DETECTOR B/L 5	0	050-046	0
MSAAP888	LEAD CUP BARRICADE B/L 6	0	050-046	0
MSAAP889	BODY LOAD INSPECTION B/L 5	0	050-046	0
MSAAP890	COPPER CONE FEEDER B/L 5	0	050-046	0
MSAAP891	CONE SWAGE B/L 5	0	050-046	0
MSAAP892	PRE-CONSOLIDATE B/L 5	0	050-046	0
MSAAP894	LEAD CUP INSERTION B/L 6	0	050-046	0
MSAAP895	FOIL INSERTION B/L 6	0	050-046	0
MSAAP899	CONSOLE B/L 4	0	050-046	0
MSAAP900	LEAD CUP BARRICADE B/L 4	0	050-046	0
MSAAP901	COPPER CONE LEAD B/L 6	0	050-046	0
MSAAP902	CONE SWAGE PRESS B/L 6	0	050-046	0
MSAAP906	LEAD CUP BARRICADE B/L 5	0	050-046	0
MSAAP907	LEAD CUP CONSOLE	0	050-046	0
MSAAP969	LEAD CUP CONSOLE	0	050-046	0
MSAAP977	LEAD CUP PRESS	0	050-046	0
MSAAP978	PRE-CON PRESS B/L 6	0	050-046	0
PC01	PROJECTILE CONVEYOR	0	050-046	0
PC02	PROJECTILE CONVEYOR	0	050-046	0
PC03	PROJECTILE CONVEYOR	0	050-046	0
PC04	PROJECTILE CONVEYOR	0	050-046	0
PC05	PROJECTILE CONVEYOR	0	050-046	0
PC06	PROJECTILE CONVEYOR	0	050-046	0
PC07	PROJECTILE CONVEYOR	0	050-046	0
PC08	PROJECTILE CONVEYOR	0	050-046	0
PC09	PROJECTILE CONVEYOR	0	050-046	0
PC10	PROJECTILE CONVEYOR	0	050-046	0
PROJCARR00B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR01B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR02B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR03B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR04B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR05B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR06B	PROJECTILE CARRIERS	0	050-046	0

PROJCARR07B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR08B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR09B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR10B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR11A	PROJECTILE CARRIERS	0	050-046	0
PROJCARR11B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR12B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR13B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR14B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR15B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR16B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR17B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR19B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR20B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR21B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR22B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR23B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR24B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR25B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR26B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR27B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR28B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR29B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR30B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR31B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR32B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR33B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR34B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR35B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR36B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR37B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR38B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR39B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR40B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR41B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR42B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR43B	PROJECTILE CARRIERS	0	050-046	0

PROJCARR44B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR45B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR46B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR47B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR48B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR49B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR50B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR51B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR52B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR53B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR54B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR55B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR56B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR57B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR58B	PROJECTILE CARRIERS	0	050-046	0
PROJCARR60B	PROJECTILE CARRIERS	0	050-046	0
PS1A	PROJECTILE TOUCH UP STATI	0	050-046	0
PS1B	REJECT PROJ STA W/ HYD HE/	0	050-046	0
PS1C	PROJECTILE CRADLE	0	050-046	0
PS1D	PROJECTILE CONVEYOR PART	0	050-046	0
341628388-1	LATHE ENGINE	234	050-047	63,450
341628388-2	LATHE ENGINE	234	050-047	2,800
341632103-1	LATHE TURRENT	234	050-047	15,000
341632103-2	LATHE TURRENT	234	050-047	90
341632361-1	LATHE HOLLO	234	050-047	22,700
341632361-2	LATHE HOLLO	234	050-047	1,485
341632361-3	LATHE HOLLO	234	050-047	3,430
341633859-1	LATHE TRACE	234	050-047	3,700
341633859-2	LATHE TRACE	234	050-047	12,010
341633859-3	LATHE TRACE	234	050-047	1,760
341634114-1	LATHE BORING	234	050-047	29,960
341634114-10	LATHE BORING	234	050-047	300
341634114-11	LATHE BORING	234	050-047	375
341634114-12	LATHE BORING	234	050-047	85
341634114-13	LATHE BORING	234	050-047	1,120
341634114-14	LATHE BORING	234	050-047	450
341634114-15	LATHE BORING	234	050-047	220

341634114-16	LATHE BORING	234	050-047	2,000
341634114-17	LATHE BORING	234	050-047	675
341634114-18	LATHE BORING	234	050-047	970
341634114-19	LATHE BORING	234	050-047	1,300
341634114-2	LATHE BORING	234	050-047	44,500
341634114-20	LATHE BORING	234	050-047	615
341634114-21	LATHE BORING	234	050-047	980
341634114-22	LATHE BORING	234	050-047	516
341634114-23	LATHE BORING	234	050-047	59,000
341634114-24	LATHE BORING	234	050-047	10,360
341634114-25	LATHE BORING	324	050-047	9,450
341634114-3	LATHE BORING	234	050-047	25,500
341634114-4	LATHE BORING	234	050-047	9,400
341634114-5	LATHE BORING	234	050-047	8,150
341634114-6	LATHE BORING	234	050-047	615
341634114-7	LATHE BORING	234	050-047	205
341634114-8	LATHE BORING	234	050-047	1,060
341634114-9	LATHE BORING	234	050-047	1,160
341635104-1	LATHE ENGINE	234	050-047	13,700
341635104-2	LATHE ENGINE	234	050-047	1,350
341635104-3	LATHE ENGINE	234	050-047	900
341635104-4	LATHE ENGINE	234	050-047	91
341635104-5	LATHE ENGINE	234	050-047	1,070
341635104-6	LATHE ENGINE	234	050-047	1,070
341635104-7	LATHE ENGINE	234	050-047	1,200
341635436-1	LATHE TURRENT	234	050-047	24,220
341635436-2	LATHE TURRENT	234	050-047	2,000
341636537	LATHE ENGINE	234	050-047	19,130
341636729-1	LATHE CHUCK	234	050-047	2,830
341636729-2	LATHE CHUCK	234	050-047	840
341636729-3	LATHE CHUCK	234	050-047	21,400
341636729-4	LATHE CHUCK	234	050-047	1,350
341636729-5	LATHE CHUCK	234	050-047	650
341636729-6	LATHE CHUCK	234	050-047	850
341636729-7	LATHE CHUCK	234	050-047	2,190
341636729-8	LATHE CHUCK	234	050-047	348
341636755-1	LATHE ENGINE	234	050-047	17,200

341636755-10	LATHE ENGINE	234	050-047	8,970
341636755-11	LATHE ENGINE	234	050-047	22,900
341636755-12	LATHE ENGINE	234	050-047	1,950
341636755-13	LATHE ENGINE	234	050-047	4,650
341636755-14	LATHE ENGINE	234	050-047	780
341636755-15	LATHE ENGINE	234	050-047	1,560
341636755-16	LATHE ENGINE	234	050-047	884
341636755-17	LATHE ENGINE	234	050-047	1,300
341636755-18	LATHE ENGINE	234	050-047	1,900
341636755-19	LATHE ENGINE	234	050-047	1,196
341636755-2	LATHE ENGINE	234	050-047	6,500
341636755-20	LATHE ENGINE	234	050-047	1,118
341636755-21	LATHE ENGINE	234	050-047	351
341636755-22	LATHE ENGINE	234	050-047	2,640
341636755-23	LATHE ENGINE	234	050-047	650
341636755-3	LATHE ENGINE	234	050-047	1,300
341636755-4	LATHE ENGINE	234	050-047	1,400
341636755-5	LATHE ENGINE	234	050-047	1,800
341636755-6	LATHE ENGINE	234	050-047	2,080
341636755-7	LATHE ENGINE	234	050-047	7,700
341636755-8	LATHE ENGINE	234	050-047	7,700
341636755-9	LATHE ENGINE	234	050-047	7,700
341637224-1	LATHE ENGINE	234	050-047	32,700
341637224-10	LATHE ENGINE	234	050-047	2,020
341637224-11	LATHE ENGINE	234	050-047	1,680
341637224-12	LATHE ENGINE	234	050-047	2,100
341637224-2	LATHE ENGINE	234	050-047	1,875
341637224-3	LATHE ENGINE	234	050-047	1,420
341637224-4	LATHE ENGINE	234	050-047	620
341637224-5	LATHE ENGINE	234	050-047	1,100
341637224-6	LATHE ENGINE	234	050-047	1,320
341637224-7	LATHE ENGINE	234	050-047	1,300
341637224-8	LATHE ENGINE	234	050-047	1,420
341637224-9	LATHE ENGINE	234	050-047	1,820
341639348-1	LATHE TURRENT	234	050-047	11,380
341639348-2	LATHE TURRENT	234	050-047	300
341700157	MILLING MACHINE	234	050-047	19,000

341701756	MILLING MACHINE	234	050-047	14,000
341703306-1	MILLING MACHINE	234	050-047	11,500
341703306-2	MILLING MACHINE	234	050-047	200
341703306-3	MILLING MACHINE	234	050-047	500
341704146-1	MILLING MACHINE	234	050-047	30,400
341704146-2	MILLING MACHINE	234	050-047	2,315
341704146-3	MILLING MACHINE	234	050-047	20,000
341704146-4	MILLING MACHINE	234	050-047	30,420
341704148-1	MILLING MACHINE	234	050-047	30,000
341704148-2	MILLING MACHINE	234	050-047	9,100
341704148-3	MILLING MACHINE	234	050-047	9,700
341704148-4	MILLING MACHINE	234	050-047	38,340
341704148-5	MILLING MACHINE	234	050-047	2,320
341704148-6	MILLING MACHINE	234	050-047	2,320
341704148-7	MILLING MACHINE	234	050-047	8,900
341704164	MILLING MACHINE	234	050-047	16,350
341704165	MILLING MACHINE	234	050-047	16,350
341704507-1	MILLING MACHINE	234	050-047	10,670
341704507-2	MILLING MACHINE	234	050-047	1,500
341706561-1	MILLING MACHINE	234	050-047	28,800
341706561-2	MILLING MACHINE	234	050-047	14,800
341706561-3	MILLING MACHINE	234	050-047	2,000
341706561-4	MILLING MACHINE	234	050-047	2,700
341706774	MILLING MACHINE	234	050-047	16,400
341710265-1	MILLING MACHINE	234	050-047	729
341710265-2	MILLING MACHINE	234	050-047	1,000
341711169-1	MILLING MACHINE	234	050-047	39,500
341711169-2	MILLING MACHINE	234	050-047	5,030
341711169-3	MILLING MACHINE	234	050-047	1,460
341711169-4	MILLING MACHINE	234	050-047	1,350
341711169-5	MILLING MACHINE	234	050-047	1,450
341711169-6	MILLING MACHINE	234	050-047	850
341715627	MILLING MACHINE	234	050-048	26,000
341717180	MILLING MACHINE	234	050-048	20,000
341717656-1	MILLING MACHINE	234	050-048	19,000
341717656-2	MILLING MACHINE	234	050-048	1,850
341718828	MILLING MACHINE	234	050-048	28,020

341719039	MILLING MACHINE	234	050-048	25,000
341719233-1	MILLING MACHINE	234	050-048	14,180
341719233-2	MILLING MACHINE	234	050-048	840
341719709-1	MILLING MACHINE	234	050-048	12,590
341719709-2	MILLING MACHINE	234	050-048	0
341719802-1	MILLING MACHINE	234	050-048	35,725
341719802-2	MILLING MACHINE	234	050-048	0
341719802-3	MILLING MACHINE	234	050-048	0
341719973-1	MILLING MACHINE	234	050-048	18,590
341719973-2	MILLING MACHINE	234	050-048	1,105
341719973-3	MILLING MACHINE	234	050-048	1,040
341719973-4	MILLING MACHINE	234	050-048	7,800
341719973-5	MILLING MACHINE	234	050-048	7,020
341719973-6	MILLING MACHINE	234	050-048	1,859
341719973-7	MILLING MACHINE	234	050-048	1,950
341719973-8	MILLING MACHINE	234	050-048	3,185
341719973-9	MILLING MACHINE	234	050-048	13,000
341720707	MILLING MACHINE	234	050-048	20,800
341720750-1	MILLING MACHINE	234	050-048	9,625
341720750-2	MILLING MACHINE	234	050-048	1,055
341720838-1	MILLING MACHINE	234	050-048	27,300
341720838-2	MILLING MACHINE	234	050-048	2,470
341721016	MILLING MACHINE	234	050-048	8,000
341721095	MILLING MACHINE	234	050-048	25,000
341721096	MILLING MACHINE	234	050-048	26,000
341721128	MILLING MACHINE	234	050-048	10,900
341721158	MILLING MACHINE	234	050-048	32,000
341721337	MILLING MACHINE	234	050-048	29,900
341721355-1	MILLING MACHINE	234	050-048	9,700
341721355-2	MILLING MACHINE	234	050-048	745
341721355-3	MILLING MACHINE	234	050-048	340
341721455-1	MILLING MACHINE	234	050-048	19,500
341721455-2	MILLING MACHINE	234	050-048	280
341800363-1	MILLING MACHINE	234	050-048	53,800
341800363-2	MILLING MACHINE	234	050-048	13,819
341800363-3	MILLING MACHINE	234	050-048	728
341800363-4	MILLING MACHINE	234	050-048	1,275

341800363-5	MILLING MACHINE	234	050-048	3,600
341900259-1	HONING MACHINE	234	050-048	13,000
341900259-2	HONING MACHINE	234	050-048	6,320
341900259-3	HONING MACHINE	234	050-048	7,750
341900259-4	HONING MACHINE	234	050-048	4,400
341900259-5	HONING MACHINE	234	050-048	1,380
341900259-6	HONING MACHINE	234	050-048	1,500
341900259-7	HONING MACHINE	234	050-048	1,580
341900259-8	HONING MACHINE	234	050-048	2,200
341900259-9	HONING MACHINE	234	050-048	330
341900642-1	HONING MACHINE	234	050-048	16,730
341900642-2	HONING MACHINE	234	050-048	10,010
341903125	SHAPER VERTICAL	234	050-048	9,500
341903129	SHAPER VERTICAL	234	050-048	9,915
341905056-1	RIFLING MACHINE	234	050-048	22,000
341905056-2	RIFLING MACHINE	234	050-048	20,000
341905056-3	RIFLING MACHINE	234	050-048	500
341906340-1	HONING MACHINE	234	050-048	14,350
341906340-2	HONING MACHINE	234	050-048	820
341906349-1	HONING MACHINE	234	050-048	8,140
341906349-2	HONING MACHINE	234	050-048	450
341906695-1	RIFLING MACHINE	234	050-048	34,000
341906695-2	RIFLING MACHINE	234	050-048	38,640
341906695-3	RIFLING MACHINE	234	050-048	1,030
341906695-4	RIFLING MACHINE	234	050-048	5,350
341906695-5	RIFLING MACHINE	234	050-048	1,160
341906695-6	RIFLING MACHINE	234	050-048	2,620
341906695-7	RIFLING MACHINE	234	050-048	995
341906695-8	RIFLING MACHINE	234	050-048	510
341906695-9	RIFLING MACHINE	234	050-048	9,850
341906703-1	HONING MACHINE	234	050-048	7,200
341906703-10	HONING MACHINE	234	050-048	870
341906703-11	HONING MACHINE	234	050-048	1,638
341906703-12	HONING MACHINE	234	050-048	1,768
341906703-2	HONING MACHINE	234	050-048	6,110
341906703-3	HONING MACHINE	234	050-048	7,900
341906703-4	HONING MACHINE	234	050-048	1,270

341906703-5	HONING MACHINE	234	050-048	6,760
341906703-6	HONING MACHINE	234	050-048	8,255
341906703-7	HONING MACHINE	234	050-048	2,000
341906703-8	HONING MACHINE	234	050-048	10,725
341906703-9	HONING MACHINE	234	050-048	1,829
341907323-1	RIFLING MACHINE	234	050-049	18,430
341907323-2	RIFLING MACHINE	234	050-049	0
341914079	WAY TYPE MACHINE	234	050-049	14,000
341919027-1	RIFLING MACHINE	234	050-049	20,000
341919027-10	RIFLING MACHINE	234	050-049	3,000
341919027-11	RIFLING MACHINE	234	050-049	1,000
341919027-12	RIFLING MACHINE	234	050-049	7,000
341919027-13	RIFLING MACHINE	234	050-049	1,500
341919027-2	RIFLING MACHINE	234	050-049	26,000
341919027-3	RIFLING MACHINE	234	050-049	23,000
341919027-4	RIFLING MACHINE	234	050-049	25,000
341919027-5	RIFLING MACHINE	234	050-049	4,200
341919027-6	RIFLING MACHINE	234	050-049	5,000
341919027-7	RIFLING MACHINE	234	050-049	3,500
341919027-8	RIFLING MACHINE	234	050-049	900
341919027-9	RIFLING MACHINE	234	050-049	3,500
341921572-1	HONING MACHINE	234	050-049	7,735
341921572-10	HONING MACHINE	234	050-049	845
341921572-2	HONING MACHINE	234	050-049	6,435
341921572-3	HONING MACHINE	234	050-049	2,015
341921572-4	HONING MACHINE	234	050-049	2,275
341921572-5	HONING MACHINE	234	050-049	2,120
341921572-6	HONING MACHINE	234	050-049	13,260
341921572-7	HONING MACHINE	234	050-049	1,755
341921572-8	HONING MACHINE	234	050-049	10,920
341921572-9	HONING MACHINE	234	050-049	1,885
341921677-1	HONING MACHINE	234	050-049	76,750
341921677-2	HONING MACHINE	234	050-049	7,900
341921677-3	HONING MACHINE	234	050-049	3,550
341921677-4	HONING MACHINE	234	050-049	1,150
341921686-1	THREADING MACHINE	234	050-049	31,000
341921686-2	THREADING MACHINE	234	050-049	800

341921785-1	RIFLING MACHINE	234	050-049	24,230
341921785-10	RIFLING MACHINE	234	050-049	2,200
341921785-11	RIFLING MACHINE	234	050-049	1,320
341921785-12	RIFLING MACHINE	234	050-049	4,220
341921785-13	RIFLING MACHINE	234	050-049	2,490
341921785-14	RIFLING MACHINE	234	050-049	2,650
341921785-15	RIFLING MACHINE	234	050-049	1,390
341921785-16	RIFLING MACHINE	234	050-049	31,950
341921785-17	RIFLING MACHINE	234	050-049	10,850
341921785-2	RIFLING MACHINE	234	050-049	30,500
341921785-3	RIFLING MACHINE	234	050-049	8,710
341921785-4	RIFLING MACHINE	234	050-049	5,130
341921785-5	RIFLING MACHINE	234	050-049	2,210
341921785-6	RIFLING MACHINE	234	050-049	4,400
341921785-7	RIFLING MACHINE	234	050-049	650
341921785-8	RIFLING MACHINE	234	050-049	1,885
341921785-9	RIFLING MACHINE	234	050-049	1,300
341921798	THREADING MACHINE	234	050-049	35,000
341921853-1	HONING MACHINE	234	050-049	20,800
341921853-2	HONING MACHINE	234	050-049	7,850
341922184-1	HONING MACHINE	234	050-049	34,000
341922184-2	HONING MACHINE	234	050-049	1,520
341922184-3	HONING MACHINE	234	050-049	4,915
341922343-1	HONING MACHINE	234	050-049	8,775
341922343-10	HONING MACHINE	234	050-049	200
341922343-11	HONING MACHINE	234	050-049	1,825
341922343-2	HONING MACHINE	234	050-049	910
341922343-3	HONING MACHINE	234	050-049	3,152
341922343-4	HONING MACHINE	234	050-049	3,120
341922343-5	HONING MACHINE	234	050-049	3,640
341922343-6	HONING MACHINE	234	050-049	6,825
341922343-7	HONING MACHINE	234	050-049	910
341922343-8	HONING MACHINE	234	050-049	3,185
341922343-9	HONING MACHINE	234	050-049	1,275
342400891-1	FURNACE, HFA	234	050-049	4,100
342400891-10	FURNACE, HFA	234	050-049	12,000
342400891-11	FURNACE, HFA	234	050-049	730

342400891-12	FURNACE, HFA	234	050-049	230
342400891-13	FURNACE, HFA	234	050-049	1,450
342400891-14	FURNACE, HFA	234	050-049	1,450
342400891-15	FURNACE, HFA	234	050-049	1,430
342400891-16	FURNACE, HFA	234	050-049	1,460
342400891-17	FURNACE, HFA	234	050-049	250
342400891-18	FURNACE, HFA	234	050-049	1,440
342400891-19	FURNACE, HFA	234	050-049	1,422
342400891-2	FURNACE, HFA	234	050-049	2,050
342400891-20	FURNACE, HFA	234	050-049	4,350
342400891-3	FURNACE, HFA	234	050-049	1,750
342400891-4	FURNACE, HFA	234	050-049	2,550
342400891-5	FURNACE, HFA	234	050-049	1,475
342400891-6	FURNACE, HFA	234	050-049	300
342400891-7	FURNACE, HFA	234	050-049	743
342400891-8	FURNACE, HFA	234	050-049	12,700
342400891-9	FURNACE, HFA	234	050-049	11,000
344102918	PRESS BRAKE	234	050-049	30,000
344200484-1	PRESS HYDRAULIC	234	050-049	20,000
344200484-2	PRESS HYDRAULIC	234	050-049	2,000
344200484-3	PRESS HYDRAULIC	234	050-049	800
344200484-4	PRESS HYDRAULIC	234	050-049	15,400
344200484-5	PRESS HYDRAULIC	234	050-049	800
344201190-1	PRESS HYDRAULIC	234	050-049	22,950
344201190-10	PRESS HYDRAULIC	234	050-049	2,249
344201190-2	PRESS HYDRAULIC	234	050-049	15,120
344201190-3	PRESS HYDRAULIC	234	050-049	1,350
344201190-4	PRESS HYDRAULIC	234	050-049	3,770
344201190-5	PRESS HYDRAULIC	234	050-049	2,100
344201190-6	PRESS HYDRAULIC	234	050-049	1,365
344201190-7	PRESS HYDRAULIC	234	050-049	520
344201190-8	PRESS HYDRAULIC	234	050-049	1,365
344201190-9	PRESS HYDRAULIC	234	050-049	1,430
344201779-1	PRESS HYDRAULIC	234	050-049	11,000
344201779-2	PRESS HYDRAULIC	234	050-049	0
341201237	BROACHING MACHINE	727	050-051	17,000
341201240	BROACHING MACHINE	727	050-051	17,000

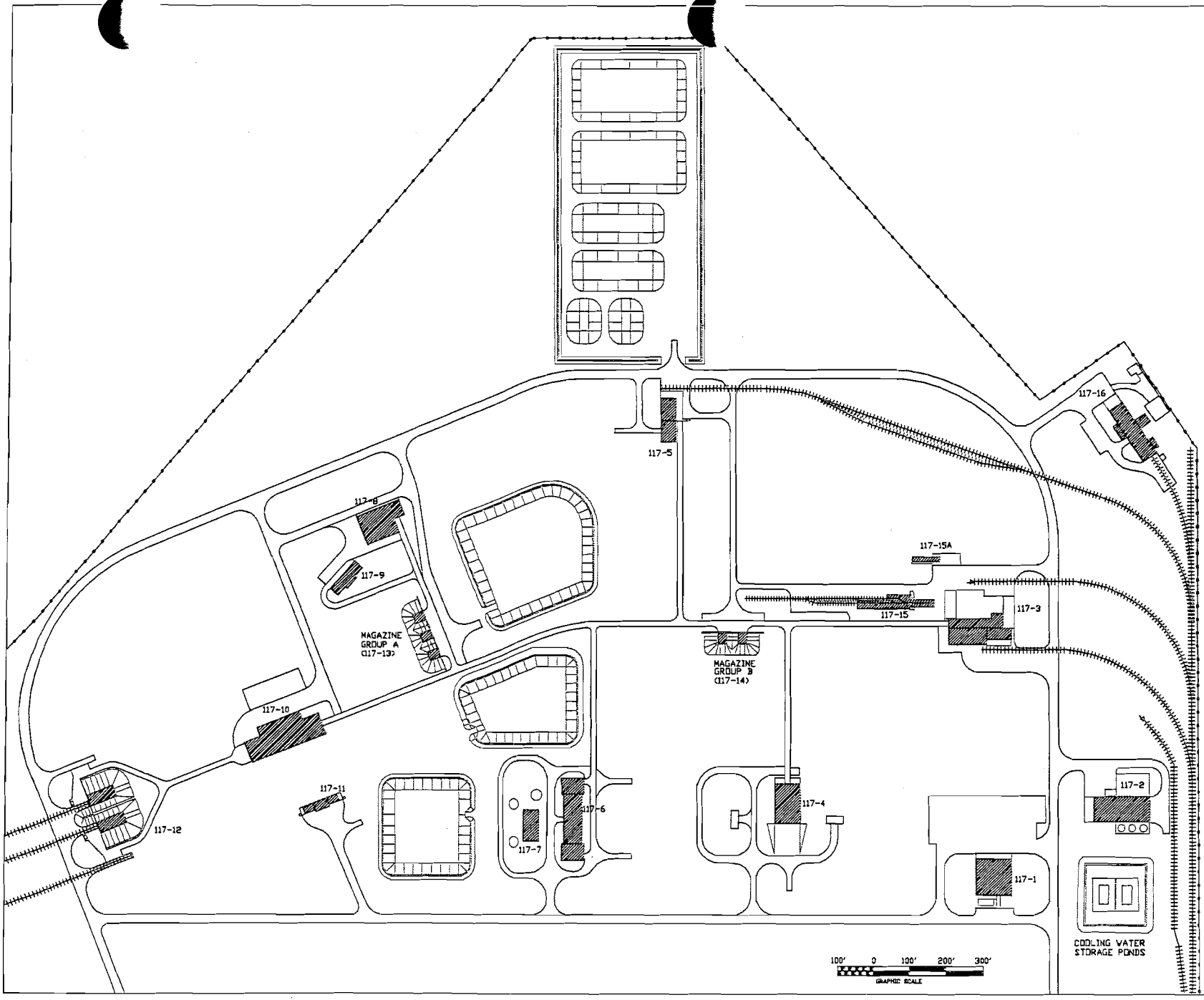
341310525	DRILLING MACHINE	727	050-051	7,200
341310867	DRILLING MACHINE	727	050-051	7,200
341311240	DRILLING MACHINE	727	050-051	7,200
341311243	DRILLING MACHINE	727	050-051	7,200
341311246	DRILLING MACHINE	727	050-051	7,200
341720625-1	WAY TYPE MACHINE	727	050-051	34,100
341720625-2	WAY TYPE MACHINE	727	050-051	2,050
341720625-3	WAY TYPE MACHINE	727	050-051	971
341720671-1	WAY TYPE MACHINE	727	050-051	34,660
341720671-2	WAY TYPE MACHINE	727	050-051	2,100
341720671-3	WAY TYPE MACHINE	727	050-051	971
341907776-1	CHAMBERING MACHINE	727	050-051	4,000
341907776-2	CHAMBERING MACHINE	727	050-051	415
341907778-1	CHAMBERING MACHINE	727	050-051	7,200
341907778-2	CHAMBERING MACHINE	727	050-051	370
341907778-3	CHAMBERING MACHINE	727	050-051	392
341918557-1	CHAMBERING MACHINE	727	050-051	17,740
341918557-2	CHAMBERING MACHINE	727	050-051	4,715
344309693-1	PRESS MECHANICAL	209	050-051	1,125
344309693-10	PRESS MECHANICAL	209	050-051	5,100
344309693-11	PRESS MECHANICAL	209	050-051	17,540
344309693-12	PRESS MECHANICAL	209	050-051	17,540
344309693-15	PRESS MECHANICAL	209	050-051	27,880
344309693-17	PRESS MECHANICAL	209	050-051	800
344309693-18	PRESS MECHANICAL	209	050-051	1,560
344309693-2	PRESS MECHANICAL	209	050-051	675
344309693-21	PRESS MECHANICAL	209	050-051	600
344309693-24	PRESS MECHANICAL	209	050-051	2,300
344309693-25	PRESS MECHANICAL	209	050-051	3,120
344309693-26	PRESS MECHANICAL	209	050-051	3,120
344309693-29	PRESS MECHANICAL	209	050-051	450
344309693-3	PRESS MECHANICAL	209	050-051	5,000
344309693-32	PRESS MECHANICAL	209	050-051	4,160
344309693-33	PRESS MECHANICAL	209	050-051	650
344309693-34	PRESS MECHANICAL	209	050-051	5,120
344309693-35	PRESS MECHANICAL	209	050-051	1,500
344309693-36	PRESS MECHANICAL	209	050-051	1,560

344309693-37	PRESS MECHANICAL	209	050-051	2,100
344309693-38	PRESS MECHANICAL	209	050-051	750
344309693-39	PRESS MECHANICAL	209	050-051	750
344309693-4	PRESS MECHANICAL	209	050-051	2,500
344309693-40	PRESS MECHANICAL	209	050-051	420
344309693-41	PRESS MECHANICAL	209	050-051	1,300
344309693-42	PRESS MECHANICAL	209	050-051	3,040
344309693-43	PRESS MECHANICAL	209	050-051	1,700
344309693-44	PRESS MECHANICAL	209	050-051	580
344309693-45	PRESS MECHANICAL	209	050-051	6,000
344309693-46	PRESS MECHANICAL	209	050-051	210
344309693-47	PRESS MECHANICAL	209	050-051	2,530
344309693-48	PRESS MECHANICAL	209	050-051	1,760
344309693-49	PRESS MECHANICAL	209	050-051	3,040
344309693-5	PRESS MECHANICAL	209	050-051	10,350
344309693-50	PRESS MECHANICAL	209	050-051	3,975
344309693-51	PRESS MECHANICAL	209	050-051	2,450
344309693-52	PRESS MECHANICAL	209	050-051	50
344309693-53	PRESS MECHANICAL	209	050-051	2,880
344309693-54	PRESS MECHANICAL	209	050-051	12,900
344309693-55	PRESS MECHANICAL	209	050-051	2,520
344309693-56	PRESS MECHANICAL	209	050-051	3,285
344309693-57	PRESS MECHANICAL	209	050-051	850
344309693-58	PRESS MECHANICAL	209	050-051	300
344309693-59	PRESS MECHANICAL	209	050-051	2,950
344309693-6	PRESS MECHANICAL	209	050-051	1,780
344309693-60	PRESS MECHANICAL	209	050-051	1,700
344309693-7	PRESS MECHANICAL	209	050-051	1,780
344309693-8	PRESS MECHANICAL	209	050-051	9,400
344309693-9	PRESS MECHANICAL	209	050-051	30,850
344600796-1	FORGING MACHINE	727	050-051	76,500
344600796-2	FORGING MACHINE	727	050-051	5,250
344600796-3	FORGING MACHINE	727	050-051	13,150
344600796-4	FORGING MACHINE	727	050-051	7,300
344600796-5	FORGING MACHINE	727	050-051	33,850
344600807-1	FORGING MACHINE	727	050-051	4,600
344600807-2	FORGING MACHINE	727	050-051	2,320

344600807-3	FORGING MACHINE	727	050-051	4,700
344600807-4	FORGING MACHINE	727	050-051	3,950
344600807-5	FORGING MACHINE	727	050-051	7,900
344600807-6	FORGING MACHINE	727	050-051	13,400
344600807-7	FORGING MACHINE	727	050-051	33,260
344206153-11	PRESS HYDRAULIC	119	050-053	4,250
344309691-17	PRESS MECHANICAL	209	050-053	49,500
344309691-18	PRESS MECHANICAL	209	050-053	49,500
344309691-19	PRESS MECHANICAL	209	050-053	148,150
344309691-20	PRESS MECHANICAL	209	050-053	92,340
344309691-24	PRESS MECHANICAL	209	050-053	153,000
344309691-29	PRESS MECHANICAL	209	050-053	206,000
344309691-6	PRESS MECHANICAL	209	050-053	32,860
344309691-7	PRESS MECHANICAL	209	050-053	32,860
344309692-11	PRESS MECHANICAL	209	050-053	32,860
344309692-12	PRESS MECHANICAL	209	050-053	32,860
344309692-13	PRESS MECHANICAL	209	050-053	121,700
344309692-14	PRESS MECHANICAL	209	050-053	153,000
344309692-23	PRESS MECHANICAL	209	050-053	48,500
344309692-24	PRESS MECHANICAL	209	050-053	48,500
344309692-26	PRESS MECHANICAL	209	050-053	92,340
344309692-30	PRESS MECHANICAL	209	050-053	206,000
344206153-10	PRESS HYDRAULIC	119	050-054	4,250
344206153-12	PRESS HYDRAULIC	119	050-054	4,250
344206153-13	PRESS HYDRAULIC	119	050-054	4,250
344309693-13	PRESS MECHANICAL	209	050-054	32,860
344309693-14	PRESS MECHANICAL	209	050-054	32,860
344309693-16	PRESS MECHANICAL	209	050-054	153,700
344309693-19	PRESS MECHANICAL	209	050-054	92,340
344309693-20	PRESS MECHANICAL	209	050-054	150,230
344309693-22	PRESS MECHANICAL	209	050-054	48,500
344309693-23	PRESS MECHANICAL	209	050-054	48,500
344309693-27	PRESS MECHANICAL	209	050-054	206,000
344309694-14	PRESS MECHANICAL	209	050-054	32,860
344309694-15	PRESS MECHANICAL	209	050-054	32,860
344309694-16	PRESS MECHANICAL	209	050-054	148,200
344309694-17	PRESS MECHANICAL	209	050-054	153,250

344309694-18	PRESS MECHANICAL	209	050-054	92,340	
344309694-19	PRESS MECHANICAL	209	050-054	48,500	
344309694-20	PRESS MECHANICAL	209	050-054	48,500	
344309694-32	PRESS MECHANICAL	209	050-054	206,000	
344309695-14	PRESS MECHANICAL	209	050-054	32,860	
344309695-15	PRESS MECHANICAL	209	050-054	32,860	
344309695-16	PRESS MECHANICAL	209	050-054	153,550	
344309695-17	PRESS MECHANICAL	209	050-054	150,250	
344309695-18	PRESS MECHANICAL	209	050-054	92,340	
344309695-19	PRESS MECHANICAL	209	050-054	48,500	
344309695-20	PRESS MECHANICAL	209	050-054	48,500	
344309695-30	PRESS MECHANICAL	209	050-054	206,000	
2,414 Pieces				**25,303,336**	**Total Weight**

12,651.668 TONS



DAY & ZIMMERMANN HAWTHORNE CORP.

CONTRACTOR OPERATOR OF

HAWTHORNE ARMY DEPOT

WESTERN AREA DEMILITARIZATION FACILITY (WADF)

SITE PLAN

APPROVALS DAY & ZIMMERMANN HAWTHORNE CORP.

1" = 100'	880697-WADF-1000	1 / 1	AREA MAPS/WADF/ WADF100

Table 5: Estimated Environmental Restoration Costs for DOD's Recommended Major Base Closures

Dollars in millions

Military service	Number of major closures	Estimated environmental restoration costs[a]
Army	14	$723.3
Navy	9	154.5
Air Force	10	71.3
Total	**33**	**$949.1**

Source: GAO analysis of DOD data.

[a]Estimated costs include some costs not specifically reported in DOD's May 2005 report to the Defense Base Closure and Realignment Commission. While the Army and Navy generally reported these costs, the Air Force did not but its costs were noted in supporting documentation.

Based on the data provided, the Army would incur the largest share of estimated restoration costs due to the closure of several ammunition plants and chemical depots. The largest expected costs for any one location across DOD, about $383 million, would be for restoration at Hawthorne Army Depot, Nevada. While the DOD report does not specifically identify the potential for some additional restoration costs at its installations, available supporting documentation does identify some additional costs. For example, the Army estimated the range restoration at Hawthorne Army Depot could cost from about $27 million to $147 million, which is not included in the estimates in table 5. Further, the Army recognizes that additional restoration costs could be incurred at six additional locations that have ranges and chemical munitions, but these costs have not yet been determined.

Our prior work has shown that environmental costs can be significant, as evidenced by the nearly $12 billion in total cost DOD expected to incur when all restoration actions associated with the prior BRAC rounds are completed. Service officials told us that the projected cost estimates for environmental restoration are lower, in general, because the environmental condition of today's bases is much better than the condition of bases closed during the prior BRAC rounds, primarily because of DOD's ongoing active base environmental restoration program. Nonetheless, our prior work has indicated that as closures are implemented, more intensive environmental investigations occur and additional hazardous conditions may be uncovered that could result in additional, unanticipated restoration and higher costs. Finally, the services' preliminary estimates are based on restoration standards that are applicable for the current use of the base

..1 COBRA shows 74 military personnel and ties savings to that number. In actuality, there is only one military person stationed at HWAD.
..., 7/9/2005

..2 The COBRA video on www.defenselink.mil/brac/ says that the sustainment costs reflect the costs needed to maintain the life of the buildings (excluding utilities, captured in BOS). The Contractor provided that information to us for two years. The average is shown on the slide.

Although the COBRA sustainment amount appeared incorrect, COBRA may have used military personnel numbers to compute it. Since we used actual costs of sustainment according to the video definition, we also are reflecting other savings that would be realized by base closure in the BOS amount below.
..., 7/9/2005

..3 COBRA puts the BOS at $0 for closing installations, but counted almost the entire contract costs under sustainment.

We received information from the contractor for the costs for two years of BOS. The average is shown on the slide.
..., 7/9/2005

..4 The COBRA video said that recapitalization captured the modernization of facilities cost. However a formula was used with a service recap rate.

We attempted to duplicate the formula with a recap rate based on the corrected savings. However, if the recap rate was determined by the overhead costs and savings of all Army installations affected by BRAC, we are unable to determine what the new rate would be when all errors in COBRA are addressed.

Shown on the slide, is the historical and projected, ten-year average costs spent for modernization (including congressional appropriations). Also shown is the amount derived from our attempted duplication of the formula.

..., 7/9/2005

Data As Of 5/2/2005 10:48:53 AM, Report Created 5/2/2005 10:48:56 AM

Department : Industrial
Scenario File : Z:\Cobra\Munitions&Armaments\IND 0108 Close Hawthorne AD\IND 0108 Close Hawthorne AD Cobra 05022005.CBR
Option Pkg Name: IND 0108 Close Hawthorne AD
Std Fctrs File : C:\Documents and Settings\\Desktop\COBRA 6.10\BRAC2005.SFF

PERSONNEL SUMMARY FOR: HAWTHORNE DEPOT, NV (3235L)

BASE POPULATION (FY 2005, Prior to BRAC Action) FOR: HAWTHORNE DEPOT, NV (3235L)

Officers	Enlisted	Students	Civilians
2	72	0	45

PERSONNEL REALIGNMENTS:
To Base: BASE X (ARMY), US (XARMY)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	20	20
TOTAL	0	0	0	0	0	20	20

TOTAL PERSONNEL REALIGNMENTS (Out of HAWTHORNE DEPOT, NV (3235L)):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	20	20
TOTAL	0	0	0	0	0	20	20

SCENARIO POSITION CHANGES FOR: HAWTHORNE DEPOT, NV (3235L)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	-2	-2
Enlisted	0	0	0	0	0	-72	-72
Civilians	0	0	0	0	0	-25	-25
TOTAL	0	0	0	0	0	-99	-99

BASE POPULATION (After BRAC Action) FOR: HAWTHORNE DEPOT, NV (3235L)

Officers	Enlisted	Students	Civilians
0	0	0	0

PERSONNEL SUMMARY FOR: TOOELE, UT (49878)

BASE POPULATION (FY 2005, Prior to BRAC Action) FOR: TOOELE, UT (49878)

Officers	Enlisted	Students	Civilians
38	519	0	526

BASE POPULATION (After BRAC Action) FOR: TOOELE, UT (49878)

Officers	Enlisted	Students	Civilians
38	519	0	526

PERSONNEL SUMMARY FOR: BASE X (ARMY), US (XARMY)

BASE POPULATION (FY 2005, Prior to BRAC Action) FOR: BASE X (ARMY), US (XARMY)

Officers	Enlisted	Students	Civilians
1	7	0	101

Freight Cost ($/Ton/Mile):
This value is used in the following algorithms: Civilian Household Goods Cost, Freight Shipping Costs, and Military Household Goods Cost.

Vehicle Shipping Cost ($/Lift/Mile):
This value is used in the Vehicle Shipping Cost algorithm.

Base Service (for BOS/Sustainment):
This value is used Delta Sustainment, Delta Sustainment/Recap/BOS, and Sustainment Costs, Savings, and Net Costs BOS, Costs, Savings, and Net Costs, and Delta BOS.

Total Sustainment Budget ($K/Year):
This value is used in the following algorithms: Delta Sustainment, Delta Sustainment/Recap/BOS, and Sustainment Costs, Savings, and Net Costs.

Sustainment Payroll Budget ($K/Year):
This value is used in the following algorithms: Delta Sustainment, Delta Sustainment/Recap/BOS, and Sustainment Costs, Savings, and Net Costs.

BOS Non-Payroll Budget ($K/Year):
This value is used in the following algorithms: BOS Costs, Savings, and Net Costs, Delta BOS, and Delta Sustainment/BOS.

BOS Payroll Budget ($K/Year):
This value is used in the Program Management Cost algorithm.

Family Housing Budget ($K/Year):
This value is used in the following algorithms: Family Housing Operations Costs and Family Housing Operations Savings.

Installation PRV ($K):
This value is used in the Recapitalization Cost, Savings, and Net Costs

Service/Agency Recap Rate (Years):
This value is used in the Recapitalization Cost, Savings, and Net Costs

Latitude:
Geographic Coordinate used for determining distances between bases (if necessary) and distance not provided on Screen #2.

Longitude:
Geographic Coordinate used for determining distances between bases (if necessary) and distance not

TOTAL REALIGNMENT DETAIL REPORT (COBRA v6.08) - Page 3/3
Data As Of 1/6/2004 2:28:10 PM, Report Created 1/9/2004 10:13:54 AM

Department : Department - Screen One
Scenario File : Scenario File Name
Option Package : Option Package Name - Screen One
Std Fctrs File : Standard Factors Filename
Std Fctrs Desc : Standard Factors File Description

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	Military Construction Net Costs						
O&M							
Civ Retir/RIF	Civilian Retirement/RIF Net Costs						
Civ Moving	Civilian Net Moving Cost						
Other	Other Operations And Maintenance Net Costs						
MIL PERSONNEL							
Mil Moving	Military Move Net Costs						
OTHER							
HAP / RSE	Homeowners Assistance Program/Relocation						
Environmental	Environmental Net Costs						
Info Tech	Information Technology Costs						
Misn Contract	Mission Contract Costs						
1-Time Other	One-Time Other Net Costs						
TOTAL ONE-TIME	Total Realignment One-Time Net Costs						

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	Family Housing Operations Net Costs							
O&M								
Sustainment	Sustainment Costs, Savings, and Net Costs							
Recap	Recapitalixation Costs and Savings							
BOS	BOS Costs, Savings, and Net Costs							
Civ Salary	Civilian Salary Net Costs							
TRICARE	TRICARE Costs, Savings, and Net Costs							
PERSONNEL								
Mil Salary	Military Salary Net Costs							
House Allow	Housing Allowance Costs, Savings, and Net Costs							
OTHER								
Procurement	Procurement Avoidance Savings							
Mission Activ	Mission Activity Net Costs							
Misc Recur	Miscellaneous Recurring Net Costs							
TOTAL RECUR	Total Realignment Recurring Net Costs							
TOTAL NET COST	Total Realignment Net Costs							

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Select Text 81%

BOS (Base Operations) Non-Payroll Budget
The base operations budget for the base at the beginning of the scenario, not including military or government civilian payroll costs (which are accounted for separately). Communication costs, if tracked separately from BOS costs, should be included here. Service contracts, which do include contractor payroll costs, should be included in this figure. This should not include facilities sustainment costs or family housing costs. (NOTE: For BRAC 2005 the value entered will be the average of actual non-payroll BOS for FYs 01-03, corrected for the War on Terror. Routine environmental costs for compliance, pollution prevention, and conservation should be included here. (Allowed entries 0 to 99,999,999 $K/Yr)

BOS (Base Operations) Payroll Budget
The base operations payroll costs at the beginning of the scenario. This entry will be consistent with base operations non-payroll budget. (Allowed entries 0 to 99,999,999 $K/Yr)

Family Housing Budget
The total family housing budget for the base at the beginning of the scenario. (Allowed entries 0 to 99,999,999 $K/Yr)

Installation PRV (Plant Replacement Value)
Installation PRV is the cost, in current year dollars, to construct notional facilities to replace all existing ones, not to include family housing. (Allowed entries from 0 to 999,999,999,999.00 $K)

Service/Agency Recap Rate
The number of years it would take for the Service/Agency to regenerate the physical plant

8.5 x 11 in

27 of 100

Search PDF Hide

Finished searching for:

communication

Total Instances found:

2

New Search

Results:

and communications costs. Industria

Communication costs, if tracked sep

Done

Save and View this PDF in Acrobat

Complete Acrobat 6.0 Help

Internet

2 Mic... 2 Wi... Adobe... 5 ... DZ cos... Micros... BL 1:34 PM

day, Jul 09, 2005 01:34 PM

BOS (Base Operations) Non-Payroll Budget
The base operations budget for the base at the beginning of the scenario, not including military or government civilian payroll costs (which are accounted for separately). Communication costs, if tracked separately from BOS costs, should be included here. Service contracts, which do include contractor payroll costs, should be included in this figure. This should not include facilities sustainment costs or family housing costs. (NOTE: For BRAC 2005 the value entered will be the average of actual non-payroll BOS for FYs 01-03, corrected for the War on Terror. Routine environmental costs for compliance, pollution prevention, and conservation should be included here. (Allowed entries 0 to 99,999,999 $K/Yr)

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The total family housing budget for the base at the beginning of the scenario. (Allowed entries 0 to 99,999,999 $K/Yr)

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The number of years it would take for the Service/Agency to regenerate the physical plant (i.e., facilities) either through replacement or major renovation(s) at a given level of investment. (Allowed entries 0.0 to 999.0 years)

Latitude
Geographic coordinate used for determining distances between bases (if necessary).

Longitude
Geographic coordinate used for determining distances between bases (if necessary).

In-patient Admissions Cost Factor
The average cost paid by TRICARE for each in-patient admission of retirees and their dependents to civilian (off-base) hospitals/treatment facilities. (Allowed entries 0 to 99,999,999 $/visit)

Out-Patient Visits Cost Factor
The average cost paid by TRICARE for each out-patient visit of retirees and their dependents to civilian (off-base) hospitals/treatment facilities. (Allowed entries 0 to 99,999,999 $/visit)

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.10)
Data As Of 5/2/2005 10:48:53 AM, Report Created 5/2/2005 10:48:57 AM

Department : Industrial
Scenario File : Z:\Cobra\Munitions&Armaments\IND 0108 Close Hawthorne AD\IND 0108 Close Hawthorne AD Cobra 05022005.CBR
Option Pkg Name: IND 0108 Close Hawthorne AD
Std Fctrs File : C:\Documents and Settings\\Desktop\COBRA 6.10\BRAC2005.SFF

Personnel

Base	Start*	Finish*	Change	%Change
HAWTHORNE DEPOT	119	0	-119	-100%
TOOELE	1,083	1,083	0	0%
BASE X (ARMY)	109	129	20	18%
TOTAL	1,311	1,212	-99	-8%

Square Footage

Base	Start	Finish	Change	%Change	Chg/Per
HAWTHORNE DEPOT	9,578,000	0	-9,578,000	-100%	80,487
TOOELE	9,415,000	9,415,000	0	0%	0
BASE X (ARMY)	60,640	60,640	0	0%	0
TOTAL	19,053,640	9,475,640	-9,578,000	-50%	96,747

Base Operations Support (2005$)

Base	Start*	Finish*	Change	%Change	Chg/Per
HAWTHORNE DEPOT	0	0	0	0%	0
TOOELE	17,873,628	17,873,628	0	0%	0
BASE X (ARMY)	0	0	0	0%	0
TOTAL	17,873,628	17,873,628	0	0%	0

Sustainment (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
HAWTHORNE DEPOT	30,420,932	0	-30,420,932	-100%	255,638
TOOELE	6,913,145	6,913,145	0	0%	0
BASE X (ARMY)	118,709	118,709	0	0%	0
TOTAL	37,452,786	7,031,854	-30,420,932	-81%	307,282

Recapitalization (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
HAWTHORNE DEPOT	34,912,754	0	-34,912,754	-100%	293,384
TOOELE	13,283,457	13,283,457	0	0%	0
BASE X (ARMY)	5,725,274	5,725,274	0	0%	0
TOTAL	53,921,486	19,008,732	-34,912,754	-65%	352,654

Sustain + Recap + BOS (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
HAWTHORNE DEPOT	65,333,686	0	-65,333,686	-100%	549,022
TOOELE	38,070,230	38,070,230	0	0%	0
BASE X (ARMY)	5,843,983	5,843,983	0	0%	0
TOTAL	109,247,900	43,914,214	-65,333,686	-60%	659,936

INFORMATION PROVED BY
DAY & ZIMMERMANN HAWTHORNE CORPORATION

The following cost information was provided by the DZHC Financial Department.

DZHC has a ten year fixed-price contract with the Department of Defense for $324,091,891.00. The yearly amount is $32,409,189.00. This cost includes salaries, labor, insurance, certifications, training, storage, receiving, renovation, environmental, security, IT support, and Base Operations and Maintenance. However, it can be modified either up or down by the actual workload received.

A breakout of the facilities maintenance part of the budget indicated costs of $6,700,000 for FY04 and $6,900,000 for FY05.

A breakout of base operations support costs (excluding salaries) indicated costs of $4,582,000 for FY04 and $5,608,000 for FY05.

HWAD (PKI)

n: Herman Millsap (PKI)
t: Thursday, July 07, 2005 8:23 AM
To: Lucy Engebretsen
Subject: FW: CONGRESSIONAL $$$

Lucy:

Tom has provided the attachment showing HWAD capitalization cost and 1391's that have made the cut line for funding.

-----Original Message-----
From: Thomas Fitzgerald
Sent: Thursday, July 07, 2005 8:01 AM
To: Herman Millsap (PKI)
Subject: CONGRESSIONAL $$$

CONGRESSIONAL ADDS 02 05.doc (...

FYDP PROJECTS.....WE HAVE TWO PROJECTS THAT MADE THE FUTURE YEARS DEFENSE PROGRAM (FYDP) FY 2011

- MOBILE EQUIPMENT MAINTENANCE SHOP $2.5 M
- GROUNDWATER TREATMENT FACILITY $9.5 M

MATED COST OF THE 2.5 M GALLONS PER DAY GROUNDWATER TREATMENT PLANT THAT GOT BRAC'D 5 M. THE PLANT WOULD TREAT GROUND WATER FOR ARSENIC & FLOURIDES

TOM FITZGERALD, MANAGER
Engineering Services
DZHC
775-945-7436 Office
775-316-0676 Cell

CONGRESSIONAL APPROPRIATIONS

FY 02 Appropriations

• Hot Gas	$1.4 M
• RF-9	$1.3 M
• 117-4 BEDS	$1.48 M
• Range Scrap	$1.5 M
	$5.68 M

FY 03 Appropriations

• Range Scrap	$0. 7 M
• 117-4 BEDS	$0.7 M
• RF-9	$0.4 M
• Slurry Gel	$0.48 M
	$2.28 M

FY 04 Appropriations

• Hot Gas	$0.6 M
• 117-4 BEDS	$2.5 M
• Range Scrap	$2.5 M
• Remote Weapons Decasing	$0.5 M
• Rocket Motor Static Firing Facility	$0.5 M
	$6.6 M

FY 05 Appropriations

• Slurry Gel	$0.6 M
• Cryofracture	$2.5 M
• Weapons Decasing & Explosive Removal Equipment	$1.5 M
• RF-9	$0.5 M
• Rocket Motor Static Firing Facility	$1.5 M
	$6.6 M

TOTAL CONGRESSIONAL ADDS 2002 – 2005.....$21.16 M

CONGRESSIONAL APPROPRIATIONS

FY 02 Appropriations

• Hot Gas	$1.4 M
• RF-9	$1.3 M
• 117-4 BEDS	$1.48 M
• Range Scrap	$1.5 M
	$5.68 M

FY 03 Appropriations

• Range Scrap	$0. 7 M
• 117-4 BEDS	$0.7 M
• RF-9	$0.4 M
• Slurry Gel	$0.48 M
	$2.28 M

FY 04 Appropriations

• Hot Gas	$0.6 M
• 117-4 BEDS	$2.5 M
• Range Scrap	$2.5 M
• Remote Weapons Decasing	$0.5 M
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	$6.6 M

FY 05 Appropriations

• Slurry Gel	$0.6 M
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• RF-9	$0.5 M
• Rocket Motor Static Firing Facility	$1.5 M
	$6.6 M

TOTAL CONGRESSIONAL ADDS 2002 – 2005.....$21.16 M

Recapitalization Cost and Savings[Overhead]

Recapitalization Savings will be realized at each installation which is closing, deactivating, or downsizing.

At a closing or deactivating base, Recapitalization Savings for all years is equal to the base's Installation PRV times 1000 divided by the Service Recapitalization Rate (Screen Four – Base Information (Static)).

At a downsizing base (defined as one with a positive value for Facilities Shutdown in Screen Five – Base Information (Dynamic)), Recapitalization Savings in a given year is equal to the quotient of the base's Installation PRV times 1000 divided by the Service Recapitalization Rate (Screen Four – Base Information (Static)), times the quotient of the Facilities Shutdown (Screen Five – Base Information (Dynamic)) divided by the Starting Facilities (Screen Four – Base Information (Static)), times the Shutdown Cumulative Time Phasing. The year 6 value recurs throughout the Beyond years.

Recapitalization Costs will be realized at each base with new construction, and also at deactivating bases where an Enclave is defined.

Recapitalization Cost in a given year for new construction is equal to sum, for all projects, of the New Milcon Cost for each project (where Total Cost in Screen Seven – Base Information (Military Construction) is zero; see Military Construction Costs) or the Total Cost for each project (Screen Seven – Base Information (Military Construction), where Total Cost is greater than zero) divided by the Service Recapitalization Rate (Screen Four – Base Information (Static)) times the Milcon Cumulative Time Phasing. The year six value recurs throughout the Beyond Years.

At a deactivating base with an Enclave defined (Screen Eight – Base Information (Enclave)), Recapitalization Cost is equal to the sum, for all projects, of Quantity times Area Cost Factor (Screen Four – Base Information (Static)) * (1 + SIOH Rate) * (1 + Contingency Rate) * (1 + Design Rate) * the FAC's Construction Cost Factor plus the product of the Quantity times the Site Prep Cost (for "SF" projects only); all divided by the Service Recap Rate (Screen Four – Base Information (Static)). All MilCon Rates are in Standard Factors – Facilities Tab. Note that if the FAC begins with "5", the Design Rate (Medical) is used, otherwise the Design Rate (Other) is used. Note that the Recapitalization Cost for an Enclave is only incurred in the Beyond years.

Scenario Final Year

The Scenario Final Year is the last year that personnel or equipment are moved, or the highest Close/Deactivate Year, whichever comes last (Personnel and Equipment movement is in Screen Three – Movement Table, Eliminations in Screen Six – Base Information (Personnel), and Close/Deactivate Year in Screen One – General Scenario). The Scenario Final Year for an individual base is the last year that personnel or equipment are moved into or out of the base, or the Close/Deactivate Year (if non-zero), whichever comes last. If a base's Close/Deactivate Year is equal to zero and no personnel or equipment move into or out of the base, then the base's Scenario Final Year is equal to 1.

Data As Of 5/2/2005 10:48:53 AM, Report Created 5/2/2005 10:48:56 AM

Department : Industrial
Scenario File : Z:\Cobra\Munitions&Armaments\IND 0108 Close Hawthorne AD\IND 0108 Close Hawthorne AD Cobra 05022005.CBR
Option Pkg Name: IND 0108 Close Hawthorne AD
Std Fctrs File : C:\Documents and Settings\\Desktop\COBRA 6.10\BRAC2005.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: TOOELE, UT (49878)

Total Officer Employees:	38	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	519	Total Sustainment($K/Year):	8,200
Total Student Employees:	0	Sustain Payroll ($K/Year):	1,287
Total Civilian Employees:	526	BOS Non-Payroll ($K/Year):	17,874
Accomp Mil not Receiving BAH:	0.0%	BOS Payroll ($K/Year):	15,984
Officer Housing Units Avail:	1	Family Housing ($K/Year):	22
Enlisted Housing Units Avail:	0	Installation PRV($K):	1,368,196
Starting Facilities(KSF):	9,415	Svc/Agcy Recap Rate (Years):	103
Officer BAH ($/Month):	981	Homeowner Assistance Program:	Yes
Enlisted BAH ($/Month):	737		
Civ Locality Pay Factor:	1.109		
Area Cost Factor:	1.05		
Per Diem Rate ($/Day):	119		
Freight Cost ($/Ton/Mile):	0.33		
Vehicle Cost ($/Lift/Mile):	4.84		
Latitude:	40.533333		
Longitude:	-112.300000		

TRICARE	In-Pat Admits	Out-Pat Visits	Prescrip
CostFactor	4,160.52	84.00	0.00
Actv MTF	0	1,092	0
Actv Purch	33	1,888	
Retiree	0	2,617	0
Retiree65+	0	32	0

Name: BASE X (ARMY), US (XARMY)

Total Officer Employees:	1	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	7	Total Sustainment($K/Year):	262
Total Student Employees:	0	Sustain Payroll ($K/Year):	143
Total Civilian Employees:	101	BOS Non-Payroll ($K/Year):	0
Accomp Mil not Receiving BAH:	0.0%	BOS Payroll ($K/Year):	0
Officer Housing Units Avail:	0	Family Housing ($K/Year):	92
Enlisted Housing Units Avail:	0	Installation PRV($K):	22,901
Starting Facilities(KSF):	61	Svc/Agcy Recap Rate (Years):	4
Officer BAH ($/Month):	1,676	Homeowner Assistance Program:	No
Enlisted BAH ($/Month):	1,219		
Civ Locality Pay Factor:	1.140		
Area Cost Factor:	1.08		
Per Diem Rate ($/Day):	174		
Freight Cost ($/Ton/Mile):	0.33		
Vehicle Cost ($/Lift/Mile):	4.84		
Latitude:	0.000000		
Longitude:	0.000000		

TRICARE	In-Pat Admits	Out-Pat Visits	Prescrip
CostFactor	0.00	0.00	0.00
Actv MTF	0	0	0
Actv Purch	0	0	
Retiree	0	0	0
Retiree65+	0	0	0

BOS (Base Operations) Non-Payroll Budget
The base operations budget for the base at the beginning of the scenario, not including military or government civilian payroll costs (which are accounted for separately). Communication costs, if tracked separately from BOS costs, should be included here. Service contracts, which do include contractor payroll costs, should be included in this figure. This should not include facilities sustainment costs or family housing costs. (NOTE: For BRAC 2005 the value entered will be the average of actual non-payroll BOS for FYs 01-03, corrected for the War on Terror. Routine environmental costs for compliance, pollution prevention, and conservation should be included here. (Allowed entries 0 to 99,999,999 $K/Yr)

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The number of years it would take for the Service/Agency to regenerate the physical plant (i.e., facilities) either through replacement or major renovation(s) at a given level of investment. (Allowed entries 0.0 to 999.0 years)

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Longitude
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Data As Of 5/2/2005 10:48:53 AM, Report Created 5/2/2005 10:48:57 AM

epartment : Industrial
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5022005.CBR
Option Pkg Name: IND 0108 Close Hawthorne AD
Std Fctrs File : C:\Documents and Settings\\Desktop\COBRA 6.10\BRAC2005.SFF

Base	Plant Replacement Value (2005$) Start	Finish	Change	%Change	Chg/Per
HAWTHORNE DEPOT	3,596,013,700	0	-3,596,013,700	-100%	30,218,602
TOOELE	1,368,196,102	1,368,196,102	0	0%	0
BASE X (ARMY)	22,901,098	22,901,098	0	0%	0
TOTAL	4,987,110,900	1,391,097,200	-3,596,013,700	-72%	36,323,371

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.10)
Data As Of 5/2/2005 10:48:53 AM, Report Created 5/2/2005 10:48:57 AM

Department : Industrial
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Personnel

Base	Start*	Finish*	Change	%Change
HAWTHORNE DEPOT	119	0	-119	-100%
TOOELE	1,083	1,083	0	0%
BASE X (ARMY)	109	129	20	18%
TOTAL	1,311	1,212	-99	-8%

Square Footage

Base	Start	Finish	Change	%Change	Chg/Per
HAWTHORNE DEPOT	9,578,000	0	-9,578,000	-100%	80,487
TOOELE	9,415,000	9,415,000	0	0%	0
BASE X (ARMY)	60,640	60,640	0	0%	0
TOTAL	19,053,640	9,475,640	-9,578,000	-50%	96,747

Base Operations Support (2005$)

Base	Start*	Finish*	Change	%Change	Chg/Per
HAWTHORNE DEPOT	0	0	0	0%	0
TOOELE	17,873,628	17,873,628	0	0%	0
BASE X (ARMY)	0	0	0	0%	0
TOTAL	17,873,628	17,873,628	0	0%	0

Sustainment (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
HAWTHORNE DEPOT	30,420,932	0	-30,420,932	-100%	255,638
TOOELE	6,913,145	6,913,145	0	0%	0
BASE X (ARMY)	118,709	118,709	0	0%	0
TOTAL	37,452,786	7,031,854	-30,420,932	-81%	307,282

Recapitalization (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
HAWTHORNE DEPOT	34,912,754	0	-34,912,754	-100%	293,384
TOOELE	13,283,457	13,283,457	0	0%	0
BASE X (ARMY)	5,725,274	5,725,274	0	0%	0
TOTAL	53,921,486	19,008,732	-34,912,754	-65%	352,654

Sustain + Recap + BOS (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
HAWTHORNE DEPOT	65,333,686	0	-65,333,686	-100%	549,022
TOOELE	38,070,230	38,070,230	0	0%	0
BASE X (ARMY)	5,843,983	5,843,983	0	0%	0
TOTAL	109,247,900	43,914,214	-65,333,686	-60%	659,936

FACT SHEET

U.S. Army Joint Munitions Command
Public Affairs Office
Rock Island, Ill. 61299-6000
Phone:(309) 782-5421. Fax:(309) 782-5011.
E-mail: jmc-ofc-pa@osc.army.mil

January 2003

HAWTHORNE ARMY DEPOT
Hawthorne, Nevada

Hawthorne Army Depot receives, issues, renovates, inspects, tests, demilitarizes and disposes of conventional ammunition. The Western Area Demilitarization Facility is the premier resource recovery and recycling center for conventional ammunition. The government-owned and contractor-operated depot has an ammunition surveillance program and is a Tier II cadre ammunition storage site that maintains additional war reserve stocks. The depot is government owned and contractor operated.

History:	Established	September 15, 1930
Facilities:	Size (acres)	147,236
	Buildings	488
	Igloos	2,427
	Storage Capacity (sq. ft.)	7,685,000
Economic Impact:		
Government (FY 02)	Operating Budget	$2.1 million
	Payroll	$1.75 million
	Local	
Contractor (FY 02) :	Operating Budget	$33.7 million
	Payroll	$11.2 million
	Local	
Employment Level	Civilian	33
	Military	2
	Contactor	455
	Tenants	28
	Subcontractors	77
Peak Employment	Year	1945
	Employees	2,620
National Priority List	NA	
Operating Contractor	Day & Zimmerman	Hawthorne Corporation

Note: BRAC 1995 resulted in the mission for the long- term storage of reserve Industrial Plant Equipment (IPE) being transferred from Seneca Army Depot, N.Y., to Hawthorne. The transfer of 494 pieces of IPE and all associated accessories began in December 1996 and was completed in March 1999. More than 2,000 individual items were shipped to Hawthorne.

TOOELE ARMY DEPOT

Tooele, Utah
435-833-2211, DSN 790-2211
Staff Duty Officer: 435-833-2304, DSN 790-2304

PROFILE

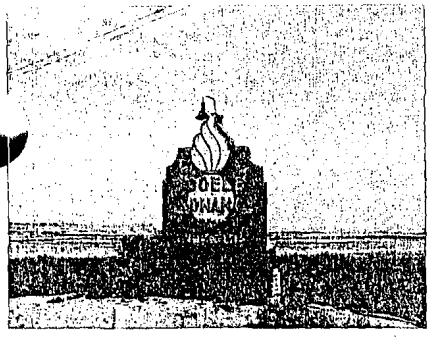
BRANCH: Army
SIZE AND LOCATION:

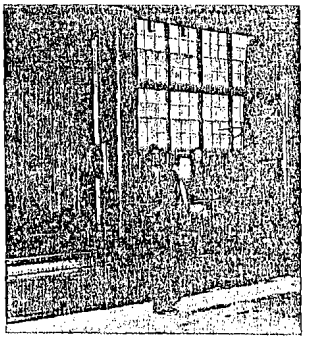
Size: 23,610 acres
Buildings: 260
Location: Tooele County

Igloos/Above Ground
Magazines/Warehouses: 920
Storage capacity:
2,483,000sq.ft.

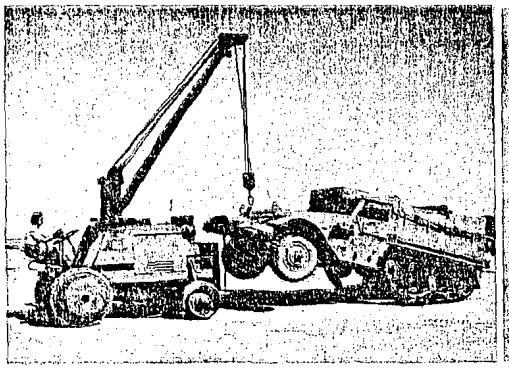
BASE HISTORY

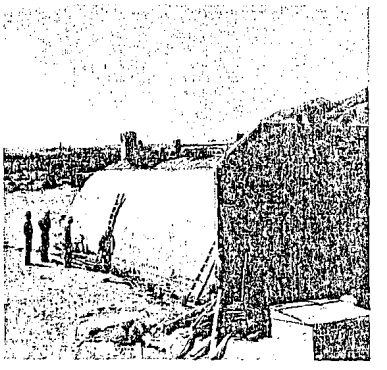
Tooele Army Depot (TEAD) was established in 1942 in an area with a historical tradition of Indian cultures. Early Desert Archaic Indians inhabited the Tooele Valley and probably a portion of the North Area some 11,000 years ago. They were followed by the Late Desert Archaics, the Fremont culture, and the Numic-speaking culture. The Goshute people, who currently inhabit reservations in the surrounding area, are descendants of the Numic-speaking culture.





Historical Depot Pictures
"In the beginning - the early nineteen forties"





Construction of the TEAD facilities was completed in 1943. Originally the north area was known as the Tooele Ordnance Depot, which functioned as a storage depot for World War II supplies, ammunition, and combat vehicles. In 1949 TEAD assumed command of the Deseret Chemical Depot, recently known as TEAD South Area. In 1962 the depot was redesignated the Tooele Army Depot. Since that time the depot has been assigned maintenance mission responsibilities for topographic equipment, troop support items, construction equipment, power generators, and various wheeled vehicles. The depot currently retains only the conventional ammunition storage, maintenance and demilitarization portions of its mission (North Area). The chemical munition storage and demilitarization mission (South Area) has been realigned with CBDCOM and has

stood up as Deseret Chemical Depot.

CURRENT

Tooele Army Depot is a Joint Munitions Command, ammunition storage site, responsible for storing training ammunition, and war reserve ammunition, designs and manufactures ammunition peculiar equipment (APE) for all of Department of Defense.

PERSONNEL AND EXPENDITURES

Active Duty Personnel: 2
Civilian Personnel: 532, Contractors: 160, Tenents: 55
Operating budget: $66,800,000
Payroll: $35,300,000

SERVICES

Housing: Family Units 5; Barracks Sleeping spaces 6; *Temporary Housing:* DVQs 2; VOQs 9. *Medical Facilities:* Medical Clinic. *Recreational Facilities:* Pool, Gym, Golf (driving range), rifle/pistol range, racquetball court, fitness center/weight room, softball field, craft shop, community club, and camping.

Home Page

HWAD Comment: HWAD's research and development test ranges are some of the best all around ranges and are not impeded by adverse weather or encroachment and support multi-service customers of the Department of Defense. Closure of these economical ranges would have an adverse impact on all DOD customers and their ability to quickly get new munitions to the warfighter

Discussion:

While HWAD range complex may not be as large as some of the bigger test facilities, they are of vital importance and multi-service. HWAD ranges provide training to Special Forces and provide research and development of munitions.

- HWAD ranges provide life cycle weapon systems assessment and engineering support for DOD.
- Range capabilities include mortar, artillery gun, pyrotechnics, rocket systems and provided instrumented ranges and high speed video capacity.
- The range is separated from operating units which helps mitigate variability in the performance of system assessment.
- The ranges are available 365 days a year.
- Ranges support USMC 7.62 and 50 caliber formal schools.
- Ranges support development of non-lethal testing of crowd control methods.
- Live fire driving range for small arms up to 50 caliber and MK19 weapons firing practice rounds are utilized by Seal Teams and Marines.
- The range area consists of 18,703 acres of contiguous property.

Bottom Line – The ranges at HWAD provides DOD a unique capability to help ensure that weapons systems supporting operating forces actively fighting in the open-ended war on terrorism, are safe, reliable, and in the highest possible state of readiness.

		Range	MNVR Land			Light BDE		Heavy BDE		SBCT	
Installation	Currently Have MNVR BDE	Direct/Indirect Criteria Satisfied	Light BDE	Heavy BDE	SBCT	Core Facility Costs	Community Facility Costs	Core Facility Costs	Community Facility Costs	Core Facility Costs	Community Facility Costs
Ft Bliss		Yes	Yes	Yes	Yes	$86	$25	$148	$33	$124	$31
Ft Carson	Yes	Yes	Yes	Yes	Yes	$111	$32	$171	$42	$146	$40
Ft Lewis	Yes	Yes	Yes	Yes	Yes	$67	$33	$103	$42	$102	$40
Ft Polk	Yes	Yes	Yes	Yes	Yes	$122	$25	$185	$34	$163	$32
Ft Stewart / Hunter AAF	Yes	Yes	Yes	Yes	Yes	$127	$34	$200	$44	$174	$42
Ft Wainwright	Yes	Yes	Yes	Yes	Yes	$87	$25	$159	$32	$132	$30
Ft Irwin	Yes	Yes	Yes	Yes	Yes	$141	$33	$214	$43	$188	$41
White Sands MR		Yes	Yes	Yes	Yes	$126	$24	$199	$34	$173	$32
Yuma PG		Yes	Yes	Yes	Yes	$148	$29	$221	$39	$192	$37
Ft Benning	Yes	Yes	Yes	Yes		$94	$29	$157	$39	$135	$36
Ft Bragg	Yes	Yes	Yes	Yes		$124	$28	$186	$35	$164	$33
Ft Hood	Yes	Yes	Yes	Yes		$141	$32	$214	$42	$188	$40
Ft Knox		Yes	Yes	Yes		$111	$28	$151	$35	$149	$34
Ft Riley	Yes	Yes	Yes	Yes		$122	$25	$185	$34	$163	$32
Dugway PG		Yes	Yes			$144	$27	$217	$38	$191	$35
Ft AP Hill		Yes	Yes			$133	$33	$205	$43	$176	$40
Ft Campbell	Yes	Yes	Yes			$130	$34	$193	$44	$171	$42
Ft Drum	Yes	Yes	Yes			$147	$35	$220	$45	$194	$42
Ft McCoy		Yes	Yes			$119	$33	$183	$43	$160	$41
Ft Richardson		Yes	Yes			$49	$31	$117	$40	$94	$38
Ft Dix		Yes				$146	$29	$219	$37	$193	$35
Ft Rucker		Yes				$49	$31	$117	$40	$94	$38
Schofield Barracks	Yes	Yes				$87	$32	$160	$42	$134	$39
Ft Jackson		Yes				$135	$30	$207	$37	$178	$35
Ft Sill		Yes				$98	$32	$158	$41	$134	$39

Table 16. Costs to Station One Additional Maneuver Brigade ($M) (FY 03 Requirements)

2.2.2.2 Summary of Add-One Unit Stationing

The Army has the capability to expand to meet facility requirements, but this expansion can be expensive due to large MILCON requirements. Actual costs will be higher due to the limited set of facilities included in the core and community facility groups. Supporting utility infrastructure will increase costs by approximately 25%. Housing will increase costs in all cases.

Each installation listed in Table 16 has some excess facilities. Even with such excess, the cost to place a brigade on any installation is greater than $79M. Facilities such as administrative buildings can be purchased, but maneuver land and range requirements are harder to satisfy. In Table 16 we see there are 20 Army installations that can satisfy a light brigade's maneuver requirements and even fewer for Heavy and SBCT units. Two of the installations listed on Table 13 as having facilities and maneuver land, Ft Huachuca and Hawthorne AD, are not on Table 16 since they do not have range capabilities (Table 6). The future will bring even larger requirements as unit footprints

Potential Impact on Training Ranges

The Army's BRAC recommendations provide for the stationing of returning overseas forces and new modular brigades on existing Army installations. Our review of Army documentation shows these installations are already facing environmental and encroachment issues that constrain their ability to meet unit training requirements. These issues raise concerns that currently constrained installations may face additional challenges and unexpected costs in meeting the training requirements of the additional forces the Army plans to station at these installations. As we reported in June 2005, several of the Army's training ranges already face challenges resulting from inadequate maintenance and modernization and may also require substantial investment for modernization to support the training requirements of the new brigades.[15] Army officials stated they reviewed their BRAC recommendations to ensure that there were no insurmountable environmental or encroachment obstacles. They also noted that their recommendations included costs for training range upgrades. However, we have not validated whether these costs will adequately address training range limitations. Further, we have concerns as to whether the Army will need to acquire additional training range land at existing bases that are already experiencing range limitations—a potential cost not identified in the current BRAC recommendations.

Concerns over the ability of existing training ranges to meet training requirements are exacerbated by uncertainties over the final number and composition of the modular brigades as well as the potential for additional forces returning from overseas. Because of existing constraints on training ranges, the Army developed scenarios to examine the possibility of stationing operational Army units on other installations, including installations belonging to other military services and Army installations with considerable acreage such as the Yuma Proving Ground in Arizona. The Army deemed none of these scenarios feasible for various reasons, such as the configuration of other service installations and their associated training ranges did not meet Army training requirements. For other scenarios, such as use of the Yuma Proving Ground, the lack of adequate infrastructure and the associated high military construction costs that would be required essentially made them infeasible. However, Army officials told us that should the Army decide to create an additional five modular brigades or bring additional forces back from overseas, it may

[15] GAO, *Military Training: Better Planning and Funding Priority Needed to Improve Conditions of Military Training Ranges*, GAO-05-534 (Washington, D.C.: June 10, 2005).

HAWTHORNE ARMY DEPOT (HWAD)
1 SOUTH MAINE AVE.
HAWTHORNE NV 89415-9404

[redacted] Request [ ] Cancel [ ] Modify [ ] Joint Use

Request Date: 10-May-05 Start Date: 5-Jul-05 End Date: 11-Jul-05

Time Start: 800 Time Complete: 1800

Unit POC:	CPT DINERO
Unit:	MWTC
DSN:	839-1444
DSN FAX:	839-1430
Alt POC:	SSGT SCHMITT
Email:	scmittca@mwtc.usmc.mil

Number of personnel:	40
Number of vehicles:	4
Under 24 tons:	0
Number of Aircraft:	0
Number of Generator:	0
Other Equipment:	
a. Refuel Truck	
b. Forklift	
c. Water Buffalo	

Type of training and training requirements

[x] Maneuver
[x] Dismounted
[x] Communications Site
[ ] Drivers training
[ ] MOUNT training
[ ] Demilitarization
[ ] Blank Ammunition*
[x] Pyrotechnics* (Simulator)
[x] Smoke*
[x] Camouflage
[ ] Earth Works*
[ ] Other type (Specify)*

NOTE: * Must be approved by Range Operations

Resources

[ ] GAS HOUSE
[ ] WOODEN TOWER

HWAD Local Training Areas

[ ] 101 AREA COMPOUND
[ ] 107 AREA COMPUND
[ ] POW COMPOUND
[ ] PAMILCO
[ ] Ryan Canyon (Lucky Boy Pass)
[ ] Land Navigation Course
[ ] BLM Land (Approved by Fallon NAS)
[ ] OLD BOMB
[x] NEW BOMB

Range Facilities

[ ] Range A
[ ] Range B
[ ] Range B (North Combat Gully)
[ ] Range B (MP13 Rocket Range)
[ ] WASH to HA Gate (South Combat Gully)
[ ] Range D (24-30 MAR)
[ ] RKT MTN HIGH ANGLE 1
[ ] RKT MTN HIGH ANGLE 2
[ ] QUICK REACTION COURSE
[ ] RKT MTN
[ ] PROP BURN AREA
[ ] KD RIFLE RANGE

Type of Weapons

[X] 9mm [X] Day
[X] M16A2 [X] Night
[ ] M4
[ ] Sniper Rifle
[ ] M249
[ ] 50CAL
[ ] MK19 *TP Only
[ ] M203 *No HE
[ ] Other (List _____)

Type of Ammunition

[ ] 45Cal Ball
[ ] 9mm Ball
[ ] 5.56mm Ball [ ] Blank [ ] Tracer
[ ] 7.62mm Ball [ ] Blank [ ] Tracer
[ ] 40mm [ ] List types _____
[ ] 50 Cal [ ] Blank [ ] Tracer
[X] Pyrotechniques
[X] Smoke
[ ] Other ___ (C4, TNT, DYNAMITE)

**** See SOP for smk and pyro use***
**** See SOP for 40mm ammo use***

ALL UNIT POCs MUST SIGN FOR SCHEDULED AREAS NO LATER THAN 2 WORKING DAYS PRIOR TO OCCUPYING A RANGE OR LTA. FAILURE TO SIGN FOR AREAS BEFORE THE MANDATORY TIME FRAME WILL BE CONSIDERED AS A NO-SHOW.

REQUESTER's SIGNATURE _____

[redacted]

Range Operations, DSN: 830-7482, Fax: 830-7483 E-mail: michael.mcknight@us.army.mil

HAWTHORNE ARMY DEPOT (HWAD)
1 SOUTH MAINE AVE.
HAWTHORNE NV 89415-9404

The following units have agreed to coordinate between themselves for simultaneous use of the same facility, Training area or range as noted below (if approved)

Original unit		*Co-using unit*	
Unit point of contact		Unit point of contact	
Unit:		Unit:	
DSN:	COMM:	DSN:	COMM:
DSN FAX:	COMM:	DSN FAX:	COMM:
Alt POC:		Alt POC:	
Email:		Email:	

HWAD RANGE OPERATIONS USE ONLY

Clearing Unit

The following Training Area, Range or facility [ ] Has [ ] Has not been cleared or returned IAW SOP

Area, Facility or Range

Clearing date Clearing Time Location

Deficiencies

Re-inspection

Clearing date Clearing Time Location

HWAD RANGE OPS Representative:

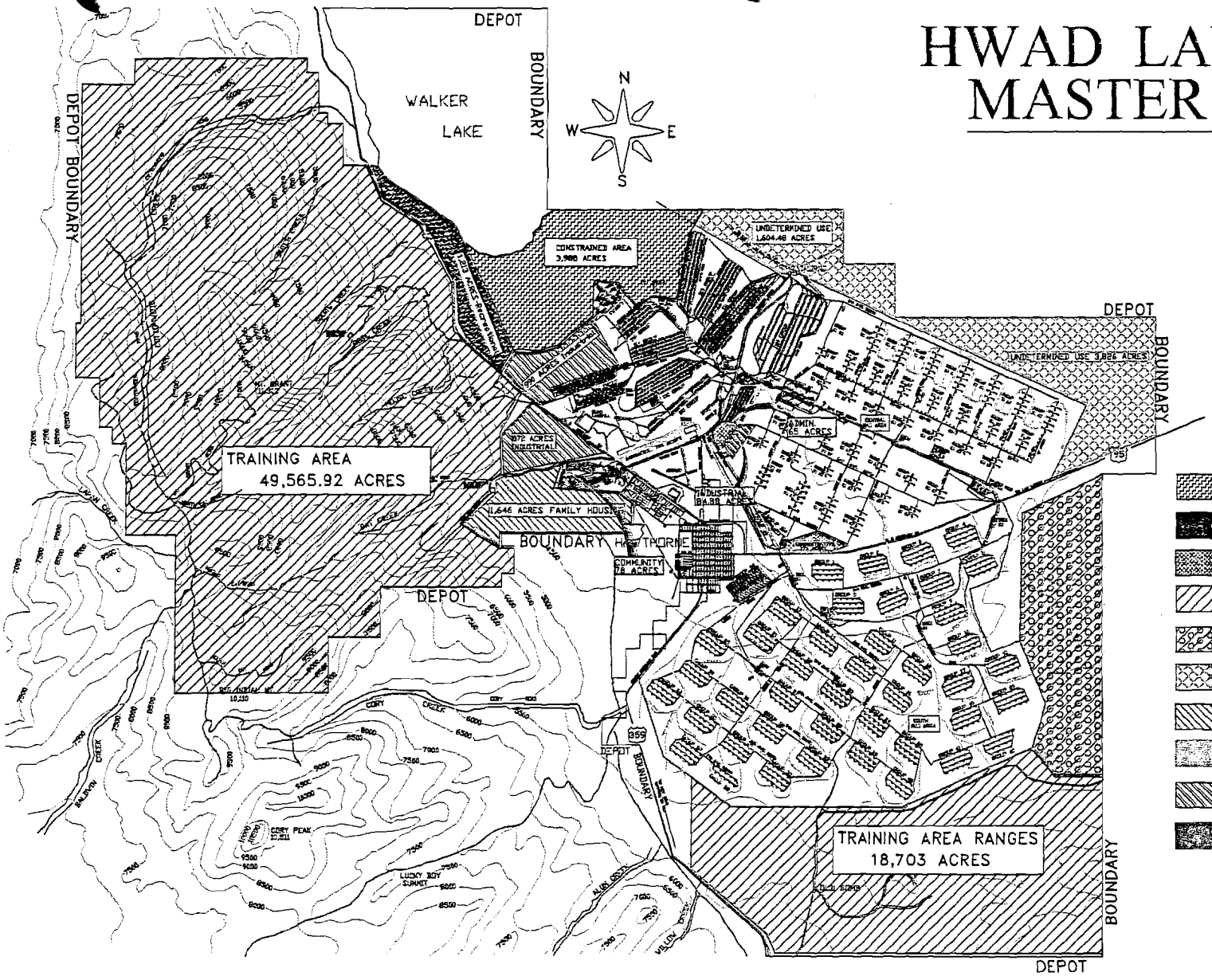
[ ] Approved [ ] Disapproved

Name
Date
Signature

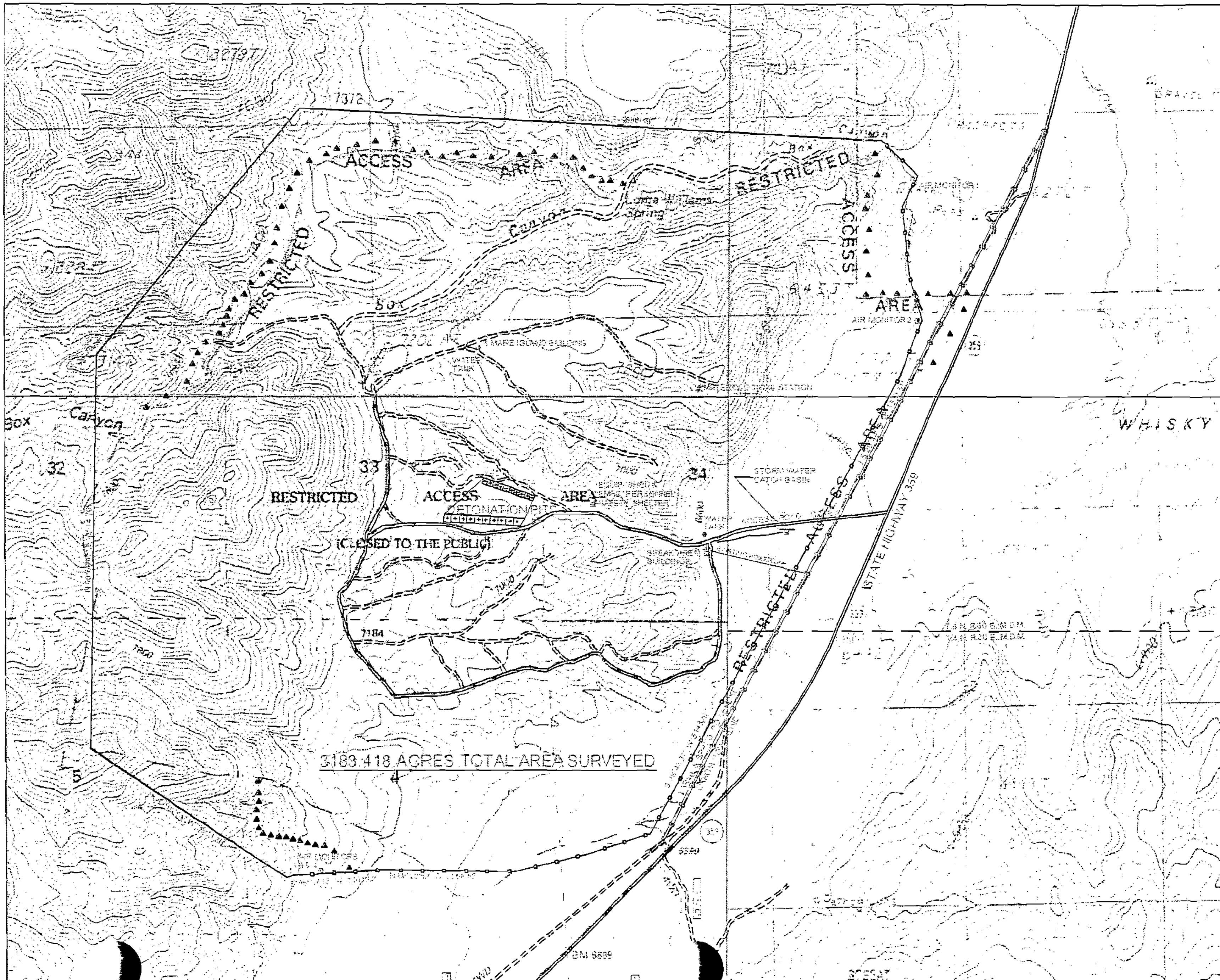
Name
Date
Signature

Range Operations, DSN: 830-7482, Fax: 830-7483 E-mail: michael.mcknight@us.army.mil

HWAD LAND USE MASTER PLAN



- CONSTRAINED AREA: 3,988 ACRES
- RECREATIONAL: 1,213 ACRES
- ADMINISTRATIVE: 238 ACRES
- TRAINING: 61,565 ACRES
- TRAINING / BUILDABLE: 6,703 ACRES
- UNDETERMINED USE: 5,430.48 ACRES
- FAMILY HOUSING: 1,646 ACRES
- BARRACKS: 150 ACRES
- INDUSTRIAL: 1,862 ACRES
- COMMUNITY: 78 ACRES



GPS COORDINATES FROM APPROX. CENTER OF PIT AREA.

LEGEND

- EXIST. DIRT ROAD
- EXIST. FENCE LINE
- EXIST. OVERHEAD POWERLINE
- ▲ OLD WARNING SIGNS
- NEW WARNING SIGNS

DAY & ZIMMERMANN HAWTHORNE CORP.

DZHC CONTRACTOR OPERATOR OF DZHC

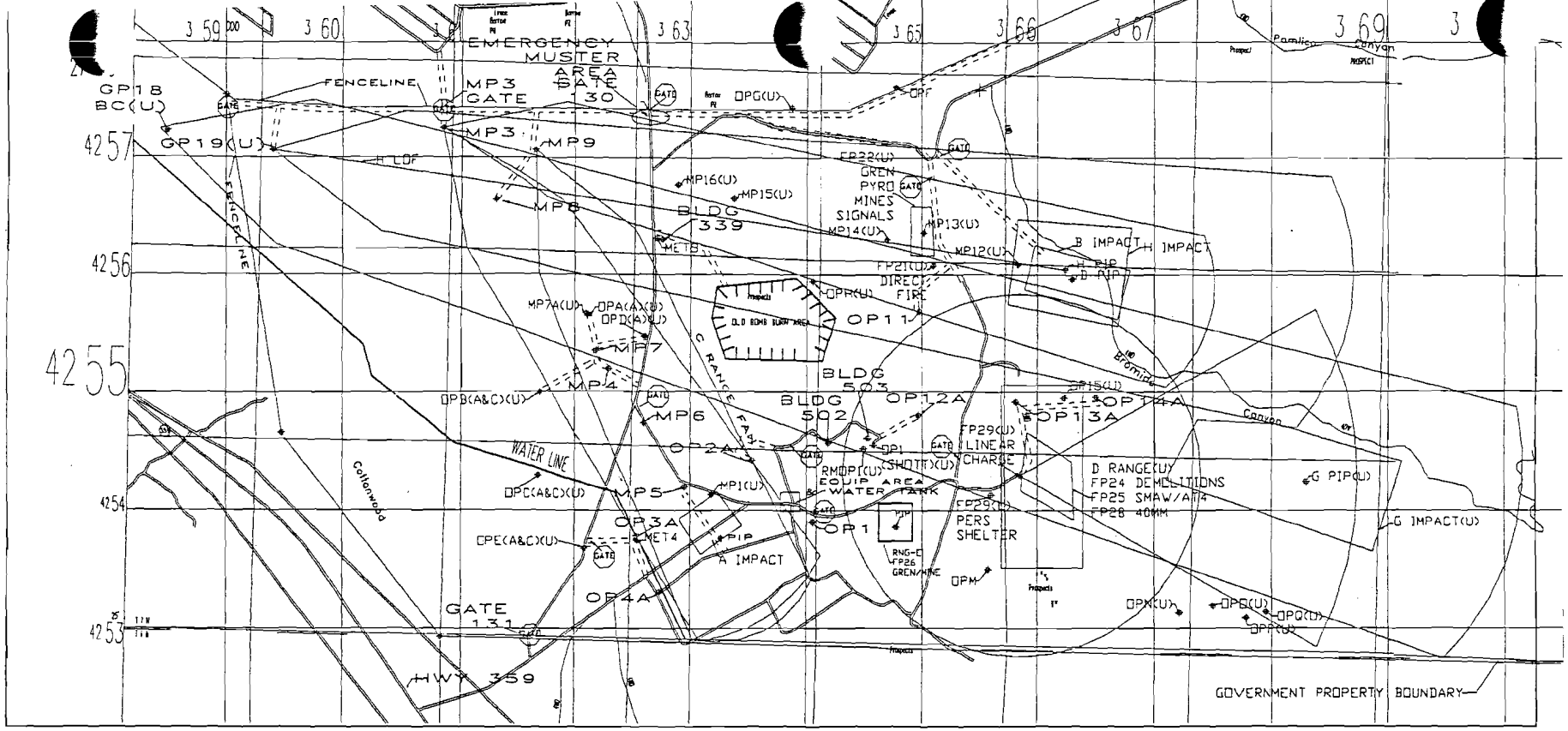
HAWTHORNE ARMY DEPOT

NEWBOMB DETONATION AREA

SITE MAP

1" = 400

1 / 1



LCpl Timothy G. Carter Test Range (Range Map with Sites Without Contours)

SJMHW-ENV 25 July 2005

MEMORANDUM FOR RECORD

SUBJECT: Conversation between Herman Millsap, BRAC IA and John Nester, Site Manager of Naval Undersea Warfare Center on 25 July 2005

1. Mr. Nester related that NUWC has 20,000 tons of Navy undersea mine assets stored at HWAD.

2. He indicated that 340,000 square feet of storage space is currently utilized by the Navy.

3. Cost to relocate the 20,000 tons of Navy assets and special equipment (battery recycling system to Naval Air Station, Fallon, Nevada) would be $20M.

4. Cost to construct facilities at Naval Air Station Fallon to support NUWC mission is estimated at $85M. These facilities would include above ground warehouses, explosive magazines, specialty buildings, such as, subzero storage facility for long-term battery storage, battery recycling facility and electro-magnetic ordnance facility.

Herman Millsap
HERMAN MILLSAP
BRAC, IA

DCN 4903

INDUSTRIAL JOINT CROSS SERVICE GROUP

July 14, 2005

MEMORANDUM FOR FRANK CIRILLO, DIRECTOR REVIEW AND ANALYSIS

Subject: Hawthorne Army Depot, OSD BRAC Clearinghouse #C0512

The following is in response to your e-mail inquiry of July 12, 2005, where you asked the following:

"The recommendation to close Hawthorne Army Depot is confusing. What provisions will be made to provide for testing facilities currently used by NWSC Crane, Fallbrook Detachment. Are these costs reflected in the Hawthorne scenario?"

The cost to relocate 20 people to Base X was included in the COBRA analysis. This number includes the NWSC Crane, Fallbrook Detachment people involved in testing and the NUWC Keyport Annex people involved in Torpedo Maintenance. The FY 2003 ASIP database identified 20, not the 18 recently identified by the Navy. As the COBRA indicates, these people were sent to Base X until the Navy decides where to relocate the workload.

Should additional information be required, feel free to contact me at 703-560-4317 or e-mail jberry@gallows.vacoxmail.com

Jay Berry
Executive Secretary

HWAD Comment: During public hearings, it was stated that the depot has no active production, no active demil and no active distribution, that we are simply a storage facility.

- Public Hearing, Military Base Closings Defense Base Realignment and Closure Commission (BRAC), Wednesday, May 18, 2005, U.S. Senate Dirksen Building, Room 106, Washington, D.C – Pages 84-85

Discussion:

HWAD is a multi-function depot which has actively engaged in supporting the warfighter in Iraq and Afghanistan and has significant demilitarization capabilities, ranges/training for active military personnel and has shipped in support of the ongoing war. The following provides a snapshot of the diversification of HWAD:

- HWAD range scrap recycling capabilities contribute to pilot training and weapons development from Naval Air Station Fallon, China Lake, and Navy Region Southwest air ranges by recycling range scrap from these facilities. Memorandum of agreements with these activities resolve environmental issues of range scrap that were impeding their missions.
- HWAD has signed agreements for recycling of munitions residue from formerly used defense sites (FUDS) from across the United States with the Corps of Engineers.
- The Army has invested millions of dollars in process equipment for decontamination and rendering of expended training munitions items as unrecognizable. A capability other installations do not have.
- The USMC has a formal school for 7.62 and 50 caliber high angle sniper training at HWAD. The Marine Corps also utilizes HWAD for training of instructors, explosive demolition, high desert mountain training, and urban combat warfare. Fifteen hundred Marines from Hawaii attended this training in April 2005.
- HWAD has demilitarized a minimum of 6,000 tons of ammunition per year through its Western Area Demilitarization Facility and permitted open burning/open detonation sites over the past seven years.
- HWAD is the test bed for Mobile Detection Assessment Response System (MDARS). This is a robotic security system that provides state-of-the-art security protection of its South Magazines Area. A similar system will be deployed to Iraq.
- In March 2005, HWAD shipped 3,374 tons of K180 mines in 8 days in support of demolition operations of captured enemy munitions in Iraq.
- HWAD is the home of the Undersea Mine Warfare Center (NUWC) in which all batteries used in undersea ordnance are recycled for recovery of precious metal. The only such facility in the Navy system.
- Navy Seals, both east and west coast teams, utilize HWAD for combat tactic and live fire training due to the terrain similarities of HWAD and Afghanistan and unencumbered availability of training sites. Army Special Forces and National Guard units also use HWAD because of its training attributes.

Bottom Line – HWAD's diversified mission makes it unique in military value in supporting multiple military services at a very small investment that provides an invaluable service to the Department of Defense and its warfighters which other installations do not have. From the comments regarding HWAD, not all available information regarding HWAD capabilities were known during the discussion on May 18, 2005 and were apparently not considered in the proposed decision to close HWAD.

Defense Base Closure and Realignment Commission

/ashington Hearing Schedule

nday, May 16

ɜ. Senate

me: 1:30 PM U.S. Senate Hart Building, Room 216

/itnesses:
anel #1
The Honorable Donald H. Rumsfeld, Secretary of Defense
General Richard B. Myers, USAF, Chairman, Joint Chiefs of Staff

anel #2
Honorable Michael W. Wynne,
Secretary of Defense for Acquisition, Technology and Logistics
The Honorable Philip Grone,
Deputy Under Secretary of Defense for Installations and Environment

estimony: Presentation of Recommendations and Methodology

certified Transcript (pdf)

esday, May 17

. Senate

ne: 9:30 AM U.S. Senate Dirksen Building, Room G50

tnesses:
he Honorable Michael L. Dominguez, Acting Secretary of the Air Force
eneral John P. Jumper, Chief of Staff
esignated Department of the Air Force Officials

stimony: Presentation of Recommendations and Methodology

ertified Transcript (pdf)

me: 1:30 PM U.S. Senate Hart Building, Room 216

ses:
Honorable Gordon England, Secretary of the Navy
dmiral Vern Clark, Chief of Naval Operations
General Michael W. Hagee, Commandant of the Marine Corps.
Designated Department of the Navy and Marine Corps. Officials

estimony: Presentation of Recommendations and Methodology

certified Transcript (pdf)

dnesday, May 18

. Senate

me: 9:30 AM U.S. Senate Dirksen Building, Room 106

itnesses:
The Honorable Francis J. Harvey, Secretary of the Army
General Peter J. Schoomaker, Army Chief of Staff
Dr. Craig College, Deputy Secretary for Infrastructure Analysis

estimony: Presentation of Recommendations and Methodology

ed Transcript (pdf)

me: 1:30 PM U.S. Senate Dirksen Building, Room 106

itnesses:
ndustrial:
The Honorable Michael W. Wynne,
Undersecretary of Defense for Acquisition, Technology and Logistics

upply and Services:
Vice Admiral Keith W. Lippert,
Director, Defense Logistics Agency

ducation and Training:
he Honorable Charles S. Abell,
rinciple Deputy Undersecretary of Defense for Personnel and Readiness.

ntelligence:
Ms. Carol A. Haave, Deputy Undersecretary of Defense, Counterintelligence and curity

ny: Presentation of Recommendations and Methodology, Department of , Joint Cross Service Groups

ertified Transcript (pdf)

rsday, May 19

Senate

ne: 9:30 AM U.S. Senate Hart Building, Room 216

nesses:
ne Honorable Dr. Ronald M. Sega, Director of Defense Research and Engineering
. Gen. (Dr.) George Peach Taylor, Jr., Surgeon General of the Air Force
r. Donald C. Tison, Deputy G-8, U.S. Army

stimony: Presentation of Recommendations and Methodology Department of fense's Joint Service Groups

ertified Transcript (pdf)

PUBLIC HEARING

MILITARY BASE CLOSINGS DEFENSE BASE REALIGNMENT

AND CLOSURE COMMISSION (BRAC)

Wednesday, May 18, 2005

Hart Senate Office Building, SH-216

Washington, D.C.

UNCORRECTED TRANSCRIPT

And so that's what we're trying to do across the complex. And there are clearly, as you articulated, there are clearly risks involved in that, and it's our job to try to manage that risk. It's to get that capability, and I guess personally I've been involved where I've had people look around for Mr. Right for two or three years rather than hiring a bright guy out of a great technical school and giving him six months and saying, wow, he really knows what he's doing.

And so there are people, there are young people out there that surprise you, and quickly get up to speed. So it's a balance between those two things. It's life I guess -- I guess what I'm saying, life's a compromise. And this is a balancing act to take advantage of that center of excellence.

MR. BILBRAY: Well, I disagree with that decision, but let's go on to question two. Let's talk about Hawthorne Army Depot. You're closing down certain Army depots. And of course, it's not in my old district, but it's in Northern Nevada. I'm just curious what the rationale -- I know you go out there and you see pillboxes after pillboxes -- not pillbox, but storage facility after storage facility. Do we have the capability to store munitions like we do at Hawthorne and other areas?

MR. HARVEY: We have significant excess in munition storage in the complex. And again, what we're trying

to do is to get production and storage distribution and demilitarization all in a couple of places. And we have these five joint munition centers that we are going to do that in Crane, McCleeser, and Pine Bluff.

So we have significant excess capacity and Hawthorne was simply a storage facility. It had no active production, no active demil, no active distribution.

MR. BILBRAY: Let's talk a little about the Forts McPherson, Gillem and Monroe. What was the logic behind the closing of those?

MR. HARVEY: That, again, is to -- that's a move to get -- to get multiuse sites and to get out of bases that are confined and have -- that are in urban centers that really don't have a lot of military value in that sense.

So what we wanted to do was to go from basically installations of low military value to ones at higher. And if you look at the list of military value of those, Fort McPherson, Gillem and Monroe, they were on the low side. And then as we migrate, we get -- we get the synergies and the cost of ownership that is associated, for example, taking FORSCOM to the Bragg -- to the Bragg/Pope complex. That was the thought there.

DR. COLLEGE: The smaller single function installations from a military value perspective, one of the

MEMORANDUM OF AGREEMENT

Between

NAVY REGION SOUTHWEST

and

NAVAL AIR WEAPONS STATION CHINA LAKE

and

HAWTHORNE ARMY DEPOT

for

CHINA LAKE RANGE RESIDUE PILOT PROJECT

1. PURPOSE AND BACKGROUND: This MOA addresses the roles and responsibilities of all parties to this Agreement regarding the China Lake Range Residue Pilot Project.

Navy Region Southwest, hereinafter referred to as the Navy, in accordance with Department of Defense (DoD) Directive 4715.11, "Environmental and Explosive Safety Management on Department of Defense Active and Inactive Ranges," elects to establish procedures for range clearance operations to permit the sustainable use of Navy Region Southwest ranges for their intended purpose. In so doing, the Navy desires to recycle range residue, with the goals of addressing the regulatory and public concerns regarding the environment and public safety through the development of environmentally sound processes, and developing a cost-effective, liability-reducing solution to range management issues.

Hawthorne Army Depot, hereinafter referred to as the Army, has extensive experience in the field of demilitarization and disposal of munitions, and has expressed a desire to assist in the recycling of the Navy's range residue. The Navy desires to take advantage of Army experience, as well as its expressed desire to assist the Navy in its range management.

The purpose of this Agreement is to outline the roles and responsibilities of Navy Region Southwest, the Naval Air Weapons Station China Lake, and Hawthorne Army Depot, in executing a pilot project to assess the capability of the Army to process range residue from the Navy's Southwest Region ranges in furtherance of the stated goals of the Navy.

2. AUTHORITY: Authority to enter into this MOA is provided in: DoD Instruction 4000.19, "Interservice, Interdepartmental, and Interagency Support," August 9, 1995, and DoD Directive 4715.11, "Environmental and Explosives Safety Management on Department of Defense Active and Inactive Ranges within the United States, " August 17, 1999.

3. NAVY REGION SOUTHWEST RESPONSIBILITIES:

Provide funding to Army in the amount of $400.00 per ton (total $40,000.00) for the processing of Naval Air Weapons Station China Lake range residue.

4. NAVAL AIR WEAPONS STATION CHINA LAKE RESPONSIBILITIES:

a. Provide one hundred (100) tons of range residue, regardless of the amount actually accepted by the Army in accordance with Paragraph 5.e. and 5.f. of this Agreement, consisting of a variety of items, including a minimum of ten (10) tons of aluminum, so various demilitarization processes may be tested;

b. Develop a transport schedule based on proposed delivery dates provided by Hawthorne Army Depot pursuant to Paragraph 5.c. of this Agreement, existing capabilities, and load and transfer times; provide the schedule to Army, as well as provide the Army notice of any modifications to the schedule;

c. Provide the Army a minimum of twenty-four (24) hours notice before delivery of range residue to Hawthorne Army Depot, and make deliveries on Monday, Tuesday, Wednesday or Thursday between the hours of 0630 and 1700;

d. Inspect all range residue prior to transport to ensure that it is safe to transport, and contains no visible explosives (i.e., HE, fuses, or spotting charges);

e. Certify the range residue as safe to transport, annotate no visible explosives on the transportation documentation, and place applicable placards on transportation devices and containers;

f. Transport range residue from Naval Air Weapons Station China Lake to Hawthorne Army Depot;

g. Remove, from Hawthorne Army Depot, range residue transported from Naval Air Weapons Station China Lake that is not accepted by the Army in accordance with Paragraph 5.e. of this Agreement within 48 hours of notification that the range residue is not accepted;

h. Provide notice to Hawthorne Army Depot of items deemed accepted pursuant to Paragraph 5.f. of this Agreement.

5. HAWTHORNE ARMY DEPOT RESPONSIBILITIES:

a. Develop a recycling program to eliminate future liability for the Department of Defense by maintaining control of all ordnance related ammunition, explosives, and other dangerous articles (AEDA) and range residue until the demilitarization process is completed (i.e., disassembled, shredded, etc.);

b. Assume responsibility for range residue from Naval Air Weapons Station China Lake in accordance with the definition of "assumption of responsibility" set forth in Section 6. of this Agreement, at the time the range residue is accepted by Hawthorne Army Depot in accordance with paragraph 5.e. of this Agreement;

c. Provide Naval Air Weapons Station China Lake personnel with a schedule of proposed delivery dates for range residue transported from Naval Air Weapons Station China Lake;

d. Provide the range residue transporter a designated area for deposit of range residue upon arrival at Hawthorne Army Depot, and acknowledge delivery and receipt of the range residue by issuance of Weight Tickets to Naval Air Weapons Station China Lake personnel for each load of range residue at time of deposit at Hawthorne Army Depot;

e. Provide a written determination of acceptability of delivered range residue to the range residue transporter and/or appropriate Naval Air Weapons Station personnel within forty-eight (48) hours of delivery (excluding non-working Fridays, Saturday, Sunday, and federal holidays), and identify, in writing, any items that are not accepted for processing, and provide the reason for the non-acceptance to the transporter and/or appropriate Naval Air Weapons Station personnel;

f. Assume responsibility, in accordance with the definition of "assumption of responsibility" set forth in Section 6. of this Agreement, for all items for which an acceptability determination has not been made under Paragraph 5.e. of this Agreement within forty-eight (48) hours of delivery, excluding weekends and federal holidays;

g. Store range residue until processed;

h. Ensure range residue from Naval Air Weapons Station China Lake remains segregated from other material throughout storage and processing;

i. Ensure the security of range residue from Naval Air Weapons Station China Lake through appropriate means, including freedom from tampering, negligence, and willful acts;

j. Shall develop a procedure for processing of the range residue in accordance with Army's standards for the management of materials as noted in contract DAAA09-99-D-0022;

k. Use established training and experience standards necessary for the range residue demilitarization and disposal process.

l. Have designated personnel evaluate, inspect and certify material as safe to process, by categories, e.g., BDU 48s {10# practice bomb}, aluminum, ordnance and target scrap, and other range residue, on a sampling basis before processing;

m. Certify and validate any heat-treated range residue as inert through sampling (free of AEDA) by designated personnel through the use of laboratory results, reactivity testing, etc.;

n. Provide a DD250 after completion of process, which includes the statement, "I certify that the items herein have been subjected to an approved process and inspected by me or by qualified inspections under my supervision, and contain no material of a hazardous or explosive nature.";

o. Provide end-use and inert certifications for demilitarized components for resale;

6. MISCELLANEOUS:

Definitions:

"Range residue" means material including, but not limited to, practice bombs, expended artillery, small arms and mortar projectiles, aircraft bombs and missiles, rockets and rocket motors, hard targets, grenades, incendiary devices, experimental items, demolition devices, berms, and any other material fired on, or upon a military range.

"Assumption of responsibility" means that a party assumes legal and equitable responsibility, both absolute and contingent, for all aspects of the material, including, but not limited to: loading, transportation, storage, processing, recycling, distribution, or other disposition. Liability includes all potential or actual obligations, claims, or causes of action. The party assuming responsibility has a duty to defend or finance the defense of legal or administrative actions brought against the party from whom responsibility was assumed. Liability includes all aspects of environmental liability. Assumption of responsibility is an absolute event, and once it occurs, is forever established as between the party assuming responsibility, and the party from whom responsibility is assumed.

7. MODIFICATION: Modifications to this Agreement must be in writing, and require consent of all parties to this Agreement.

8. TERMINATION: Any party to this Agreement may withdraw from this Agreement by providing 30 days written notice to the other parties. Unless otherwise modified in accordance with Paragraph 7., or previously terminated, this Agreement terminates upon completion of the pilot project. Naval Air Weapons Station China Lake will have completed its responsibilities under this Agreement upon acceptance by Hawthorne Army Depot of transported range residue that satisfies the description and total tonnage set forth in Paragraph 4 of this Agreement.

9. EFFECTIVE DATE: This Agreement becomes effective upon execution by all parties. This Agreement will remain effective until the pilot project is completed unless earlier terminated in accordance with Paragraph 8. of this Agreement, or other applicable authority. Provided, that the provisions in this Agreement related to assumption of responsibility by Hawthorne Army Depot associated with transported range residue are final and conclusive, and thereby survive the expiration or termination of this Agreement.

10. POINT OF CONTACT:

a. Navy Region Southwest POC:

Larry Jones
Deputy ACOS/PM Ranges
Navy Region Southwest
Naval Air Station Fallon, Nevada

b. Naval Air Weapons Station China Lake POC:

Bud Oldroyd
Head, Surface Operations Branch
Code 521500D
Naval Air Warfare Center
Weapons Division
China Lake, CA

b. Hawthorne Army Depot POC:

Florentino Cardenas (ACO)
Civilian Executive Assistant
Hawthorne Army Depot
Hawthorne, NV

11. APPROVALS:

ACCEPTANCE OF AGREEMENT on behalf of Navy Region Southwest

BY: _____ 29 July 2003
Commander — Date
Navy Region Southwest

ACCEPTANCE OF AGREEMENT on behalf of Naval Weapons Station China Lake

BY: _____ 30 JULY 2003
Commanding Officer — Date
Naval Air Weapons Station China Lake

ACCEPTANCE OF AGREEMENT on behalf of Hawthorne Army Depot

BY: _____ 8 Aug 03
Commanding Officer — Date
Hawthorne Army Depot

MEMORANDUM OF AGREEMENT
RANGE RESIDUE PROCESSING PROGRAM
NAVY REGION SOUTHWEST AND HAWTHORNE ARMY DEPOT

This Memorandum of Agreement (MOA) made and entered into this 10th day of February, 2005, by and between the Navy Region Southwest, Program Director Ranges, hereinafter referred to as NRSW and the Commander Hawthorne Army Depot, hereinafter referred to as HWAD.

1. PURPOSE AND BACKGROUND:

This MOA addresses the roles and responsibilities of all parties to this agreement regarding the Range Residue Processing Program with NRSW and HWAD.

NRSW in accordance with Department of Defense (DOD) Directive 4715.11, "Environmental and Explosive Safety Management on Department of Defense Active and Inactive Ranges," elects to establish procedures for range clearance operations to permit the sustainable use of NRSW ranges for their intended purpose.

NRSW elects to dispose and/or recycle range residue (defined in Section 5 of this MOA). With the goals of:

1.) Ensuring all range residue is released to recycling markets is demilitarized in accordance with DOD standards.
2.) Is free of hazards to human health and safety, and does not resemble military munitions.
3.) Providing sound stewardship of natural and man-made resources by encompassing and achieving a safe recycling strategy with the "best value" for the recyclables on the market as well as ensuring that all range residue is properly disposed of according to applicable environmental statutes.
4.) Improving range residue-processing techniques to meet the special demands of handling and demilitarizing munitions range scrap.

"Best value" will be accomplished by optimizing scrap handling at the worksites by using procedures common to the scrap recycling industry. A conscious effort will be made to improve the scrap handling process and "lessons learned" will be provided in the site closeout report at the end of each task order.

2. AUTHORITY:

Authority to enter into this MOA is provided in: DOD Instruction 4000.19, "Interservice, Interdepartmental, and Interagency Support," August 9, 1995, and DOD Directive 4715.11, "Environmental and Explosives Safety Management on Department of Defense Active and Inactive Ranges within the United States," August 17, 1999.

3. NAVY RESPONSIBILITIES ARE TO:

1. Provide funding for all cost of transporting, demilitarization, mutilation, inert certification, disposal, and recycling at an agreed rate per ton for range residue;
2. Document in coordination with HWAD that there is a known market for range residue associated with NRSW Operational Training Range (OTR) Complexes;
3. Provide HWAD access to NRSW OTR Complexes for the purpose observing range residue certification and loading procedures. Provide range access brief to HWAD staff bi-annually;
4. Provide a current list of Explosive Ordnance Disposal Mobile Units personnel and sample signatures within NRSW which are qualified and authorized to inspect and certify range residue to be transported to HWAD;
5. Receive containers, inspect/certify, load, and secure into HWAD-supplied shipping containers (modified as required IAW 49 CFR Part 173.24) and onto conveyances;
6. Certify range residue as safe to ship (sub-scale munitions having fuses or spotting charges) or inert (having no explosive hazard or hazardous, toxic, or radiological waste as part of the shipping documentation;
7. Place certified range residue by categories, e.g. BDU 48's (10# practice bomb), aluminum, ordnance and target scrap and other range residue in separate containers for transport. Provide reference numbers on the containers, and ensure containers are safe to transport;
8. Be responsible for all suspect range residues as identified by HWAD Explosive Ordnance Detachment (EOD);
9. Obtain an Interim Hazard Classification (IHC), enclosure 1, from Naval Ordnance Safety and Security Activity (NOSSA) for each range residue that will be shipped to HWAD, which cannot be certified as inert. Renew IHC as necessary on an annual basis;
10. Obtain approval documentation (Certificate of Equivalency), enclosure 2, for proposed Roll-On / Roll-Off and Half-high milvan containers from NOSSA prior to HWAD transporting range residue to HWAD;
11. Develop in coordination with HWAD a container delivery and transport schedule in accordance with NRSW OTR availability;
12. Remove, from HWAD, items that were not accepted by the Army within 48 hours of notification that the range residue is not accepted (excluding non-working days, i.e. Friday, Saturday, Sunday, and federal holidays) between the hours of 0630 and 1700;
13. Prepare all necessary documentation for the transport of all range residues. Each NRSW OTR complex will conduct the required NEPA documentation for this project.

4. ARMY RESPONSIBILITIES ARE TO:

1. Provide access to NRSW staff for periodic quality assurance visits;
2. Deliver and stage, in coordination with NRSW Functional Manager (FM) for Ranges, Half-high milvans or roll on / roll off containers to NRSW OTR Complexes;
3. Develop in coordination with NRSW FM Ranges a container delivery and transport schedule in accordance with NRSW OTR availability;
4. Transport range residue from NRSW OTR complexes to HWAD;
5. Provide written determination of delivered range residue by means of a receipt process including final weights to the range residue transporter and/or NRSW FM Ranges within forty-eight (48) hours of delivery (excluding non-working Fridays, Saturday, Sunday, and federal holidays);
6. Stage NRSW OTR Complexes range residue until processed;
    a. Ensuring range residue is documented and segregated from other NRSW OTR Complexes' range residue or any other HWAD customers' material throughout storage and processing
    b. Ensuring the security of range residue through appropriate means, including freedom from tampering, negligence, and willful acts
7. During the processing stage, within forty-eight (48) hours after finding a suspect item notify in writing any items that are not accepted for processing, and provide the reason for the non-acceptance to the transporter and/or NRSW FM Ranges.
8. Demilitarize, mutilate, certify inert, dispose of and/or recycle range residue from NRSW OTR Complexes. DOD 4160-21-M and 4160-M-1 (current version) will be used as a reference for the demilitarization efforts;
9. Certify and validated all NRSW range residue as inert through heat treatment and/or inspection by designated personnel;
10. Assume responsibility for all range residue from NRSW OTR Complexes in accordance with the definition of "assumption of responsibility" (section 5 of this Agreement), at the time the range residue is accepted by HWAD personnel in accordance with Section 4, paragraphs 4 and 5 of this Agreement;
11. Provide tracking and identification throughout HWAD processes and resale practices;
12. Provide a DD250 after completion of process, which includes the statement, "I certify that the items herein have been subjected to an approved process and inspected by me or by qualified inspectors under my supervision, and contain no material of a hazardous or explosive nature";
13. Provide a certificate of recycling or end use, identifying the recycler and verifying the recycler's acceptance of the range residue as scrap metal. This certificate will include the date, type, and amount of range residue accepted and recycled by the specific recycler.

5. MISCELLANEOUS:

Definitions:

"Range residue" means material including, but not limited to, practice bombs, expended artillery, small arms and mortar projectiles, aircraft bombs and missiles, rockets and rocket motors, targets (to include tires), grenades, incendiary devices, experimental items, demolition devices, berms, and any other material fired on or upon NRSW OTR Complexes.

"Assumption of responsibility" means that a party assumes legal and equitable responsibility, both absolute and contingent, for all aspects of the material, including, but not limited to: transportation, storage, processing, recycling, distribution, or other disposition. Liability includes all potential or actual obligations, claims, or causes of action. The party assuming responsibility has a duty to defend or finance the defense of legal or administrative actions brought against the party from whom responsibility was assumed. Liability includes all aspects of environmental liability. Assumption of responsibility is an absolute event, and once it occurs, is forever established as between the party assuming responsibility, and the party from whom responsibility is assumed.

6. Duration / Modification / Amendment / Withdrawal:

1. This MOA shall remain in effect for a period of five (5) years from its effective date. It may be amended or extended by mutual agreement of the parties;
2. The provisions of this MOA, which require performance after the expiration or termination of the MOA, shall remain in force notwithstanding the expiration or termination of this MOA;
3. If any provision of the MOA is determined to be invalid or unenforceable, the remaining provisions shall remain in force and unaffected to the fullest extent permitted by law and regulations;
4. Disputes: The parties agree that in the event of a dispute the parities shall use their best efforts to resolve the dispute informally. The parties further agree that should informal dispute resolutions fail, the persons holding the titles below will meet to resolve the dispute;
5. Amendment, Modification and Termination: This MOA may only be modified or amended by written mutual agreement of the parities. Either party may terminate this MOA by providing 60 days written notice to the other party.

Signatures:

10 Feb 05

W. S. Ryder, CAPT, USN — Date
Commanding Officer, NAS Fallon
Program Director Ranges,
Navy Region Southwest

7 Feb 05

Johnny M. Summers, — Date
LTC, OD
Commanding Hawthorne Army Depot

ENCLOSURES

INTRIM HAZARD CLASSIFICATION

041584.PDF

CERTIFICATES OF EQUIVALENCY

NA-04-527.pdf

NA-04-528.pdf

U.S. Army Corps of Engineers
Engineering and Support Center, Huntsville
P.O. 1600
Huntsville, AL 35807-4301

News Release

Number: 03-06

Agreement Will Improve Processing of Military Range Munitions Scrap

Date: May 8, 2003

Huntsville, Ala.-- The Huntsville Center, U.S. Army Corps of Engineers recently helped to forge an agreement that will improve safety and streamline handling processes for identifying, removing, safeguarding, certifying, and recycling military range munitions scrap.

The agreement between Hawthorne Army Depot, Nevada (HWAD) and the U.S. Army Corps of Engineers, signed on April 16, 2003, established the Hawthorne facility as a centralized recycling center for processing and recycling of inert ordnance and related range materials within the continental United States. Under the agreement, the Corps of Engineers and its contractors will remove and process Department of Defense range residue/scrap for recycling at HWAD. Range residue/scrap includes targets and expended munitions.

The Huntsville Center has developed a "cradle to grave" process that includes a complete chain of custody procedures to ensure that all munitions are carefully checked and rendered harmless before recycling. The approved agreement also promotes prudent environmental and resource management by using recycled metal.

"One reason our military forces are superb is because they have training ranges that provide them the greatest degree of tactical combat realism, " said Glenn Earhart of the Huntsville Center Corps of Engineers. "As munitions become more precise, as environmental statutes change, and as the services downsize; the need for safe and adequate training ranges becomes more critical. This agreement between Hawthorne and the Corps of Engineers is an important partnership because it will enhance readiness and improve the environmental settings of past and present military ranges. Our team approach provides an innovative engineering solution to the complex issues of range scrap recycling."

"Hawthorne Army Depot is ideally located near many ranges," said Florentino Cardenas, Civilian Executive Assistant of HWAD. "Whether the item is a small expended ammunition or a large target such as a tank, Hawthorne has modern demilitarization facilities to safely handle and recycle the metal. Selection of Hawthorne will also provide economical stability and more fully use one of America's premier demilitarization facilities," Cardenas said.

Hawthorne Army Depot is located in Hawthorne, Nevada, approximately 140 miles southeast of Reno.

-END-

Public Affairs 256.895.1690
Fax: 256.895.1689
Huntsville Center: *"Put Huntsville on Your Team!"*
Visit our website at www.hnd.usace.army.mil

DEPARTMENT OF THE ARMY
HUNTSVILLE CENTER, CORPS OF ENGINEERS
P.O. BOX 1600
HUNTSVILLE, ALABAMA 35807-4301

REPLY TO
ATTENTION OF:

CEHNC-OE

MEMORANDUM FOR Commander, Hawthorne Army Depot, 1 South Maine Avenue, Hawthorne, Nevada, 89415-9404

SUBJECT: - Memorandum of Agreement (MOA) between Hawthorn Army Depot and the U.S. Army Corps of Engineers, Engineering and Support Center, Huntsville (USAESCH) - Centralized Range Residue Recycling Facility (CRRRF)

1. Enclosed is the subject MOA for your signature.

2. Our respective staffs have coordinated the attached MOA with the recommendation that I execute the agreement. Upon receipt of the fully endorsed MOA, I will direct my Program Manager, Mr. Glenn Earhart, to proceed with implementing the MOA. He is also in the process of developing Standard Operating Procedures to be used for executing the agreement.

3. I also fully endorse a formal public release and notification strategy for the Department of Defense, Department of the Army, and other stakeholders of this important process for range sustainment. The Program Manager and my Chief of Public Affairs will work with your team to make the necessary arrangements.

4. If you have any questions, please contact Mr. Glenn Earhart at 256-990-1852.

Encl

HARRY L. SPEAR
Colonel, U.S. Army
Commanding

DATE: JUN 1 8 2003
TO: PLANT MANAGER
HWAD Operating Contractor

FWD FOR
☒ INFORMATION
☐ ACTION
☐ REPLY BY: _____
GOVT PROC: _____
OFS SYMBOL: _____

SIGNATURE (REQUIRED FOR ACTION ONLY)
ACO

Memorandum of Agreement (MOA)
Between
Hawthorne Army Depot (HWAD), Nevada
&
U.S. Army Corps of Engineers (USACE) Engineering & Support Center, Huntsville (USAESCH)

Subject: Roles & Responsibilities for "cradle to grave" processing of certified no explosive safety hazard military range residue

1. Objective: Develop a partnership between Hawthorne Army Depot (HWAD) and U.S. Army Corps of Engineers (USACE) and outline the procedures for "cradle to grave" management of range residue (scrap) ensuring Army control of the range residue from discovery to destruction. Range residue is defined as material including, but not limited to, practice bombs, expended artillery, small arms, mortar projectiles, aircraft bombs and missiles, rockets and rocket motors, hard targets, grenades, incendiary devices, experimental items, demolition devices, and any other material fired on or upon a military range.

2. Strategy: Cradle to grave management of range residue. The following steps are involved in this strategy; discovery, excavation, certification, storage, transporting, storing, processing, and destruction of ordnance items to a non-look alike condition. Maintaining chain of custody throughout the process is essential in maintaining control of range residue. In this strategy, USACE would be responsible for delivering range residue certified to contain no explosive hazard to HWAD. HWAD would accept the certified range residue and maintain the chain of custody until a certificate of destruction or DD Form 250 is issued. This process requires Army or DoD control of range residue from discovery to destruction.

3. Scope: This agreement defines the roles and responsibilities that USACE and HWAD will implement throughout the range residue processing to ensure a safe and thorough operation providing a quality end product. Both parties will implement this agreement in accordance with Federal, State and local laws.

4. The U.S. Army Corps of Engineers will:

   a. Certify all range residue as having no explosive hazard or hazardous, toxic and radiological waste, place in containers for transportation, label and provide reference numbers on the containers, transport to HWAD and execute the documentation transferring the non-explosive military range residue to HWAD.

   b. Provide estimates of expected tonnage to be shipped 20 days in advance of the arrival of the certified range residue to HWAD unless both parties agree to a change in the shipping date.

   c. Allow access for site visits.

   d. Negotiate in advance of work and provide any required funding to HWAD for costs associated for cradle to grave processing of USACE range residue.

   e. Provide a current list of the personnel and sample signatures, which are qualified and authorized to inspect, certify, and verify range residue for each project utilizing HWAD services.

   f. Ensure all engine fluids, illuminating dials and other visible liquid hazardous, toxic and radiological wastes are removed from any materials delivered to HWAD for further recycling.

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Memorandum of Agreement (MOA)
Between
Hawthorne Army Depot (HWAD), Nevada
&
U.S. Army Corps of Engineers (USACE) Engineering & Support Center, Huntsville (USAESCH)

5. Hawthorne Army Depot will:

   a. Accept USACE certified and verified range residue, maintain the agreed upon chain of custody, store, process and provide a certificate of destruction or DD Form 250 certifying that the range residue has been destroyed/melted and no longer is identifiable as items of ordnance.

   b. Allow access for periodic quality assurance visits

   c. Ensure range residue is under Government control at all times.

   d. Provide a documented, formal acceptance of USACE delivered and certified range residue.

   e. Not accept or process any USACE military range residue that has not been processed in accordance with these USACE procedures and guidelines.

   f. Provide a firm fix price cost estimate for processing costs. Costs associated with cost estimating will be the responsibility of HWAD.

   g. Provide copies of DD Form 250 monthly.

6. Points of Contact (POC) for this action are:

   a. Hawthorne Army Depot

      1. Government Point of Contact: Mr. Florentino Cardenas, (O) 775-945-7002; CARDENSF@HAWTHORNE-emh1.army.mil

      2. Day & Zimmermann Point of Contact: Mr. Don Vaden & Ms. Debbie Sitton-Baker (O) 775-945-7200; vadend@hawthorne-dzhc.com

   b. USACE

      1. Primary: Glenn Earhart, (O) 256-895-1577; (fax) 256-895-1378; (email) Glenn.h.earhart@hnd01.usace.army.mil

      2. Secondary: Wayne Galloway, Chief, OE Safety Office – (O) 256-8905-1582; (fax) 256-8905-1819; (email) wayne.h.galloway@hnd01.usace.army.mil

7. This MOA shall not affect any pre-existing or independent relationships or obligations between either parties.

Memorandum of Agreement (MOA)
Between
Hawthorne Army Depot (HWAD), Nevada
&
U.S. Army Corps of Engineers (USACE) Engineering & Support Center, Huntsville (USAESCH)

8. The provisions of this MOA, which require performance after the expiration, or termination of this MOA, shall remain in force notwithstanding the expiration or termination of this MOA.

9. If any provisions of this MOA is determined to be invalid or unenforceable, the remaining provisions shall remain in force and unaffected to the fullest extent permitted by law and regulations.

10. Disputes: The parties agree that, in the event of a dispute, the parties shall use their best efforts to resolve the dispute informally. The parties further agree that should informal dispute resolutions fail, the signers of the agreement will meet to resolve the dispute.

11. Amendment, Modification and Termination: This MOA may be modified or amended only by written, mutual agreement of the parties. Either party may terminate this MOA by providing 90 day written notice to the other party.

12. Manpower: No additional manpower spaces will be required from either party. Each party will execute their responsibilities from the resources allocated through the normal manpower allocation process. This MOA does not authorize additional manpower spaces.

13. Effective Date: Upon approval, this; MOA is effective when both authorizing officials sign below. This MOA will remain in effect for the "cradle to grave" range residue processing unless terminated in writing by either party.

HARRY L. SPEAR, PE
COL, EN
Commanding,
U.S. Army Engineering & Support
Center, Huntsville

26 April 2003
Date

DAVID W. DORNBLASER
LTC, OD
Commander
Hawthorne Army Depot

APR 1 6 2003
Date

Sep 18 03 01:13p DZHC PP&BD 775 945 7408 p.5

CEHNC-OE 05 April 2003

Subject: Standard Operating Procedure – Implementation of Memorandum of Agreement for Centralized Range Residue Recycling Facility (CRRRF) with Hawthorne Army Depot (HWAD) and U.S. Army Corps of Engineers (USACE)

1. References;

   a. Memorandum of Agreement # 03-02 with HWAD & USACE, February 2003.
   b. USACE Contractors Ordnance and Explosives Range Residue Inspection, Certification and Final Disposition Procedures, August 2002.

2. Purpose: This Standard Operating Procedure (SOP) provides implementation guidance for executing the Memorandum of Agreement signed by the Commander, Hawthorne Army Depot and the Commander, U. S. Army Engineering and Support Center, Huntsville USAESCH). Since the USAESCH was designated the Ordnance & Explosives (OE) Center of Expertise and Design Center on 05 April 1990, the USAESCH Commander will execute this agreement as the Commander with the current OE program responsibilities.

3. Strategy: This SOP provides instructions for executing the "cradle to grave" process of discovery, excavation, certification, storage at the project site, transporting, storing at the CRRRF facility, processing and destruction of OE items to a non-look alike condition with a certificate of destruction documenting the final disposition of the range residue in accordance with the MOA.

4. Applicability: This SOP is available to all U.S. Army Corps of Engineers Offices subject to compliance with the references in paragraph 1. Any disputes will be resolved by the Ordnance & Explosives Directorate

5. The following procedures will be followed for implementation of taskings under the MOA:

   a. USACE customer identifies range residue and targets (RRT) disposal requirements
   b. Customer provides the inventory of range residue or targets by:
      i. Project location, city, county and state.
      ii. Inventory of types of range residue and tons of each category of RRT.
   c. The USACE determines applicability of the site requirement under the conditions of the MOA.
   d. HWAD and USACE conducts site visits as required.
   e. HWAD & USACE provide cost estimates to the USACE customer for the RRT requirements. USACE estimates may be provided as part of a contract action or separate as appropriate.

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f. The USACE customer provides funding.
g. Work plans are developed that address the cradle to grave process in accordance with paragraphs 1a and 1b. Work plans will vary depending on the complexity of the project.
h. USACE will provide the following deliverables to HWAD:
   i. Implement the process in accordance with references 1a and b.
   ii. Certification of no explosive hazard will be provided for all RRT in accordance with 1b.
   iii. Certification that all engine fluids, illuminating dials and other liquid hazardous, toxic and radiological wastes are removed from any materials delivered to HWAD for further recycling.
   iv. Documentation of the chain of custody process.
   v. RRT containerized or transported to HWAD with the certifications and chain of custody documentation.

i. HWAD will:

   i. Implement the process in accordance with the MOA.
   ii. Accept the RRT and provide the chain of custody documentation signifying acceptance of the RRT.
   iii. Process to a non-look alike condition as determined by HAD
   iv. Provide Certificate of Destruction or Form 250's monthly.

6. Points of Contact (POC) for this process:

a. USACE:
   i. Primary: Glenn Earhart, (O) 256-895-1577, Glenn.h.Earhart@hnd01.usace.army.mil.
   ii. Secondary: Wayne Galloway, (O) 256-895-1582, wayne.h.Galloway@hnd01.usace.army.mil.

b. HWAD:

   i. Primary: Florentino Cardenas, (O) 775-945-7002, CARDENSF@HAWTHORNE-EMH1.ARMY.MIL.
   ii. Secondary: Mr. Don Vaden / Ms. Debbie Sitton-Baker, (O) 775-945-7200, vadebd@hawthorne-dzhc.com

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Corps of Engineers Contractors Ordnance and Explosive (OE), Range Residue (RR) Inspection, Certification, and Final Disposition Procedures

I. OE & RR Inspection – Contractor Responsibilities and Procedures

1. The U.S. Army Corps of Engineers (USACE) contractors executing projects will comply with the following procedures for processing OE and Range Residue for final disposition as scrap metal. The objective of these procedures is to ensure that an inspection procedure of the exterior and interior surfaces of all recovered items is in place to ensure these items do not present an explosive hazard. These USACE contractor responsibilities and procedures will be contained in the project work plan.

a. Unexploded Ordnance (UXO) Sweep Personnel will only mark suspected items and will not be allowed to perform any assessment of a suspect item to determine its status.

b. Unexploded Ordnance (UXO) Tech I will only tentatively identify a located item as scrap or OE.

c. UXO Technician II will:

(1) Inspect each item as it is recovered and determine the following:

- Is the item a UXO or a component of a military munitions?
- Does the item contain explosives hazards or other dangerous fillers?
- Does the item require detonation?
- Does the item require demilitarization (demil) or venting to expose other dangerous fillers?
- Does the item require draining of engine fluids, illuminating dials and other visible liquid hazardous, toxic or radiological waste (HTRW) materials?

(2) Segregate items requiring demil or venting procedures from those items ready for certification.

(3) Items found to contain explosives hazards or other dangerous fillers will be processed in accordance with applicable procedures.

d. UXO Technician III will:

(1) Inspect recovered items to determine if free of explosives hazards or other dangerous fillers and engine fluids, illuminating dials and other visible liquid HTRW materials?

(2) Supervise detonation of items found to contain explosive hazards or other dangerous fillers and venting/demil procedures.

(3) Supervise the consolidation of recovered scrap metal for containerization and sealing.

e. UXO Quality Control (QC) Specialist will:

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(1) Conduct daily audits of the procedures used by UXO teams and individuals for processing OE or Range Residue.

(2) Perform and document, a minimum 10%, random sampling (by pieces, volume or area) of all scrap metal collected from the various teams to ensure no items with explosive hazards, engine fluids, illuminating dials and other visible liquid HTRW materials are identified as scrap metal as required for completion of the Requisition and Turn-in Document, DD Form 1348-1A.

f. UXO Site Safety Officer (UXOSO) will:

(1) Ensure the specific procedures and responsibilities for processing OE and Range Residue for certification as scrap metal is being followed, performed safely, consistent with applicable regulations, and in accordance with the USACE approved project work plan.

(2) Will perform random checks of processed OE and Range Residue to ensure items being identified as scrap are free from any explosive hazards engine fluids, illuminating dials and other visible liquid HTWR materials.

g. Senior UXO Supervisor will:

(1) Be responsible for ensuring work and Quality Control (QC) Plans specify the procedures and responsibilities for processing OE and Range Residue for the final disposition as scrap metal.

(2) Ensure a Requisition and Turn-in Document, DD Form 1348-1A is completed for all scrap metal to be transferred for final disposition.

(3) Perform random checks to satisfy that the OE or range residue is free from explosive hazards necessary to complete the Form, DD 1348-1A.

(4) Certify all scrap metal generated from OE or Range Residue as free of explosive hazards, engine fluids, illuminating dials and other visible liquid HTWR materials.

(5) Be responsible for ensuring that these inspected materials are secured in a closed, labeled and sealed container and documented as follows;

- The container will be closed and clearly labeled on the outside with the following information: The first container will be labeled with a unique identification that will start with **USACE/Installation Name/Contractor's Name/0001/Seal's unique identification** and continue sequentially.

- The container will be closed in such a manner that a seal must be broken in order to open the container. A seal will bear the same unique identification

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number as the container or the container will be clearly marked with the seal's identification if different from the container.

- A documented description of the container will be provide by the contractor with the following information for each container; contents, weight of container; location where OE scrap was obtained; name of contractor, names of certifying and verifying individuals; unique container identification; and seal identification, if required (see paragraph I. 1.g. (5). The contractor in a separate section of the final report will also provide these documents.

II. OE Scrap Certification and Verification

1. The contractor will ensure that scrap metal generated from OE or Range Clearance is properly inspected in accordance with the procedures in I. above. Only personnel who are qualified UXO personnel per USACE's Contract Data Item Description (DID) OE-025 will perform these inspections. The Senior UXO Supervisor will certify and the USACE's OE Safety Specialist will verify that the scrap metal is free of explosive hazards.

2. DD form 1348-1A will be used as certification/verification documentation. All DD 1348-1A must clearly show the typed or printed names of the contractor's Senior UXO Supervisor and the USACE's OE Safety Specialist, organization, signature, and contractor's home office and field office phone number(s) of the persons certifying and verifying the scrap metal.

   a. Local directives and agreements may supplement these procedures. Coordination with the local concerns will identify any desired or requested supplementation to these procedures.

   b. In addition to the data elements required and any locally agreed to directives, the DD 1348-1A must clearly indicate the following for scrap metal:

      (1) Basic material content (Type of metal; e.g., steel or mixed)

      (2) Estimated weight

      (3) Unique identification of each of the containers and seals stated as being turned over.

      (4) Location where OE scrap was obtained.

      (5) Seal identification, if different from the unique identification of the sealed container.

   c. The following certification/verification will be entered on each DD 1348-1A for turn over of scrap and will be signed by the Senior UXO Supervisor and the USACE OE Safety Specialist.

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"This certifies that the material listed has been 100 percent properly inspected and, to the best of our knowledge and belief, are free of explosive hazards, engine fluids, illuminating dials and other visible liquid HTWR materials.

III Maintaining The Chain Of Custody And Final Disposition

The contractor, in coordination with the Corps of Engineers, will arrange for maintaining the chain of custody and final disposition of the certified and verified materials. The certified and verified material will only be released to an organization that will:

a. Upon receiving the unopened labeled containers each with its unique identified and unbroken seal ensuring a continued chained of custody, and after reviewing and concurring with all the provided supporting documentation, sign for having received and agreeing with the provided documentation that the sealed containers contained no explosive hazards when received. This will be signed on company letterhead and stating that the contents of these sealed containers will not be sold, traded or otherwise given to another party until the contents have been smelted, shredded, or flashed and are only identifiable by their basic content.

b. Send notification and supporting documentation to the sealed container-generating contractor documenting the contents of the sealed containers have been smelted and are now only identifiable by their basic content.

c. This document will be incorporated by the contractor into the final report as documentation for supporting the final disposition of this scrap metal.

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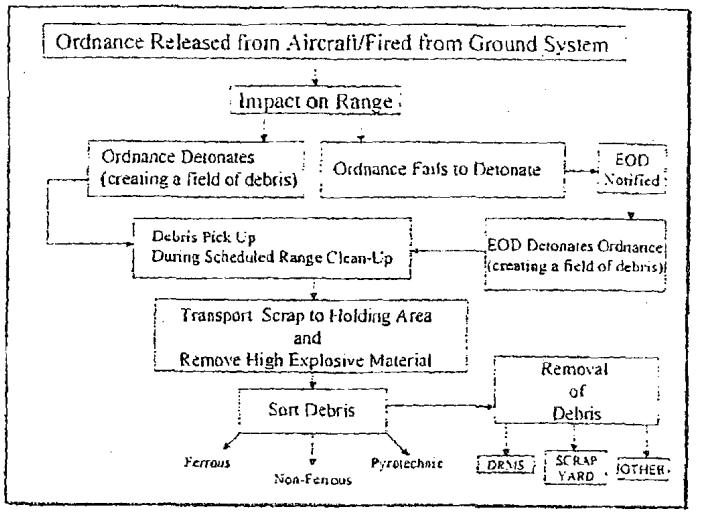
1.0 INTRODUCTION

1.1 Overview

This feasibility study has been funded by the Naval Strike and Air Warfare Center (NSAWC) at NAS Fallon, Nevada and the Defense Ammunition Center (DAC) in McAlister, Oklahoma for tactical training ranges and test and evaluation (T&E) ranges of the Army, Air Force, Navy, Marine Corps, and National Guards. The survey's objective is to determine if sufficient target and ordnance range residue is generated by western ranges in the selected eleven states of Arizona, California, Colorado, Idaho, Nevada, New Mexico, Oklahoma, Oregon, Utah, Washington, and Wyoming to justify a program that allows the Hawthorne Army Depot (HWAD) to collect residue at each range from designated holding areas for recycling. The survey will also address the capability of HWAD to effectively process and dispose of collected range residue. The survey does not include small arms ranges, closed, transferred or transferring ranges.

Ranges must ensure that high explosive material is removed from the residue. However, fuses and smoke charges are allowable. Exotic ordnance such as depleted uranium, anti-personnel, radium painted materials, etc., was not considered.

It is assumed that all proceeds from scrap sales would go to the HWAD effort to defray costs. No monies would be returned to the ranges or their respective commands.



FINAL DRAFT

WESTERN RANGES SURVEY

(A feasibility study for range residue recycling at the Hawthorne Army Depot)

Prepared for

Naval Strike and Air Warfare Center (Range Department)
4755 Pasture Road
NAS Fallon, NV 89496
And
US Army Defense Ammunition Center
1C Tree Road
McAlester, OK 74501

By

Defense Group Inc.
2034 Eisenhower Road, Suite 115
Alexandria, VA 22314

January 10, 2001

SUPPORT AGREEMENT

1. AGREEMENT NUMBER (Provided by Supplier)	2. SUPERSEDED AGREEMENT NO. (If this replaces another agreement)	3. EFFECTIVE DATE (Y..MDD)	4. EXPIRATION DATE (May be "Indefinite")
W65W9N-99312-010	W65W9N-96275-010	00 01 01	Indefinite

5. SUPPLYING ACTIVITY	6. RECEIVING ACTIVITY
NAME AND ADDRESS wthorne Army Depot .O. Box 5000 (Attn: SIOHW-CA) Hawthorne, NV 89415-5000 Day & Zimmerman Hawthorne Corporation	b. NAME AND ADDRESS Commander Crane Division, Naval Surface Warfare Center, 300 Highway 361 Crane, IN 47522-5000
b. MAJOR COMMAND Army Material Command	b. MAJOR COMMAND NAVSEA

7. SUPPORT PROVIDED BY SUPPLIER

a. SUPPORT (Specify what, when, where, and how much)	b. BASIS FOR REIMBURSEMENT	c. ESTIMATED REIMBURSEMENT
Communications	Estimated Cost	$8,595
Custodial Services	Estimated Cost	$0
Environmental	Estimated Cost	$12,694
Equipment Calibration	Estimated Cost	$1,526
Fire Protection	Nonreimbursable	$0
Firefighting Equipment & Components	Nonreimbursable	$0
Office Space/Storage Space & Utilities	Estimated Cost	$59,772
Material Handling Equipment/Components	Estimated cost	$35,000
Medical	Estimated Cost	$2,275
Refuse Collection/Landfill Access	Estimated Cost	$9,048
Safety	Nonreimbursable	$0
Security	Nonreimbursable	$0
Special Security	Estimated Cost	$40,000
Storage/Warehousing/Transport of Supplies	Estimated Cost	$58,124
Test Evaluation	Nonreimbursable	$0
ining	Nonreimbursable	$0
		$227,034.00

ADDITIONAL SUPPORT REQUIREMENTS ATTACHED: ☒ YES ☐ NO

8. SUPPLYING COMPONENT		9. RECEIVING COMPONENT	
a. COMPTROLLER SIGNATURE Donna C. Roberts DONNA C. ROBERTS, Chief, CA	b. DATE SIGNED 3/01/00	a. COMPTROLLER SIGNATURE Michael J. Mattingly MICHAEL J. MATTINGLY	b. DATE SIGNED 2/24/00
c. APPROVING AUTHORITY		c. APPROVING AUTHORITY	
(1) Typed Name JAMES A. PINER, LTC, CM, Commanding Officer		(1) Typed Name T. SCOTT WETTER, CAPT, USN	
(2) Organization Hawthorne Army Depot Hawthorne, NV 89415-5000	(3) Telephone Number 775-945-7001	(2) Organization Crane Division, Naval Surface Warfare Center	(3) Telephone Number 812-854-1210
(4) Signature	(5) Date Signed 1 Mar 2000	(4) Signature	(5) Date Signed 1 MAR 00

D. TERMINATION (Complete only when agreement is terminated prior to scheduled expiration date.)

a. APPROVING AUTHORITY SIGNATURE	b. DATE SIGNED	a. APPROVING AUTHORITY SIGNATURE	b. DATE SIGNED

Go 011 12/15/00

SUPPORT AGREEMENT

1. AGREEMENT NUMBER (Assigned by Supplier)	2. SUPERSEDED AGREEMENT NO. (If this replaces another Agreement)	3. EFFECTIVE DATE (YYMMDD)	4. EXPIRATION DATE (May be "Indefinite")
[redacted]5W9N-99319-001	W65W9N-96306-001	00 01 01	INDEFINITE

5. SUPPLYING ACTIVITY	6. RECEIVING ACTIVITY	6. RECEIVING ACTIVITY
W65W9N-96306-001		
a. NAME AND ADDRESS Hawthorne Army Depot 1 South Maine Avenue, ATTN: SMAHW-CA Hawthorne, NV 89415-9404 Day & Zimmerman Hawthorne Corporation	a. NAME AND ADDRESS Naval Undersea Warfare Center Division, Keyport Hawthorne Detachment (ATTN: Code 423) 610 Dowell Street Keyport, WA 98345-7610	
b. MAJOR COMMAND Army Materiel Command	b. MAJOR COMMAND Naval Sea System Command	

7. SUPPORT PROVIDED BY SUPPLIER

a. SUPPORT (Specify what, when, where and how much)	b. BASIS FOR REIMBURSEMENT	c. ESTIMATED REIMBURSEMENT
Communications	Estimated Cost	$15,000.
Custodial Services	Estimated Cost	$2,000.
Environmental-Hazardous Material/Waste Disposal	Estimated Cost	$8,000.
Equipment Calibration	Estimated Cost	$2,000.
Fire Protection	Non-Reimbursable	$0.
Laundry Services	Estimated Cost	$0.
Maintain Office Space/StorageSpace & Utilities	Estimated Cost	$149,000.
Material Handling Equipment/Components	Estimated Cost	$47,000.
Medical	Estimated Cost	$2,000.
Refuse Collection/Landfill Access	Estimated Cost	$9,000.
·afety	Non-Reimbursable	$0.
·ty	Non-Reimbursable	$0.
[redacted]e/Warehousing/Transportation of Supplies	Estimated Cost	$0.
raining	Non-Reimbursable	$0.
OTE: Above costs are estimated annual costs		
	GRAND TOTAL	$234,000

DITIONAL SUPPORT REQUIREMENTS ATTACHED-YES X NO

8. SUPPLYING COMPONENT		9. RECEIVING COMPONENT	
COMPTROLLER SIGNATURE Donna C. Roberts	b. DATE SIGNED 01/18/01	a. COMPTROLLER SIGNATURE Linda L Damschen	b. DATE SIGNED 01/12/01
NNA C. ROBERTS, Chief, CA		LINDA DAMSCHEN	
PPROVING AUTHORITY		c. APPROVING AUTHORITY	
NE L. DAVIS, LTC, OD, Commanding		(1) TYPED NAME THOMAS VIOLETTE, CAPT, USN, Commander	
ORGANIZATION vthorne Army Depot vthorne, NV 89415-9404	(3) TELEPHONE NUMBER DSN 830 (775)945-7001	(2) ORGANIZATION Naval Undersea Warfare Center Division, Keyport Keyport, WA 98345-5000	(3) TELEPHONE NUMBER (360) 396-2545 DSN 744
IGNATURE L. Davis	(5) DATE SIGNED 18 JAN 01	(4) SIGNATURE T. F. Violette	(5) DATE SIGNED 16 JAN 01

ERMINATION (Complete only when agreement is terminated prior to scheduled expiration date.)

PROVING AUTHORITY SIGNATURE	b. DATE SIGNED	

Form 1144, MAR 92 Previous editions are obsolete

DJS 01/22/01 Rolyman

QA 2/21/01 also 12/15/1

ALLEN BIAGGI
Director

of Nevada
nent of Conservation and Natural Resources
of the Director
123 W. Nye Lane, Room 230
Carson City, Nevada 89706-0818
Telephone (775) 687-4360
Facsimile (775) 687-6122
www.dcnr.nv.gov

KENNY C. GUINN
Governor

Copy - Hawthorne

Division of Conservation Districts
Division of Environmental Protection
Division of Forestry
Division of State Lands
Division of State Parks
Division of Water Resources
Natural Heritage Program
Wild Horse Program

STATE OF NEVADA
Department of Conservation and Natural Resources
OFFICE OF THE DIRECTOR

June 14, 2005

Commander Johnny M. Summers
Hawthorne Army Ammunition Depot
1 South Maine Ave.
Hawthorne, Nevada 89415-9404

Dear Commander Summers:

The purpose of this letter is to reiterate what I believe is the excellent working relationship between the State of Nevada's Department of Conservation and Natural Resources and the Hawthorne Army Ammunition Depot.

Throughout the years, the State of Nevada and the Depot have had many natural resource and environmental challenges. These issues have included hazardous waste management, the open burning and detonation of munitions, water rights and allocation, environmental remediation, air quality concerns, land use management concerns and others. These matters were often controversial and contentious, yet we have always been able to work with the Depot in the spirit of cooperation and respect to resolve our differences. We have found the operators of the base, both military and civilian, to be good stewards of the land and environment and committed to the protect public health, the environment and our precious natural resources.

Thank you for your continued assistance and cooperation and we look forward to working with you in the future.

Sincerely,

Allen Biaggi
Director

HWAD Comment: Little weighted value appears to have been given to no encroachment issues at HWAD for the foreseeable future which is not the case of some surviving installations.

Discussion:

Several installations reported no encroachment during the BRAC Study, however, several of these installations will be impacted and their operations impeded because of their close proximity to metropolitan or micropolitan areas. These impacts will be most acutely felt in the area of environmental permitting for hazardous waste incineration units, open burning and open detonation operations and noise.

Bottom Line – Based on population projected growth complied by the State of Nevada in 2002 which shows a -1.0% growth for Hawthorne is projected for the year 2022. This is a decrease of residents for Mineral County from 3,980 to 3,853 – a minimal growth rate which ensures no encroachment for a minimum of 17 years.

Population Projections for Nevada and Nevada's Counties from 2002 to 2022

Prepared By:
The Nevada State Demographer's Office
Jeff Hardcastle, AICP
NV State Demographer
University of NV Reno MS/032
Reno, NV 89557
(775) 784-6352
jhardcas@unr.edu

Prepared for the NV Department of Taxation
in Conjunction with the NV Small Business Development Center

Nevada County Population Projections 2002 - 2022

		Carson City	Churchill County	Clark County	Douglas County	Elko County	Esmeralda County
Estimated	2001	54,171	24,928	1,485,855	43,450	46,668	1,038
Projected	2002	55,136	25,078	1,560,653	43,488	47,324	1,043
	2003	56,075	25,249	1,634,633	43,690	47,648	1,044
	2004	56,991	25,438	1,701,472	43,967	47,853	1,048
	2005	57,880	25,636	1,761,614	44,308	47,997	1,052
	2006	58,736	25,852	1,814,330	44,686	48,107	1,056
	2007	59,558	26,080	1,860,995	45,082	48,219	1,060
	2008	60,342	26,313	1,901,936	45,484	48,359	1,065
	2009	61,075	26,530	1,937,629	45,839	48,486	1,070
	2010	61,769	26,759	1,969,348	46,139	48,621	1,076
	2011	62,446	27,004	1,997,984	46,413	48,804	1,082
	2012	63,094	27,255	2,023,697	46,672	49,043	1,089
	2013	63,717	27,502	2,046,472	46,934	49,338	1,096
	2014	64,320	27,752	2,066,098	47,215	49,706	1,104
	2015	64,905	28,003	2,082,455	47,532	50,141	1,113
	2016	65,463	28,253	2,095,751	47,864	50,629	1,124
	2017	65,996	28,511	2,106,179	48,209	51,163	1,134
	2018	66,506	28,768	2,113,893	48,589	51,730	1,145
	2019	66,993	29,022	2,119,383	48,994	52,333	1,156
	2020	67,466	29,281	2,123,277	49,410	52,956	1,169
	2021	67,936	29,545	2,126,384	49,818	53,605	1,180
	2022	68,409	29,811	2,129,147	50,225	54,275	1,189
Projected Growth Rates							
	2001						
	2002	1.8%	0.6%	5.0%	0.1%	1.4%	0.5%
	2003	1.7%	0.7%	4.7%	0.5%	0.7%	0.1%
	2004	1.6%	0.7%	4.1%	0.6%	0.4%	0.3%
	2005	1.6%	0.8%	3.5%	0.8%	0.3%	0.4%
	2006	1.5%	0.8%	3.0%	0.9%	0.2%	0.4%
	2007	1.4%	0.9%	2.6%	0.9%	0.2%	0.4%
	2008	1.3%	0.9%	2.2%	0.9%	0.3%	0.4%
	2009	1.2%	0.8%	1.9%	0.8%	0.3%	0.5%
	2010	1.1%	0.9%	1.6%	0.7%	0.3%	0.6%
	2011	1.1%	0.9%	1.5%	0.6%	0.4%	0.6%
	2012	1.0%	0.9%	1.3%	0.6%	0.5%	0.6%
	2013	1.0%	0.9%	1.1%	0.6%	0.6%	0.7%
	2014	0.9%	0.9%	1.0%	0.6%	0.7%	0.8%
	2015	0.9%	0.9%	0.8%	0.7%	0.9%	0.8%
	2016	0.9%	0.9%	0.6%	0.7%	1.0%	0.9%
	2017	0.8%	0.9%	0.5%	0.7%	1.1%	0.9%
	2018	0.8%	0.9%	0.4%	0.8%	1.1%	1.0%
	2019	0.7%	0.9%	0.3%	0.8%	1.2%	1.0%
	2020	0.7%	0.9%	0.2%	0.8%	1.2%	1.1%
	2021	0.7%	0.9%	0.1%	0.8%	1.2%	1.0%
	2022	0.7%	0.9%	0.1%	0.8%	1.3%	0.8%
Average Growth Rates							
1991 to 2001		2.5%	2.9%	5.9%	3.6%	2.7%	-1.3%
2001 to 2011		1.4%	0.8%	3.0%	0.7%	0.4%	0.4%
2012 to 2022		0.8%	0.9%	0.6%	0.7%	1.0%	0.9%
2001 to 2022		1.1%	0.9%	1.7%	0.7%	0.7%	0.7%

Prepared By The Nevada State Demographer's Office
April 2002

Nevada County Population Projections 2002 - 2022

		Eureka County	Humboldt County	Lander County	Lincoln County	Lyon County	Mineral County
Estimated	2001	1,506	16,164	5,761	3,861	37,329	4,743
Projected	2002	1,559	16,414	5,747	3,849	38,520	4,505
	2003	1,593	16,536	5,698	3,833	39,631	4,295
	2004	1,620	16,604	5,647	3,824	40,662	4,120
	2005	1,643	16,634	5,596	3,824	41,615	3,980
	2006	1,662	16,635	5,546	3,834	42,483	3,873
	2007	1,678	16,617	5,500	3,852	43,272	3,788
	2008	1,694	16,588	5,459	3,877	43,988	3,724
	2009	1,709	16,550	5,427	3,913	44,621	3,676
	2010	1,724	16,518	5,403	3,953	45,175	3,641
	2011	1,740	16,501	5,388	3,995	45,660	3,615
	2012	1,754	16,497	5,385	4,037	46,077	3,597
	2013	1,767	16,510	5,390	4,084	46,431	3,587
	2014	1,780	16,547	5,404	4,137	46,733	3,588
	2015	1,794	16,604	5,428	4,194	46,992	3,600
	2016	1,809	16,677	5,461	4,250	47,214	3,624
	2017	1,825	16,767	5,502	4,308	47,414	3,654
	2018	1,842	16,872	5,543	4,366	47,604	3,692
	2019	1,862	16,982	5,593	4,421	47,786	3,734
	2020	1,883	17,098	5,646	4,475	47,963	3,777
	2021	1,904	17,216	5,698	4,522	48,134	3,817
	2022	1,924	17,333	5,751	4,562	48,304	3,853
Projected Growth Rates							
	2001						
	2002	3.5%	1.5%	-0.3%	-0.3%	3.2%	-5.0%
	2003	2.2%	0.7%	-0.8%	-0.4%	2.9%	-4.7%
	2004	1.7%	0.4%	-0.9%	-0.2%	2.6%	-4.1%
	2005	1.4%	0.2%	-0.9%	0.0%	2.3%	-3.4%
	2006	1.1%	0.0%	-0.9%	0.3%	2.1%	-2.7%
	2007	1.0%	-0.1%	-0.8%	0.5%	1.9%	-2.2%
	2008	0.9%	-0.2%	-0.7%	0.7%	1.7%	-1.7%
	2009	0.9%	-0.2%	-0.6%	0.9%	1.4%	-1.3%
	2010	0.9%	-0.2%	-0.4%	1.0%	1.2%	-1.0%
	2011	0.9%	-0.1%	-0.3%	1.1%	1.1%	-0.7%
	2012	0.8%	0.0%	-0.1%	1.0%	0.9%	-0.5%
	2013	0.7%	0.1%	0.1%	1.2%	0.8%	-0.3%
	2014	0.7%	0.2%	0.3%	1.3%	0.7%	0.0%
	2015	0.8%	0.3%	0.4%	1.4%	0.6%	0.3%
	2016	0.8%	0.4%	0.6%	1.4%	0.5%	0.7%
	2017	0.9%	0.5%	0.8%	1.4%	0.4%	0.8%
	2018	0.9%	0.6%	0.8%	1.3%	0.4%	1.0%
	2019	1.1%	0.7%	0.9%	1.3%	0.4%	1.1%
	2020	1.2%	0.7%	1.0%	1.2%	0.4%	1.2%
	2021	1.1%	0.7%	0.9%	1.0%	0.4%	1.1%
	2022	1.0%	0.7%	0.9%	0.9%	0.4%	0.9%
Average Growth Rates							
1991 to 2001		-0.7%	1.8%	-1.0%	0.1%	5.5%	-2.6%
2001 to 2011		1.5%	0.2%	-0.7%	0.3%	2.0%	-2.7%
2012 to 2022		0.9%	0.4%	0.6%	1.2%	0.5%	0.6%
2001 to 2022		1.2%	0.3%	0.0%	0.8%	1.2%	-1.0%

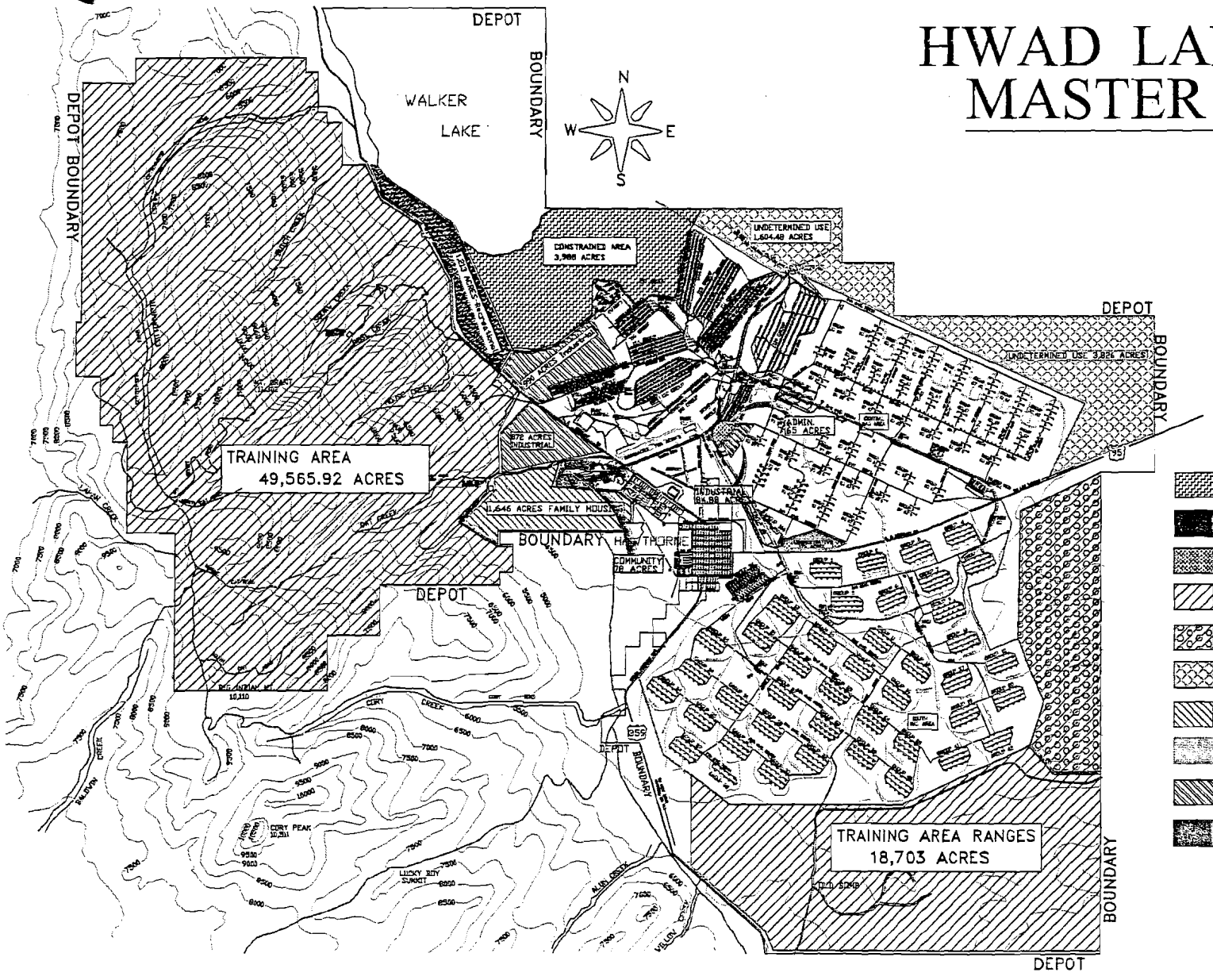
pared By The Nevada State Demographer's Office
pril 2002

Nevada County Population Projections 2002 - 2022

		Nye County	Pershing County	Storey County	Washoe County	White Pine County	State Total
Estimated	2001	34,384	6,873	3,714	353,271	8,783	2,132,498
Projected	2002	35,843	6,818	3,724	357,776	8,551	2,216,028
	2003	37,178	6,737	3,733	362,458	8,305	2,298,336
	2004	38,439	6,653	3,744	367,390	8,073	2,373,543
	2005	39,652	6,569	3,755	372,504	7,857	2,442,116
	2006	40,815	6,486	3,765	377,760	7,660	2,503,286
	2007	41,934	6,403	3,775	383,074	7,475	2,558,363
	2008	43,013	6,323	3,785	388,317	7,307	2,607,574
	2009	44,028	6,243	3,790	393,283	7,150	2,651,018
	2010	44,985	6,166	3,791	398,003	7,008	2,690,078
	2011	45,881	6,095	3,788	402,645	6,887	2,725,929
	2012	46,697	6,025	3,784	407,142	6,790	2,758,635
	2013	47,441	5,960	3,781	411,483	6,718	2,788,212
	2014	48,121	5,901	3,781	415,688	6,662	2,814,538
	2015	48,745	5,848	3,782	419,765	6,620	2,837,522
	2016	49,308	5,799	3,783	423,712	6,592	2,857,313
	2017	49,836	5,755	3,786	427,573	6,568	2,874,179
	2018	50,337	5,718	3,791	431,415	6,552	2,888,362
	2019	50,816	5,684	3,798	435,292	6,539	2,900,390
	2020	51,283	5,655	3,807	439,284	6,529	2,910,959
	2021	51,733	5,627	3,821	443,450	6,516	2,920,906
	2022	52,178	5,600	3,836	447,794	6,500	2,930,691
Projected Growth Rates							
	2001						
	2002	4.2%	-0.8%	0.3%	1.3%	-2.6%	3.9%
	2003	3.7%	-1.2%	0.2%	1.3%	-2.9%	3.7%
	2004	3.4%	-1.3%	0.3%	1.4%	-2.8%	3.3%
	2005	3.2%	-1.3%	0.3%	1.4%	-2.7%	2.9%
	2006	2.9%	-1.3%	0.3%	1.4%	-2.5%	2.5%
	2007	2.7%	-1.3%	0.3%	1.4%	-2.4%	2.2%
	2008	2.6%	-1.3%	0.3%	1.4%	-2.3%	1.9%
	2009	2.4%	-1.3%	0.1%	1.3%	-2.2%	1.7%
	2010	2.2%	-1.2%	0.0%	1.2%	-2.0%	1.5%
	2011	2.0%	-1.2%	-0.1%	1.2%	-1.7%	1.3%
	2012	1.8%	-1.1%	-0.1%	1.1%	-1.4%	1.2%
	2013	1.6%	-1.1%	-0.1%	1.1%	-1.1%	1.1%
	2014	1.4%	-1.0%	0.0%	1.0%	-0.8%	0.9%
	2015	1.3%	-0.9%	0.0%	1.0%	-0.6%	0.8%
	2016	1.2%	-0.8%	0.0%	0.9%	-0.4%	0.7%
	2017	1.1%	-0.7%	0.1%	0.9%	-0.4%	0.6%
	2018	1.0%	-0.7%	0.1%	0.9%	-0.2%	0.5%
	2019	1.0%	-0.6%	0.2%	0.9%	-0.2%	0.4%
	2020	0.9%	-0.5%	0.2%	0.9%	-0.2%	0.4%
	2021	0.9%	-0.5%	0.4%	0.9%	-0.2%	0.3%
	2022	0.9%	-0.5%	0.4%	1.0%	-0.2%	0.3%
Average Growth Rates							
1991 to 2001		6.3%	3.8%	3.6%	2.9%	-0.5%	4.90%
2001 to 2011		2.9%	-1.2%	0.2%	1.3%	-2.4%	2.5%
2012 to 2022		1.2%	-0.8%	0.1%	1.0%	-0.5%	0.7%
2001 to 2022		2.0%	-1.0%	0.2%	1.1%	-1.4%	1.5%

Prepared By The Nevada State Demographer's Office
April 2002

HWAD LAND USE MASTER PLAN

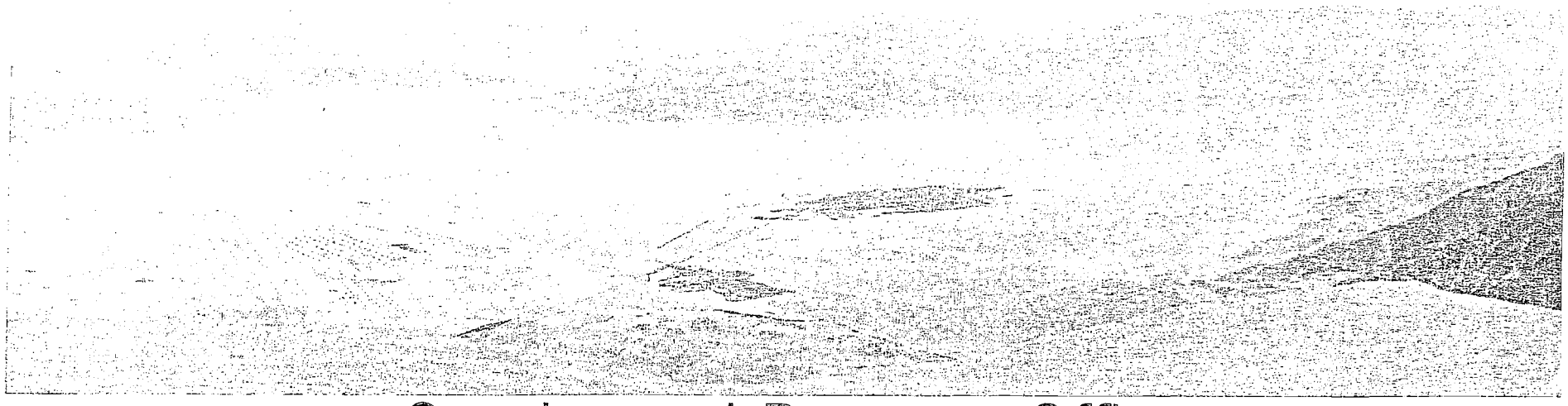


- CONSTRAINED AREA: 3,988 ACRES
- RECREATIONAL: 1,213 ACRES
- ADMINISTRATIVE: 238 ACRES
- TRAINING: 61,565 ACRES
- TRAINING / BUILDABLE: 6,703 ACRES
- UNDETERMINED USE: 5,430.48 ACRES
- FAMILY HOUSING: 1,646 ACRES
- BARRACKS: 150 ACRES
- INDUSTRIAL: 1,862 ACRES
- COMMUNITY: 78 ACRES

4000 0 4000 8000 12000 16000

SCALE IN FEET

An Evaluation of the Geothermal Resource Potential at HWAD, Hawthorne, NV



Geothermal Program Office
NAWS China Lake, CA

March 6, 2002

Evaluation Summary

- Good potential for fluids up to 325°F based on:
  - Tectonic Environment and Local Structure
  - Well Temperature Profiles
  - Groundwater Chemistry
  - Geophysical Interpretation of Subsurface