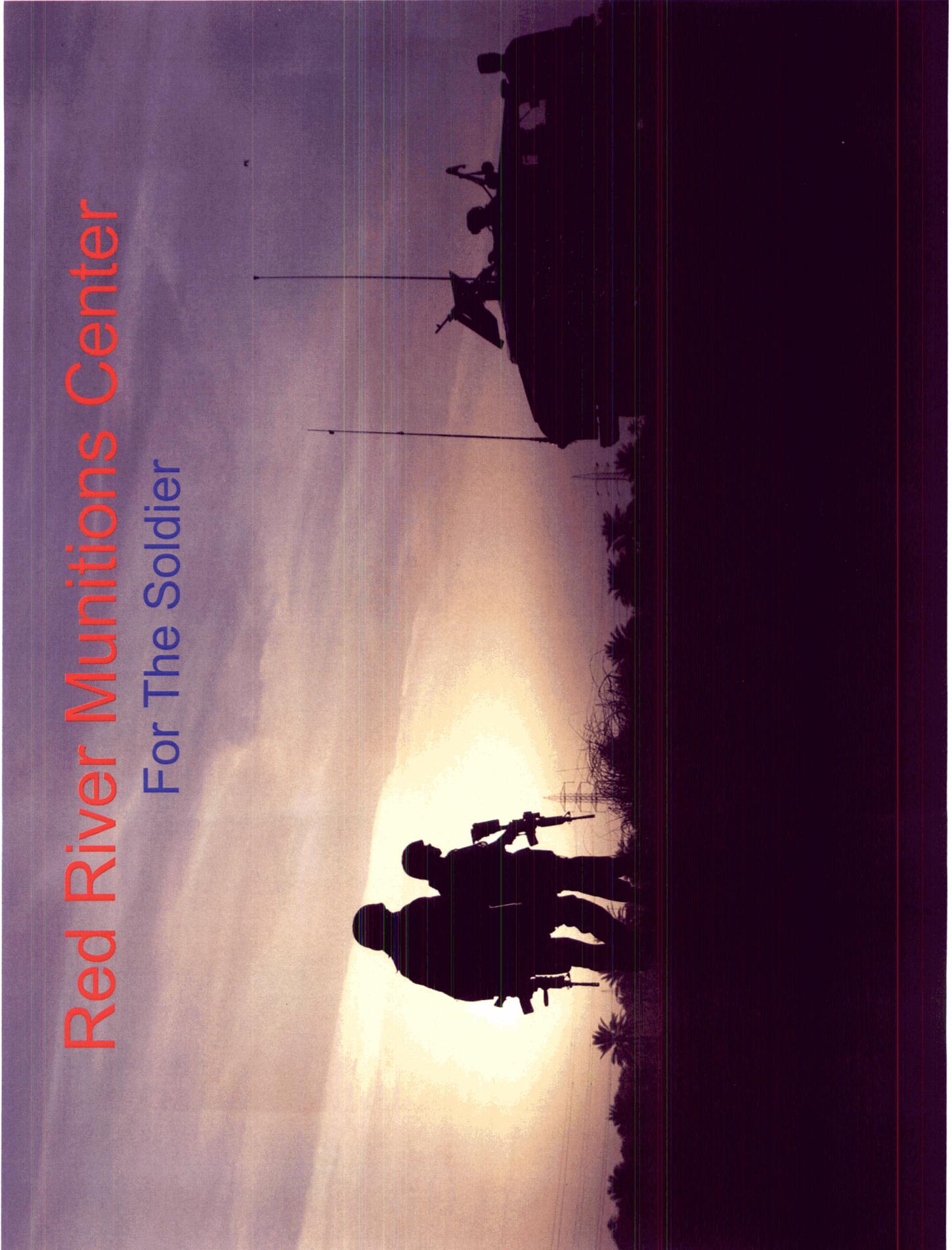


Red River Munitions Center

For The Soldier





RED RIVER MUNITIONS CENTER

ISO 9001:2000 Registered

Commander: COL Gary Carney
Munitions Center Director: Harrell Hignight
“Explosive Support thru Quality Workmanship”



RRMC MISSION

- ✓ **Mission:** Support the joint warfighter by executing efficient and safe receipt, issue, storage, demil, renovation and maintenance of conventional munitions and missiles within cost and on schedule.
 - ✓ **Vision:** Become the DoD Center of Expertise for maintaining stockpile and providing missiles and munitions to the war fighter safely and securely.
-



What We Do

- ✓ Upgrade Maverick for Air Force
 - ✓ Renovate Chaparral missile for FMS customers
 - ✓ X-ray fuzes, rocket motors, and mortars
 - ✓ Conduct grenade renovation for Army, Navy and Marine Corp
 - ✓ Storage and transportation support
 - ✓ DOD power projection mission for munitions outload – 133 containers per day
-

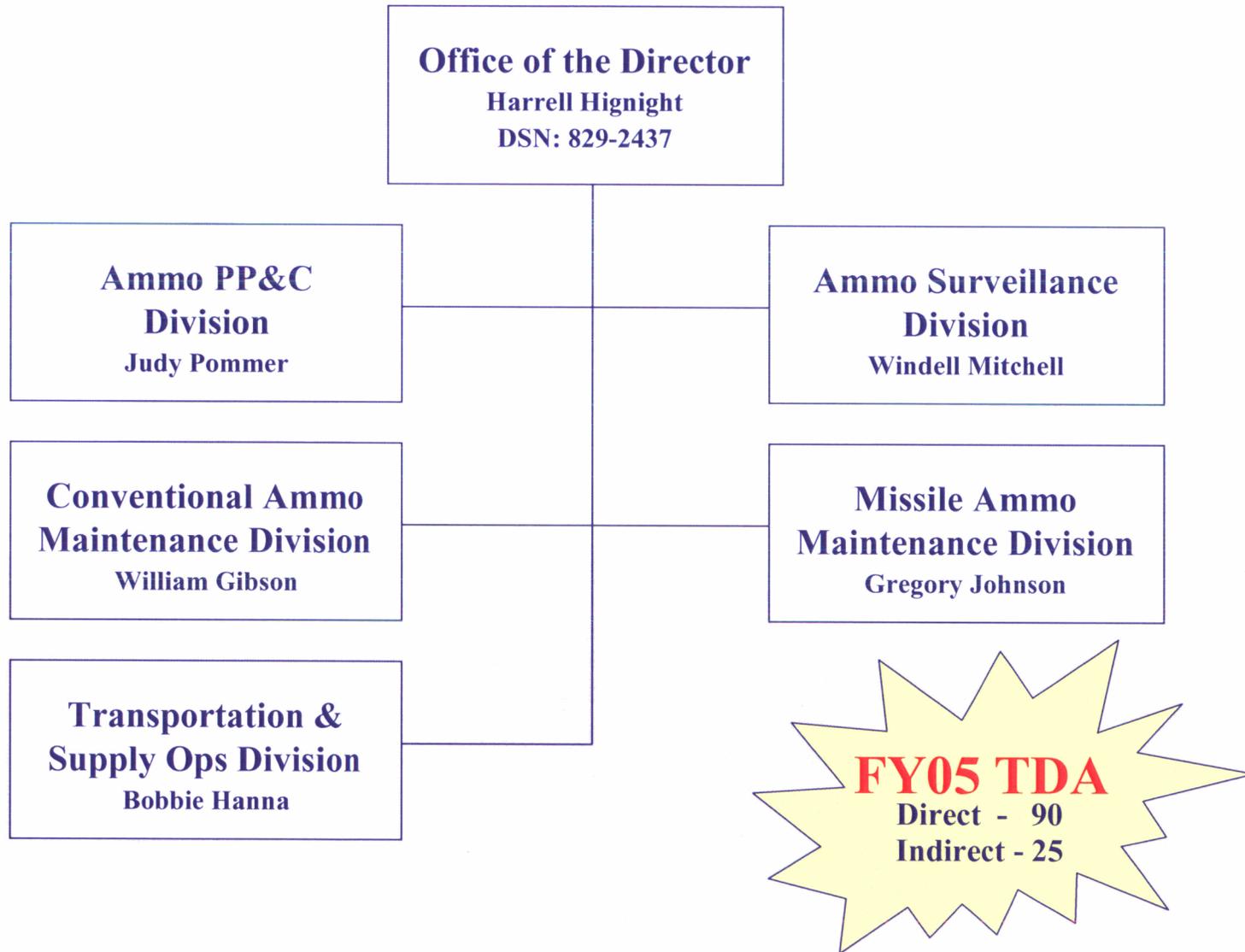


Partnering

- ✓ **Theater Readiness Monitoring Directorate (RRAD)**
 - Patriot Missile Reset
 - Storage and Transportation
- ✓ **Hill AFB and Raytheon**
 - Test , modify, upgrade, store and ship Maverick missile
- ✓ **Warner Robins Air Force Base**
 - Maintain accurate database on Maverick missiles
- ✓ **Lockheed Martin**
 - PAC3 software upgrade
- ✓ **Air Force and Defense Distribution Depot – Red River**
 - F16 Peace Sky



Red River Munitions Center





RRMC Organizations



Ammo Production Planning and Control Division

Plan, develop, coordinate, and control ammunition workload and funding, systems, policies and procedures.

Ammo Surveillance Division

Direct, control, monitor, and evaluate the ammunition surveillance program for ammunition, explosives, and guided missiles.





RRMC Organizations



Conventional Ammo Maintenance Division

Perform maintenance on conventional ammunition. Open burn, open detonate conventional ammunition, missiles, and missile components and static fire missile motors.



Missile Ammo Maintenance Division

Perform maintenance and provide technical assistance on a variety of guided missile systems.



RRMC Organizations



Transportation & Supply Operations Division

Receive, store, issue, and move conventional, missile, and related ammunition items.





Primary Customers

Marine Corp

**Joint Munitions
Command**

Army

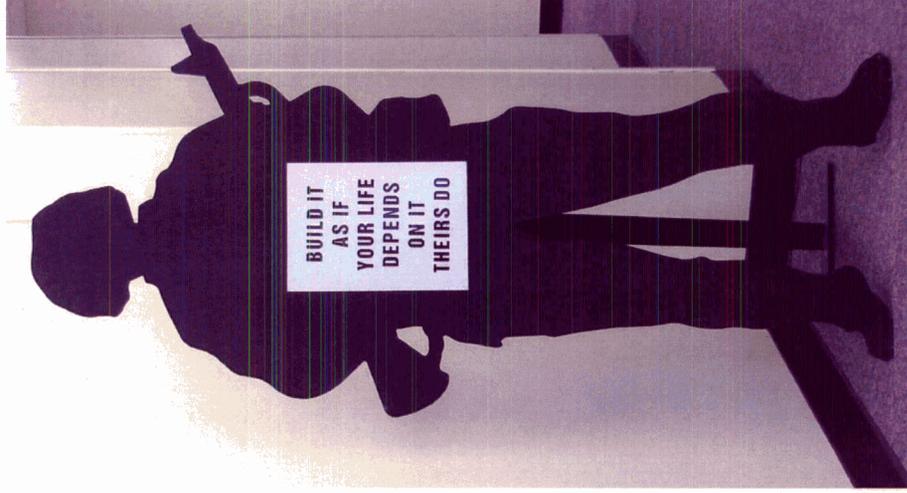
Red River Army Depot

**Aviation Missile
Command**

Air Force

Navy

**Directorate of
Theater Readiness
Monitoring**



The Soldier in the Field



Customer Focus

- ✓ Send QASAS to Kuwait and Iraq to work side by side with the soldier
 - ✓ Visit major customers quarterly
 - ✓ Attend semiannual in-process reviews and conferences to discuss current and future requirements
 - ✓ Respond to customers' needs
 - Meet with contractors
 - Provide technical support (CONUS & OCONUS)
 - ✓ Host meetings and site visits on depot for customers
 - ✓ Provide home phone numbers to meet emergency workload requirements during non-duty hours
 - ✓ Maintain highly skilled, well-trained workforce
 - ✓ Develop process improvements
 - ✓ Train FMS customers both on depot and in country
 - ✓ Send out customer surveys for off-depot and depot customers
-



Major Missions



**Conventional
Maintenance
Demilitarization**

**Supply
Receipt
Storage
Shipping**

**Missile
Maintenance
Demilitarization**





**Explosive Certification
Training**

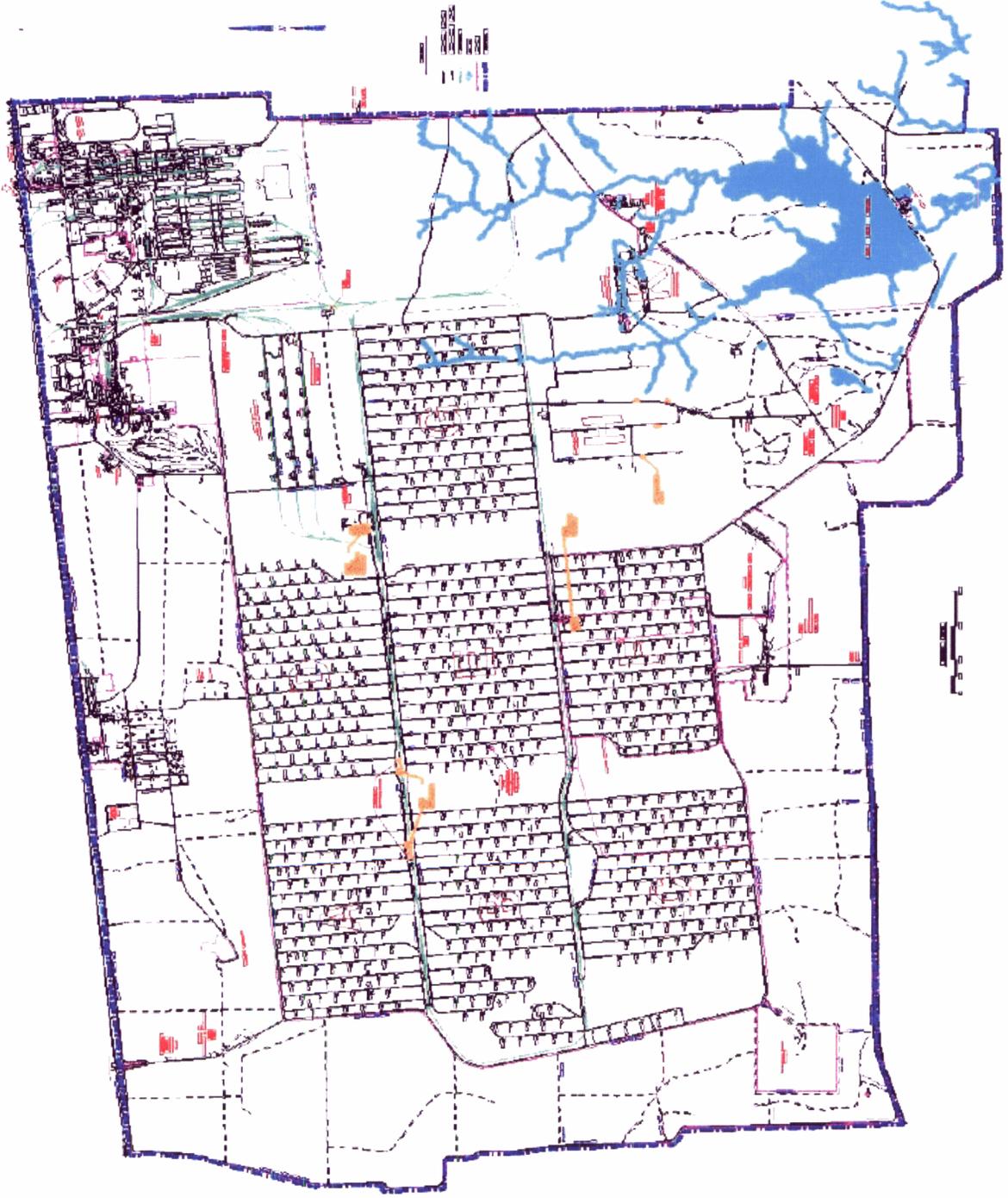
**Safety Emphasized in
SOP and on the Job**

**Safety Included in Weekly
Planning Meeting**

Periodic Site Inspections

Industrial Safety

Red River Munitions Center





Storage Facilities

701 Igloos
(107 Category I Equipped)





Storage Facilities

18 Above Ground Standard Magazines

17 Used for Storage

One Designated as Small Arms Maint Facility



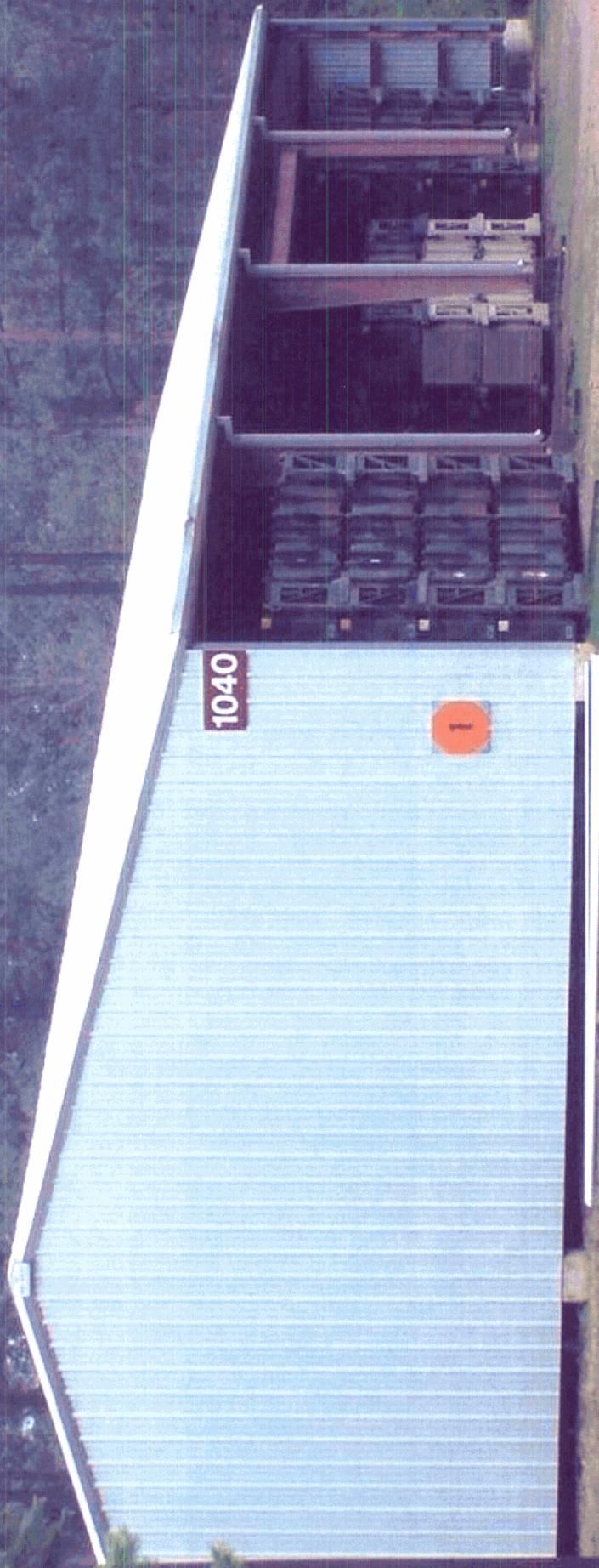


Storage Facilities



Covered Sheds for Inert Storage

Storage Facilities

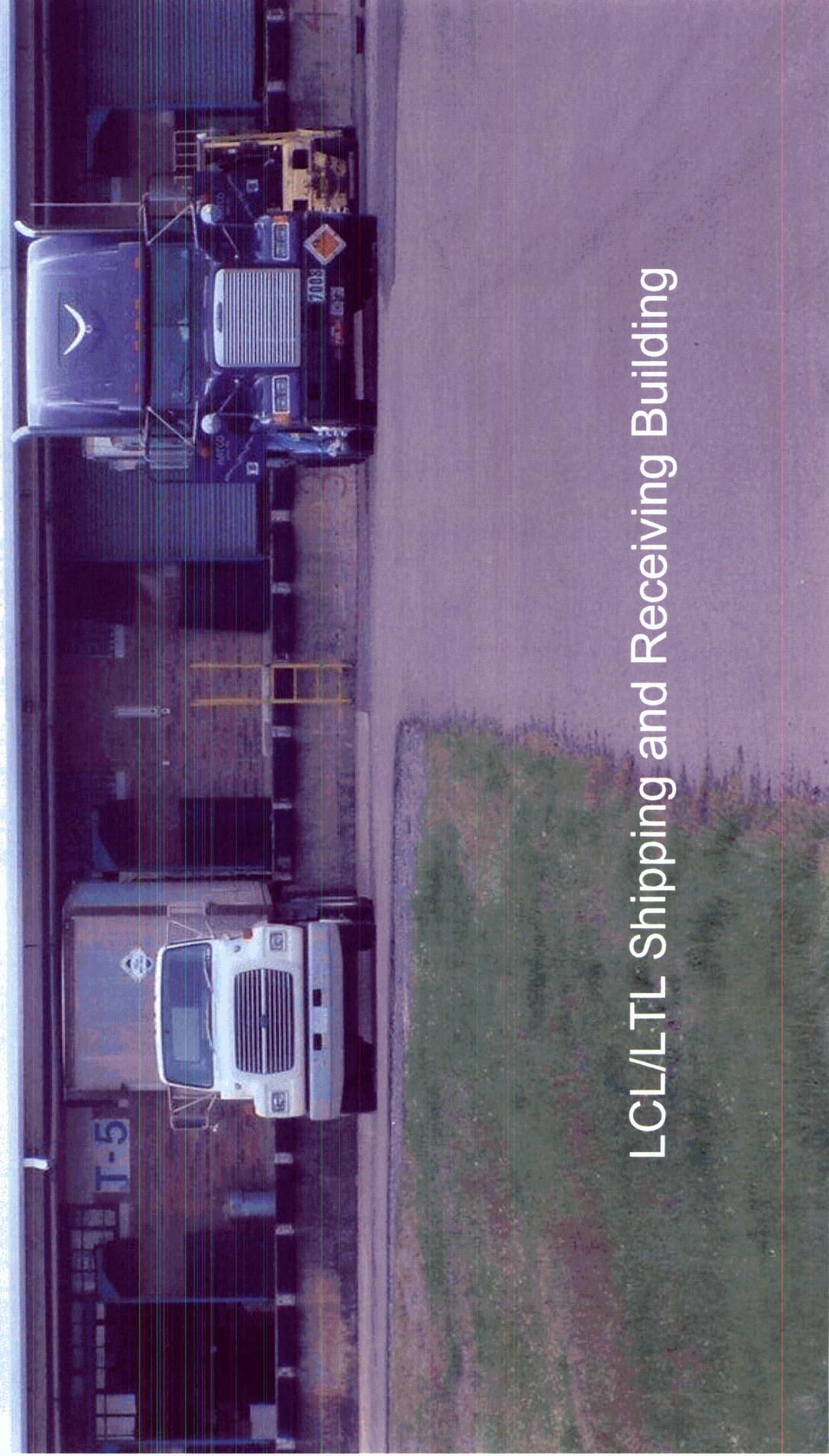


Ten Covered Sheds for Patriot Missile Storage





Storage Facilities



LCL/TL Shipping and Receiving Building



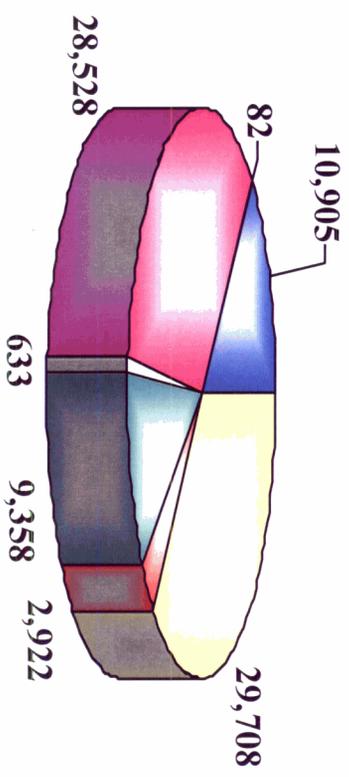
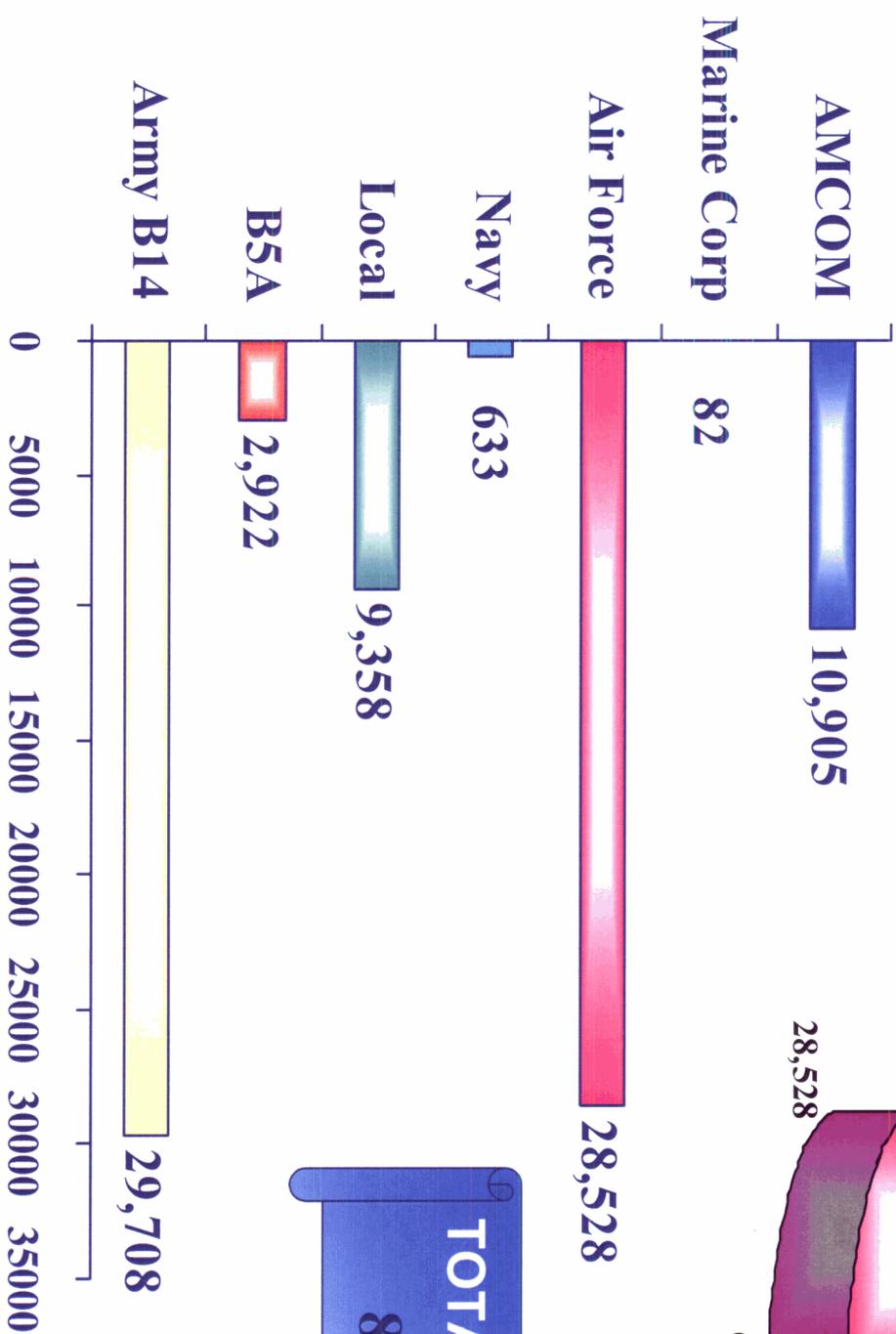
Ammunition Restricted Area



- Size - 8,934 Acres
- Improved Roads - 107 Miles
- Railway - 20 Miles
- Fencing - 19.5 Miles



Inventory by Customer



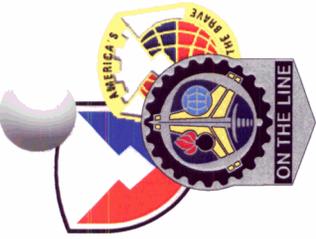
TOTAL TONNAGE
82,136

\$6B
Inventory

FY 05 Workload

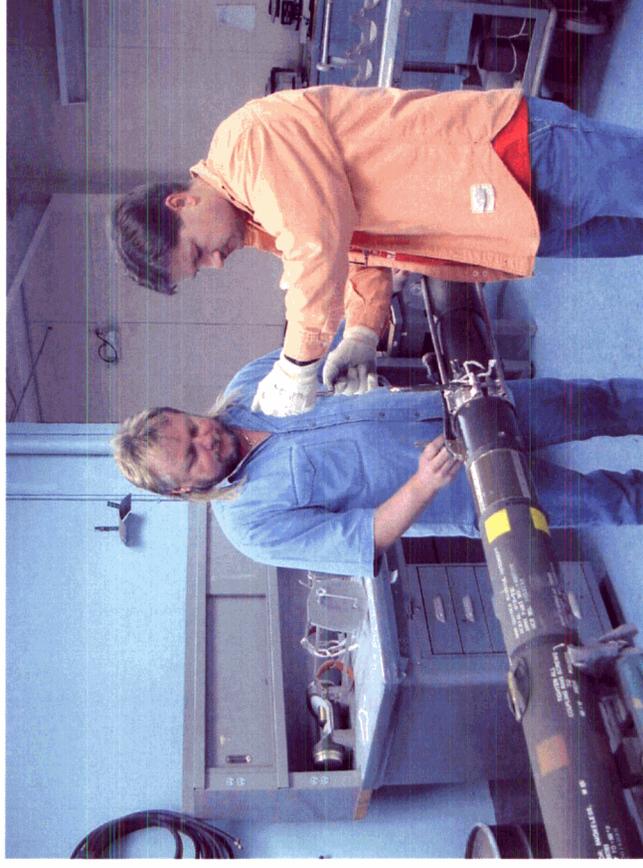
- ✓ Missile
 - Chaparral
 - Patriot
 - Stinger
 - Maverick
 - Hawk
- ✓ Demil
 - Patriot Components
 - Maverick Components
 - Shillelagh Missiles
 - Stinger
 - Hawk Rocket Motor
- ✓ Conventional
 - M67 Grenade Bar Coding Effort
 - X-Ray M213 Fuze
 - 155mm Projectile
- ✓ Shipping and Receiving
 - Storage Operations
 - Reworking
- ✓ Inventory
 - Bar Coding Effort
 - 100% Inventory





Missile Workload

Chaparral
Patriot
Stinger
Maverick
Hawk
Shillelagh
AGM 142/E





Conventional Ammo Workload



Renovate M67 Grenade
Army
Renovate 155MM
X-ray M213 Fuse
2.75 inch rocket

Demil Workload

**Maverick Components - 132 Stons
(OD)**

**Miscellaneous Demil - 260 Stons
(OB/OD)**

**Patriot Components -281 Stons
(OD)**

**Patriot Rocket Motors - 90 Stons
Stinger- 30 Stons**

Rocket HE 66MM - 67 Stons

Hawk Rocket Motors - 42 Stons

Gator Mines - 378 Stons





RRMC Initiatives

Value Engineering

Lean

ISO 9002

R3/R4 Large Rocket Motors



Philosophy of Operations

Sensitive to Customers' Needs



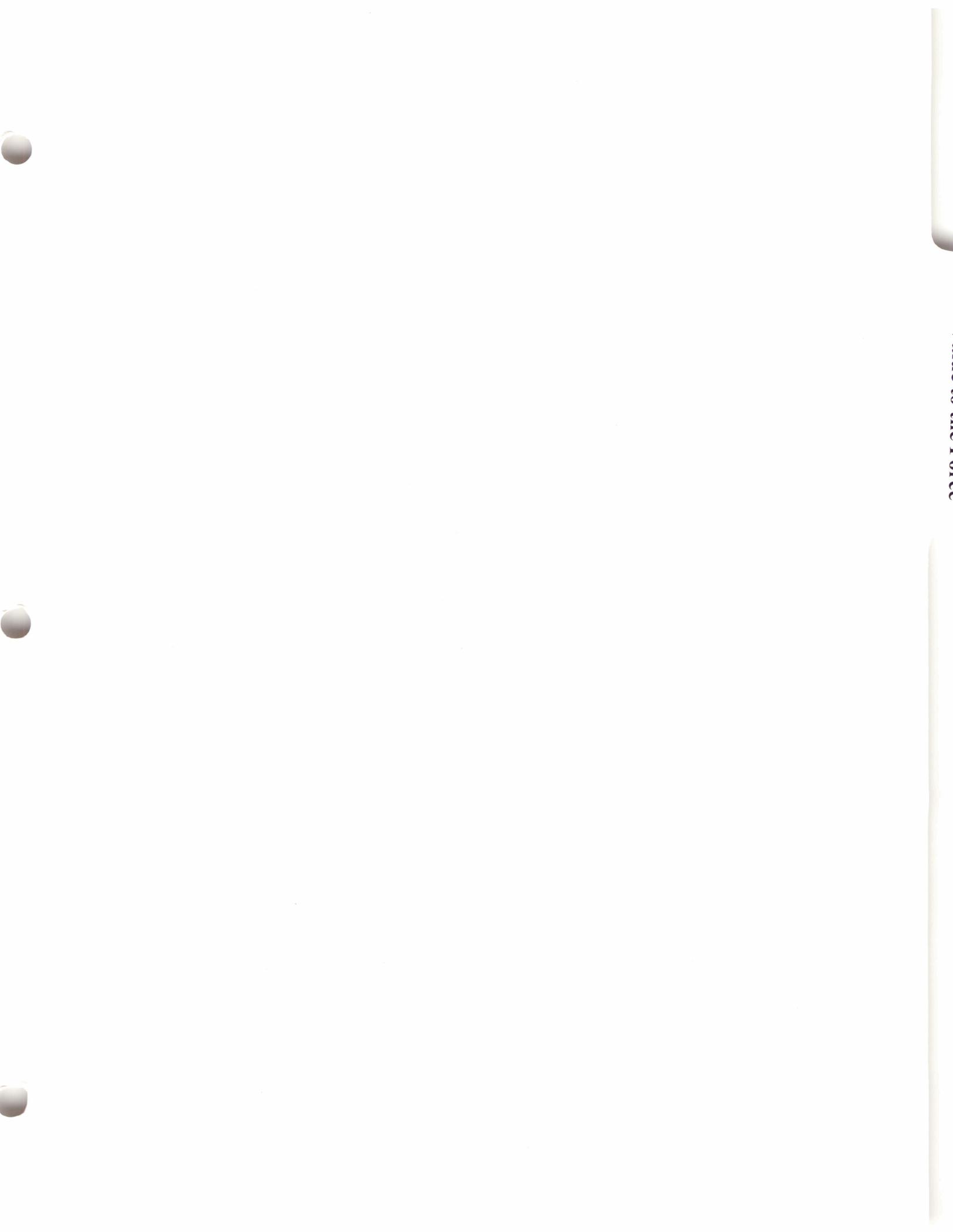
Process Oriented, Continuous Improvement

Highly Skilled, Well-Trained Workforce

Focus on Teamwork

Quality of Life For Members





Red River Munitions Center

Value to the Force

Red River Munitions Center (RRMC) is truly a joint-service provider. We provide storage, shipping, demilitarization, surveillance, and ammunition maintenance support to the Marine Corp, Joint Munitions Command, Army, Aviation Missile Command, Air Force, Navy and our host depot, Red River Army Depot. For many years we have work under the core concept equipping and training our employees with multi-skilled expertise. Because we are able to shift our personnel where we need them, we have been able to maintain a very lean but very ready and skilled workforce that is able to surge to meet the warfighters' needs without additional personnel or lost time.

Direct Support to the Warfighter

RRMC has provided surveillance personnel to work side-by-side with the soldier in Kuwait and in Iraq. With their munitions explosive expertise, our Quality Assurance Specialists (Ammunition Surveillance) have been a valuable asset to the soldier in the field. The Munitions Center has also provided personnel support in other conflicts such as Desert Shield and Desert Storm. We have also provided assistance during natural disasters throughout the nation by sending members to work along side relief workers.

Munitions Storage and Shipping

RRMC has an excellent storage facility. Spanning over 8,934 acres, we have 107 miles of improved roads, twenty miles of railroad, 701 earth covered igloos, 18 above ground standard magazines, 35 improved Y-sites, and ten covered sheds designated for Patriot Storage. One hundred seven of our earth covered igloos are equipped to hold either CAT I or CAT II storage. Currently we have 56 igloos that contain CAT I stock and 34 that contain CAT II stock. CAT I storage requires extra fencing, extra security devices, additional lighting and intrusion detection systems on each igloo. We currently store in excess of five billion dollars worth of ammunition for the various branches that we serve.

Ranked fourth among twenty-three installations in military value for storage, RRMC takes great pride in providing outstanding support to our customers. Our members are dedicated to the cause and are ready to respond to emergency calls for ammunition support to the warfighter. Typically, we can have a crew on site within thirty minutes of the time we receive the call.

The Munitions Center has provided ammunition to the warfighter in all recent conflicts. We shipped in excess of 44,800 short tons during Desert Shield/Desert Storm. We received back and stored in excess of 100,000 short tons when the war was over. We have shipped in excess of 12,000 short tons in support of Operation Iraqi Freedom thus far. We expect that when the war is over, the retrograde will be similar to what it was during Desert Shield/Desert Storm.

Missile Maintenance

Our missile maintenance facility is equipped to test, inspect, and repair a variety of missiles and components. The facility is equipped with a mean-time between failure test chamber that essentially is a unit that bakes, shakes, and freezes components or units to test and verify the life cycle of the unit. This has enabled us to determine that some missiles may be retained and used longer than originally thought. RRMC is eager to work with our partners and customers to provide ammunition to the warfighter on time and in excellent condition. For example, we recently worked with Lockheed Martin to upgrade the software in the PAC 3 Patriot missile.

Chaparral Missile

Red River Munitions Center has the only Chaparral Missile Facility in the United States. Our missile facility has 19,500 SF and is climate controlled with thirteen bays divided by twelve inch reinforced concrete walls. It contains over \$30M worth of test equipment. It contains a 100,000 class laminar flow clean room. Our electronic integrated systems mechanics are well trained in missile maintenance. We are capable of complete overhaul of the Chaparral missile. AMCOM has made a multi-year commitment to FMS customers to provide support and maintenance of the Chaparral missile. We are the only organization with both the facility and expertise to provide this service.

Maverick Missile

RRMC is the only munitions center providing Maverick missile certification. We work closely with Hill AFB and Raytheon to test, modify, minor repair, store and ship the Maverick Missile. We work with Warner Robbins AFB to maintain an accurate database of Maverick missile information. The Maverick missile team was one of the first in the nation to receive the Hammer Award presented by the Vice President of the United States for excellent service in missile maintenance.

Stinger Missile

RRMC stores and performs storage monitoring inspections on the Stinger Missile. We also reconfigure the Stinger and inspect the BCU. There are four different configurations of the Stinger, and our personnel are highly skilled to configure the missile according to the customers needs. We fabricated and fielded the Stinger trainer missile and trainer gripstock. This has saved taxpayer dollars. We also complete modification of the tactical gripstock. Accountability of the Stinger missiles is critically important, and we are meticulous to keep accurate accountability and control.

RRMC is currently working on a plan to partner with Raytheon on the Stinger Missile Enhanced Stock Pile Reliability Program. This program promises to be a long term productive relationship with Raytheon that will benefit our primary customer – the warfighter.

Air Force Peace Sky

One of the newest missions of RRMC is the F-16 Peace Sky Program. RRMC and DDRT-Red River will work jointly to provide this service to the Air Force. The two organizations are responsible for receipt and storage and will be the consolidation shipping point where materiel will be temporarily stored, containerized and readied for shipment when required. DDRT will store the inert parts and RRMC will store the explosive items. The Red River Munitions Depot will also need to oversee and coordinate special shipments coming directly from other Depots, AF locations and or vendors to the port of debarkation.

Conventional Ammunition

RRMC is equipped and trained to x-ray and renovate M67 hand grenades. In support of Operation Enduring Freedom, we surged to increase our renovation of M67 hand grenades by 10,000 rounds per month with no additional personnel in order to meet the requirements of the Army, Navy, and Marines. We also perform 2.75 rocket motor upgrade from Mod 1 to Mod 4 latest configuration. We have developed a procedure to convert Code H (unserviceable) rockets to Code-A rockets that can be used by the soldier in the field. We are also trained and equipped to perform maintenance on the 155, the 105, and various other munitions and small arms.

Demilitarization

The demolition ground at RRMC covers 45 acres. We have a high explosive burning area with large rocket motor static burning silos and three flashing trays. We also have a powder burning field with nine sites that contain eighteen trays. We have an in-ground firing bunker equipped with surveillance cameras that allow us to view all fields from that one site. We also have two service bunkers at the site equipped with IDS.

RRMC is working to gain funds to implement a large rocket motor grind out system for Hawk, Patriot, and MLRS rocket motors. This is an environmentally friendly way to reclaim propellant to be used for commercial market such as mining industry. This will eliminate open burning/static firing of rocket motors.

Support to Theater Readiness Monitoring Directorate

RRMC and RRAD work hand in hand to provide Patriot missiles to the warfighter. RRMC provides storage, cyclic inspections, transportation and shipping of the Patriot missiles. RRMC has also partnered with TRMD traveling overseas to support the Patriot reset program. Plans are being formulated between the two organizations to work together on the Hawk Missile with RRMC provided assembly and disassembly services. Because of the synergy between RRMC and RRAD, we have been able to answer emergency calls for Patriot missiles with a 24-hour turn around time.

Support to Red River Army Depot

RRMC is proud to provide support services to our host depot, Red River Army Depot. In addition to providing support to TRMD, RRMC provides a transportation officer and transportation services for RRAD. Because we are co-located, we can provide transportation services quickly to support the warfighter. We also provide rail support for both RRAD and DDRT-Red River. Additionally, RRMC paints component parts and missile containers for RRAD. In the spirit of cross-functional synergy, the depot also provides us many services to RRMC such as environmental, safety, security, etc.

ISO 9001:2000 Certification

RRMC was the first Munitions Center to achieve ISO 9000 registration. We were registered six years ago to the 1994 standard and re-registered to the 2000 standard three years ago. We have no major findings in our surveillance audits since registration and only two minor findings during the six years we have been registered. We continue to maintain a high standard of quality for the service that we provide our customers. In a recent command assessment, the team said, "RRMC has established an excellent, comprehensive QMS that could be used as an example for other installations in establishing an ISO-certifiable QMS." We were also the first to achieve (CP)² certification – the Army's much stricter equivalent of ISO 9000.

LEAN

RRMC has embraced the LEAN concept and applied those concepts to our processes. In a recent LEAN event, we were able to streamline the administrative portion of the shipping and receiving process. The receiving process was reduced from 21 steps to 10 steps, reducing the flow time by 84%. The receiving process was reduced from 32 steps to 15 steps which reduced the flow time by 76%.

Certificate of Quality System Assessment

American Quality Assessors, AQA, a provider of ISO 9000/Q9000
third party quality system registration and accredited by the
American National Accreditation Program for
Registrars of Quality Systems, ANSI-RAB, attests that:

Red River Munitions Center
100 Main Drive Building 184
Texarkana, TX 75507

with a scope of :

The storage, demilitarization, renovation, modification, maintenance and
shipment of non-nuclear, conventional and guided missile munitions.

The retrofit and rebuilding of assigned missile munitions.

**has established a quality management system that is in compliance
with the International Quality System Standard ISO 9001 and Q9001 - 2000.**

*"Further clarifications regarding the scope of this certificate and the applicability of
ISO 9001:2000 requirements may be obtained by consulting the organization."*

September 27, 2002

Registration Date

September 27, 2005

Registration Period Ending

1636

Certificate No.



Executive Director, AQA



1105 Belleview Ave., Columbia, SC 29201
Phone (800) 281-4384





PAC-3 Product Office Certificate of Appreciation

Presented to

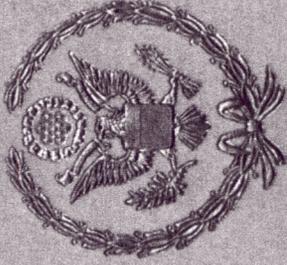
Harrell Hignight

*In recognition of your outstanding support
to the Army's only combat proven,
Hit to Kill, Air and Missile Defense System,
PATRIOT PAC-3*

Date

Troy E. Trulock

**LTC Troy E. Trulock
Product Manager**



DEPARTMENT OF THE ARMY
CERTIFICATE OF APPRECIATION

AWARDED TO
RRMC TEAM

for outstanding results on assessment and follow-up of GAO Report on transportation security of munitions. Red River has an outstanding TO and staff with great attitudes. They were all well organized and understood what needed to be done. They have made great strides since early July to comply with deficiencies found at JMC Installations by GAO. Your professionalism and devotion to duty are commendable and in keeping with the pride in workmanship that is always so evident at the Red River Munitions Center. Your contributions to the success of MCAAP are sincerely appreciated.

1 November 2003

A handwritten signature in cursive script that reads "Donna R. Adam".

Donna R. Adam
Civilian Deputy