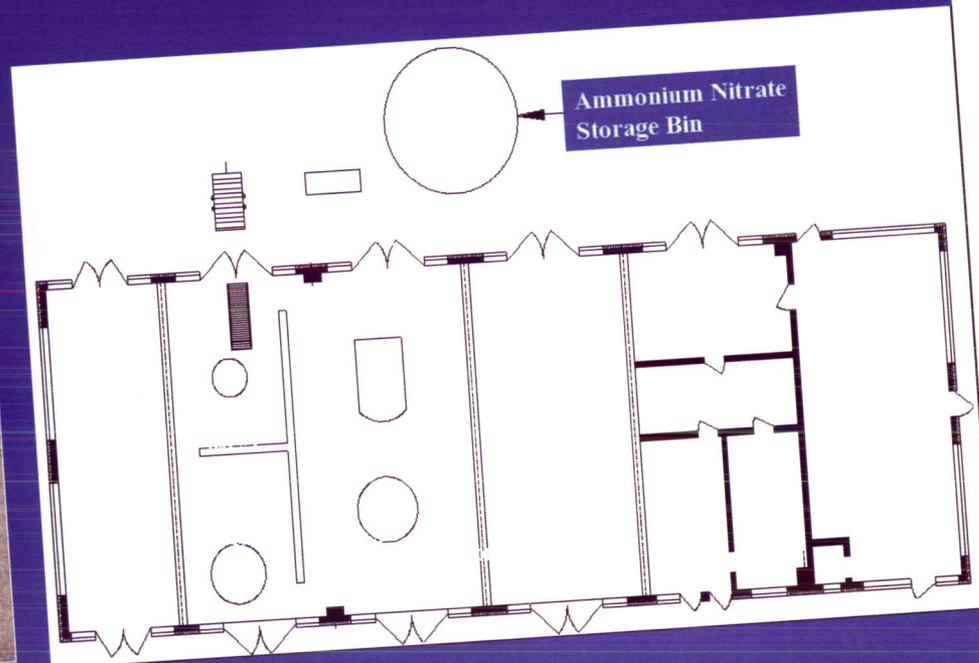


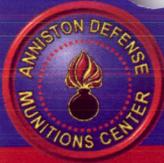
# MRC Slurry Explosive Module



Planned MRC Slurry Explosive Manufacturing Site



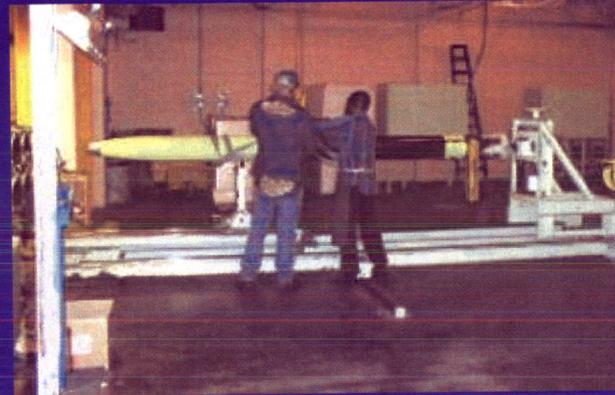
Planned MRC Slurry Explosive Equipment Layout



# MLRS Disassembly



**Remove Igniters from  
MLRS Rocket Motors**



**Removal of MLRS  
Rocket from Pod**



**Separation of Rocket Motor  
from Warhead**

## **ADMC FY 04/05 Activities:**

- **Develop & demonstrate MLRS pod downloading & warhead/motor separation**
- **Improve upon current procedures and equipment**
- **Install re-designed machine hardware for MLRS warhead & rocket motor separation**



# MLRS Disassembly

## New Work Projected for FY05

- Multiple Launch Rocket System
- Low Rate Capability to recycle MLRS by Mar 05





# Future Capability Improvements

## Funded:

- **Igloo Door Upgrades (FY 04): \$1.6M**
  - ✓ Modification of 30 igloos from single 4 foot doors to 8 foot double doors
  - ✓ Near completion
- **Maintenance and Repair Building/Surveillance Workshop Upgrade (FY 04)**
  - ✓ 100% renovation of building 58 for maintenance and repair building/surveillance workshop
  - ✓ Near completion
- **Phase II for Missile Recycling Center (FY 05)**
- **Capital Improvement for Building 670 (FY 05): \$0.29M**
  - ✓ Future MLRS Recycling Center: blast wall, explosive proof lights, heater, circuitry
- **Capital Improvement for Building 54 (FY 05): \$0.179M**
  - ✓ Safety and capability upgrades to LTL building: widen dock, widen doors, new cement interior walls
- **MCA for Storage and Recertification of Terminal High Altitude Air Defense Missile System (THAAD) (FY 07): \$3.15M**
  - ✓ 33 Stradley Igloos: expand igloo apron, roadwork at igloos, dehumidifiers
  - ✓ 1 off-load Dock with ramp
  - ✓ Upgrade building 670 for recertification

} **Complete**

## Programmed:

- **MCA for Explosives Receiving/Service Building (FY 11): \$2.6M**



# Current Maintenance Operations



## Javelin Reset

2,800 Missiles  
\$6,432,839



## TOW Reset

8,973 Missiles  
\$1,791,496



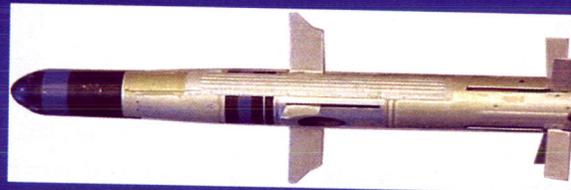
## ANAD Paint Work

Armored HMMWV Parts  
\$1,029,877



## Missile Recycling Center

FY03-05: 30,425 Missiles  
\$7,479,620



## TOW HEAT to Practice

4,000 Missiles  
\$1,286,800



## Open Burn/Detonation

Numerous Projects Ongoing



# Javelin Reset

## Scope of Work

- Part of OIF/OEF reset program
- Electrical test, leak test on missile and container, replace parts as required (harness, shock absorbers 100%), paint, clean up, final electrical test and repack
- 2800 total rounds will be reset

Funding Level: \$6,432,839

## Current Status

- Mar 04 – Jul 05
- 2,280 rounds completed thru 4 Apr 05
- ADMC has returned hundreds of rounds back into the Army inventory
- Estimated completion date – Jul 05





# TOW Reset

## Scope of Work

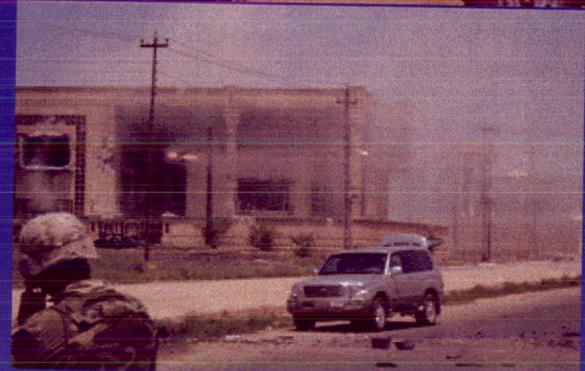
- Part of OIF/OEF reset program
- Transport to building, clean round, electrical test, return to storage
- 8,973 rounds will be reset in three programs

## Funding Level:

- Program 1: \$851,800 (4,259 missiles)
- Program 2: \$13,696 (84 missiles)
- Program 3: \$926,000 (4630 missiles)

## Current Status

- Started work Feb 04
- 4,343 rounds completed through 4 April 05
- ADMC has refurbished/tested hundreds of rounds and returned to serviceable condition
- Third program will begin in September 05
- Estimated completion date – Dec 05





# Missile Recycling Center

## Scope of Work

- Disassemble TOW rounds, remove energetics from components, pack into approved storage containers, prepare resalable items for shipment
- FY 04: 9,640 rounds
- FY 05: 15,700 rounds

## Funding Level:

- FY03: \$1,300,000 (completed 5,085 rounds)
- FY04: \$2,323,700 (completed 9,640 rounds)
- FY 05: \$3,855,920 (to complete 15,700 rounds)

## Current Status

- Oct 03 – Sep 04
- 5,526 rounds completed as of: 4 April 05
- Program has been a successful effort between AMRDEC, AMCOM, DAC, AMTEC Corporation and ADMC. Program has fostered good relations through partnering and has benefited the government through resalable items.
- ADMC was the recipient of the 2003 Alabama Department of Environmental Management (ADEM) Award for pollution prevention due to the initiatives of the MRC.
- Estimated completion date for current program – Dec 05





# TOW Heat to Practice

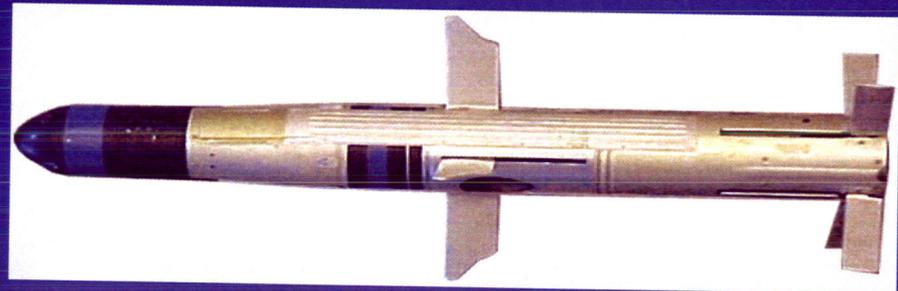
## Scope of Work

- Transport to building, unpack, remove old launch motor, heat warhead and safe and armed device, install MOIC kit, new launch motor, practice warhead and apply sealant. Reinstall missile into case, perform continuity and resistance test, remark/stencil missile case and repack.
- 4,000 rounds will be converted

Funding Level: \$1,286,800

## Current Status

- April - September 2005
- 0 Rounds Complete
- Estimated completion date – September 05





# ANAD Paint Work

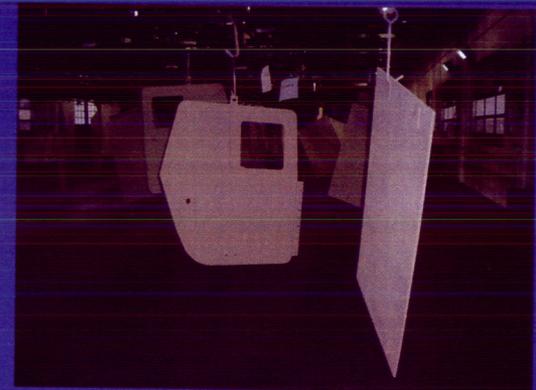
## Scope of Work

- Anniston Defense Munitions Center will provide painting support to Anniston Army Depot and will pick up components from ANAD and deliver them to ANAD after work is complete

Funding Level: \$1,029,877

## Current Status

- Started work 31 January
- Initial work includes painting tank parts and armored HMMWV parts





# Receiving History



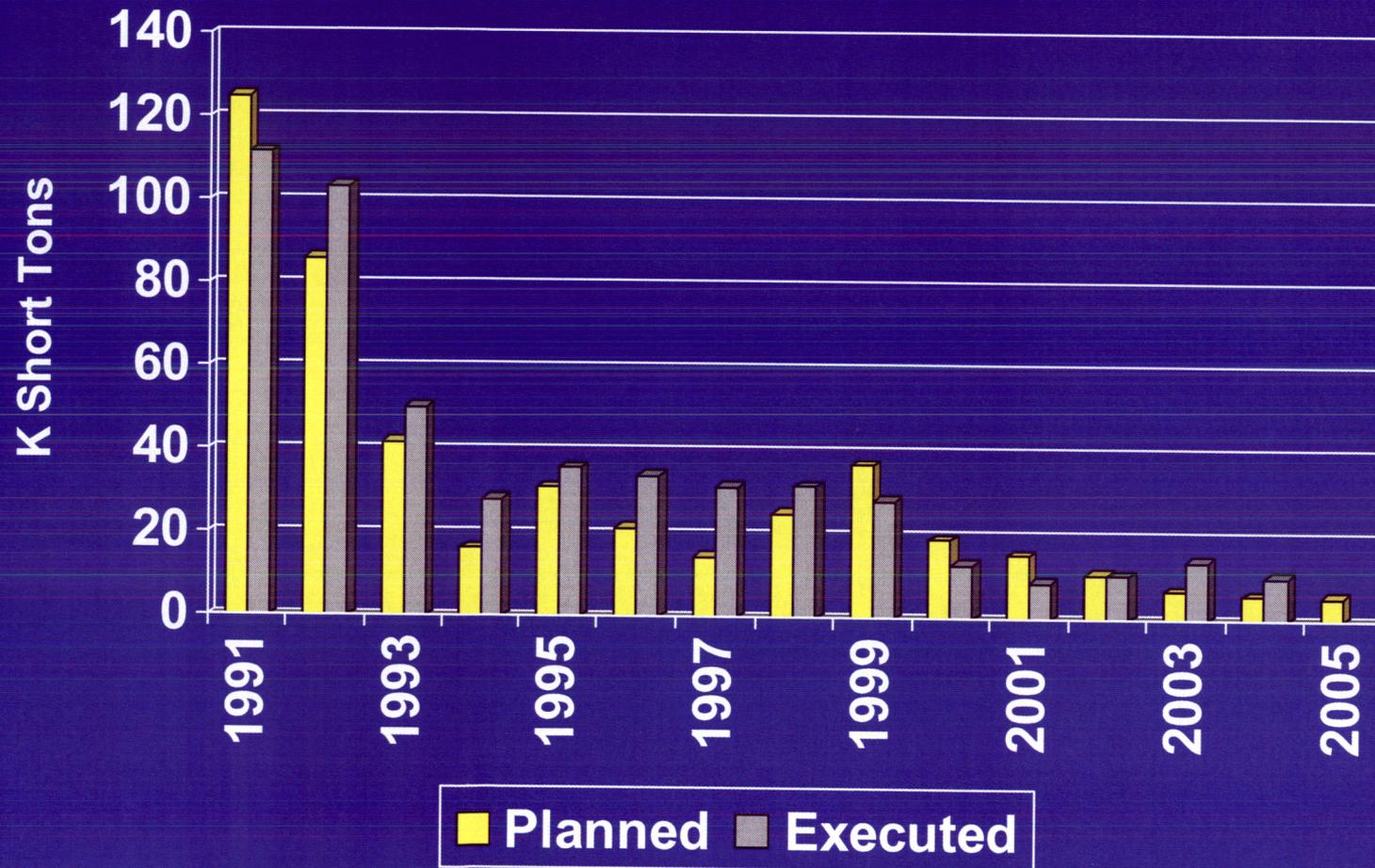


# Shipping History





# Shipping and Receiving History





# Conclusion

**Total Munitions Support to the War Fight**

## Shipping

**365 Day Capability**

- Mob Requirement: 160 Containers/Day
- Day 1 Requirements for Missiles

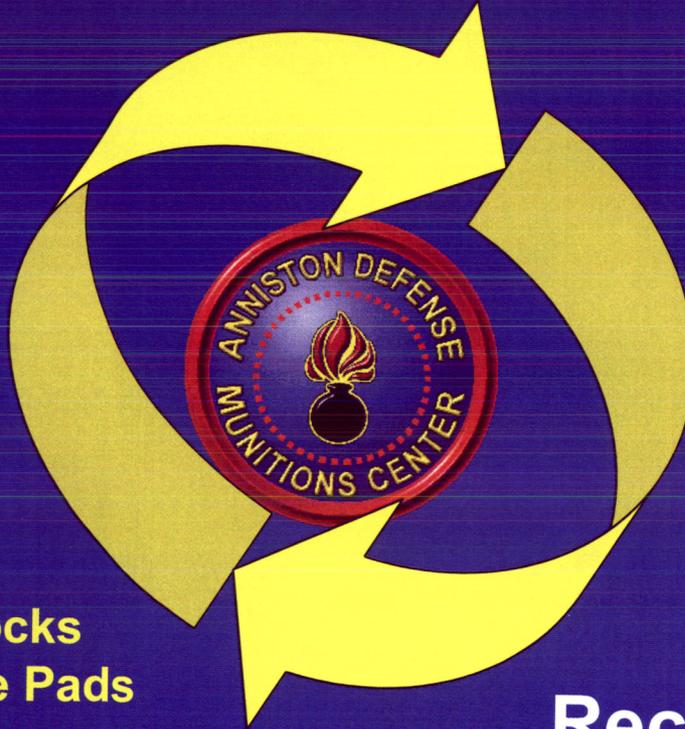
## Storage

**1279 Igloos**

## Receiving

- 11 Loading Docks
- 3 Ship/Receive Pads

**Efficient Location**



## Maintenance

- Missile
- Conventional Munitions

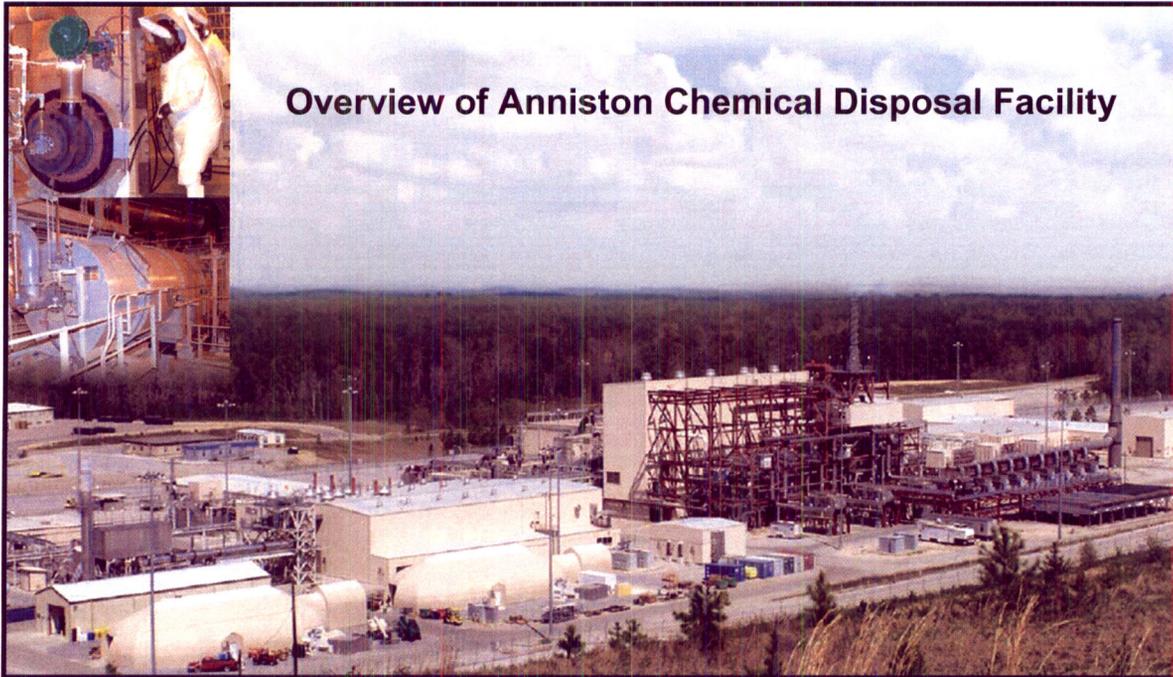
## Demilitarization

- Open Burn: 13 Pans
- Open Detonation: 9 Pits
- Line Demilitarization

## Recycling

**Missile Recycling Center**

**Relationship with AMCOM**



The ANCDF site is located on the northern boundary of the Anniston Army depot (ANAD). An expansion of existing Chemical Limited Area created the approximate 90-acre site. The primary facility is the Munitions Demilitarization Building (MDB) that houses the solid and liquid incinerators. Supporting facilities include a Container Handling Building (CHB), a Pollution Abatement System (PAS), a Personnel Maintenance Building (PMB), a Laboratory (LAB), a Process Utility Building (PUB), warehouses, Waste Transfer Facility (WTF), Process and an Entry Control Facility (ECF). Supporting facilities exterior to the CLA, but, still in the Ammunition Limited Area (ALA) are three (3) Personnel Support Buildings (PSB) and one (1) warehouse.

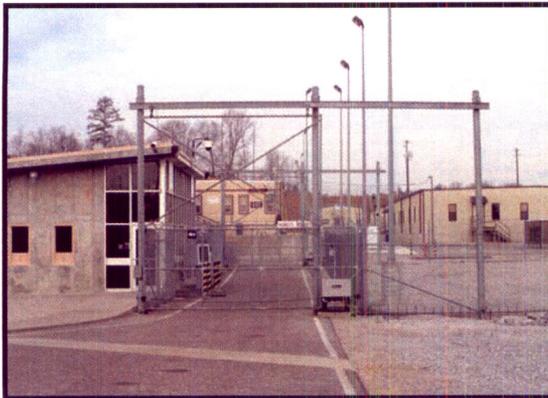
### **Badge Exchange Program**

Access to the site is accomplished via a three-layered system. The first gate at the Northwest corner of the ANAD property requires an ANAD issued badge and vehicle registration. A badge marked with ALA (Ammunition Limited Area) is required to enter the first gate. Visitors not in possession of an ALA marked badge will be issued a ALA Escort Required badge and require an escort. If the visitor has a requirement to enter the ANCDF he or she must exchange the ALA Escort Required badge for a CLA Escort Required badge. ANCDF employees with approved access to the CLA are issued proximity badges and badge exchanges are not required. All ANCDF visitors must view a safety briefing and carry a M40A1 protective mask or an Emergency Escape Device (EED) while onsite, but outside the CLA. The EED is a mask and cylinder system that provides 10 minutes of fresh air to provide sufficient time for the visitor to travel to the onsite collective protection facility in the event of a chemical release. Visitors entering the CLA must be equipped with an M40A1 protective mask. In both cases, an on site medical evaluation is required prior to issuing the appropriate device.

## Security/Intrusion Detection System (IDS)

A double security fence surrounds the ANCDF on the North while the existing double security fence surrounding the CLA remains to the south. The fences are constructed of seven-foot chain link with double outriggers on top with 3 strands of barbed wire each. A 30-foot clear zone exists between the fences. Exterior lighting is via clusters of 6 to 8 high-pressure sodium lamps mounted on 80-foot masts.

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A hardened ECF (2000 SF) serves as the Entry Control Point (ECP) for the site. The ECF features poured concrete walls, bullet resistant glazing, and strategically placed firing points. The ECF houses the on-site security work force, communications, and auxiliary power. Vehicular passage is accomplished via a sally port consisting of two motorized gates. A large beam vehicle barrier is located outside the outer vehicle gate. "Deadly Force Authorized" signs are erected outside the outer fence IAW AR 190-59.



Exterior IDS consists of a combination of fence disturbance sensors, proximity sensors, Passive Infrared (PIR) sensors, Ported Cable Coaxial Sensors (PCCS), and exterior perimeter assessments via Closed Circuit Television (CCTV). Fence disturbance sensors consist of a strain sensitive cable attached to the inner and outer perimeter fence. A PCCS sensor is a buried cable that monitors disturbance to the Resonant Frequency (RF) field by an intruder. The CCTV cameras have fixed-focus, auto-iris lenses and are used to visually confirm alarms.

Interior IDS systems are provided for the MDB and CHM IAW AR 190-59. The CHB and MDB have process control CCTV that augments the IDS. IDS for the MDB and CHB buildings are accomplished through door monitoring utilizing a balanced magnetic switch (BMS) system.

### **Munitions Demilitarization Building (MDB)**

**(82,466 SF)**



The MDB houses the basic process equipment and control systems to disassemble, punch, and drain munitions and bulk items; to incinerate agent and other liquid and solid wastes; and to decontaminate munitions bodies and other metal items. The MDB is a two-story concrete and composite panel building with a concrete roof structure. A significant feature of the MDB is a blast-proof area associated with the Deactivation Furnace System (2,500 SF). The surrounding walls of this area are 20-

inch thick reinforced concrete walls. The walls associated with the Explosive Containment Rooms are 25-inch thick reinforced steel (1800SF). This building has 2000 SF of administrative space.

Heating, Ventilation, and Air Conditioning (HVAC) for the MDB is designed to provide a constant negative air pressure to prevent escape of vapors. Exhaust from the MDB is filtered through a multi-layered charcoal filter system prior to release.

## Container Handling Building (CHB)

(39,082 SF)

The CHB houses the basic process equipment and controls systems required to receive store and deliver munitions from the storage igloos to the MDB receiving area. The building is used to provide temporary storage for Chemical Surety Material (CSM) prior to unpacking in the MDB. The CHB is a prefabricated steel structure with composite panels. Key features include warehouse type storage space, bridge cranes, a battery charging area and loading/unloading docks.

This building has no administrative space.



## Laboratory (LAB)

(9,500 SF)

The LAB performs analytical testing for treaty compliance, instrument/monitor support, explosives, agent standards, air emissions, and brine. The LAB is a single story prefabricated steel structure with composite wall and roof panels. Included in this building is 3400 SF of administrative space.



## Personnel and Maintenance Building

(20,500 SF)



The PMB contains the maintenance functions, men and women's showers, locker rooms, occupational health, health care administrative services, and a lunch room/classroom. The structure is primarily modular with wood stud/ gypsum board interior and metal siding and roof. This building contains 3600 SF of administrative space and 3700 SF of medical treatment space.

## Pollution Abatement System (PAS)

(13,200 SF)

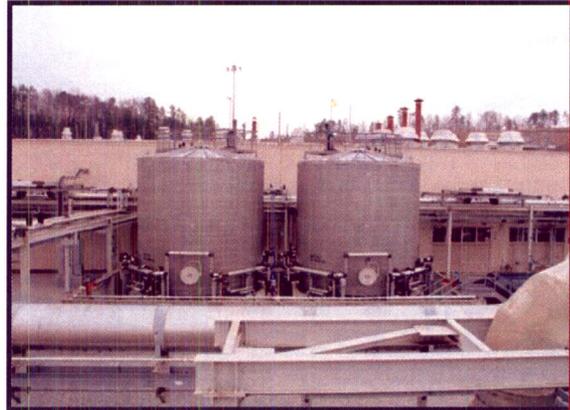


The PAS is a 175' long by 113' wide by 95' high multi-floor structure that houses the equipment required to meet the pollution abatement requirements of the ANCDF operating permit. The structure is steel with metal siding. The building has minimal administrative space.

### **Process and Utility Building (PUB)**

**(20,100 SF)**

The PUB houses the brine reduction area and bulk chemical storage. The PUB also houses two hot water boilers with a capacity of 14.7MBTU's each and two Steam boilers with a capacity of 20.9 MBTU's each. The structure is steel with metal siding and is 36' high to the roof ridge. This building has no administrative space.



### **Process Support Buildings (PSB)**

**(36,050 SF)**



There are three PSB's situated outside the CLA. They are 12400 SF, 12900 SF, and 10750 SF for a total of 36050 SF. The buildings house the government and contractor staff that provides oversight and support of the ANCDF. The buildings are of modular construction with wood stud walls and metal siding and roof. Included are approximately 450 privately owned vehicle (POV) parking spaces.

**Warehouse (WHS) Existing****(34,800 SF)**

The warehouse houses equipment, spare parts, and supplies to support ANCDF operations. It is a 120' X 240'(28,800 S.F.) slab on grade, pre-engineered metal building. 50' X 60' (6,000 S.F.) of the structure is humidity controlled. The building has forklift access, covered with loading dock, and roll up door access. The walls are R-14 insulated. Wall louvers are installed and rated for 50% free area. The offices and restroom area have 10' walls with 8' ceilings. The roof has powered roof exhaust fans. The controlled environment portion of the warehouse has a gas-fired air-conditioning and heating unit mounted on grade. Gas infrared heated is provided in the general warehouse to provide freeze protection. The building has an addressable fire detection and alarm system.

**New Warehouse (under construction)****(14,000 SF)**

The warehouse will house equipment, spare parts, and supplies to support ANCDF operations. It is a 14000 S.F. slab on grade, pre-engineered metal building. 4000 S.F. of the building is humidity controlled. The building will have wall louvers rated for 50% free area. The roof will have powered roof exhaust fans. The controlled environment portion of the warehouse will have a gas-fired air-conditioning and heating unit. Gas infrared heated will be provided for freeze protection. The building will have an addressable fire detection and alarm system. The warehouse will have a receiving office, break and locker area, and restrooms and a property office.

**Waste Transfer Facility (WTS)****(12,600 SF)**

This facility is for storage of hazardous waste and meets the regulatory requirements for storing hazardous waste. It is a 94' X 134'(12,600 S.F.), pre-engineered metal building, and slab on grade with curbs installed for hazardous waste containment. The building has depressed ramps with 12' wide rollup doors on each end.

**Sprung Structure Maintenance Facility (SMF)****(5,000 SF)**

This is a facility that supports maintenance activities. It is a slab on grade, 50' X 100' (5000 S.F.) Sprung Structure consisting of an engineered stress membrane structure. It has an acrylic coated architectural membrane with Sprung's rustproof extruded aluminum substructure. The facility contains several offices and one restroom. The building has a HVAC system for controlled environment. The specialized architectural membrane is certified flame retardant.

## **PMOC**

The facilities at the Gate 5A PMOC area consist of 4 sets of office buildings. These offices are made up of several manufactured buildings attached together. The Training Facility consists of 6,747 S.F. The HR, Contracts, Administration & Public Affairs Bldg. consist of 9,800 S.F. The Business Operations Annex consists of 1,440 S.F. The Business Operations Bldg. consists of 4,135 S.F.

## **Reconfiguration Facility, Building 695**

**(18,800 SF)**

The Reconfiguration Facility is located within the old CLA. This facility is used to reconfigure CSM into storage containers to facilitate the automated process of the CHB and MDB. CSM removed from the storage igloos that are designated for disposal in the MDB are first processed at the Reconfiguration Facility before being delivered to the CHB. This facility has minimal administrative space.

## **Decommissioning**

The operating permit requires a closure plan be submitted prior to completion of the project. This plan should include decontamination of equipment IAW AR 385-61 and DA PAM 385-61 (Section 7, ref 107 and 108). Certain portions of the MDB may require selective demolition, but the overall structure should remain intact. The processing equipment will be dismantled, decontaminated, and removed.

## **Potential Future Reuse**

This site has several potential reuse options. The site could be used as an alternate controlled access point for the ALA. The direct access to Calhoun County Highway 109 (Bynum-Leatherwood Road) would eliminate the need to transport ammunition through the Main Depot Gate off highway 202. Safety benefits are obvious. The hardened MDB structure could be utilized for missile repair or any other ammunition repair that requires a blast proof enclosure. The CHB could be used to temporary store and process ammunition for repair or storage. The administrative facilities could be used for a multitude of functions. It should be noted that modular buildings have a limited useful life. Renovation can extend this useful life, although not indefinitely. Any reuse of modular buildings should include an exit strategy (i.e., MCA) to build or acquire permit facilities at some point in the out years.