Day & Zimmermann

Lone Star Army Ammunition Plant
Responses to Questions
From
R. Gary Dinsick, Army Team Leader
BRAC

Submitted Tuesday 9 August 2005

Day & Zimmermann 1655 North Fort Myer Drive Suite 520
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9 August 2005

Mr. R. Gary Dinsick
Army Team Leader
Base Realignment & Closure Commission
2521 South Clark Street, Suite 600
Arlington, Virginia 22202-3920

Dear Gary,

As the review period for BRAC winds down, as I hope is also the case for the deluge of reports and briefings you're no doubt receiving, I wanted to take a moment to provide one other item in response to your request. When you visited Lone Star Army Ammunition Plant in Texarkana, Texas, you asked a number of questions to support your review regarding data calls, production lines, unique qualities of the facility, and ownership of equipment and processes. The professionals down in Lone Star have put together responses to those questions, which are attached.

I believe these should respond adequately to your queries. Hopefully upon review you will recognize, as we do, that Lone Star has many unique qualities, several of which utilize company-owned equipment and processes, and that when the Department of Defense devised its list of closures many factors that should have been considered in the evaluation, in fact, were not fully calculated. Ultimately, the taxpayer and the warfighter deserve to retain Lone Star's unique capabilities, and a Privatized Lone Star should be allowed to continue to make its valuable contributions to national security. Privatizing Lone Star will save money for DoD and the taxpayer, retain key employees possessing unique skills and experiences, and will protect a significant source of competition for the Department of Defense that otherwise will almost certainly migrate to our Canadian competitors instead of to US facilities as envisioned by the DoD under its recommendations of May 13. America deserves to retain a Privatized Lone Star. We hope you, your colleagues and the BRAC Commissioners will agree.

If there's anything else you need in the weeks ahead, please let us know and we will comply quickly and completely. Many thanks for the difficult yet vital work you and your colleagues are performing.

Sincerely,

James Hickey
VP Government Affairs
Day & Zimmermann

Library Routing Slip 2005 BRAC Commission Materials
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cc: Elizabeth Bieri, George Delgado

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I. Lone Star AAP Responses to Questions from Mr. R. Gary Dinsick, Army Team Leader BRAC Commission

1) Question #1 – *"There has been mention of proprietary processes. With a general description of the process and avoiding any proprietary restrictions, list each process, specifically noting whether the government or the operating contractor owns the process."*

Response:

	Ownership				
Product Family, Items & General Process Description	**Equip**	**Tooling**	**Machine & Process Control Software**	**Manufacture Instructions (SOPs & Maintenance procedures)**	**Detail Inspection & SPC Plans**
Stab Dets (M55, M59, M76, M98 etc)					
-Azide Processing	Gov	NA	D&Z	D&Z	D&Z
-Primer Mix Manufacture	Gov	NA	D&Z	D&Z	D&Z
-RDX drying & screening	Gov	NA	NA	D&Z	D&Z
-RDX Pellet manufacturing	Gov	D&Z	NA	D&Z	D&Z
-Detonator Assembly	Gov	D&Z	D&Z	D&Z	D&Z
-Explosive Dispensing	D&Z	D&Z	D&Z	D&Z	D&Z
-Detonator gauging	D&Z	D&Z	D&Z	D&Z	D&Z
-Detonator painting	Gov	D&Z	NA	D&Z	D&Z
-Detonator testing	Gov	D&Z	NA	D&Z	D&Z
-Detonator packout	Gov	NA	NA	D&Z	D&Z
Delay M53					
-Prepare Mix for Primer M54	Gov	NA	NA	D&Z	D&Z
-LAP Primer M54	Gov	D&Z	NA	D&Z	D&Z
-Prepare Pyrotechnic Mix for Delay M53	Gov	NA	NA	D&Z	D&Z
-LAP M53 Delay	Gov	D&Z	D&Z	D&Z	D&Z
-Delay Painting	Gov	NA	NA	D&Z	D&Z
-Delay Testing	Gov	D&Z	NA	D&Z	D&Z
M234/M235/M236 Fuze					
-Prepare DXN-1	Gov	NA	D&Z	D&Z	D&Z
-Prepare PETN	Gov	NA	D&Z	D&Z	D&Z
-Prepare CEM	Gov	NA	D&Z	D&Z	D&Z
-Install M55 Det	Gov	D&Z	D&Z	D&Z	D&Z
-Load EED	Gov	D&Z	D&Z	D&Z	D&Z
-Fuze Testing	Gov	NA	D&Z	D&Z	D&Z
M223/M239 Fuze					
-Manufacture Cover	Gov	D&Z	NA	D&Z	D&Z
-Manufacture Housing	Gov	D&Z	NA	D&Z	D&Z
-Thread Weight	Gov	D&Z	NA	D&Z	D&Z
-Install M55 Det into Slide	Gov	D&Z	D&Z	D&Z	D&Z
-Assemble Housing Components	Gov	D&Z	D&Z	D&Z	D&Z
-LAP Fuze	Gov	D&Z	D&Z	D&Z	D&Z

Product Family, Items & General Process Description	Ownership				
	Equip	Tooling	Machine & Process Control Software	Manufacture Instructions (SOPs & Maintenance procedures)	Detail Inspection & SPC Plans
Primers (M28B2, M1B1A2, MK161, M82, etc)					
-Primer Head Loading	Gov	D&Z	D&Z	D&Z	D&Z
-Prime Body Preparation	Gov	NA	NA	D&Z	D&Z
-Black Powder Loading	Gov	D&Z	D&Z	D&Z	D&Z
-Inspection & Packout	Gov	NA	NA	D&Z	D&Z
Hand Grenade (M67)					
-Melt Pour Explosive	Gov	NA	NA	D&Z	D&Z
-Clean & Inspect	Gov	NA	NA	D&Z	D&Z
-Stencil Grenade	Gov	D&Z	NA	D&Z	D&Z
-Inspect Fuzes	Gov	NA	NA	D&Z	D&Z
-Assemble Fuze & Torque	Gov	D&Z	D&Z	D&Z	D&Z
-Fiber Container Taping & Stencil	Gov	D&Z	D&Z	D&Z	D&Z
-Packout	Gov	NA	D&Z	D&Z	D&Z
-Automated Critical Defect Det Vision Sys	Gov	NA	D&Z	D&Z	D&Z
-Mold for Foam Support	D&Z	D&Z	D&Z	D&Z	D&Z
Bursters (M54A1, etc.)					
-Melt Pour	Gov	NA	NA	D&Z	D&Z
-Explosive Chemical Analysis	Gov	NA	NA	D&Z	D&Z
-Face Charge	Gov	D&Z	NA	D&Z	D&Z
-Assemble Plug	Gov	NA	NA	D&Z	D&Z
-Assemble Disc & Pad	Gov	NA	NA	D&Z	D&Z
-X Ray	Gov	NA	D&Z	D&Z	D&Z
-Packout	Gov	NA	NA	D&Z	D&Z
Pyro Manufacturing (Delay, Igniter, Tracer, Primer, etc.)	Gov	NA	NA	D&Z	D&Z
-Weigh Components	Gov	NA	NA	D&Z	D&Z
-Mix Components	Gov	NA	NA	D&Z	D&Z
-Dry Mix	Gov	NA	NA	D&Z	D&Z
-Granulate Mix	Gov	NA	NA	D&Z	D&Z
-Screen					
MCCM					
-Assemble Ball Matrix, Explosive Sheet	Gov	NA	NA	D&Z	D&Z
-Assemble other Mine components	Gov	NA	NA	D&Z	D&Z
-Pack Mine, Igniter, Shock Tube in Bandoleer	Gov	NA	NA	D&Z	D&Z

	Ownership				
Product Family, Items & General Process Description	**Equip**	**Tooling**	**Machine & Process Control Software**	**Manufacture Instructions (SOPs & Maintenance procedures)**	**Detail Inspection & SPC Plans**
FASCAM (MOPMS, M87A1 Volcano, M88 Trainer, CBU-89 Gator, Gator Trainer)	Gov	D&Z	D&Z	D&Z	D&Z
-Main Charge Pellet Manufacture *(see note below)*	Gov	D&Z	NA	D&Z	D&Z
-Ring Booster Pellet Manufacture	Gov	D&Z	D&Z	D&Z	D&Z
-MCD Lens/S&A Test & Assy	Gov	NA	D&Z	D&Z	D&Z
-AT Mine Assembly	Gov	D&Z	NA	D&Z	D&Z
-Volcano Load & Assembly	Gov	D&Z	D&Z	D&Z	D&Z
-Volcano Leak Test	Gov	NA	NA	D&Z	D&Z
-Pressure Cartridge LAP	Gov	D&Z	NA	D&Z	D&Z
-MOPMS LAP	Gov	NA	D&Z	D&Z	D&Z
-MOPMS Testing	Gov	NA	NA	D&Z	D&Z
-Gator LAP	Gov	D&Z	D&Z	D&Z	D&Z
-Gator Testing	Gov	NA	NA	D&Z	D&Z
Note: Main Charge Pellet Presses (4) were upgraded from 175 Ton to 450 Ton presses at Day& Zimmermann's expense					
Supplementary Charge					
-Screen TNT	Gov	NA	NA	D&Z	D&Z
-Manufacture Pellet	Gov	D&Z	D&Z	D&Z	D&Z
-Assemble Components	Gov	NA	NA	D&Z	D&Z
-Crimp	Gov	D&Z	NA	D&Z	D&Z
-Stencil	Gov	D&Z	NA	D&Z	D&Z
-Tape Handle & Pad	Gov	D&Z	NA	D&Z	D&Z
-Packout	Gov	NA	NA	D&Z	D&Z
M77/M85/M101 Grenades for MLRS					
-Hardness Test/Lead Cup Insertion	Gov	D&Z	D&Z	D&Z	D&Z
-BLA Loading (Comp A5)	Gov	D&Z	D&Z	D&Z	D&Z
-Fuze Assembly & Install Slider Lock	Gov	D&Z	D&Z	D&Z	D&Z
-Tape Loop & Eyelet Assembly	Gov	D&Z	D&Z	D&Z	D&Z
-Mold-Silicone Washer Coating	D&Z	D&Z	D&Z	D&Z	D&Z
MLRS Download & Refuzing Process					
-Pod Download	Gov	NA	NA	D&Z	D&Z
-Pod Inspection	Gov	NA	D&Z	D&Z	D&Z
-Warhead & Motor Separation	Gov	D&Z	NA	D&Z	D&Z
-Warhead Skin Cutting	Gov	D&Z	D&Z	D&Z	D&Z
-Downstack Grenades & Safe	Gov	NA	NA	D&Z	D&Z
-Tape Loop Removal	Gov	D&Z	D&Z	D&Z	D&Z
-Grenade Defuze	Gov	D&Z	D&Z	D&Z	D&Z
-Grenade Refuze	Gov	D&Z	D&Z	D&Z	D&Z
-Tape Loop & Eyelet Assembly	Gov	D&Z	D&Z	D&Z	D&Z

	Ownership				
Product Family, Items & General Process Description	**Equip**	**Tooling**	**Machine & Process Control Software**	**Manufacture Instructions (SOPs & Maintenance procedures)**	**Detail Inspection & SPC Plans**
M915 DPICM w/M80 Grenade					
-Hardness Test/Lead Cup Insertion	Gov	D&Z	D&Z	D&Z	D&Z
-BLA Loading (Comp A5/PAX 2A)	Gov	D&Z	D&Z	D&Z	D&Z
-SDF Fuze Assembly	Gov	D&Z	D&Z	D&Z	D&Z
-LAP M915 Projectile	Gov	D&Z	D&Z	D&Z	D&Z
M864 Recap Process					
-Base Burner Removal	Gov	D&Z	D&Z	D&Z	D&Z
-Base Burner Cleaning & Inspection	Gov	NA	NA	D&Z	D&Z
-Projectile Cleaning & Inspection	Gov	NA	NA	D&Z	D&Z
-Downstack Grenades & Safe	Gov	NA	D&Z	D&Z	D&Z
-Tape Loop Removal	Gov	D&Z	D&Z	D&Z	D&Z
-Defuze Grenade	Gov	D&Z	D&Z	D&Z	D&Z
-Refuze Grenade	Gov	D&Z	D&Z	D&Z	D&Z
-LAP Projectile	Gov	D&Z	D&Z	D&Z	D&Z
-Automated Critical Defect Det Vision Sys	Gov	NA	D&Z	D&Z	D&Z
-Projectile Marking (Imaje)	Gov	D&Z	D&Z	D&Z	D&Z
Grenade Explosive & Cone Removal	D&Z	D&Z	D&Z	D&Z	D&Z

2) Question #2 – *"For each line where the process is owned by the operating contractor, how can the line be moved to and incorporated with production at another GOCO facility with a different operating contractor or a GOGO?"*

Response -

The equipment identified in the table above that is owned by the Government can be transferred to the gaining facility. The equipment, tooling, control software, manufacturing instructions, detail inspection plans, and SPC plans (intellectual property) that are owned by D&Z and cannot be transferred without D&Z's consent. Unless either the gaining facility contractor or the Government ultimately contracts with the loosing facility contractor to acquire the intellectual property and onsite technical assistance, the gaining facility contractor will have a lengthy schedule to recreate and validate equivalent intellectual property sufficient to safely produce a quality product.

3) Question #3 –"Specifically what equipment will move to each of the gaining installations? For each move, what is the estimated cost to move that equipment? Are there any special requirements needed to move the equipment?"

Response – The equipment to be relocated has not been identified, but under a BRAC directed closure all of the equipment would require decontamination before movement to another GOCO facility or release to a salvage operation. D&Z prepared a rough order of magnitude (ROM) estimate for the decontamination, removal, relocation, and re-installation of all of the equipment at Lone Star AAP. This ROM is $61.5 million for production equipment and does not include the price for intellectual property or technical assistance to restore the equipment to full rate production. An additional $14 Million would be required to relocate the DRMO demil operation from Lone Star.

To effectively relocate ammunition production equipment for reinstallation and commissioning back into production there are special requirements:

1. All equipment used in explosive loading operations must be dismantled, decontaminated to a XXX condition and reassembled prior to release for shipment. XXX-Explanation of degree of decontamination codes:
    a. Item examined and cleaned by approved procedures, and no contamination can be visual noted on accessible surfaces or in concealed housings, etc. It is not safe to be treated with open flame, high temperature heating devices, cutting devices, or hammering devices.
    b. Transport only in approved Government vehicles.
    c. May be worked on only in accordance with requirements of a Safety Permit or approved SOP.
2. All electrical, pneumatic, hydraulic and steam connections require tagging for reconnection identification upon re-installation.
3. Larger equipment and automated material handling equipment would require disassembly and markings for identification for re-assembly.
4. Computers and programmable logic controllers will require reprogramming at the receiving site unless the intellectual property is purchased from the loosing contractor.
5. Boxes, crates, skids, and blocking must be designed and built for each machine or equipment being relocated.
6. The receiving site will require advanced preparation for re-installation which may include construction of substantial dividing walls for remote pressing/mixing operations, special foundations for heavy equipment, installation of environmental controls for satisfying safety and process parameters, collection/treatment capabilities for hazardous waste, EPA permits, and new construction if existing building structures cannot be modified to accommodate the new operations.

4) Question #4 – *"Provide historical, current 2005, and projected out year percentage of facility utilization."*

Response –Attachments are provided for the historical (Attachment A), current 2005 schedule (Attachment B), and projected out-year programs for Lone Star AAP (See answer to question 6). A percentage of facility utilization on the basis of capacities ("3-8-5" basis, or 3 shifts per day, 8 hours per shift, 5 days per week) fails to reflect a high utilization, but it also fails to recognize the value of idle capacities that will be reactivated as recurring requirements or unplanned warfighter support needs arise from the battlefields. A utilization percentage fails to reflect the value of the skill base and the ability to reactivate idle capacities, when called upon, to produce an item that has been out of production for several years. For example,

1) The M67 Hand Grenade LAP line was idle since 1996, but Lone Star reactivated the production line in 2003 to meet accelerated delivery needs for the Iraq war reserves. Unfortunately, capabilities for Government furnished component materials, that had not been preserved, unfavorably impacted the delivery rates. A new body manufacturer had to be qualified and the fuze supplier encountered first article test failures with a foreign procured fuze component. The Lone Star LAP capability met all accelerated delivery requirements to the availability of the components suppliers because the capability and skill base had been preserved.

2) Lone Star reactivated the Supplementary Charge production line in Oct 2004 to produce in excess of 300K units after the line had been inactive since 1998. All contractual deliveries were met because the knowledge base and capacity was readily available.

A calculated utilization percentage based on a 3-8-5 capacity can be misleading because it places no value on future replenishment needs that are not programmed nor does it reflect the contractor's performance value. In downsizing physical capacities ***safety*** and ***quality performance*** should be evaluated. The success in ***retention and growth of a mature munitions skill base*** should also be considered in this type of evaluation.

Lone Star AAP Safety Performance:

Industry SIC Code 3483					
Year	**Number of OSHA Recordables**	**OSHA Recordable Rate**	**Number of Lost Time Cases**	**Lost Time Rate**	**Number of Fatalities**
2002	8	2.12	0	0.00	0
2003	13	3.80	0	0.00	0
2004	17	5.01	1	0.29	0
2005 Jan-Jun	4	2.00	0	0.00	0

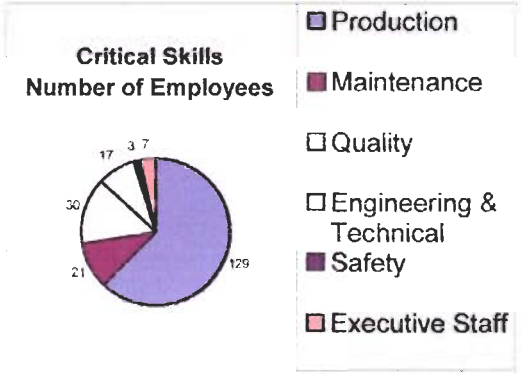
D&Z employees worked 1,139 days, (more than 2 million hours) without a lost time injury prior to the injury that occurred in 2004. Since that injury, 498 days (more than 900,000 hours) have been worked without a lost time injury.

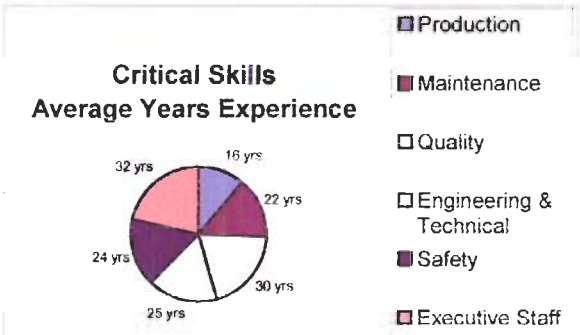
Quality Performance Summary:

	Goal	2002	2003	2004
1st Time Yield	98%	100%	100%	99%
On Time Delivery	100%	100%	100%	100%
QDRs*	0	0	0	0
Failure Cost	<2%	1.7%	1.3%	1.4%

*Quality Deficiency Report

Skill Base:





5) Question #5 –"Provide updated certified data on the personnel levels by military office, enlisted, civilian and contractor."

Response - The contractor personnel staffing varies based on contract delivery requirements. Staffing history is as follows:

Calendar Year	Staffing Levels*		
	Low	Average	High
2003	372	399	424
2004	342	394	440
2005 (Jan-Jun)	387	430	462

*This staffing history includes the Government staff of 19, which includes 1 military officer.

6) Question #6 –"What is the FY04-FY11 planned workload for each line? What is the funding against each requirement?"

Response –

Item C=On Contract P=Planned	Product Line	2006	2007	2008	2009	2010
M101 Grenade-C	Area-B	160,000				
M101 Grenade-P	Area-B	772,400	710,232	829,008	1,745,280	2,196,144
M864 Projectile (Recap)-C	Area-B	904				
M864 Projectile (Recap)-P	Area-B		5,000	TBD*	TBD*	TBD*
M55 detonator f/M239 fuze	Area-P	951,048	724,437	845,588	1,780,185	2,240,066
M239 Fuze f/M101 Grenade	Area-B	941,724	717,334	837,298	1,762,732	2,218,105
Tape Loop f/ M101 Grenade	Area-B	941,724	717,334	837,298	1,762,732	2,218,105
M55 detonator f/40 MM -C	Area-P	1,500,000				
M55 detonator f/40 MM-P	Area-P	3,500,000	5,000,000	5,000,000	5,000,000	5,000,000
M67 Hand Grenade-C	Area-O	449,000				
M67 Hand Grenade-P	Area-O		458,000	451,000	486,000	410,000
Bangalore Torpedo	Area-G	2,500	2,500	2,600	2,600	2,000
Claymore Mine (M18A1)	Area-G	4,000	12,000	12,000	12,000	12,000
Claymore Mine (M68)	Area-G	500	3,500	3,500	3,500	3,500
M54A1 Burster-C	Area-O	23,270				
M54A1 Burster-P (option qty)	Area-O		58,175	58,175		
Smart Modular Munitions	Area-F		42	864	7,136	
Mines (SMM)	Area-F		126	2,592	21,408	
Pressure Cartridge	Area-F		42	864	7,136	
Volcano M87A1 (United Kingdom)	Area-F		3,000			
Volcano M88 Trainer	Area-F		3,200			
M915 Cartridge	Area-B	TBD	TBD	TBD	TBD	TBD
M234 SD Fuze f/M915 DPICM-C	Area-P	600				
M234 SD Fuze f/M915 DPICM-P	Area-P		TBD	TBD	TBD	TBD
M80 Grenade f/M915 DPICM	Area-B	TBD	TBD	TBD	TBD	TBD
FMU-143	Area-F	220	9,000			
M28B2 Primer-C	Area-R	43,000				
M28B2 Primer-P	Area-R		TBD	TBD	TBD	TBD
MCCM-C	Area-G	5,177				
MCCM-P	Area-G		TBD	TBD	TBD	TBD
DRMO Inert Demil	Area-I	TDD**	TDD**	TDD**	TDD**	TDD**

* After qualification of pyro-SD fuze 16,000 plus rds/yr are expected

** Estimated to continue @ CY05 level of effort of 17 direct labor personnel

7) Question #7 – *"What makes Lone Star Army Ammunition Plant unique? Why is it unique? Why can't that be done at any other location?"*

Response –

The following make Lone Star Army Ammunition Plant unique because the intellectual knowledge and experience do not exist at any other location:

1. Proven capability to successfully develop processes, design equipment, manufacture equipment, install equipment, demonstrate and qualify equipment. Other GOCO contractors subcontract for design and manufacturing of equipment. In the 70's D&Z Lone Star designed, purchased, and installed equipment at other GOCO's because of this unique capability. This unique capability has most recently been applied to the following programs:
    a. LAP of the M234/235/236 Self-Destruct Fuzes is performed on high rate production equipment designed, built, installed and demonstrated at rate by D&Z Lone Star personnel
    b. MLRS download, M77 recovery, fuze removal and refuzing
    c. M864 Recap (downloading rounds, M42/46 grenade recovery, grenade refuzing and restacking of projectiles.)
    d. Patented process to remove explosives and cones/liners from M77/M42/M46 Grenades for reloading with insensitive explosives to satisfy insensitive munitions (IM) requirements.
    e. Application of automated vision inspection for critical defects on the M213 fuze to support LAP of the M67 Hand Grenade.
    f. Market research to identify, qualify, and integrate Imaje product marking methods into the LAP processes for the RADAM, M67 Hand Grenade, and M864. We have recently received funding to incorporate this marking technology into the M915 LAP process.

2. Lone Star produces products and provides services that are unique to Lone Star--not performed at other GOCO LAP plants (a description of each of these unique capabilities is in Attachment C):
    a. Pyrotechnic Manufacture
    b. M67 Hand Grenade LAP
    c. MLRS Pod download, warhead-rocket separation, M77 Grenade recovery, fuze removal, and refuzing
    d. MLRS Pod inspections
    e. LAP of M234/235/236 electronic Self-Destruct Fuzes
    f. Manufacture of M223 fuzes for MLRS M77.
    g. Manufacture of the M239 fuzes for the M101 Grenades.
    h. Manufacture of M101 Grenade Tape Loop/Eyelet Assembly
    i. LAP of the M915 DPICM including the M80 Grenade
    j. Supports Defense Reutilization Marketing Service (DRMS) as their designated largest demil/mutilation center.
    k. Location of the only Demanufacturing of Electronics Equipment for Reuse & Recycling (DEER2) pilot facility
    l. Modular Crowd Control Munition (MCCM)

m. M935 fuze Components (M53 Delay element, M76 and M98 detonator, Lead Assembly)
n. Percussion Primers (M28B2, M1B1A2, MK161, M82)
o. IM loading of M80, M77, M42, and M46 Grenades
p. Pyro Self-Destruct Fuze developmental support to two ARDEC selected commercial fuze suppliers.
q. Designs own processes, designs/builds/installs/operates LAP equipment utilizing in-house engineering and technical personnel.
r. M221 Demolition Charges
s. MIGRAD (Mixing, Granulating, and Drying) system for safely producing pyrotechnics. Requires a special structure to house this equipment and control center.

3. The unique capabilities at Lone Star AAP can be re-created at another location provided enough time and money is allocated to assure success. Unless the cost and schedule for acquiring the D&Z intellectual property is factored into the decision, the receiving installation will expend years of "trial & error" learning to regain the proficiencies of the existing capability. A recent example illustrates this point clearly. Milan AAP was awarded a contract for the production of the M54 Burster in 1999 although the Burster had previously been manufactured at Lone Star AAP. Milan AAP has been unsuccessful in producing a quality product, and Lone Star has just been awarded a "best value" procurement action to produce the M54 Buster based on Lone Star's technical know how. Under the current BRAC recommendations, this mission for production of the M54 Buster would be transferred back to Milan AAP—which has no successful track record of production—and no provisions or cost analysis has been made to secure the intellectual property to assure success.

Attachments

II. Attachment A-Lone Star Products 1970-2004 ITEM	Total 1970-2004
Acceptor Lead Assembly	37,100
Body Loading Assembly F/M42 (W/3rd Party)	5,000
Booster Assembly PA524	225,647
Booster Auxiliary PA500	304,140
Booster M125 & M125A1	6,500
Burster F/2.75"	683,872
Burster M19	59,532
Burster M35	71,385
Burster M40A1	463,000
Burster M47	190,070
Burster M53 & M53A1	715,850
Burster M54-XM54	31,720
Canister Assembly, Volcano M87	119,531
Canister Assembly, Volcano M88	11,860
Canister Assembly F/Volcano M87A1	1,310
Canister Assembly L1A1-AT40 / L1A2 -AT80 (W/3rd Party)	13,267
Canister Assembly Reloadable M88R (W/3rd Party)	1,006
Canister Assembly Type 50 Special (W/3rd Party)	8
Canister M87 EMF TY40 & TY80 (W/3rd Party)	6,783
Cartridge 105MM HE M1	701,779
Cartridge 81MM HE Mortar	859,622
Cartridge Case 105MM XM217E1 w/M200 Propellant Charge w/M28A2 Primer	4,542
Charge Demolition Clipped M221	1,018,284
Cutter MK3	15,476
Delay Assembly CCU-18/B	2,555
Delay Assembly F/155MM M549	658,950
Delay Assembly F/155MM M692/M731	10,911,873
Delay Assembly F/40MM	940,401
Delay Assembly F/40MM	1,030,189
Delay Assembly F/Fuze M733	625,249
Delay Assembly F/Projectile 8" M650	338,786
Delay Element M2 (Various Second Delay)	18,320,529
Delay Element M53 (W/3rd Party)	9,595,448
Delay Element M53 F/Bulova Renovation	2,333,484
Delay Element M9 (Various Second Delay)	1,388,129
Demil M483 Projectile	83,121
Demil M509 Projectile	139,407
Detonator M17	8,820,832
Detonator M24	9,771,690
Detonator M35	335,680
Detonator M42	235,865
Detonator M44	5,704,999
Detonator M46	4,340
Detonator M47	503,325
Detonator M55	509,849,283
Detonator M57A1	1,783,146
Detonator M57A2	925,383

Detonator M58	87,240
Detonator M59 (Inert)	7,000
Lone Star Products 1970-2004 (continued)	
ITEM	**Total 1970-2004**
Detonator M59 (W/3rd Party)	43,098,671
Detonator M63	3,432,540
Detonator M651, M61E1 & M61E2	3,752,615
Detonator M76, XM76 (W/3rd Party)	9,998,640
Detonator M80	2,872,610
Detonator M86, XM86	270,370
Detonator M87, XM87	523,310
Detonator M91, XM91	17,205
Detonator M94 (W/3rd Party)	11,217,868
Detonator M98 (W/3rd Party)	10,947,576
Detonator M99	9,877,046
Detonator MK95	6,903,800
Driver MK22	8,159
Expulsion Charge Assembly (105 Gram)	760,111
Expulsion Charge Assembly (51 Gram)	180,590
Expulsion Charge Assembly (91/100 Gram)	494,805
Expulsion Charge Assembly F/M915	350
Expulsion Charge Assembly F/Projectile M483 & M483A1	518,583
Fuze BD M578	247,397
Fuze M123A1, M124A1 & M125A1 (Delay Times 24 to 144 Hours)	128,910
Fuze M234 (W/3rd Party)	9,065
Fuze M236 (W/3rd Party)	316
Fuze M578 Rework	58,162
Fuze M904E3 (Bomb Nose)	330,118
Fuze M904E4 (Bomb Nose)	82,940
Fuze M905 (Bomb Tail)	487,973
Fuze M935	880,550
Fuze PD BD M509A1, E-4, E-5 & E-6	617,560
Fuze PD BD M509A2	329,344
Fuze PD M503A2	71,006
Fuze PD M524A1, M524A5 & M524A6	33,720
Fuze PD M567 - Level A & Level C	1,225,267
Fuze PD M567 - Level C	1,115,147
Fuze Proximity M732	4,032,958
Fuze Proximity M732 W/Supply Fix	494,341
Fuze, DeBooster M567	306,890
Fuze, XM235	11,046
Grenade Hand M67	11,909,473
Grenade M42 (W/3rd Party)	6,431
Grenade M42 XM77 (Inert W/HE Fuze)	1,154,362
Grenade M42E2 XM77	101,636,150
Grenade M46 (W/3rd Party)	3,488
Grenade M67 Renovation	140,578
Grenade M77 (Includes 265,404 Inert W/Live Fuze - Color Coded) (W/3rd Party)	178,990,487
Grenade M77 (Retrofit) Pod Download	665,585

Grenade M77 Download from MLRS Pods	650,020
Grenade M77 Download/Pin & Ship	890,055
Grenade M77 HE Defuzed/Refuzed w/M223 Left-Hand Arming Screw	5,187,314
Grenade M77 Recover from MLRS Warheads	531,865
Lone Star Products 1970-2004 (continued)	
ITEM	**Total 1970-2004**
Grenade M80 W/Modified M223 Fuze (Navy)	532,495
Grenade XM80 (W/3rd Party)	393
Grenade XM85 (W/3rd Party)	1,048
Grenade, XM101 HE W/XM239 Fuze	384,939
Igniter Comp F/Camden in Support of Primer M125/129 (W/3rd Party)	38,561
Igniter M63 F/35MM Subcal	118,701
Igniter M76	22
Igniter Mix F/Primer M125	15
Lead Cup Multi-Purpose PA510	10,612,509
Lead Assembly F/M935 Fuze (W/3rd Party)	365,497
Lead Assy (Drawing 65B12287)	672,300
Lead Assy F/Bulova & Reno	1,133,714
Lead Cup (Drawing 9234683)	799,260
Lead Cup Assembly F/Fuze M219 & M219A1E1	2,466,653
Lead Cup Assembly F/Fuze M567	6,423,756
Lead Cup Assembly F/M56 Mine	98,570
Lead Cup Assembly F/Projectile 155MM M692/M731	16,027,219
Lead Cup Assembly F/XM80 (W/3rd Party)	100
Lead Cup F/Fuze M551	196,790,147
Lead Explosive PA508 (W/3rd Party)	48,400
Lead Explosive PA510 (W/3rd Party)	195,706
Mine Assembly BLU-91/B	731,878
Mine Assembly BLU-92/B	230,798
Mine AT, M1 Activator	392,842
Mine BLU-91/B (T-4)	5,652
Mine, Canister, Practice M88	2,640
Mine, Dispenser Assy ACFT CBU-89 (T-1)/B	1,110
Mine, Dispenser, ACFT CBU-89 (T-1)B	114
Modular Crowd Control Munition (MCCM)	15,608
MOPMS (Download & Reskin)	1,872
MOPMS AP Mine	13,959
MOPMS AT Mine	56,221
MOPMS M131	2,669
MOPMS M136	140
Pressure Cartridge	2,246
Primer Electric M120, XM120	864,479
Primer Electric M128	123,596
Primer Electric M73	75,190
Primer Electric M80A1	5,532,922
Primer Electric M82	485,358
Primer Electric M83	3,047,821
Primer Electric M86	281,203
Primer Percussion M1B1A2 (W/3rd Party)	1,303,795

Primer Percussion M1B1A2 Level A	1,000
Primer Percussion M28B2	12,755,846
Primer Percussion M54	13,898,946
Primer Percussion M60A1	52,568
Primer Percussion M61 (W/3rd Party)	13,128,078
Lone Star Products 1970-2004 (continued)	
ITEM	**Total 1970-2004**
Primer Percussion M73	63,127
Primer Percussion M82 (G-Line)	3,802,372
Primer Percussion M82 (R-Line)	15,379,644
Primer Percussion M90 & M90E1	10,000
Primer Percussion M98	7,700
Primer Percussion MK104	91,000
Primer Percussion MK161	518,236
Primer Percussion MK22	2,232,929
Primer Percussion MK2A4	3,665,869
Primer Percussion XM120	1,535
Primer Stab M26	6,475,375
Primer Stab M56	14,150
Primer Stab PA505	5,252,396
Primer Stab T103E1	48,471
Projectile HE 155MM M483A1	576,248
Projectile HE 155MM XM483	10,266
Projectile HE 8" M509A1	782,657
Projectile M864 (W/3rd Party)	90
Relay Cup Loading Assembly (W/3rd Party)	34,244
Relay M7	15,311,655
Relay XM11	45,860
Relay XM9	510,200
Rocket HE 66MM M72A2 (LAW) M72E1	516,356
Spotting Charge F/M483A1 & M509	357,638
Supplementary Charge Assembly F/105MM	123,524,798
Tracer M12	105,125
Tracer M13	10,617,991
Tracer Plug & Disc Assembly F/105MM M900	34,000
Transfer Lead Assembly	37,100

III. Attachment B-2005 Delivery Schedule

LINE	ITEM	CONT TYPE	CONTRACT STATUS	JAN	FEB	MAR	APR	MAY	JUN	JAN/JUN TOTAL	JUL	AUG	SEP	OCT	NOV	DEC	JUL/DEC TOTAL	TOTAL
B	Grenade M85/XM235SD (Bulk Shipper)	BOA	On Contract														0	
B	M101 Grenades f/MLRS (M239 Fuze Only)	BOA								0			40K	121K			0	161K
B	M77 Grenade W/ATK SDF	BOA	Pending														0	
B	M223 Fuze f/Taiwan	TP	On Contract							0		40K	60K				0	100K
B	M80Grenade/Mod 223F/XM54(Navy)	Prime								0							0	0
B	M77 Retro (From Bulk Shippers)	BOA	On Contract	43.2K	43.2K	43.2K	43.2K	43.2K	43.2K	259.2K	43.2k	43.2K	40K	40K	40K	40K	246.402K	505.608K
B	M77 Retro (DN Load Pod Only)	Prime								0							0	0
B	105MM M915 LAP	BOA	On Contract							0				.9K	1.005K		1.905K	1.905K
B	M80 Grenade W/M234/(Fuze Only)	Prime								0							0	0
B	M80 BLA/M915	Prime								0							0	0
B	M239 Fuze	BOA								0							0	0
B	M77 Grenade-Taiwan	TP								0					100K		100K	100K
B	M864 Recap	BOA	Pending														0	
B	M77 Grenade-Lockheed/IMI	TP								0							0	0
F	VOLCANO M87A1 FY02	BOA								0							0	0
F	M87A1 AT Mine FY02	BOA								0							0	0
F	ATK VOLCANO									0							0	0
F	ATK AT Mine									0							0	0
F	VOLCANO M88		On Contract							0			4.56K				4.56K	4.56K
F	Pressure Cartridge	BOA	On Contract									4.727K					4.727K	4.727K
F	Supplementary Charge	BOA	On Contract	48,000	48.000	48,000	48.000	43,260	39.117	274.377	48,000	6,322					54322	328,699
F	Gator Trainer (Upload Only)	BOA	On Contract					115	115	230							0	230
F	M131 Refurbishment	BOA	On Contract	310	281					591							0	591

LINE	ITEM	CONT TYPE	CONTRACT STATUS	JAN	FEB	MAR	APR	MAY	JUN	JAN/JUN TOTAL	JUL	AUG	SEP	OCT	NOV	DEC	JUL/DEC TOTAL	TOTAL
G	Primer M82	NA								0							0	0
G	Tracer M13	NA								0							0	0
G	Expulsion Chg 45 Gram F/ XM915	Prime								0							0	0
G	RADAM (Pack and Repack)	BOA								0							0	0
G	RADAM (Download)	BOA								0							0	0
G	MCCM (FY03)	BOA	On Contract	295	960	960	960	960	960	5,095	960	960	960	960	960	480	5,280	10,375
G	Igniter Mix (Camden Spt-del in lbs)	TP	Camden spt	50						50	50						50	100
G	Expulsion Charge F/M864	TP	Pending														0	
K	Primer M54	TP	Projection	50,000		50,000			50,000	150,000	100K0	100K	100K				300,0000	450,000
K	Primer M61	TP	On Contract				34,000			34,000							0	34,000
K	Primer M61	BOA								0							0	0
O	M67 Grenade (FY03)	BOA	On Contract	33,950	120,000	90,000	90,000	90,000	70,000	493,950							0	493,950
O	M67 Grenade (System Contract)	BOA	Projection							0								
O	M67 Grenade (renovation)	UNK								0							0	0
P	Detonator M55 OSC (CY02 release)	BOA	On Contract							0				161K			161,000	161,000
P	Detonator M55 JMC (CY05 release)	BOA	On Contract							0		267K	267K	267K	267K	267K	1,336,380	1,336,380
P	Detonator M55 JMC (CY04 release)	BOA	On contract			67,950				67,950							0	67,950
P	Detonator M59	BOA	On Contract										100K	168.5K			268,515	268,515
P	Detonator M76	TP	On Contract					45K	31.48K	76,477	29K	80K	80K	81.33K			350,331	426,808
P	Detonator M98	TP	On Contract					45K	33.6K	78,600	29K	160K	158.7K				347,703	426,303
P	Detonator M99	TP	On Contract							0		2,300					2,300	2,300
P	PA508 Lead	TP								0							0	0

LINE	ITEM	CONT TYPE	CONTRACT STATUS	JAN	FEB	MAR	APR	MAY	JUN	JAN/JUN TOTAL	JUL	AUG	SEP	OCT	NOV	DEC	JUL/DEC TOTAL	TOTAL
P	Lead for M221 Demo	NA								0							0	0
P	XM80 LeadF/EX172	TP								0							0	0
P	Detonator M55 (Amtec)	TP	On Contract	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	41,000			300K	300K	300K	941,000	2,741,000
P	Detonator M55 (JKS)	TP	On Contract	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	300,000	300,000	300,000	300K	187.7K		1,387,696	3,187,696
P	M55 Taiwan	TP	On Contract							0		100K					100,000	100,000
P	Relay Cup Assemblies	TP	On Contract			11,200				11,200							0	11,200
P	Detonator M76	TP								0							0	0
P	Detonator M94	TP						15.8K		15.8K							0	15.8K
P	Detonator M98	TP								0							0	0
P	Lead PA510	TP								0			6,000				6,000	6,000
P	Lead M567	TP								0							0	0
P	Lead M567	TP								0							0	0
P	Delay M53	TP	On Contract			20,000	20,000	20,000	22,005	82,005	70,000	80,000	80,000	80K	58,306		368,306	450,311
P	M935 Lead	TP	On Contract			60K			47,777	107,777		150K	175.8K				325,793	433,570
P	Lead EX2 F/5"M54	NA								0							0	0
P	XM234/SD/XM915 TP	TP	On Contract									85,000	100K	100K	45K		330,000	330,000
P	XM234/SD Fuze/M80/EX172 (TP)	TP								0							0	0
P	XM235/SD/M85 Grenade (TP)	TP								0							0	0
R	Primer M1B1A2	TP															0	
R	Primer M61	TP	On Contract				34,000			34,000							0	34,000
R	Primer MK161	BOA								0							0	0
R	Primer M28B2	BOA	Pending							0		70K	70K	70K	35,202		245,202	245,202
XX	Demil Warheads									0					432		432	432

IV. Attachment C-Unique Products

a. **Pyrotechnic Manufacture** –Lone Star has the capability and experience to load pyrotechnic mixes for the following items:

M76 Delay / M2 - Delay - Igniter (A1A)
M53 Delay - slow delay - fast delay - Igniter (F33B) - Pyro Premix
M549 Delay/ M650 -Delay - Boron Potassium Pellet Mix - Flash Composition - Igniter - First Fire
M731/M692 - Delay - 1st Fire - Output Composition
Tracer and Plug Assembly - Tracer Composition - Igniter Composition
Fin Tracer - Tracer Composition – Igniter Composition
TR996 Tracer - Tracer Comp - Igniter Composition
M13 Tracer - Tracer Comp - Igniter Composition
M1 Activator - Photoflash - Smoke Composition
Bulova Tungsten Delay - different from M549
M54 Primer Mix
M61 Primer Mix
Electric Igniter comp for 120 Tank Rounds (Camden)
M733 - Delay - output - fire composition

b. **M67 Hand Grenade**- The Load, Assemble and Pack (LAP) of the M67 Hand Grenade is performed at Lone Star Army Ammunition Plant (LSAAP), which has a strong history of producing these grenades (over 43 million since WWII). Lone Star is the only active producer in the US and its LAP line was reactivated in 2003 after being idle for 7 years. Lone Star has the only proven high rate M67 HG LAP capability in the organic US ammunition base with a LAP line capacity of 120,000 grenades per month on one shift (1.4 million per year). The LAP of the M67 HG requires process controls to prevent 5 critical defects that directly affect the safety of the soldier. Lone Star/D&Z has recently taken extra initiatives to preclude any of these critical defects by installing state of the art vision equipment that inspects and identifies these critical.

c. **Multiple Launch Rocket System (MLRS) Grenade Recover and Refuze-** Lone Star is the only facility that has the capability and experience to recover grenades for retrofit and reuse in the MLRS rocket system. This is accomplished by downloading the M26 pod and separating the warhead from the rocket motor. The warhead is sectioned and the grenades are removed from the warhead. The fuze is then removed from the grenade and a new fuze is attached to the grenade.

d. **MLRS Pod inspections** –Lone Star has the only capability and experience to inspect a rocket pod after the rockets are removed. A robotic crawler mounted with cameras inspects and records a video of the interior of the rocket tubes.

e. **LAP of Electronic SDF**- Lone Star has the only capacity and experience to load the M55 detonator and the EED charge into the M234, M235, and M236 fuze. The production quantities to date have been small due to the technical challenges in development of this fuze, but the line has been reactivated many times to successfully produce test units. Initiating explosive processing equipment and processes were developed to support this product. All of the high rate equipment was designed, built, installed and demonstrated at the required performance rates with D&Z Lone Star personnel.

f. **Manufacture of M223 fuzes**- Lone Star is the only facility that has the capability and experience to produce the M223 fuze (left-hand and right-hand) for the ICM programs. This production line is reactivated as needed to meet production demands.

g. **Manufacture of M239 fuzes**- Lone Star is the only facility that has the capability and experience to produce the M239 fuze for the guided MLRS program. This production line is reactivated as needed to meet production demands.

h. **Manufacture of M101 Grenade Tape Loop/Eyelet Assembly** – Lone Star is the only facility that has the capability and experience to fabricate the tape loop for the M101 grenade. The tape loop was designed to withstand the high pressures at warhead event in the MLRS.

i. **LAP of the M915 DPICM including the M80 Grenade** - Lone Star is the only facility that has the capability and experience to LAP the M915 cartridge with the M80 grenade. This is accomplished by the loading of the M80 grenade and fuze assembly. The M80 is then loaded into the M915 cartridge for final assembly.

j. **Supports Defense Reutilization Marketing Service (DRMS) as their designated largest demil/mutilation center** –Lone Star is the largest demil site for DRMO. (See Attachment D for additional information)

k. **Location of the only Demanufacturing of Electronics Equipment for Reuse & Recycling (DEER2) pilot facility** - On 30 September 2001, the National Defense for Environmental Excellence (NDEE) was tasked by U. S. Army to execute task # 251 to develop a "Pilot Electronics Equipment Demanufacturing Recycling & Reuse System". The Defense Center for Environmental Excellence located in Largo, Florida. (NDCEE) is operated by Concurrent Technologies Corporation (CTC) an independent nonprofit organization. The CTC was given a contract to evaluate and come up with proposal to provide the Pilot Recycling Plant. Approximately $27,000,000 was spent to evaluate, procure, install equipment system to demonstrate the State of the Art System to recycle the electronics and produce reusable product streams. The system has a Receive & Ship Module, Disassembly

Module, Plastic Volume Reduction and Separation Module, the CRT Disassembly & Glass Process Module, Metals and Electronics Components process and Salvage Module, and Printed Wiring Board Processing Module. It also has the DCS (Process Data Control System). With the recommendation of DRMS, it was decided that this equipment be moved to Lone Star. To balance the process of this system some additional equipment, costing approximately $750,000, was bought and installed at this plant. Equipment Demonstration was conducted in June and the demonstration report was submitted in September 2004. This is one of a kind system owned by DOD and it is located at LSAAP.

l. **MCCM Non Lethal Claymore**-Lone Star is the only GOCO facility that produces the Modular Crowd Control Munitions (MCCM). This item is used to support the war fighter as well as law enforcement agencies to control hostile situations without using deadly force. LSAAP worked with government agencies to design and produce the first MCCM's. LSAAP has produced over 22,000 of these units to date.

m. **M935 fuze Components (M53 Delay element, M76 and M98 detonator, Lead Assembly)** - Lone Star is the only facility that has the capability and experience to load the four explosive components for the M935 fuze. These items require a tremendous amount of support equipment located at Lone Star.

n. **Percussion Primers (M28B2, M1B1A2, MK161, M82)** - Currently, LSAAP is the only GOCO facility that produces these primers. Percussion primers play a very critical role in artillery operations and are used to initiate artillery rounds. LSAAP has a strong history of producing these items with both high rate and low rate capacities.

o. **Insensitive Munitions (IM) Loading of ICM Grenades**- Lone Star is the only facility that has the capability and experience to press load PAX-2A on high-speed rotary presses for the M42, M46, M77, M101 and M80 grenades.

p. **Pyrotechnic Self-Destruct Fuze development in support of two ARDEC selected commercial fuze suppliers** –Bulova and ATK recently selected Lone Star AAP to support development of their self-destruct fuzes. This was in competition with Milan AAP and Kansas AAP.

q. **Designs own processes, designs/builds/installs/operates LAP equipment utilizing in-house engineering and technical personnel** –D&Z Lone Star is unique by retaining a cadre of engineering and technical staff to apply advanced technology solutions to today's challenges in automation of munitions LAP processes and for performing inspection of critical characteristics. Designs are transformed into machines with manufacture and assembly in a local machine shop or directly on the production line. All of the machine controls are designed and installed with plant personnel. Experienced

engineers and technical personnel commission the equipment into full rate production and continue to support the production with continuous improvement innovations.

r. **M221 Demolition Charge**- Lone Star is the only facility that has the capability and the experience base to load the M221 Demolition charge. Equipment used in production of the M221 is also used to produce various other ICM grenades.

s. **MIGRAD** - The MIGRAD (acronym for mixing, granulating, and drying) is a processing system designed to manufacture various pyrotechnic compositions used in the defense industry, ranging from "smoke" mixes to more energetic mixtures such as tracer compositions, delay compositions, and igniter compositions. Originally developed for the pharmaceutical industry where blending consistency and precise control of particle sizes are important requirements, this technology was leveraged at Lone Star to enhance the safety of personnel, improve quality, and increase the efficiency of pyrotechnic operations. One of the major safety improvements of the MIGRAD System over conventional pyrotechnic processes is that all processing (mixing, granulating, and drying) is performed within a single mixing chamber, thus eliminating intermediate handling steps. Remote operation of this equipment enables pyrotechnics to be manufactured from raw materials to final product without exposing operators to hazardous in-process material. The MIGRAD is unique to Lone Star and has been recently used to support L3 – Bulova on the M864 pyro SDF program.

V. Attachment D-Central Demil Center at Lone Star AAP Operated by D&Z

The original project for Centralized DEMIL was first established in a letter dated Feb 19, 1998. There were three sites identified in this first letter: DRMOs Warner Robbins, St Juliens Creek, and Texarkana. Conceptual support and commitment for this Command initiative was obtained to establish a Government-operated facility, DRMO Warner Robins, DEMIL as a Condition of Sale, DRMO St Juliens Creek, and the Contractor operated site at Lone Star AAP, DRMO Texarkana. It was agreed, that the sites would meet the aggressive implementation date of March 31, 1998. DRMO Texarkana, DRMS-US and Day & Zimmermann at Lone Star AAP worked as a team in developing a scope of work and surveillance plan to meet the implementation date. A warehouse for storage and a work order system for Accountability were set and work began. The first items were completed prior April 1, 1998. Equipment in use for the Demilitarization and Mutilation of Munitions List Property consist of:

8 ea. Plasma Arc Cutting Machines
1 ea. A-Jon Logger/Baler
8 ea. Oxygen-Acetylene Cutting Rigs
1 ea. Vertical Band Saw
1 ea. Portable Blade DeFormer
1 ea. Oxygen Lance Cutting Unit
3 ea. SSI Shredding Machines
1 ea. 50-Ton Hyd. Press
2 ea. Abrasive Wheel Portable Cutters
1 ea. Textile Shredder

Personnel Staffing: Government-15 Employees & Contractor-17 Employees
All Day & Zimmermann Employees are certified in accordance with DoD 4160.21-M-1.

Feeder Sites (DRMS facilities that use the installation to provide demil services)
Original Feeder Sites: DRMO Ft Polk, DRMO Little Rock, DRMO Texarkana
Current Feeder Sites: DRMO Offutt, DRMO Ellsworth, DRMO Riley, DRMO Oklahoma City, DRMO Hood, DRMO San Antonio, DRMO Dyess, DRMO Corpus Christi, DRMO Polk
Direct Shipment Generators (Government installations that use the Center to provide demil service)
Camp Beaureguard (LA); DOL Ft Polk (LA); FMMC Ft Polk (LA); Little Rock AFB (AR); Camp Robinson (AR); Sheppard AFB (TX); DOL Ft Sill (OK); Laughlin AFB (TX); DDOO Oklahoma City; Ok Air National Guard; Oklahoma Army National Guard; Lackland AFB (TX); DDC Corpus Christi; NAS Corpus Christi; EG&G San Antonio (TX).

Performance History	Demil Item count	Mutilation & Demil combined	Scrap Sales History	RDT* History
FY04	28,684	77,633	$4,341,207.53	$45,996,529.00
FY05-to Jun05	20,637	59,307	$7,047,231.28	$17,949,085.00

*Reutilization Donation Transfer; issued to other government agencies