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THE METAL BOOK

Headquarters, U.S. Army Materiel Command
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Introduction

The U.S. Army Materiel Command (AMC) is the Army's premier provider of materiel readiness – technology, acquisition support, materiel development, logistics power projection, and sustainment – to the total force, across the spectrum of joint military operations. If a Soldier shoots it, drives it, flies it, wears it, or eats it, AMC provides it.

The command's complex missions range from development of sophisticated weapon systems and cutting-edge research, to maintenance and distribution of spare parts.

To develop, buy and maintain materiel for the Army, AMC works closely with Program Executive Officers, the Army Acquisition Executive, industry and academia, other military services and government agencies.

The command's main effort is to achieve the development, support, and sustainment of the future force in this decade. At the same time, AMC is key to supporting and sustaining the interim force and to sustaining and recapitalizing the current force. Its maintenance depots restore weapon systems needed as the Army makes its way to full transformation. The command's overhaul and modernization efforts are enhancing and upgrading major weapon systems – not just making them like new, but inserting technology to make them better and more reliable.

AMC is headquartered in Fort Belvoir, Va., and is located in 149 locations worldwide, including 45 states and 38 countries. Manning these organizations is a work force of 50,000 dedicated military and civilian employees, many with highly developed specialties in weapons development and logistics.

Purpose

This book was designed to educate individual organizations, commanders, and program managers about the organic capabilities that reside within AMC. Each depot, arsenal and ammunition plant is highlighted, providing the reader a snapshot of AMC's industrial base to include the facilities' mission, capabilities, partnerships with industry, and contact information.

Facilities with an asterisk located next to their name were affected by the 2005 BRAC decision-- the site will either close or the capabilities will be impacted. Refer to the history section of each site for more information.

AMC facilities may partner with the private sector and other parts of the public sector under multiple legal authorities. Partnerships range from direct sales, to public-private teaming and work share arrangements, to leases of facilities or equipment. For additional information on Public-Private Partnerships, please contact us at Partnerships@hqamc.army.mil.

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The Industrial Base

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Anniston Army Depot *
Anniston, Alabama

Mission
Provide industrial and technical support to joint services for repair and overhaul of combat vehicles, artillery systems, bridge systems, small arms, and secondary components. Anniston Army Depot (ANAD) is the premier DoD Center for Industrial and Technical Excellence and is capable of overhaul and refurbishment of all the aformentioned systems. Major tenants of the installation include Anniston Defense Munitions Center, Anniston Chemical Activity and Defense Distribution Depot Anniston.

History
Anniston Ordnance Depot (AOD) was constructed in 1941 with storage igloos, ammunition magazines, warehouses and several administrative buildings. Nearly a decade later, AOD began an assignment to overhaul and repair combat vehicles. The maintenance and storage missions began in 1963 under the name Anniston Army Depot. ANAD began repair and overhaul of the M1 Abrams Main Battle Tank in the mid 1980s and was the recipient of towed and self-propelled artillery and light combat vehicle missions as a result of BRAC 1995. Production of Stryker vehicles began in 2001 with commercial partner General Dynamics. ANAD is transforming with the Army and utilizing innovative initiatives including but not limited to workforce revitalization, Lean/Six Sigma, and partnering with industry.

* *The capabilities of this installation will be impacted in accordance with BRAC 2005.*

Installation Overview
ANAD is located on 15,279 acres in Calhoun County. ANAD has 8,971,016 square feet of buildings and plant replacement value of approximately $1.6 billion. To the north, the installation is bordered by Pelham Range which is a 20,000-acre training range operated by the Alabama Army National Guard. There are no encroachment issues for the installation. With a $1.1 billion economic impact, ANAD is a major economic engine for the region.

Contact Information
Anniston Army Depot
ATTN: AMSTA-AN-CO
7 Frankford Avenue
Anniston, AL 36201-4199
256-235-7501 (COM), 571-7501 (DSN)
http://www.anad.army.mil (Web site)

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Capabilities

The most valuable resource existing at ANAD is the multi-skilled workforce that would take decades to replace. The infrastructure is capable of repeated 70-ton combat vehicle traffic and has heavy lift capability within key facilities. ANAD has a live firing range capable of firing weapons up to 155mm.

Capabilities at a Glance

Combat vehicles (Except Bradley and Multiple Launch Rocket System)
Overhaul/repair
Artillery overhaul/repair
Small Arms overhaul/repair
Bridging systems overhaul/repair
Worldwide support

Partnerships

General Dynamics Land Systems- Stryker Brigade Combat Team, FOX, M1A1, M1A2
Honeywell- M1A1
BAE Systems- M1A1, M113 Family of Vehicles
BAE (formerly United Defense Limited Partnership)- M113 Family of Vehicles, Opposing Forces Surrogate Vehicle, Israeli Mortar Carrier
Seiler Instrument- M2A2 Aiming Circle

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Blue Grass Army Depot *
Richmond, Kentucky

Mission
Provide munitions, missiles and chemical defense equipment logistical support to the joint warfighter. Supplier for non-standard ammunition. Blue Grass Army Depot (BGAD) is a critical outloading facility as part of the DoD's Power Projection Mission.

History
BGAD was established in 1941 and began operation in 1942 as an ammunition and general supply storage depot. In 1964, Blue Grass merged with the Lexington Signal Depot and became Lexington Blue Grass Army Depot. The Lexington Facility was selected for closure under BRAC. In September 1999, the Richmond facility was renamed BGAD.

** This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

Installation Overview
The depot sits on approximately 14,500 acres of land. The facility has more than 1,100 structures including: igloos, supply warehouses, maintenance buildings, munitions sheds, and X sites. In 1999, BGAD assumed operational control and command of Anniston Munitions Center. The depot is also home of L3 Communications, a contractor providing repair and modification to Special Operations aircraft.

Contact Information
Blue Grass Army Depot
ATTN: SJMBG-CO
2091 Kingston Highway
Richmond, KY 40475-5001
859-779-6246 (COM), 745-6246 (DSN)
sjmbgco@bluegrass.army.mil (Email)

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Capabilities

BGAD is a Strategic Mobility Platform providing munitions, chemical defense equipment, and military operations support. The depot is DoD's primary center for surveillance, receipt, storage, issue, testing and minor repair for the Chemical Defense Equipment Program (CDE). BGAD maintains and supports CDE stocks for deploying units and home defense forces and is a training site for Reserve units. Major capabilities also include demilitarization research and development, resource recovery and reutilization, Ammunition Information Technology Beta test site, Munitions Terminal Operations test site, precision smart bomb renovation, shipping container repair, and renovation of conventional munitions.

Capabilities at a Glance

Chemical Defense Equipment, Chemical Material Surveillance Program
Machining, fabrication and assembly
Ammunition renovation
Explosive demilitarization/disposal
Quality assurance services
Ship/Receive/Outload

Partnerships

Lockheed Martin- CBU-103B/B

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Corpus Christi Army Depot *
Corpus Christi, Texas

Mission
Overhaul, repair, modify, retrofit, test and modernize helicopters, helicopter engines and components for all services and foreign military sales. The depot serves as a training base for active duty Army, National Guard, Reserve and foreign military personnel. In addition, Corpus Christi Army Depot (CCAD) provides worldwide on-site maintenance service, aircraft crash analysis, lubricating oil analysis, and chemical, metallurgical and training support.

History
The Army Aeronautical Depot Maintenance Center began operations in 1961. The center was tasked with helicopter repair and maintenance for three different engines and four airframes. The first Huey UH-1 helicopter was overhauled in 1962, and by 1968 the facility was in full operation. In 1974, the name was changed to Corpus Christi Army Depot, employing more that 4,500 civilian employees and serving the growing Army inventory of helicopters. In August 2001, CCAD was designated a DoD Center of Industrial and Technical Excellence for Rotary Wing Aircraft (less avionics).

* *The capabilities of this installation will be impacted in accordance with BRAC 2005.*

Installation Overview
CCAD is a tenant of Naval Air Station-Corpus Christi, and is situated on 158 acres of the 4,800 acre complex. CCAD operates a $600 million, 2.2 million square-foot depot complex that includes extensive test, maintenance and hanger facilities. The vast installation includes a wide range of test cells, two blade whirl towers, autoclaves, and is the DoD's only facility with the ability to refurbish multi-service, multi-function component bearings.

Contact Information
Corpus Christi Army Depot
308 Crecy Street
Corpus Christi, TX 78419-5260
361-961-6643 (COM)

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Capabilities

CCAD is a large helicopter overhaul and repair facility. In addition to Army aircraft, the depot overhauls and repairs helicopters and components for the Air Force, Navy and Marines. As the "Cornerstone for Rotary Wing Aviation," the depot's multi-skilled and dedicated workforce of 3,470, backed by state-of-the-art facilities and equipment, support a wide range of weapon and component systems. CCAD's capabilities have been greatly enhanced through partnership contracts with Original Equipment Manufactures including General Electric, Sikorsky, Boeing and Honeywell.

Capabilities at a Glance

Fabrication/Repair
Precision rotor balancing
Water jet stripping
Autoclave capabilities
Composites: Cat III, Rotor blade repair
Bearing gauging, reballing, honing
Certified soldering
Computer Aided Manufacturing: Computer Numerically Controlled programming
Metal spray
Class 100 clean room
ION vapor deposition
Machining and sheet metal forming
Tool and die manufacturing
Cables, forming/machining/milling
Heat treating
Sheet metal
Tube and hose manufacturing
Foundry (non-ferrous)
Metal finishing, metal spray
Painting (airless, air-assisted)

Partnerships

Boeing- CH-47, AH-64
Honeywell- T55 Engine (CH-47)
Sikorsky- H-60
General Electric- T700 Engine (AH-64, H-60)
Fabritech Inc.- AH-64

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Hawthorne Army Depot
Hawthorne, Nevada

Mission
Hawthorne Army Depot (HWAD) provides munitions and unit training support for the joint warfighter. Provides conventional ammunition maintenance and demilitarization focused on resource recycling and recovery of materials and components. Provides High Desert training facilities for Special Operations Forces and Conventional Forces. Designated site for long-term storage of reused Industrial Plant Equipment.

History
Hawthorne Army Depot was established Sept. 15, 1930. Naval Ammunition Depot Hawthorne was redesignated Hawthorne Army Ammunition Plant on Oct. 1, 1977, and subsequently, HWAAP was converted to a government-owned, contractor-operated installation on Dec. 1, 1980. On Oct. 1, 1994, with the loss of its production mission, HWAAP was redesignated as Hawthorne Army Depot (HWAD).

Installation Overview
The depot occupies 147,236 acres. The facility has more than 2,915 structures including: igloos, supply warehouses, maintenance buildings, munitions sheds, and office buildings. HWAD has 7,685,000 square feet of storage and is the nation's premier demilitarization facility for conventional ammunition. The high desert, isolated location provides ideal training facilities for joint Special Operations forces preparing for deployments to Southwest Asia.

Contact Information
Hawthorne Army Depot
ATTN: SJMHW-CO
1 South Maine Ave., Bldg 1
Hawthorne, NV 89415
775-945-7001 (COM), 830-7001 (DSN)
lucy.engebretsen@us.army.mil (Email)

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Capabilities

HWAD is a large ammunition depot. The depot has immense storage and outload capabilities for both rail and truck. The Western Area Demilitarization Facility at Hawthorne is the nation's premier conventional ammunition demilitarization facility. HWAD is a provider for High Desert military training facilities. Selected by the Defense Logistics Agency for the storage of the nation's stockpile of elemental mercury.

Capabilities at a Glance

Demilitarization
Plasma Ordnance Destruction System
Rotary furnace
Hot gas
Melt-out
Steam-out
Press-out
Open detonate and burn
Flashing furnace

Training Capabilities
Convoy live fire
Live fire ranges
Mountain driving
Rock climbing/cliff rappelling
High angle sniper range
Airborne operations
Demolition areas

Ammunition renovation
Quality assurance activities
ISO container maintenance/repair facility
Range scrap processing
7,685,000 square feet of covered ammunition storage

Letterkenny Army Depot *
Chambersburg, Pennsylvania

Mission
Provide worldwide, reliable, responsive and cost-effective systems overhaul. Rebuild, upgrade, repair, and manufacture depot level maintenance, technical field support, systems integration and product support. Integration for weapon systems, end items, assemblies, sub-assemblies, components and ancillary equipment to ensure the readiness, sustainability and safety of the forces during the full spectrum of operational environments.

History
Letterkenny Army Depot (LEAD) was established in 1941. Letterkenny's mission was to reduce the surplus of forthcoming war materiel and store and ship ammunition, trucks, parts and other supplies. In the 1980s and early 1990s, Letterkenny's mission became three fold: supply, maintenance and ammunition. Letterkenny's future was reshaped in the 1990s by the tactical missile consolidation and DoD's downsizing, reorganization and realignments. In 2005, the depot was awarded the Shingo Prize for demonstrated achievement in implementing Lean systems in support of the maintenance, repair and overhaul of the Patriot Missile Air Defense System.

* *This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

Installation Overview
Comprising over 17,500 acres, a large land portion of the depot is used to conduct maintenance, modification, storage and demilitarization operations on tactical missiles and ammunition. LEAD is the top employer in Franklin County fueling an economic engine that propels over $250 million annually into the region through payroll, contracts and retiree annuities.

Contact Information
Letterkenny Army Depot
ATTN: AMSAM-LE-CO-TO
1 Overcash Avenue, Bldg 10
Chambersburg, PA 17201-4150
717-267-8404 (COM), 570-8404 (DSN)
angela.coons@us.army.mil (Email)

Capabilities
Watervliet Arsenal is part of the Joint Manufacturing & Technology Center at Watervliet, a juxtaposition of manufacturing and research and development through Benét Laboratories that makes the arsenal a truly unique asset. Watervliet Arsenal is equipped with a variety of modern machining centers, mills, profilers, and lathes, providing the versatility to machine most any part configuration. More than 200 machines are computer-controlled, which enhances versatility. The arsenal's specialty is large cylindrical, shaft designs. Several colonies of long-bed computer controlled lathes are capable of virtually any type of turning, boring, precision single-point threading and contouring.

Capabilities at a Glance
Metallurgy
Rotary forging
Heat treating
Production and tool engineering
Tool design and manufacturing
High pressure cold working
Machining
Electronic maintenance and calibration

Partnerships
ABTP- Arsenal Support Program Initiative
Hartchrom- Chrome Plating, Protective Coating Services
General Dynamics Land Systems- Stryker
Wil-Burt Company- Thin Foil Booms

Watervliet Arsenal *
Watervliet, New York

Mission
Provide manufacturing, engineering, procurement and product assurance for cannons, howitzers, mortars and associated armaments for weapon systems used by the U.S. Armed Forces.

History
Watervliet Arsenal, the nation's oldest continuously active arsenal, was founded in 1813 to support the War of 1812. After decades of producing gun shot, leather goods, wooden carriages and other materiel, the arsenal was chosen in 1887 as the site for a national cannon factory. Since then, Watervliet Arsenal has been the nation's principal manufacturer of large caliber weapons.

** The capabilities of this installation will be impacted in accordance with BRAC 2005.*

Installation Overview
The arsenal is located on 140 acres in the center of the City of Watervliet, N.Y. Located six miles north of New York's capital at Albany, the arsenal has more than two million square feet of floor space, more than half of which is for industrial operations. In the 1980s, more than $300 million was invested to upgrade buildings, processes and equipment making the arsenal one of the most modern manufacturing facilities in the northeast.

Contact Information
Watervliet Arsenal
ATTN: AMSTA-WV-XO-CO
1 Buffington Street
Watervliet, New York 12189-4000
518-266-4294 (COM), 374-4294 (DSN)
Kevin.R.Moore@us.army.mil (Email)

Capabilities
LEAD is a capabilities-based depot versus a commodity-based depot. The installation is home to PATRIOT maintenance as well as other missile systems such as Avenger, Tube-launched Optically-tracked Wire-guided missile, Multiple Launch Rocket System, Advanced Fire Control System, Hellfire and Dragon. LEAD provides overhaul and repair of power generation equipment and provides mobile repair teams for on-site maintenance assistance. LEAD provides rebuild, repair and modifications for Ground Mobility Vehicles, specialized Special Operations vehicles, tactical wheeled vehicles, Biological Integrated Detection Systems, Material Handling Equipment, Force Provider, Mobile Kitchens, Containerized Chapels and various Soldier Support Systems. Letterkenny has expanded its capabilities through the use of partnerships.

Capabilities at a Glance
Machining
Sheet metal
Engine overhaul
Plating
Metal finishing
Generator overhaul
Painting
Electric motor rebuild
Altitude chamber
Welding
Hydraulic repair
Circuit card repair
Electronic testing
Non-destructive testing
Phased array antenna
28-acre radar test site
Electronic systems integration
Total package fielding
Armor capabilities
FLIR and laser overhaul
Wiring harness fabrication/repair

Partnerships
Military Systems Group- GMV
AM General- HMMWV
Melton Sales & Service- HMMWV, Avenger
Penn Metal Fabricators, Inc.- Mobile Kitchen Trailers
Lister Petter Americas- Generators
AAI Corp- Shadow 200 Unmanned Aerial Vehicle
ACS Defense Inc.- Dry Filter Units
Battelle- GMV Modification Kits
Lockheed Martin/Raytheon- JAVELIN
Lechmotoren US- PATRIOT
BAE Systems- Deep Digger
Edgewood Chem. Bio. Center- BIDS
General Dynamics Robotic Systems- Stryker
MACRO Industries- Avenger

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Red River Army Depot *
Texarkana, Texas

Mission
Conduct (Light) Ground Combat and Tactical Systems Sustainment Maintenance Operations, Air Defense Systems certification and related support services worldwide for the U.S. Armed Forces and allied nations. Train and employ the Army's emerging sustainment maintenance companies. Provide essential base support services to Red River industrial complex missions. Be an active and viable partner in Bowie County, the greater Texarkana community and the four states area at large.

History
Red River Army Depot (RRAD) was established in 1941 as an ammunition storage depot. Because of the demands of World War II, the mission was expanded to include general supply storage and tank repair. Throughout the years, the depot's missions have evolved, and today Red River is engaged in activities ranging in scope from recertification of the Hawk and Patriot missiles to the production of M1 road wheels. Under BRAC 1995, RRAD relinquished 765 acres of land and 106 buildings to Bowie County; however, Red River Army Defense Complex remains the largest single employer in the greater Texarkana area.

** The capabilities of this installation will be impacted in accordance with BRAC 2005.*

Installation Overview
The depot sits on approximately 18,316 acres of land. The facility has more than 1,310 buildings/structures that will accommodate repair/overhaul of electronic systems, heavy tanks, wheeled vehicles and artillery. RRAD is home to a workforce of 3,500 civilian and three military service members. RRAD has achieved recognition and earned registration under stringent ISO Quality System Requirements. RRAD was the first depot in the Department of the Army to achieve ISO certification across the total depot.

Contact Information
Red River Army Depot
ATTN-RR-B, Bldg 15
100 Main Drive
Texarkana, TX 75507
903-334-5046 (COM), 829-5046 (DSN)
ibmo@redriver-ex.army.mil (Email)

Capabilities
Rock Island Arsenal Joint Manufacturing & Technology Center (RIA-JMTC) is a full service, one-stop shop that will save customers' time and money by eliminating the need to outsource services. The capabilities range from having a full-purpose foundry, fabrication and welding of various metals, heat treating, machining, painting and engineering. More than 200 Computer Numerically Controlled machines along with more than 950 conventional machines (with two of only 13 seven-axis machining centers in the world) give RIA-JMTC unique capabilities in the industrial world.

Capabilities at a Glance
Foundry
Investment casting
Forging
Heat treating
Machining
Blasting
Rubber and plastic molding
Fabrication
Welding
Plating
Painting
Gage manufacturing
Full staff engineering

Partnerships
United Defense Limited Partnership- Opposing Forces Surrogate Vehicle, Opposing Forces Surrogate Tank Vehicle

RIA Joint Manufacturing & Technology Center*
Rock Island, Illinois

Mission
To support the National Defense Strategy with world-class products and service through development/prototyping, manufacturing, integration, testing and logistics to serve the warfighter.

History
Congress established Rock Island Arsenal in 1862. During the Civil War, the island served as a prison camp for the Confederate Soldiers. The Rock Island Arsenal (RIA) is the site of a National Cemetery for those who served their country. The construction of the first stone manufacturing shop began in 1866 and continued through 1893 when the last stone shop was finished. After WWI, RIA built the first American manufactured tank. The Rock Island Arsenal tradition continues today to strive to produce the best quality weapons and manufactured items for DoD while meeting the ever changing needs of today's warfighters.

* *This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

Installation Overview
RIA is located on a 946-acre island on the Mississippi river between Illinois and Iowa. RIA has over 1.5 million square feet of manufacturing space and one of the largest warehouse facilities with over 770,000 square feet under one roof with additional outside storage space.

Contact Information
Rock Island Arsenal Joint Manufacturing & Technology Center
Attention: AMSTA-RI-BDD
1 Rock Island
Rock Island, IL 61299-5000
309-782-4252 (COM), 793-4252 (DSN)
Storkj@ria.army.mil (Email)

Capabilities
RRAD is a national asset with over 60 years of service to the United States and its Soldiers. RRAD is designated as the Center of Industrial and Technical Excellence for Bradley Fighting Vehicles, Multiple Launch Rocket Systems carriers, rubber products, Patriot missile recertification, tactical vehicles and the Small Emplacement Excavator vehicle. The depots technical resources include the capability to design, fabricate and manufacture a wide range of items, from specialty parts to unique prototype weapon systems and vehicles.

Capabilities at a Glance
Storage- 701 earth-covered igloos
Electronics
Mechanical/hydraulics
Rubber road wheels and track shoes
Vehicle test track
Engineering
Explosive safety
Renovation missiles and related components
Demilitarization/recovery of missiles and ammunition
Design and manufacture prototype vehicles for the Army and Air Force

Partnerships
United Defense Limited Partnership- Bradley Fighting Vehicle System-Family of Vehicles
Global Defense- Bradley Fighting Vehicle System-Family of Vehicles
MLS- M548

Sierra Army Depot *
Herlong, California

Mission
Serve as the Expeditionary Logistics Center and joint strategic power projection support platform, providing support in the form of storage, maintenance, assembly and containerization as a Center of Industrial Technical Excellence for critical Operational Project Systems including deployable medical systems, petroleum and water systems, Force Provider, strategic configured loads and other items as directed.

History
Sierra Army Depot (SIAD) was established in 1942 and began operations as an ammunition and general supply storage depot. In 1993, Sierra became home to the three largest Operational Project Systems in the Army: Inland Petroleum Distribution System, Water Support Systems, and Force Provider and was designated a Center of Technical Excellence. Today, SIAD has become a premier life cycle management installation performing the receipt, storage, repair, maintenance and rapid deployment of a variety of military unique systems.

* *The capabilities of this installation will be impacted in accordance with BRAC 2005.*

Installation Overview
The depot sits on 36,322 acres of land adjacent to Honey Lake in Lassen County, Calif. The current infrastructure consists of 1,192 structures including igloos, supply warehouses, maintenance buildings, munitions buildings and Y sites. The depot is located on the east side of the Sierra Nevada mountain range at approximately 4,000 feet above sea level. This unique environment creates the perfect long-term storage conditions: extremely low humidity and moderate summers and winters.

Contact Information
Sierra Army Depot
ATTN: AMSTA-SI-COB
74 C Street, Building 150
Herlong, CA 96113-5001
530-827-4888 (COM), 855-4888 (DSN)
business@sierra.army.mil or partnerships@sierra.army.mil (Email)

Capabilities
PBA has existing capabilities for 102 commodities (64 ammunition and 38 chem/bio defense). Eighty-three of the items manufactured by PBA are currently not available from the private sector; 41 items are considered critical go-to-war and nine are chem/bio. PBA possesses a white phosphorus (WP) canister fill capability and is a supplier for WP fill in smoke munitions. PBA is noted for its development of unique pyrotechnics mixing technologies including facilities for red phosphorus mixing, extrusion and pressing, and 40mm colored smoke grenade production. PBA is the Army's sole facility for rebuild and recertification of protective masks and for Defensive Chemical Test Equipment Services, for the manufacture of several large filters and of the M291 decontamination kit. PBA is the second site for the Chemical Defense Equipment Go-to-War field return and storage mission.

Capabilities at a Glance
Chemical defense and test equipment
Individual and collective chemical protection and decontamination systems
Chemical Material Surveillance Program
Machining, fabrication and assembly
Specialty and less-than-lethal ammunition production
Quality assurance and joint logistics services

Pine Bluff Arsenal
Pine Bluff, Arkansas

Mission
Pine Bluff Arsenal's (PBA) mission includes ammunition production, chemical/biological defense production and repair, depot storage and surveillance, chemical weapons management, and homeland security. PBA is an organic facility with chem/bio production and rebuild capability. PBA's homeland security support mission includes first-responder equipment training, and surveillance of prepositioned equipment.

History
Established in November 1941 for the manufacture of incendiary grenades and bombs, PBA's mission rapidly expanded to include production and storage of pyrotechnic, riot control and chemical filled munitions. In the 1990s, PBA expanded its chemical defense mission and established a homeland security mission.

Installation Overview
PBA occupies 13,500 acres and is the only active Army installation in the state of Arkansas. PBA actively maintains 675 buildings and 283 igloos with total real property of 3.7 million square feet. PBA has over 5,000 acres of pristine developable land.

Contact Information
Pine Bluff Arsenal
10020 Kabrich Circle
Pine Bluff, AR 71602-9500
870-540-3004 (COM), 966-3004 (DSN)

Capabilities
SIAD is a Joint Strategic Power Projection Platform providing a wide variety of long-term, life-cycle logistics solutions to the joint services. From long-term care, storage, and sustainment to minor repair and on-demand deployment, SIAD offers the competitive solution to logistics challenges.

Capabilities at a Glance
ISO 9000:2001 certified
Over 36,000 buildable acres
On-post C-17 capable airfield
Container certification and repair
Configuration management
Preservation and packaging prototyping
10/20 repair of Operational Project Stocks
On-demand shipments
Partnerships with FPI and private industry that provide a range of additional capabilities

Partnerships
SAC EDM- HMMWV
PMI- HMMWV
Lichti- HMMWV
FBOP- HMMWV
LSI- ISO Container
Radian- Production Planning and Control Augmentation
Highland Engineering- Reverse Osmosis Water Purification System Reset

Tobyhanna Army Depot *
Tobyhanna, Pennsylvania

Mission
Provide total sustainment and integration of the full spectrum of DoD's critical Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) as well as Missile Guidance and Control systems.

History
Tobyhanna Army Depot (TYAD) has served the United States since Feb. 1, 1953, providing U.S. Armed Forces with high quality, cost-effective communications-electronics products and services. Today, TYAD is the largest full-service joint C4ISR maintenance facility in the DoD.

** This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

Installation Overview
The depot encompasses 1,296 acres, including 398 acres in the industrial area. The mission area consists of 153 buildings and 13 test ranges, to include multiple radar ranges and a laser range. Over 1.9 million square feet are dedicated to the depot's C4ISR and missile guidance and control missions with 61 percent of the mission area under one roof. TYAD is virtually self-sustaining with abundant infrastructure capacity to support its diverse mission requirements.

TYAD is ISO 9001:2000 certified for the repair, overhaul, fabrication, power projection and logistics support of communications electronics equipment and systems and the design and development supporting integration of communications electronics systems. The depot is the first DoD facility to be certified as an OSHA Voluntary Protection Program Star Site. To earn this prestigious designation, Tobyhanna met OSHA standards in 19 categories, including self-safety inspections, injury rates, employee participation, training, and personal protective equipment.

Contact Information
Tobyhanna Army Depot
ATTN: AMSEL-TY-BU
11 Hap Arnold Boulevard
Tobyhanna, PA 18466-5051
1-877-ASK-TOBY (COM), 795-8629 (DSN)
www.tobyhanna.army.mil (Web site)

Capabilities
SCAAP is capable of producing finished large caliber projectiles from raw steel stock. The facility's long stroke, 400- to 2,500-ton presses are unique to ammunition manufacture.

Capabilities at a Glance
Manufacturing ammunition metal parts
Capability to produce 60mm to 8" diameter projectiles
120mm mortar family
5"/54 gun projectiles
155mm artillery projectiles

Scranton Army Ammunition Plant
Scranton, Pennsylvania

Mission
Manufacture 105mm to 155mm diameter projectiles, including M795, 120mm family of projectiles, M107, M804, M485, MK64-2 and the M110.

History
Originally constructed in 1910 as a steam locomotive erecting and repair facility for the DL&W Railroad, Scranton Army Ammunition Plant (SCAAP) was acquired in 1951 and converted to produce metal parts. Because the main production buildings remain largely unaltered, the installation is on the National Register of Historic Places as part of the Steamtown Historic District. The original operating contractor, US Hoffman Machinery Corporation, operated the facility until 1963, when Chamberlain Manufacturing Corporation (CMC) replaced them. CMC has been the operating contractor since then. In 1994, CMC was awarded a facilities use contract for operation of the installation. This contract provides no government funds and allows the contractor to lease government-owned equipment to manufacture commercial products. The current contract also requires CMC to invest a minimum of $2 million per year in facilities maintenance and improvements.

Installation Overview
SCAAP is an active, government-owned, contractor-operated ammunition plant located in Scranton, Pa. SCAAP occupies 15.3 acres, has seven buildings and 509,000 square feet of building area. SCAAP manufactures large caliber steel projectiles for artillery, mortar, and Navy projectile metal parts.

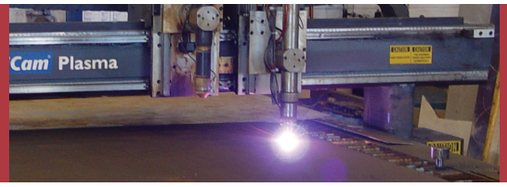
Contact Information
Scranton Army Ammunition Plant
ATTN: SJMSC-CR
156 Cedar Avenue
Scranton, PA 18505-1138
570-340-1152 (COM), 247-1152 (DSN)
scaap@aco.pica.army.mil (Email)

Capabilities
The Army has designated Tobyhanna as its Center of Industrial and Technical Excellence for communications-electronics, avionics, and missile guidance and control. The Air Force has designated Tobyhanna as its technical source of repair for command, control, communications and intelligence systems. TYAD's talented workforce, high level of electronics expertise, and the latest technologies and business management techniques ensure the depot is the provider of choice for fabrication, electronic repair, engineering design, systems integration, technology insertion, automated test equipment and technical documentation development of DoD's joint C4ISR systems as well as missile guidance and control systems. In addition to the main facility, TYAD operates 31 forward support locations ensuring operational readiness for the warfighter. TYAD personnel provide two-level maintenance on systems such as Warlock, Standard Army Management Information Systems, Tactical Operation Centers, Army Airborne Command and Control, Guardrail/Common Sensor, Firefinder, Common Ground Station, Tactical Unmanned Aerial Vehicles, and Communication Security equipment at sites throughout Europe, Southwest Asia, Korea, Okinawa and the Continental U.S.

Capabilities at a Glance
C4ISR
Missile guidance and control repair/overhaul
Tactical and fixed site integration of C4ISR systems
Worldwide maintenance presence sustaining weapon systems
Electronic equipment/small mechanic piece part manufacturing
Robust engineering design, simulation and testing

Partnerships
Dell- Computer Repair
Northrup Grumman- Command Post Platform, Testing
General Dynamics- Common Ground Station Modification Work Order, Vehicular Intercom System Repair
BAE Systems- Engineering Support, ALQ-144 Reset
Itronix- Computer Repair
United Defense- Vehicular Intercom System Repair for Bradley
Raytheon- Firefinder
EPS Network Solutions- AN/PRC-112
Thales Raytheon- Sentinel
AAI Corp- Shadow Unmaned Aerial Vehicle Reset
Van Brakel Elect.- Cable Assembly Fabrication
COMTECH- Warlock

Tooele Army Depot *
Tooele, Utah



Mission
Tooele Army Depot (TEAD) is a premier active joint ammunition storage site. Tooele is responsible for shipping, storing, receiving, inspecting, demilitarizing, and maintaining training and war reserve conventional ammunition. Tooele's Ammunition Equipment Directorate designs and manufacturers ammunition peculiar equipment (APE) used in maintenance and demilitarization of munitions for DoD.

History
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. BRAC 1988 recommended that TEAD take over the general supply storage mission from Pueblo Army Depot Activity, Colo., and BRAC 1993 recommended TEAD eliminate its troop support, maintenance, storage, and distribution missions. The realignment of the maintenance and supply missions was completed in 1995. The depot currently retains the conventional ammunition storage, maintenance, demilitarization and APE portions of its mission. TEAD continues to provide extensive base operations support to Deseret Chemical Depot as well as communications support to Army installations throughout the western United States.

* *This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

Installation Overview
The depot consists of over 23,610 acres of land. The facility has 1087 structures: igloos, above ground magazines, supply warehouses, maintenance buildings, public works facilities and administrative buildings. There is 2,483,000 square feet of storage space capabilities. Employment currently consists of: 467 civilians, two military, 118 contractors, 64 tenants and 49 Non-Appropriated Fund employees.

Contact Information
Tooele Army Depot
ATTN: SJMTE-CO
Tooele, UT 84074
435-833-2211 (COM), 790-2211 (DSN)
Kathy.anderson1@us.army.mil (Email)

Capabilities
The Army has not work-loaded RBAAP since 1981, but it has the capability to produce ammunition metal parts for mortar, grenades and cartridge cases. Because of the closure of the Norris Industries-Vernon facility, RBAAP is now the source for steel deep drawn cartridge cases. RBAAP is producing steel and deep drawn cartridge cases via competitive awards from the services.

Capabilities at a Glance
Manufacture munitions metal parts
155mm, 105mm, 5"/54, and 40mm cartridge cases
Mortars
Cargo grenades
Shearing and blanking processes for steel cold deep draw and brass

Riverbank Army Ammunition Plant *
Riverbank, California

Mission
Provide ammunition to sustain combat power for the services. Manufacture, under the facility use contract, a wide range of ammunition, defense and commercial application items competitively obtained. Maintain and support minimum facilities, in a standby status, required to produce deep drawn cartridge cases, medium caliber cartridge cases and grenade metal parts.

History
Originally constructed in 1942 as an aluminum reduction plant and converted in 1951 to produce metal parts. At the height of the Vietnam conflict, employment peaked at 1,923. The plant was in a layaway status from 1958 to 1963 when put up for sale by General Services Administration. No qualified purchasers were interested and the plant remained in a standby status. In June 1966, the Army reactivated Riverbank Army Ammunition Plant (RBAAP) for the Vietnam conflict. The facility has three major production lines, two of which are laid away.

* *This installation was selected for closure under BRAC in 2005.*

Installation Overview
RBAAP is a government-owned, contractor-operated facility, operated by NI Industries, Inc., located near Riverbank, Calif. RBAAP occupies 172 acres, has 133 buildings and 500,000 square feet of storage area. RBAAP was listed as a National Priorities List site in 1990. Contaminants are chromium and cyanide. RBAAP is currently operating a pump and treat system to decrease the groundwater contamination plume. RBAAP is an Armament Retooling Manufacturing Support site with several tenants.

Contact Information
Riverbank Army Ammunition Plant
ATTN: SJMRB-CR
5300 Claus Road, P.O. Box 670
Riverbank, CA 95367-0670
209-869-7239 (COM), 466-4239 (DSN)
brownell.turner@us.army.mil (Email)

Capabilities
TEAD specializes in ammunition logistics and the engineering of ammunition and ammunition-related equipment. As a major Power Projection Platform for the United States' Joint Services, TEAD issues, receives, stores, maintains, demilitarizes and tests ammunition. Additionally, the depot designs, develops, and fabricates field ammunition related equipment. TEAD's equipment and services are used throughout the world. In its 60-plus year history as an ammunition management and development facility, TEAD has established the infrastructure, specialized workforce, and proven procedures needed to meet today's technological challenges quickly and effectively.

Capabilities at a Glance
Ammunition, logistics and engineering
National Inventory Control Point for Ammunition
Peculiar Equipment
ISO 9001:2000 certified
Lean/Six Sigma organization
Ship/Store/Outload
Renovation/Reclamation/Demilitarization/Disposal
Robotics, material handling and remotely controlled vehicles
R3 Technology (hydrolysis and super critical water oxidation)

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Anniston Defense Munitions Center
Anniston, Alabama

Mission
Anniston Defense Munitions Center (ADMC) provides timely and accurate receipt, storage, shipment, maintenance, inspection, demilitarization, and recycling of ammunition and missiles in support of the joint warfighter.

History
ADMC, located at Anniston Army Depot, is a multi-functional ammunition facility. The primary mission is receipt, storage, surveillance and shipment of missiles and conventional ammunition. Effective Oct. 1, 1999, ADMC officially came under the full command and control of Blue Grass Army Depot in Richmond, Ky. ADMC received its first on site commander in June 2004.

Installation Overview
The center sits on 13,160 acres of land and is comprised of 33 buildings and 1124 igloos (storage capacity of 2,219,952 square feet). There are 180 miles of roads and 19 miles of railroads at ADMC. The site is centrally located to provide timely support to southeast portion of the United States. ADMC has year-round operational capability.

Contact Information
Anniston Defense Munitions Center
ATTN: SJMBG-AN-P
7 Frankford Avenue
Anniston, AL 36201-4199
256-235-7571 (COM), 571-7571 (DSN)
gordon.l.williamson@us.army.mil; mark-pomeroy@us.army.mil (Email)

Capabilities
RRMC has the capability to test and repair various missiles and guidance control groups. The center is Level I, II and III certified in x-ray (M213 fuzes, rocket motors, and motors) and maintains/renovates various munitions and missile systems. In addition, RRMC is responsible for the renovation of M67 hand grenades, mortars, 2.75" rockets, and various 105mm and 155mm to include link and delink of various small arms. Provides Quality Assurance Specialist (Ammunition Surveillance) support to the warfighter.

Capabilities at a Glance
Ammunition surveillance
Munitions storage and shipping
Munitions/Missile maintenance
Demilitarization/Disposal
Ship/Store/Outload

Red River Munitions Center *

Texarkana, Texas

Mission

Support the joint warfighter by executing efficient and safe receipt, issue, storage, demilitarization, renovation and maintenance of conventional munitions and missiles within cost and on schedule.

History

Built in 1942 as Red River Ordnance Depot, the original mission was to serve as an ammunition storage facility. Before completion of the ammo storage buildings, Red River was assigned the additional missions of tank repair and storage of general supplies. In 1967, Red River was chosen to become the sole maintenance facility for the Chaparral Missile. During the 1990s, the Army placed the general supply mission under the Defense Logistics Agency. In 1999, the depot was placed under command of TACOM Life Cycle Management Command and the ammunition mission under the Industrial Operations Command (which later became Joint Munitions Command). As a result, in 1999, the Ammunitions Directorate became Red River Munitions Center (RRMC) under the command and control of McAlester Army Ammunition Plant.

** The capabilities of this installation will be impacted in accordance with BRAC 2005.*

Installation Overview

RRMC is a joint service provider, providing support to the Joint Munitions Command, Aviation and Missile Life Cycle Management Command, Army, Air Force, Navy and Marine Corps and the host depot, Red River Army Depot. Provides support/partnership with RRAD, TRMF (Hawk and Patriot Missile). Provides support/partnership with Lone Star Army Ammunition Plant for various demilitarization programs. RRMC works under the core concept equipping and training the employees with multi-skilled expertise. RRMC has over 8,934 acres, 107 miles of improved roads, 20 miles of railroad, 701 igloos (107 for CAT I and II Storage), 18 standard magazines and 10 covered sheds for Patriot missiles. RRMC currently stores over $5 billion of inventory. RRMC is ISO 9000 certified.

Contact Information

Red River Munitions Center
ATTN: SJMMC-MC
100 Main Drive
Texarkana, TX 75507
903-334-2437 (COM), 829-2437 (DSN)

Capabilities

The ADMC is a key DoD site for missile and rocket maintenance, demilitarization and disposal by open burning and open detonation and is the strategic resupply center for some military units. The ADMC is also the site for the Department of Army's Missile Recycling Center and is one of the Army's ammunition storage sites with more than 450 "Stradley" igloos, which can store some of the Army's largest munitions. Future technologies and capabilities include: Energetics Processing Module, Slurry Explosives Module, Contained Detonation Chamber, Multiple Launch Rocket System Recycling, 155 additional Igloos in fiscal year 10, additional Conventional/Missile Maintenance Facility in fiscal year 10, and Deptartment of Army Automated Ammunition Requirements Tool/ Ammunition/Computer Aided Manufacturing Web-based tool.

Capabilities at a Glance

Ship/Receive/Outload
Storage – Stradley, H-type and Standard Igloos
Ammunition renovation
Preservation, packaging and maintenance
Quality assurance services
Explosive Demilitarization/Disposal –
Open Burning and Open Detonation
Missile recycling center

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Crane Army Ammunition Activity *
Crane, Indiana

Mission
Receive, store, ship, produce, renovate and demilitarize conventional ammunition, missiles and related components to meet contingency requirements in support of the warfighter.

History
In 1940, Congress appropriated $3 million for the construction of the depot. In 1941, the Naval Ammunition Depot was commissioned. In 1975, the U.S. Army was tasked by DoD as the single manager for procurement, supply, maintenance and renovation for conventional ammunition, and on Oct. 1, 1977, Crane Army Ammunition Activity (CAAA) was activated and assumed the ammunition production functions as a tenant activity at the Naval Surface Warfare Center Crane Division.

* *This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

Installation Overview
CAAA is licensed 62,434.54 acres with 1,800 magazines, 386 buildings and approximately 4.9 million square feet of storage capacity. Crane's primary mission is that of a major Power Projection Platform, which includes storage and outload with an active production mission for Pyrotechnics (Illumination and Infrared) candles for mortars and projectiles, decoy flares, bomb and ammunition renovation as well as demilitarization. CAAA is also host to Reserve training programs.

Contact Information
Crane Army Ammunition Activity
ATTN: SJMCN-CO
300 Highway 361
Crane, IN 47522-5099
821-854-1484 (COM), 482-1484 (DSN)
timothy.i.adams@us.army.mil (Email)

Capabilities
Continental United States producer of nitrocellulose, solventless propellant for rocket motors and weapons-grade TNT. Produces single and multi-base propellants. LAP facility for medium caliber munitions, 25/30mm. DoD munitions storage capability of approximately 200 igloos/magazines. Capable of producing over 400 different propellants.

Capabilities at a Glance
Manufacturing propellant and explosives
Nitrocellulose
Nitroglycerin
Nitrate esters
Propellants (Single Base, Double Base, Triple Base)
TNT
Ethyl cellulose

Partnerships
Pyrotechnic by Grucci- M115, M116, M117 simulators
Valentec Systems- 120mm, 60mm mortars
Alliant Techsystems, Inc.- 25mm, 30mm medium caliber, 155mm large caliber

Radford Army Ammunition Plant
Radford, Virginia

Mission
Manufacture propellants and explosives in support of field artillery, air defense, tank, missile, aircraft and Navy weapon systems.

History
In August 1940, Hercules reached agreement with the U.S. Government to build/operate Radford Ordnance Works and New River Plant. Construction was completed in six months. Operated under a cost-plus contract, the Army directed approximately 97 percent of the work. In 1995, Alliant Techsystems, Inc., obtained a firm fixed-price facility use contract. Directed workload is only two percent and 98 percent is competitively obtained. Joliet Army Ammunition Plant load, assembly, and pack (LAP) mission was relocated to Radford Army Ammunition Plant (RFAAP) in 1999.

Installation Overview
RFAAP occupies approximately 7,000 acres, in two separate locations. There are over 2,500 buildings (including ammunition storage), which provide over three million square feet of covered areas. RFAAP is an Armament Retooling and Manufacturing Support site with several tenants. Tenant revenue is used to off-set facilities costs.

Contact Information
Radford Army Ammunition Plant
ATTN: SJMRF-CO
P.O. Box 2
Radford, VA 24143-0002
540-639-8711 (COM), 931-8711 (DSN)
rfaap@afsc.army.mil (Email)

Capabilities
CAAA is a Strategic Mobility Platform offering logistical support in receiving, storing, shipping and surveillance. As a Munitions Center of Excellence, CAAA is the producer of pyrotechnic “candles” for mortar and artillery illumination rounds and MJU-55 and MJU-57 decoy flares. CAAA is a major producer of large caliber Navy gun ammunition with capabilities to cast load, press load, bomb renovation, missile warhead pressing, insensitive munitions, actuating devices and C-4 extrusion. CAAA’s demilitarization capabilities include steam out, high pressure washout, permitted open burn/open detonation, CO2 pellet blasting, contained detonation (coming on line), water-jet, autoclaves and white phosphorus conversion. The activity’s Machining Center offers fabrication of tools, dies, fixtures, gages and production equipment and components. CAAA can also weld, heat treat and perform cleaning and finishing.

Capabilities at a Glance
Logistical operations
Munitions manufacturing
Demilitarization
Munitions maintenance and renovation
Remote operations capability
Engineering services
Environmental test facility
Logistics support machine shop
In-house chemical lab

Partnerships
SNC- 105mm
Gradient- Yellow-D

Holston Army Ammunition Plant
Kingsport, Tennessee

Mission
Holston Army Ammunition Plant manufactures a wide range of secondary detonating explosives including RDX, HMX, TATB, NTO and related formulations in addition to a growing number of speciality chemcials such as DNAN and DMDNB. Research and development plays a vital role in the development and production of new products to meet the current and future needs of the warfighter. Holston is currently capable of producing more than 80 products.

History
During WWII, the U. S. Government needed a highly effective explosive to counter German U-boats. In June 1942, the U.S. Government authorized Tennessee Eastman Company to design and operate Holston Ordnance Works for the manufacture of Composition B. Peak employment levels hit 7,345 in 1945. Holston was mothballed at the end of WWII and was reactivated for the Korean Conflict. In January 1999, BAE Systems Ordnance Systems Inc., became the operator under a facilities use contract. Since 1999, Holston has experienced a significant growth in production volumes, product offerings, and manufacturing capabilities.

Installation Overview
The plant sits on a total of 6,024 acres of land. HSAAP is comprised of two major areas. Area A is located within the city of Kingsport, Sullivan County. Area B, over 5,900 acres, is located west of Kingsport, in both Sullivan and Hawkins counties. The two areas are connected by rail and pipeline. The facility has more than 450 buildings, including 130 igloos. Holston has about 21 Armament Retooling and Manufacturing Support program tenant businesses, including the Holston Business Development Center. Since June 2004, Holston has been commanded by the commander of Anniston Defense Munitions Center in Alabama.

Contact Information
HOLSTON AAP
ATTN: SJMHS - CR
4509 West Stone Drive
Kingsport, TN 37660-1048
423-578-6241 (COM); 748-6241 (DSN)
hsaap@afsc.army.mil (Email)

Capabilities
MSAAP's operating contractor maintains the capability for equipment maintenance, installation reuse, industrial waste treatment, sanitary waste treatment, gas-fired steam generation, water system distribution, hazardous waste accumulation, computer support and laboratory facilities.

Capabilities at a Glance
Maintenance management
Facility reuse management

Mississippi Army Ammunition Plant *
Stennis Space Center, Mississippi

Mission
Mississippi Army Ammunition Plant (MSAAP) provides maintenance of laid away cargo grenade metal parts manufacturing equipment and associated tools, gages, and Test, Measurement and Diagnostic Equipment.

History
MSAAP is located in the National Aeronautics and Space Administration Stennis Space Center. Established in 1976 and dedicated on March 31, 1983, it is the only ammunition plant constructed since World War II. It was designed to handle the complete on-site production and assembly of the M483A1 ICM 155mm Howitzer projectiles and grenade bodies. Live load, assemble, and pack (LAP) operations began in May 1984. The highest employment was 1,831 in 1989. The Army ceased active production in 1990 and layaway of excess capacity was completed in 1991. In December 1992, MSAAP was the first facility to sign a facility use contract under the Armament Retooling and Manufacturing Support (ARMS) program. Applied Geo Technologies, Inc., is the current operating contractor.

* *This installation was selected for closure under BRAC in 2005.*

Installation Overview
The plant sits on a total of 4,214 acres of land owned by NASA. It occupies the land by means of an Army permit. The installation consists of 123 buildings, including 41 igloos and five magazines. A number of buildings have been converted from manufacturing related use to commercial/office space under the ARMS program. MSAAP has about 19 ARMS tenant businesses, including Boeing, the U.S. Navy and Department of Energy.

Contact Information
Mississippi Army Ammunition Plant
ATTN: SJMMS – AO
BLDG 9100 Moses Cook Road
Stennis Space Center, MS 39526-7000
228-689-8907 (COM)
446-8907 (DSN)
pamela.brown@us.army.mil (Email)

Capabilities
Core capabilities at Holston include the mixed-acid nitration of organic molecules to synthesize a host of secondary high explosives, from gram-scale to millions of pounds. Product purification and particle size is controlled by recrystallization from organic solvents, with a fully permitted environmentally compliant effluent treatment capability. Explosive products are formulated at Holston to provide for melt-cast, pressed, extrudable and cast-cured explosive fillings. All explosive operations are performed against an ISO 9001:2000 accredited registration. Research and Development (R&D) at Holston is highly focused on next-generation energetic materials, using affordable, practical chemistry techniques. R&D covers the technology areas of synthesis, formulation, analytical methods-development and explosive performance testing. Synthesis scale-up is afforded by a unique production capability: a flexible, reconfigurable chemistry capability that can quickly produce multiple products throughout the manufacturing year. This agile facility, developed since 1999, has been used to manufacture new ingredients Insensitive Munitions compliant explosives, such as PAX-21 and PAX-34.

Capabilities at a Glance
Production and development of Insensitive Explosives
Production of RDX, HMX, Pressed PBXs and melt-cast high explosives
Synthesis and manufacture of high explosives - grams to millions of pounds
Recrystallization and purification from organic solvents
Melt-cast, cast-cured, pressed and extrudable explosives formulation
Explosives performance testing
Full-spectrum explosives R&D capability
Custom and Fine Chemical manufacture for the Defense Industry
ISO 9001:2000 accreditation

Partnership
BAE Systems Ordnance Systems Inc.- All products

Iowa Army Ammunition Plant *
Middletown, Iowa

Mission
Produce and deliver quality large caliber ammunition items for DoD using modern production methods in support of worldwide operations. Maintain stewardship of government facilities and the environment.

History
Iowa Ordnance Plant (IOP) was established in 1940 and began production in 1941 of ammunition items to support the war effort. In 1947 the Mason & Hanger-Silas Mason Co., Inc., of Lexington, Ky., was selected by the Atomic Energy Commission to design and build the first production facility at the IOP for the manufacture of high explosive components for atomic weapons. In 1975, all nuclear weapons related production was terminated at the plant. In 1963, the plant was renamed Iowa Army Ammunition Plant (IAAAP).

* *This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

Installation Overview
The plant sits on 19,011 acres of land. The facility has more than 1,377 structures including: igloos, buildings and magazines with a total of 4.3 million square feet of storage. The plant has 143 miles of roads and 102 miles of railroads. The plant also has an active test fire area for testing live munitions, on post fire station and a contaminated waste processor. IAAAP is a government-owned, contractor-operated facility, operated by American Ordnance LLC, under a facilities use contract. IAAAP had an additional mission added to their on going mission after the 2005 BRAC. The use of the Armament Retooling and Manufacturing Support program at IAAAP has reduced the operating cost for the plant.

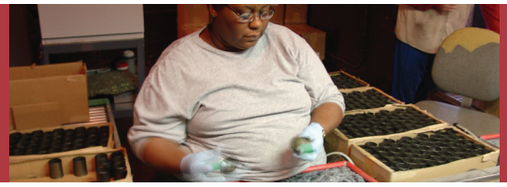
Contact Information
Iowa Army Ammunition Plant
ATTN: SJMIA-CO
17571 Highway 79
Middletown, IA 52638-5000
319-753-7200 (COM), 585-7200 (DSN)
jack.judy@us.army.mil (Email)

Capabilities
MLAAP manufactures the M74 Grenade and loads into Army Tactical Missile System Warhead. In addition, the plant has medium caliber 40mm pressing and load, assembly, and packaging capabilities for: 40mm, M918/M385, and M430/M433. Capability to receive and ship containerized cargo. CAT II storage capability.

Milan also has the ability for: High Explosive Artillery/Mortar Melt Pour; assembly and packaging of 105mm/155mm/60mm/81mm; modern Extruder of C-4 plastic explosives; C-4 used for Mine-Clearing Line Charge (M58A4/M68A2) and M112/M183 demolition charges; and assembly of Reactive Armor Tiles for the Bradley Fighting Vehicle. The depot storage capacity is 874 igloos and 22 magazines.

Capabilities at a Glance
Load, assemble, and pack of ammunition
40mm cartridges
Mortars/mortar components (propellant charges, ignition cartridges, fuze boostering)
Artillery projectiles
Ignition cartridges
Propelling charges
Bursters
Grenades
Tactical Missile System
Dispenser and bomb cluster bomb units
Reactive Armor Tiles
Demilitarization/Disposal
Renovation/Reclamation
Item development and production test support
Logistics support

Milan Army Ammunition Plant *
Milan, Tennessee



Mission
Load, assemble, pack, store, ballistic test, extrude and accept conventional ammunition items.

History
Milan Ordnance Depot and Wolf Creek Ordnance Plant were established in 1941. The plant began production in 1941 of ammunition items to support the war effort. In 1943, the plant and the depot were merged into Milan Ordnance Center, redesignated Milan Arsenal in 1945. Between 1960 and 1963, several name changes were made, concluding the redesignation of Milan Army Ammunition Plant (MLAAP).

** This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

Installation Overview
The plant sits on 22,357 acres of land. The facility has more than 2,405 structures including igloos, buildings and magazines with a total of 2.3 million square feet of storage. The plant has 205 miles of roads and 86 miles of railroads. The plant also has an active test fire area for testing live munitions, on post fire station and is capable of open burn/open detonation of explosives.

Contact Information
Milan Army Ammunition Plant
ATTN: SJMML-CO
2280 Highway 104 West
Milan, TN 38358-6101
731-686-6101 (COM), 966-6101 (DSN)
mlaap@afsc.army.mil (Email)

Capabilities
Current production capabilities and orders include the M795, M107 and M927 artillery projectile, the Modular Artillery Charge System, 75mm and 105mm blanks, the entire 120mm family of tank ammunition, and warheads for the Javelin, Mongoose, and Hawk missiles.

Capabilities at a Glance
Load, assemble, and pack ammunition items
Tank ammunition
Rocket assisted projectiles
Artillery projectiles
Pressed warheads/cast warheads
Mines and Family of Scatterable Mines
Detonators
Research and development work

Partnerships
General Dynamics- 120mm Tank

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Kansas Army Ammunition Plant *
Parsons, Kansas

Mission
Load, assemble and pack ammunition items.

History
Kansas Army Ammunition Plant (KSAAP) was established in 1941 and began operation in 1942 as an Army ammunition plant.

** The installation was selected for closure under BRAC in 2005.*

Installation Overview
KSAAP sits on approximately 13,727 acres of land. The facility has more than 749 structures including igloos, supply warehouses, maintenance buildings, and munitions sheds. KSAAP is a government-owned, contractor-operated facility, operated by Day & Zimmermann, under a facilities use contract.

Contact Information
Kansas Army Ammunition Plant
ATTN: SJMKS-CR
23018 Rooks Road
Parsons, KS 67357-8403
620-421-7400 (COM), 956-1400 (DSN)
donald.dailey@us.army.mil (Email)

Capabilities
Load, assemble and pack MK80 Series Bombs, Plastic Bonded Explosive Bombs, Penetrator Bombs, insensitive munitions load, Massive Ordnance Air Blast, Navy Propelling Charges, rockets, 40mm cartridge assembly, High-speed Antiradiation Missile Integration, Joint Stand Off Weapon All Up Round Integration, Extended Range Guided Munition Integration, Harpoon Warhead loading and Excalibur. Renovation of bombs, rockets, projectiles, mortars, small arms, propelling charges, and shipping containers. Other capabilities include: wood and metal pallets, chemical laboratories, radiographic facilities, missile disassembly and demilitarization.

Capabilities at a Glance
Load, assemble, and pack of bombs
20mm and 40mm cartridge assemblies
Propelling charges
Rockets
Warheads
Renovation
Demilitarization
Research and development
Storage
Ship/Receive/Outload

Partnerships
Boeing- AGM-88
Raytheon- AGM-154, AGM-65
General Dynamics Ordnance and Tactical Systems- MK-80 Series, BLU-122
William Woods- Wood pellets
EXPLO Systems- Wood pellets

McAlester Army Ammunition Plant *
McAlester, Oklahoma

Mission
Produce, renovate, demilitarize, store and ship bombs, conventional ammunition and ammunition related components.

History
Established May 20, 1943 as the McAlester Naval Depot, the first production began in September 1943. Peak employment during WWII was more than 8,000 civilians with 680 military. The depot transferred to the Army on Oct. 1, 1977, under the Single Manager for Conventional Ammunition Act. Red River Munitions Center transferred to McAlester Army Ammunition Plant (MCAAP) on Oct. 1, 1999 as a result of the BRAC process. MCAAP is a government-owned, government-operated facility.

* *This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

Installation Overview
MCAAP consists of 45,000 acres in southeastern Oklahoma. The facility has more than 2,800 permanent structures, 2,000 igloos, 220 miles of railroad, 400 miles of improved roads and 25 miles of fiber optic cable. MCAAP is ISO 9001 certified and a Lean/Six Sigma continuous improvement organization. MCAAP is the only organic bomb-making facility in the United States.

Contact Information
Commander/SJMMC-CO
McAlester Army Ammunition Plant
1 C Tree Road
McAlester, OK 74501-9002
918-420-6211 (COM), 956-6211 (DSN)
co@mcaap.army.mil (Email)

Capabilities
Produces the Sensor Fuzed Weapon for the Air Force, M720 and M768 60mm mortars for the Army, and the M795 155mm projectile for the Marine Corps, as well as various ammunition items in smaller quantities. In addition, KSAAP demilitarizes, converts, develops, and/or upgrades ammunition using melt pour, injection load, high speed pressing, and large-capacity pressing using conventional and insensitive munitions explosives. The plant has a facilities use contract, which allows both commercial and DoD work.

Capabilities at a Glance
Load, assemble and pack ammunition items
Bombs (unitary, cluster, guided, smart)
Demilitarization
Renovation/rework
Missile warheads
Grenades, bomblets
Tank ammunition
Artillery projectiles
Mortars
Detonators, lead charges, boosters

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Lake City Army Ammunition Plant
Independence, Missouri

Mission
Provider of DoD small caliber ammunition. Performs reliability testing for all calibers of small arms. Serves as NATO National and Regional Test Center for ammunition and weapons testing. Producer of small and medium caliber links.

History
Lake City Army Ammunition Plant (LCAAP) began construction in 1940 and operations in 1941 as the first of 12 small arms plants. LCAAP orders bulk metals, chemical, and propellants and fabricates them into complete 5.56mm, 7.62mm, and .50 caliber and load, assembles and packs 20mm.

Installation Overview
The plant is located on 3935 acres. The facility has a total of 511 structures with over 420 buildings being utilized in active day-to-day fabrication, manufacturing, and testing of small arms. LCAAP is a government-owned, contractor-operated facility, operated by Alliant Techsystems Inc., under a fixed price supply contract.

Contact Information
Lake City Army Ammunition Plant
ATTN: SJMLC-CO
7 Highway and Route 78
Independence, MO 64501-1000
816-796-7111 (COM), 463-9111 (DSN)
lcaap@afsc.army.mil (Email)

Capabilities
LSAAP's core capabilities include ammunition end-item production, explosive component production, production engineering, receipt, storage and issue, explosive and industrial facilities management.

Capabilities at a Glance
Load, assemble and pack ammunition
Family of Scatterable Mines
Components
Improved conventional munitions
Multiple launch rocket system grenades/cargo
Hand grenades
Renovation and reclamation
Demilitarization/Disposal

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Lone Star Army Ammunition Plant *
Texarkana, Texas

Mission
Support the warfighter by loading, assembling and packing ammunition. Produce high quality explosive items in a safe and secure manner at a competitive price.

History
Construction of Lone Star Army Ammunition Plant (LSAAP) was completed in 1942 and was opened as the Lone Star Ordnance Plant. In 1945, production ceased and Lone Star was merged with Red River Ordnance Depot and was renamed Red River Arsenal. In 1950, when the international situation became critical, LSAAP was selected as one of the industrial installations to be reactivated. Day & Zimmermann was selected in May 1951 as the operating contractor and has continued as the operating contractor to date. LSAAP performs and maintains the various functions necessary to load, assemble and pack ammunition for all military services.

* *The installation was selected for closure under BRAC in 2005.*

Installation Overview
LSAAP occupies approximately 15,699 acres, including 153 miles of road, 41 miles of rail, 1,120 buildings and eight production areas. Also included are six storage areas, which include both earth- covered and above-ground magazines. As an industrial complex, LSAAP provides facilities maintenance, environmental programs, and has both a 50-acre industrial landfill and a 110-acre permitted municipal landfill.

Contact Information
Lone Star Army Ammunition Plant
ATTN: SJMLS-CO
Highway 82 West
Texarkana, TX 75505-9101
903-334-1207 (COM), 829-1207 (DSN)
www.lonestaraap.com (Web site)

Capabilities
High capacity source of small arms ammunition. The facility produces 1.5 billion rounds of 5.56mm, 7.62mm, .50 caliber and loads, assembles and packs 20mm ammunition and is the source for small/medium caliber links. The operating contract was awarded under a Firm Fixed Price with total plant discounts at the 800 thousand and one million round level. LCAAP is a Comprehensive Environmental Response, Compensation, and Liability Act (aka SuperFund) site with a performance-based contract for the Installation Restoration Program. LCAAP is a NATO Small Arms Ballistic Test Center. DoD munitions storage capacity of 44 igloos/warehouses/magazines.

Capabilities at a Glance
Complete round manufacture of small arms cartridges
Percussion and electric primer
Pyrotechnics manufacturing
Machining, fabrication and assembly
Explosive demilitarization/disposal
Indoor range from 50-200 yards
Outdoor range to 2400 yards

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Letterkenny Munitions Center
Chambersburg, Pennsylvania

Mission
Provide total munitions and missile support to the joint warfighter.

History
Letterkenny Army Depot (LEAD) was established in 1941 and began operation in 1942 as an ammunition and general supply storage depot. In 1961, LEAD's ammunition operation began supporting Army air defense missiles and Air Force air intercept missiles. The missile mission now encompasses Army, Air Force and Navy systems. In 1999, the Directorate of Ammunition Operations was renamed Letterkenny Munitions Center (LEMC) and command and control was transferred to Crane Army Ammunition Activity, Crane, Ind.

Installation Overview
LEMC is a tenant on LEAD and occupies approximately 16,000 acres of the depot's total of 17,400 acres. The facility has more than 1,100 structures including: 902 igloos, 10 standard above ground magazines, 20 supply warehouses, 16 maintenance and operations buildings, munitions sheds, administrative buildings and other various support buildings. LEMC has 128 miles of paved road, 30 miles of rail track, two major containerization pads and 26 rail docks.

Contact Information
Letterkenny Munitions Center
ATTN: SJMCN-MC
1 Overcash Avenue
Chambersburg, PA 17201-4150
717-267-8400 (COM), 570-8400 (DSN)
Edward.Averill@us.army.mil (Email)

Capabilities
LEMC is a Strategic Mobility Platform providing munitions and missile support. The depot is a center for surveillance, receipt, storage, issue, testing and minor repair for the Army Tactical Missile System and Guided Multiple Launch Rocket System missiles, Air Force and Navy Sidewinder, Sparrow, High-speed Antiradiation Missile, Joint Air-to-Surface Stand-off Missile, Advanced Medium Range Air-to-Air Missile and Penguin missiles. LEMC is a training site for Reserve ammunition units. Major capabilities also include demilitarization research and development, resource recovery and reutilization for missiles, shipping container repair, missile container repair, and renovation of conventional munitions.

Capabilities at a Glance
Ammunition surveillance
Munitions storage and shipping
Munitions maintenance
Missile maintenance
Repair and electronic testing
Non-destructive testing (very large x-ray, real time x-ray, magnetic particle, ultrasound)
Demilitarization/Disposal
Ship/Store/Outload