Anniston Army Depot

U.S. ARMY

ANNISTON ARMY DEPOT
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ANNISTON ARMY DEPOT

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VISION:

To be the best value DoD Center of Industrial and Technical Excellence for current and future weapon systems by being uniquely vital, technologically superior, cost effective and unconditionally responsive to customers worldwide.

MISSION:

Provide superior industrial expertise, products and services to support America's warfighters, allies and commercial customers.

Table of Contents

Introduction

Historical Timeline....04

Looking Ahead....05

Organizational Profile....06

Production Profile....10

Products and Services....11

Combat Vehicles....12

Small Arms....13

Artillery....14

Rail Operations....15

Major Secondary Items....16

Integrated Systems Response Center....18

Worldwide Deployment....19

Robust Capabilities

Engineering....20

Material Fabrication....21

Metal Fabrication....22

Quality Commitment....24

Chemical, Environmental and Material Laboratories....25

Safety....26

Environmental Sustainment....27

Public-Private Partnerships

Partnering with Anniston....28

Partnering through the Years....30

Foreign Military Sales....32

State-of-the-Art Facilities

Powertrain Flexible Maintenance Facility....34

Powertrain Transmission Facility....34

Small Arms Repair Facility....34

Industrial Wastewater Treatment Plant....34

Certifications and Significant Awards....36

Process Optimization....37

Career Academy....38

Community Involvement....39

Combat Vehicles
Artillery
Small Arms

Historical Timeline

March 1940	The War Department began planning construction of Anniston Ordnance Depot in Northeast Alabama
February 1941	Construction began on the first 500 ammunition storage igloos, six standard magazines, 20 warehouses and several administrative buildings
September 1941	Four employees made up the depot's workforce; increased to 4,339 by November 1942
1950s	Depot was assigned a maintenance mission for overhaul and repair of combat vehicles
1960s	Involvement with the M47 and M48 programs as well as reconditioning programs for the M19, M38, M42, M47, M56 and M59 vehicles begins
August 1962	Renamed Anniston Army Depot, an installation under jurisdiction of the Army Materiel Command
1963	The maintenance and storage of chemical munitions at ANAD began
1970s	Overhaul of the M551 Sheridan commenced as well as the overhaul and conversion of the M48A1 to the M48A5 and the M60A1 to the M60A3
1978	ANAD began work on the M1 main battle tank with the Physical Teardown/Maintenance Evaluation
1980s	Missile maintenance was added as a new mission
August 1992	ANAD's general supply mission was assumed by the Defense Logistics Agency
1993	Partnering with industry efforts initiated with the depot becoming a forerunner in Public-Private Partnerships
October 1995	Chemical stockpile transferred to the Anniston Chemical Activity under the Chemical and Biological Defense Command
October 1998	Operational control of ANAD transferred to the Tank-automotive and Armaments Command
October 1998	Anniston's ammunition mission renamed the Anniston Munitions Center under control of Blue Grass Army Depot and Joint Munitions Command
August 2001	ANAD designated as the Center of Industrial and Technical Excellence for Combat Vehicles, Artillery and Small Caliber Weapons by the Secretary of the Army
2002	Partnership with General Dynamics/General Motors on new production of Stryker vehicles began
August 2003	Safe and secure destruction of the depot's stockpile of chemical munitions began at the Anniston Chemical Disposal Facility
December 2003	ANAD and other TACOM installations fabricated Armor Survivability Kits for on HMMWVs in support of Operation Iraqi Freedom
2004/2006	Fabrication sustainment for DoD M1 systems culminates in the creation of the Joint Assault Bridge and Assault Breacher Vehicle programs
January 2006	Production on battle- and combat-damaged Stryker vehicles began
October 2006	ANAD named U.S. Army's organic maintenance depot facility for the Stryker Family of Vehicles
2007	Shingo recognition for FAASV assembly process and AGT 1500 Turbine Engine process
May 2007	ISO 9001: 2000 compliance certified throughout the depot's Nichols Industrial Complex
July 2008	First full-rate production Assault Breacher Vehicle shipped to the U.S. Marine Corps
April 2009	Production of the Army's Assault Breacher Vehicle began
August 2009	Production operations began at the Powertrain Flexible Maintenance Facility for overhaul and repair work of reciprocating diesel engines
December 2009	ANAD and General Dynamics Land Systems began a 50/50 partnership program to repair and reset Stryker vehicles
March 2011	Completion of a new industrial wastewater treatment plant
May 2011	The first Stryker variant pilot overhaul program began for the Infantry Carrier Vehicle
September 2011	The Anniston Chemical Activity completed demilitarization of chemical weapons along with the Anniston Chemical Agent Disposal Facility.
January 2012	Production operations began in the Small Arms Repair Facility, colocated with the Defense Logistics Agency's small arms storage facility
May 2012	Production operations began at the Powertrain Transmission Facility
May 2013	The Anniston Chemical Activity held its closing ceremony
May 2014	Anniston Army Depot held an induction ceremony for low-rate initial production of the M109A7 family of vehicles in partnership with BAE Systems
September 2014	Awarded the Army Award for Maintenance Excellence for accomplishments in the ABV program

Looking Ahead

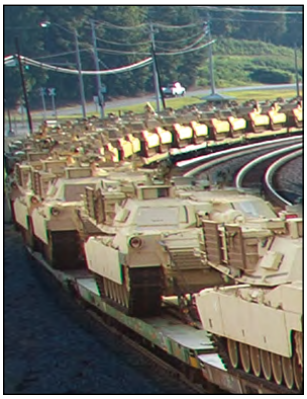
Anniston Army Depot (ANAD) is proud of its achievements and has great expectations for the future. While continuing to support vehicle systems such as the M1 Abrams tank, M88 Recovery Vehicle, Stryker, M113, M9 Armored Combat Earthmover and Assault Breacher Vehicle, ANAD looks forward to opportunities to expand its services to support new vehicles and weapon systems.

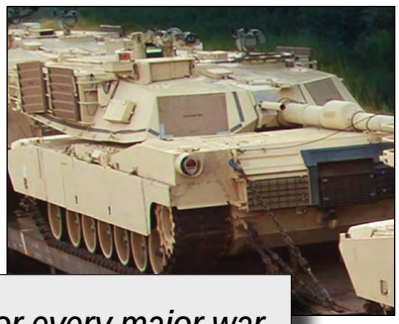
Anniston is committed to giving consideration to all business initiatives that will enhance and improve support to our troops and allies.

ANAD is equally committed to supporting the future development of Anniston and the surrounding areas. The installation continues to interact with the community, surrounding school systems, colleges, universities and technical schools to produce skilled employees to continue the depot's legacy of excellence.

ANAD will continue to play a vital role in our nation's defense mission. The pride of its people in job professionalism and productivity is the cornerstone on which the depot continues to build.

Organizational Profile





ANAD has provided vital support for every major war and contingency operation since WWII.

Nestled in the foothills of the Appalachian Mountains, Anniston Army Depot (ANAD) is a U.S. Army maintenance center and munitions storage site occupying more than 25 square miles of land.

ANAD has more than 15,000 acres of woodland; 3.5 million square feet of maintenance and production buildings; 419,029 square feet of administrative buildings; and 6.8 million square feet of storage buildings – with room to expand.

The depot is easily accessible by road, rail, air and water. Nearby, there are two airports within an eight-mile radius, a five-lane spur to I-20 and over 45 miles of railroad. The closest major seaports are the Port of Mobile and the Port of Savannah, operated by the Alabama State Port Authority and Georgia Ports Authority, respectively.

Organizational Culture

ANAD operates mission and base operations functions under TACOM Life Cycle Management Command. It serves and supports a number of customers: active duty, reserve component and joint service Soldiers and Marines; retirees; Department of Defense civilians; families of service members; contractors; and volunteers.

Major tenant organizations include Anniston Munitions Center, which receives, stores and ships conventional munitions for all branches of the U.S. military; and Defense Logistics Agency Distribution Anniston, Alabama, which is a forward distribution point responsible for receiving, storing and shipping defense material, including products produced by ANAD.

The depot houses the Dear Occupational Health Clinic to assist employees and the Museum Support Center-Anniston, a storage facility for the Army's museum system.

Workforce support services are provided through the depot's Army Community and Morale, Welfare and Recreation services.

ANAD is located near Jacksonville State University, Talladega College, Anniston Museum of Natural History, the International Motorsports Hall of Fame and Museum, the Northeast Alabama Regional Medical Center, Interstate 20, the Talladega Superspeedway and the Alabama Institute for the Deaf and Blind. Other attractions can be found within an hour's drive of the installation.

Organizational Chart

Commander
Deputy to the Commander
Depot Sergeant Major

Chief of Staff

Directorate of Production
Directorate of Production Management
Directorate of Engineering and Quality
Directorate of Material Management
Directorate of Resource Management
Logistics and Business Development Office
Legal Office
Small Business Office

Directorate of Public Works
Directorate of Risk Management
- Safety Office
Directorate of Community and Family Activities
Directorate of Emergency Services
Directorate of Information Management
Equal Employment Opportunity Office
Internal Review and Audit Compliance Office
Depot Operations Office
Strategic Communications Office
Protocol Office
Intelligence and Security Management Office

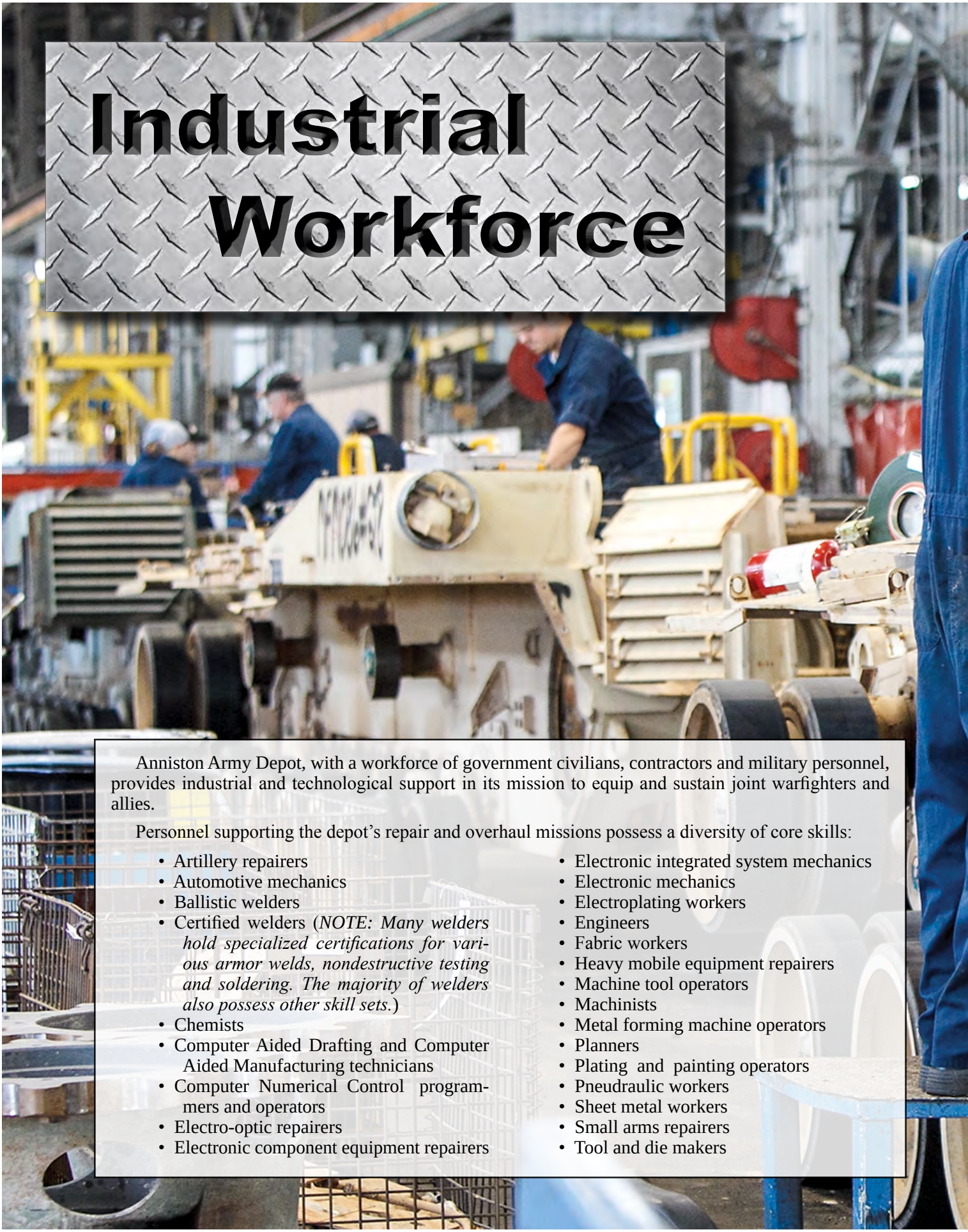
Tenants

- Anniston Munitions Center
- DLA Distribution Anniston, Alabama
- Dear Occupational Health Clinic
- DLA Disposition Services
- U.S. Army Center for Military History Clearinghouse
- U.S. Army Test, Measurement and Diagnostic Equipment Support Center
- Anniston Contracting Office
- Civilian Personnel Advisory Center

On-site Private Industry Partners

- BAE Systems
- General Dynamics Land Systems
- Honeywell

Industrial Workforce



Anniston Army Depot, with a workforce of government civilians, contractors and military personnel, provides industrial and technological support in its mission to equip and sustain joint warfighters and allies.

Personnel supporting the depot's repair and overhaul missions possess a diversity of core skills:

- Artillery repairers
- Automotive mechanics
- Ballistic welders
- Certified welders (*NOTE: Many welders hold specialized certifications for various armor welds, nondestructive testing and soldering. The majority of welders also possess other skill sets.*)
- Chemists
- Computer Aided Drafting and Computer Aided Manufacturing technicians
- Computer Numerical Control programmers and operators
- Electro-optic repairers
- Electronic component equipment repairers
- Electronic integrated system mechanics
- Electronic mechanics
- Electroplating workers
- Engineers
- Fabric workers
- Heavy mobile equipment repairers
- Machine tool operators
- Machinists
- Metal forming machine operators
- Planners
- Plating and painting operators
- Pneudraulic workers
- Sheet metal workers
- Small arms repairers
- Tool and die makers

"I want everyone on the battlefield to be safe. I'm former military and I feel like it is important for the Soldiers to do their job and be able to come back home to their families."

Milton Ragland, mechanic

"Going overseas to work directly with the troops is very rewarding."

Gary Law, welder

"I'm just happy to play a part in repairing our military vehicles."

Justin Owen, welder

Production Profile

Although Anniston Army Depot is a multi-mission installation, it is recognized for its heavy combat vehicle expertise. From the M48 tank of the 1950s to the M1 series battle tank of today, the depot has rightfully earned its reputation as the "Tank Rebuild Center of the World."

The Nichols Industrial Complex, located in the easternmost part of the depot, has both the capacity and capability to completely overhaul any combat vehicle. The overhaul process consists of completely disassembling a battle-damaged or worn vehicle, repairing or replacing any or all components and reassembling the vehicle to a like-new or better-than-new condition at a fraction of the cost of a new vehicle.

Employees assemble the driver's seat for a M1 Abrams tank.

The multi-capable and flexible workforce, equipment and facilities gives Anniston Army Depot a competitive edge in the defense industry. The technology of its industrial complex includes the integration of:

Artillery Capabilities

- Antifriction Machining
- Artillery Function Firing Range
- Borescoping Equipment
- Fabrication Machining Facility
- Gymnasticator
- Honing Facility
- Magnetic Particle Inspection Equipment
- Materials Analysis Lab
- Oil Analysis Lab
- X-ray Facility

Small Arms Capabilities

- Borescoping equipment
- Computerized serialization process equipment
- Computerized targeting and accuracy testing in an indoor firing range
- Coordinate measuring machine
- Heavy fire outdoor range
- Hurricane pressure washer for degreaser
- Liquid dye penetrant equipment
- Machine shop
- Magnetic particle inspection equipment
- Ultrasonic cleaning

Combat Vehicle Capabilities

- 1.1-mile high-speed illuminated test track that is 50 feet wide with banked turns, a slope and bump course
- 85-ton gantry crane
- Cincinnati Gilbert dual column horizontal machining center
- Firing range
- Five-axis vertical gantry machining center
- Flexible use facility with five-acres of floor space containing fourteen 20- to 60-ton bridge cranes, nine-and-a-half-inch reinforced concrete floors and a six-axis machining center
- Full vehicle x-ray capability
- Full vehicle abrasive spin blast capability able to remove paint from the entire hull of a M1 Abrams tank, saving at least seven hours of production time per vehicle
- Ingersoll gantry machining center
- Laser range
- Nine-and-a-half-inch reinforced concrete roads
- Railhead and illuminated loading dock
- Special armor facility
- Unique test facilities and equipment

Products and Services

Anniston Army Depot (ANAD) is most often recognized for its heavy combat vehicle and small arms expertise, but it encompasses multiple missions. ANAD is the Center of Industrial and Technical Excellence (CITE) for ground combat vehicles (minus Bradley), assault bridging and small arms as well as towed and self-propelled artillery systems. Additionally, the installation supports the world's largest and most technologically advanced land combat vehicle in the Department of Defense (DoD) inventory – the M1 Abrams tank. A component of the depot, the Defense NonTactical Generator and Rail Equipment Center is the primary locomotive facility for the overhaul and repair of locomotives for the Department of Defense.

Throughout the last decade, ANAD has built a reputation for pursuing partnerships with local, regional and global public and private entities to serve DoD missions.

The workforce provides worldwide maintenance of combat equipment through rapid deployment of civilian repairmen and supports the Department of Homeland Security, the Army Reserve, Army National Guard and U.S. allies with on-depot as well as on-site repairs.

> ***"Since construction of Anniston Army Depot in 1941, the depot has been the Army's multi-mission depot leader, providing munitions, combat vehicles and components, artillery, small arms and bridging systems to the U.S. warfighter and the nation's allies."***
>
> ***Nathan Hill***
> *ANAD civilian executive assistant from 1981-1999*

Employees perform final checks on a Stryker vehicle.

Combat Vehicles

M1 Family of Vehicles
- M1IP
- M1A1
- M1A1 SA
- M1A2
- M1A2 SEP
- Assault Breacher Vehicle
- Joint Assault Bridge
- Wolverine

M9 Armored Combat Earthmover

M88 Family of Vehicles
- M88A1
- M88A2 (Hercules)

Stryker Family of Vehicles
- M1126 Infantry Carrier Vehicle
- M1128 Mobile Gun System
- M1134 Anti-Tank Guided Missile
- M1135 Nuclear, Biological, Chemical Reconnaissance Vehicle
- M1133 Medical Evacuation Vehicle
- M1132 Engineer Squad Vehicle
- M1131 Fire Support Vehicle
- M1129 Mortar Carrier
- M1130 Command Vehicle
- M1127 Reconnaissance Vehicle

M60A1/M60A2 Armored Vehicle-Launched Bridge

M992A2 Field Artillery Ammunition Support Vehicle

M113 Family of Vehicles
- M113
- M113 A2
- M113 A3
- M548A1/A3 Cargo Carrier
- M577A2/A3 Comm. Post Carrier
- M1064/A3 Mortar Carrier
- M1068 Standard Integrated Command Post Carrier
- Opposing Force Surrogate Vehicle

Armored Vehicle Launched Bridge

On the battlefield, where timeliness is critical, Soldiers need an efficient means to span areas of water or chasms where no bridges exist. The Army's Armored Vehicle Launched Bridge (AVLB) meets this need.

The AVLB is comprised of an M60 tank chassis, which is used as a base, and bridge panels that extend more than 60 feet across rivers and other obstacles. The vehicle is built at Anniston Army Depot in 60- and 70-ton designs.

The restoration process begins at disassembly. Each part is examined for defects and sent to support shops through the depot's Nichols Industrial Complex to be cleaned, and if needed, repaired.

After sandblasting, components go through an ultrasound testing bay to check the rivets for cracking. Each rivet is coated with an ultrasound-conductive gel and tested for structural integrity. Rivets failing the test are replaced and the bridge panel is sent to a repair bay where any remaining defects are mended.

Components are then sent to a plumbing bay where hydraulic systems used to extend and retract the bridge panels are tested and repaired. Once all panel components are returned to proper working condition, they are painted, reassembled and attached to an M60 chassis, ready for deployment.

Assault Breacher Vehicle

Anniston Army Depot (ANAD) is committed to supporting other military services whenever possible. The Assault Breacher Vehicle (ABV) program reflects such commitment.

In 2008, the first ABV completed under full-rate production was delivered to the U.S. Marine Corps. ABVs are also produced for Army and National Guard units.

ANAD manufactures approximately 1,500 parts specifically for the ABV, which was created through a collaborative Army-Marine Corps partnership.

Built on a M1 Abrams chassis, the ABV is a conversion vehicle - taking the power and strength of the M1 hull and adding a specially designed turret system and plow. Anniston fabricates each ABV turret, which is mounted on the converted Abrams-ABV chassis. The components that make up the Abrams hull are overhauled and the ABV is given its mine plow.

As the depot completes each production run of vehicles, the ABVs are inspected to ensure the ABV-specific parts and the Abrams parts are built or overhauled to specifications and all components work well together. ANAD's customer support does not end once the vehicles are delivered to the customer. Field support representatives deploy to provide operational training. Our ultimate goal is mission readiness of the vehicle for the troops.

Small Arms

Whether it is rifles, pistols, or weapon-related hardware, Anniston Army Depot's (ANAD) Small Arms Repair Facility employees possess the skills and equipment necessary to satisfy all of the customer's needs.

ANAD is the primary Small Arms Rebuild Center for the Department of Defense and overhauls weapons for all branches of the Armed Forces. The rebuild criteria used in the overhaul processes parallel and often exceed those of the original manufacturer.

ANAD's experience ranges from small component repair to complete weapon disassembly, repair, modification, conversion, reclamation, refinishing, reassembly, functional testing and target accuracy testing. Our small arms journeymen employ the latest technology to provide only the safest and most reliable weapons to our customer, the warfighter.

- M1 Series Rifle
- M2 Series Machine Gun
- MK19 40mm Machine Gun
- M9 Pistol
- M4 Series Rifle
- M16 Series Rifle
- M60 Series Machine Gun
- M134 Mini Gun
- M240 Series Machine Gun
- M249 Squad Automatic Weapon
- M1911 Pistol
- M230 Chain Gun
- M14 Enhanced Battle Rifle
- Grenade Launchers
- Gun Mounts
- Mortars
- Shotguns
- Sniper Rifles

An Anniston Army Depot small arms repairer gages the lower receiver for a weapon in the installation's Small Arms Repair Facility.

Artillery

- M198 Towed Howitzer
- M119 Towed Howitzer
- M102 Towed Howitzer
- M777A2 Lightweight Howitzer
- M109A6 Paladin Self-Propelled Howitzer
- M992A2 Field Artillery Ammunition Support Vehicle
- M109A7 Self-Propelled Howitzer
- M992A3 Carrier-Ammunition Tracked Vehicle

Anniston Army Depot (ANAD) is the Army's main rebuild center for towed and self-propelled howitzer weapon systems. The rebuild criteria used in its processes parallel, and often exceed, those of the original manufacturer.

Artillery capabilities range from small component repair to complete weapon disassembly, repair, modification, conversion, reclamation, refinishing, reassembly and functional testing. The artillery journeymen employ the latest technology to provide only the safest and most reliable weapons to the customer, the Soldier in the field.

Towed Howitzers

The depot is the Army's Towed Howitzer Overhaul Facility for the M198 Medium Towed Howitzer. As such, ANAD has overhauled M198 weapons and secondary items for the M198 stock system for the Army, U.S. Marine Corps, National Guard and Foreign Military Sales customers since 1997.

In fiscal year 2011, the depot completed the certification process to overhaul the M119 Howitzer and all of its related components.

In March 2011, ANAD and BAE Systems partnered to provide reset maintenance on the fleet of M777A2 lightweight howitzers. This successful partnership was the catalyst for success in ANAD's August 2012 pilot overhaul of the M777A2 as well as subsequent reset and overhaul operations.

Self-Propelled Howitzers and Ammunition Carriers

As the result of a 1995 Base Realignment and Closure recommendation, ANAD inherited the M109 family of vehicles and has seen the vehicle through many upgrades and improvements.

The depot became the Center of Industrial and Technical Excellence for the M109A6 Paladin 155mm self-propelled howitzer and its ammunition carrier, the M992A2 Field Artillery Ammunition Support Vehicle.

Today, ANAD is the Army's sole certified installation for performing overhaul and conversions on the Paladin.

In 2008, ANAD and BAE Systems began a partnership to produce the M109A7 and M99A3 as upgrades to the M109A6 and M992A2 FAASV systems.

Low-rate initial production on the M109A7 began in May 2014. The ANAD workforce disassembles Paladins and FAASVs to provide cab structures and overhauls gun and cannon assemblies and other vehicle components. In accordance with the scope of work, those components ultimately arrive at BAE's Elgin, Okla., facility to be installed on an entirely new chassis for the M109A7.

A M777 Lightweight Howitzer

Rail Operations

Since 1942, the Defense Non-Tactical Generator and Rail Equipment Center, better known as DGRC, has been the Department of Defense's (DoD) source of expertise for support of military rail and non-tactical generators. Although DGRC is physically housed at Hill Air Force Base in northern Utah, Anniston Army Depot directs its operations.

DGRC is the only DoD facility of its kind – capable of providing maintenance, overhaul and remanufacturing of rail equipment – and it is the only DoD facility capable of providing overhaul and modification of large non-tactical generators.

DGRC rebuilds large generator systems ranging from 500 kilowatts to 10 megawatts. Both stationary and mobile, these generator systems can provide electrical power for entire military installations and other government operations. At the repair facility, the equipment undergoes comprehensive disassembly, cleaning, blasting, machining, reassembly, painting and final testing.

The repair center also provides on-site support at 38 bases, depots and arsenals throughout the U.S. This support includes inspection and repair of train engines and parts as well as recommendations on which locomotives should be overhauled. Technical support for emergency calls from all military installations is provided 24 hours a day, seven days a week.

The Defense Generator and Rail Equipment Center, located on Hill Air Force Base in Utah, is part of ANAD's operations.

Major Secondary Items

- M1 Turbine Engine
- M1 Forward Module
- M1 Rear Module
- M1 Accessory Gear Box
- M1 Reduction Gear Box
- 1790 Engine
- 6V53T Engine
- Diesel In-Line 6-Cylinder Engine
- V8 903 Cummins
- 8V71 Engine
- M1 X1100 Transmission
- XT-1410 Transmission
- CD-850 Transmission
- M113 Transmission
- M9 ACE Transmission
- Final Drives
- Transfer Cases
- Differentials
- Wheel Drives
- Tires/Wheels
- Brakes
- Auxillary Power Units
- Fire Extinguisher Systems
- Hydraulic Components
- Fire Control Components
- Electronic Components
- Wiring Harnesses/Cables

Reciprocating Engines

Construction of the state-of-the-art Powertrain Flexible Maintenance Facility was completed in July 2009.

Based on Lean manufacturing principles and green initiatives, this facility was built with flexibility in mind. It is comprised of nine-and-one-half-inch thick concrete floors, five-ton bridge cranes, humidity controlled manufacturing environment, electric material movers, portable work stations and more.

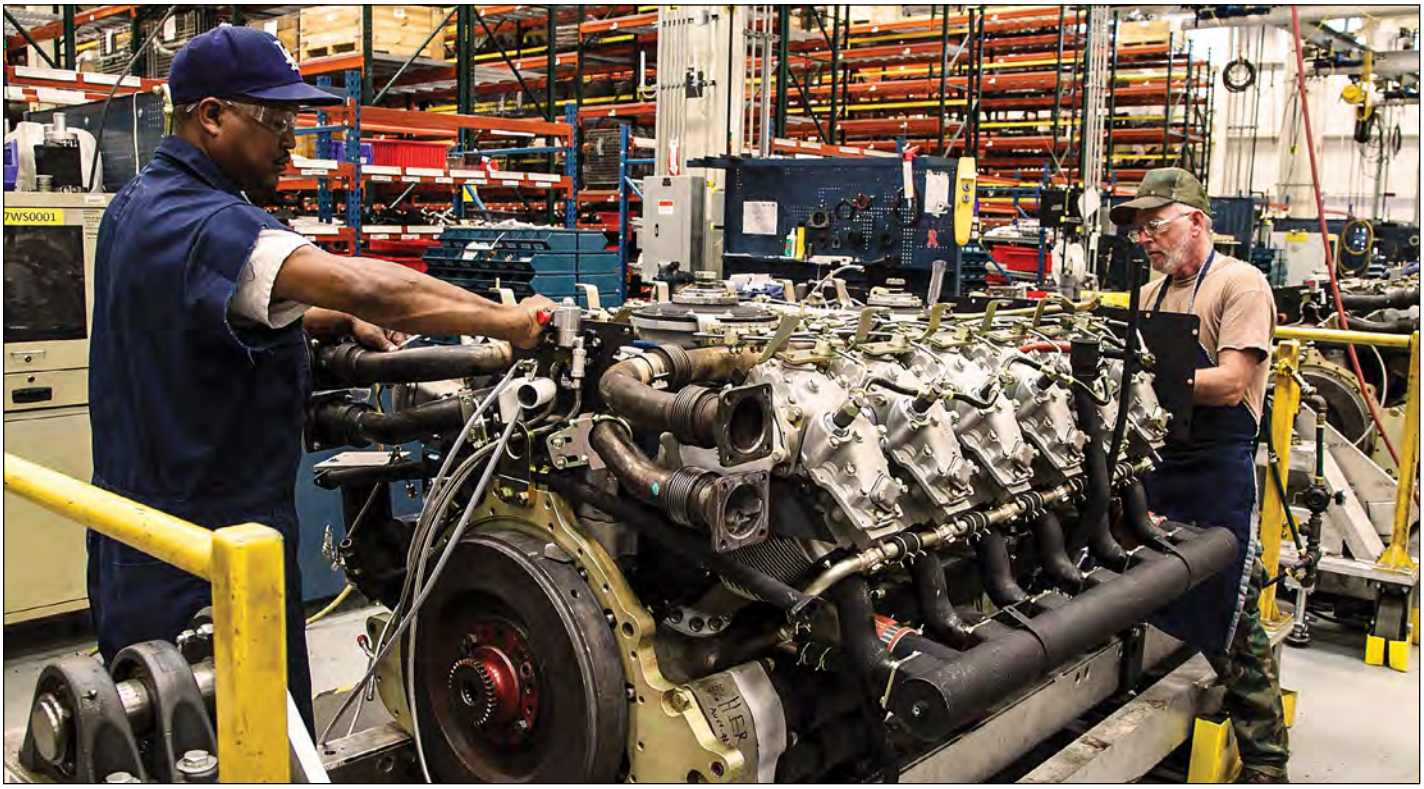
Occupying 142,500 square feet of prime engine production space, the facility brings processes previously performed at various locations across the installation under one roof. Within the modern facility, employees repair, reclaim, modify and overhaul some of the world's largest, most sophisticated reciprocating engines.

Ranging from a six-cylinder turbocharged engine that generates up to 275 hp to a powerful 12-V that produces as much as 1,050 hp, these engines are capable of powering vehicles weighing up to 60 tons.

Reciprocating engines are critical to the operation of the Department of Defense ground combat legacy vehicles: M113, M88, Paladin, AVLB, FAASV and M9ACE.

Each engine – whether rebuilt, repaired or modified – is cycled through one of 13 dynamometer test cells by qualified technicians. Tested and calibrated to ensure maximum performance, they all meet rigorous standards before being placed in the hands of our valued customers.

The consumer base for these hearty engines extends far beyond the depot's support to U.S. military services. By repairing and overhauling engines for foreign military allies, Anniston's reputation has been positively sounded abroad.



Employees reassemble a 1790-8CR Hercules Engine in Anniston Army Depot's Powertrain Flexible Maintenance Facility.

Turbine Engines

Within the walls of the 110,000-square-foot Turbine Engine Facility, employees inspect, repair, reclaim and overhaul complete turbine engines as well as their associated components. The highly skilled workforce is equipped with the latest technological equipment.

- Computerized dynamometer test facility
- Computerized non-destructive testing equipment
- Electro-mechanical fuel system test facility
- Laser balancing equipment
- Laser inspection equipment
- Laser welding
- Oil pump test equipment
- Recuperator repair and test facility
- Vacuum brazing repair and test facility

Proficiency and talent best describe Anniston's workforce. The AGT1500 Turbine Engine Facility for the M1 Abrams exemplifies those attributes. The tireless dedication and priceless skills of those who work in this facility enable the depot achieving to be a leader in turbine engine repair. Anniston Army Depot (ANAD) provides M1 Abrams engines worldwide and the track record speaks for itself.

- 80 percent cost savings for rebuild
- 26 percent reduction in engine repair cycle time
- Contractor performance certification
- ISO 9002 certified
- Personnel certifications
- Vendor qualification
- Shingo Bronze medallion

Much of the workforce's expertise has been gained through initiatives to extend and improve the durability and life of these engines.

- Durability testing
- Endurance testing
- Engine failure investigation and analysis
- On-site assistance
- Research and development for component reclamation
- Condition-based overhaul
- Total Integrated Engine Revitalization (TIGER) program

The current customer base for ANAD turbine engines includes the Army, Marine Corps, National Guard, Reserve Components, Honeywell and General Dynamics; and a continuous interface is maintained through regular customer site visits within the continental U.S. and around the world.

A mechanic assembles part of an AGT 1500 turbine engine.

Entrepreneurial

The M160 Tele-Operated Mine Flail is one of many programs with the potential to bring new workload to Anniston Army Depot.

The Integrated Systems Response Center (ISRC) is a contract vehicle between Anniston Army Depot (ANAD) and Redstone Defense Systems (RDS) in Huntsville, Ala. The center leverages each entity's respective areas of expertise. The contract expands ANAD's capabilities, capacity and quality and allows the depot to take on work previously turned down or not pursued.

Whereas ANAD is known for its manufacturing and fabrication expertise, RDS' strengths include program management, supply chain management, engineering support and integrated logistics support. RDS brings a strong base of suppliers, providing access to over 1,500 defense contractors and service vendors to the installation and its customers. With ISRC, ANAD is able to provide services in a similar capacity to an original equipment manufacturer.

ISRC is a proven business model that gives Army Program Management Offices and other ANAD customers a new alternative to satisfy their contract and equipment requirements.

Original Equipment Manufacturer disciplines now part of ANAD's portfolio include:

- Comprehensive program management
- Technical and analytical support
- Full spectrum engineering including systems, software, mechanical and electrical
- Design, prototyping, testing and quality, expanded fabrication and manufacturing, assembly integration configuration management, and technical data management
- Full spectrum Integrated Logistics Services (ILS) – analysis, provisioning, technical writing/illustration and training support
- Logistics support – warehousing, inventory management, inventory control points and equipment fielding
- Supply chain management and purchasing power

Notable ISRC efforts to-date include the M160 Tele-Operated Mine Flail, the U.S. Marine Corps Assault Breacher Vehicle Stabilized Commander's Weapons Stations, the Stryker Back-Up Steering Pump and the TALON IV Small Robot.

Worldwide Deployment

With the local footprint and strategic capabilities – air, road, rail and sea – to support U.S. warfighters and allies, Anniston Army Depot's commitment to providing the best possible support to the warfighter extends well beyond its base location in Anniston, Ala.

Support and services are extended on-site to military units and other locations throughout the U.S. and beyond through various types of field missions.

Small Arms Readiness Evaluation Teams travel to unit sites to inspect and repair small caliber weapons pre- and post-deployment, bringing the weapons to fully mission capable status.

Fielding and rapid repair support teams perform vehicle repair and handoff for M1, M88, ABV and Paladin vehicles.

Forward repair activity teams perform a range of services including, engine, transmission and generator repair; welding and fabrication; and other functions to maintain operational equipment.

Mobile Parts Hospitals, self-contained machine shops with the capability to build small parts, are set up to support the warfighter in the field.

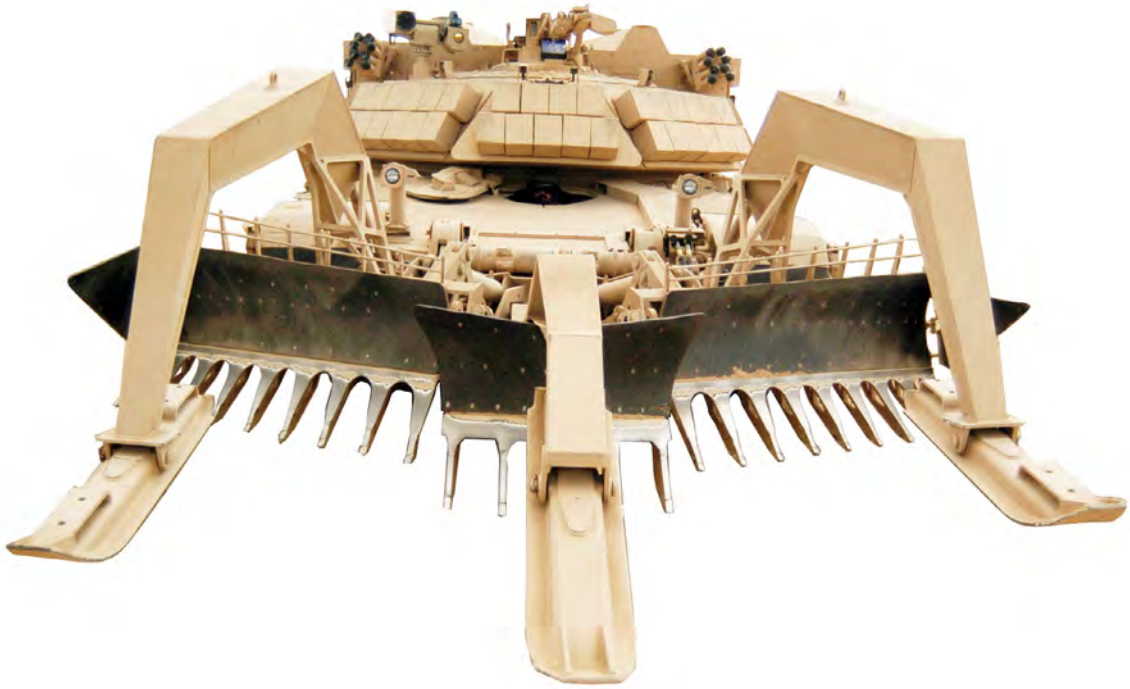
Total Integrated Engine Revitalization field support representatives travel to various locations to perform on-site AGT1500 turbine engine repairs.

Field support teams support combat operations in Iraq, Afghanistan, Kuwait and other locations worldwide.

Repairs to a diesel engine are made at the depot's Forward Repair Activity in Southwest Asia.

Depot employees work on an engine at ANAD's Forward Repair Activity in Southwest Asia.

Engineering



The Assault Breacher Vehicle is the result of a design and engineering collaboration between ANAD and the U.S. Marine Corps.

Anniston Army Depot's engineers provide manufacturing and assembly support for research and development programs within the Department of Defense. Support to the customer includes design, engineering change proposal submission and review, prototype fabrication, testing, assembly and operational evaluation, tooling and fixture design, tolerance evaluation and process optimization.

Over the years, research and development projects supported by depot engineers have included the Joint Assault Bridge, Assault Breacher Vehicle, a retrofit of a tank thermal sight and driver's night viewers, a Soviet vehicle simulator for target and training application (Opposing Forces Surrogate Vehicle), armor system fabrication, mine roller mounting kits, auto-loader installation, complete turret fabrication and armor penetration devices as well as various classified projects.

Anniston's engineering disciplines work together to achieve innovative solutions to complex problems. These solutions are a way of life in a manufacturing facility with such diverse missions and capabilities. The technical staff continues to refine the expertise necessary to meet the specific needs of valued customers.

- Composition analysis
- Computer-aided design and manufacturing
- Equipment specifications
- Failure analysis
- Industrial cleaning and finishing
- Laboratory testing
- Mechanical property testing
- Microscopic analysis
- Non-destructive testing
- Process certification
- Process flows and shop layouts
- Special skills certification program (welding, non-destructive testing and soldering)

ANAD has a dynamic technical staff able to meet the challenge of aggressive overhaul, manufacturing, design and testing programs.

- Chemical engineers
- Chemists
- Electronic engineers
- Engineering technicians
- Environmental engineers
- Industrial engineers
- Materials engineers
- Mechanical engineers
- Physical science technicians

Materials Fabrication

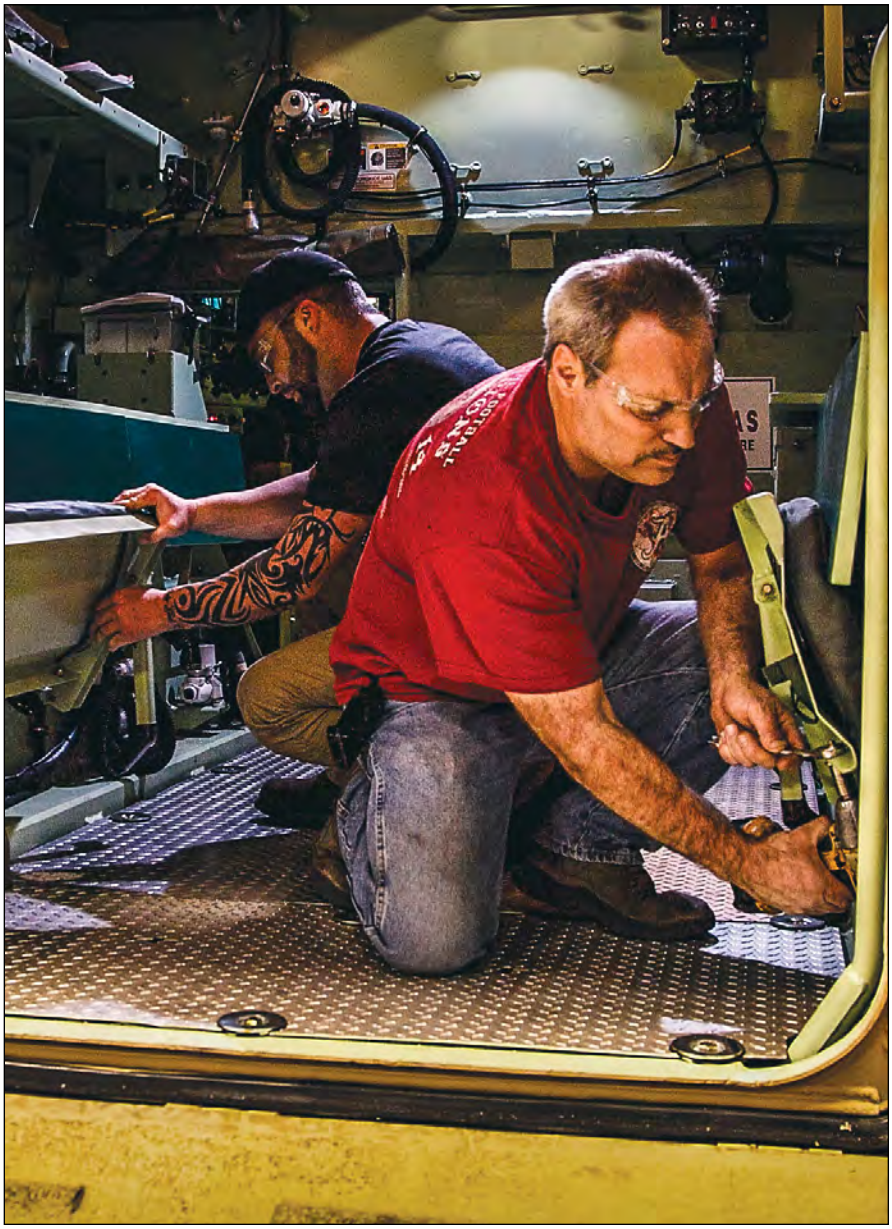
By organizational title alone, one might think Anniston Army Depot's Upholstery Shop is limited to sewing and repairing various fabrics, but the capabilities extend far beyond upholstery repair.

- Chemical, biological and radiological particulate equipment repair
- Glass cutting
- Hydraulic hose fabrication
- Data plate fabrication
- Rubber coating application
- Gasket fabrication
- Toolmaking
- Unique identification markers

Precision toolmaking capabilities permit Anniston Army Depot to fabricate gaskets, grommets, pads, jigs and fixtures from a variety of materials to include nylon, Teflon, cork, rubber, steel, aluminum and phenolics.

The depot also fabricates low, medium or high pressure industrial hoses ranging in size from 3/16 to 2 inches in diameter.

Upholstered items, such as seats, straps, cushions, tarpaulins and ballistic shields used in repair, reclamation and manufacturing efforts are crafted from Naugahyde, ballistic nylon, vinyl nylon, leather, canvas and a variety of other materials. Additionally, windshields, window glass and other glasses can be custom cut from both tempered and non-tempered glass.



Employees install benches, seats and seals in a M113 personnel carrier.

The rubber coating process applies either a hot or cold rubber coating to a host of items, including headrests and optical eye pieces. In addition, color guarding can be applied to various fabrics.

The chemical, biological and radiological unit, another aspect of the Upholstery Shop, tests and repairs filtration systems used in combat vehicles.

ANAD's Photo Data Plate Lab is capable of creating practically any decal or data plate on any material. From silk screening on vinyl or metal photo processing to data plate engraving, this depot can do it.

- Diffusion transfer copying
- Metal photo processing
- Metallography lithographic processing
- Photo etching
- Silk-screening

Metal Fabrication

For many years, when seemingly unsolvable design, fabrication, manufacturing or reclamation problems arose, the rallying cry was "Let Anniston do it!" Each time, without exception, Anniston Army Depot (ANAD) did.

ANAD has proven itself time and time again by providing low cost, one-of-a-kind orders; accurate cost and delivery estimates; rapid diversification of product lines; immediate status of orders; and access to critical information.

Its greatest asset is its highly skilled workforce.

Within more than 100,000 square feet of manufacturing and fabrication facilities, these highly skilled craftsmen are equipped with state-of-the-industry tools and equipment.

- CNC 4-axis lathe (29 x 60-inch capacity)
- CNC 6-axis horizontal boring mills (70 x 9 x 12-foot capacity)
- CNC abrasive water jet cutting machines
- CNC and conventional grinders (cylindrical, center-less, surface)
- CNC gantry machining center (100-hp spindle, 60 x 20 x 10-foot, 30-ton capacity)
- CNC laser (120 x 244 x 1-inch capacity)
- CNC milling machinery (both vertical and 5-axis horizontal, 72 x 48 x 36-inch capacity, pallet changers, 5-ton capacity)
- CNC oxy-fuel and plasma cutting machines
- CNC punch and laser cutting machines
- CNC robot and electron beam welding machines
- CNC turning machinery (20-inch diameter x 44-inch length)
- CNC vertical milling machine (280 x 36 x 36-inch capacity)
- CNC water jet (268 x 60 x 6-inch capacity)
- Punch press and brakes
- Heat treating (both vacuum and air)
- High-velocity oxy-fuel coating spray and flame spray coating
- Laser-engineered net shaping (powder metal deposition)
- Plating (chromium, cadmium, zinc, manganese phosphate, nickel, oxide, silver and more)
- Precision plasma cutting machine

The depot's high-tech manufacturing is also supported by the latest technological concepts and control systems to include metallurgical and chemical analysis, metrology and nondestructive testing.

ANAD is on the leading edge of technology with two high-tech manufacturing capabilities – Flexible Computer Integrated Manufacturing and Rapid Acquisition of Manufactured Parts (FCIM RAMP). These computer systems serve as models in the defense industry. FCIM RAMP - integrated, not simply connected - permits systematic utilization of state-of-the-market hardware, software and communication.

FCIM RAMP forms an extremely responsive and powerful enterprise. It focuses on "above-the-shop floor" activities by integrating the engineering, production planning, tracking, monitoring and fabrication functions through multilayered computer architecture. This system allows Anniston to produce difficult-to-procure items and one-of-a-kind, normally high cost, products at a reduction in price.

FCIM RAMP is a world-class capability necessary in a global marketplace where agile manufacturing is a prerequisite.

FCIM RAMP Features:

- Computer controlled information with common data accessible by all elements
- Configurable System Controller and application control interfaces
- Connectivity to the machine controllers
- Electronic textual and graphical instructions on the floor
- Generative Process Planning Environment to manufacture parts using Standard for the Exchange of Product (STEP) model data ISO 10303
- Generic site interface module, tailored to the interface requirements within the depot and other locations
- Multifunction process planning, including variant techniques
- Real-time system control and status update, from order entry through product delivery
- User-friendly, man-to-machine interfaces

The depot's five-axis vertical machining center is capable of cutting large items, such as turrets and small combat vehicles.

Quality Commitment

Anniston Army Depot (ANAD) maintains a worldwide reputation for producing quality products with the goal to remain number one. Producing quality products and services on time and at competitive prices has been the depot's business model since the beginning. Through its world-class quality program, trust by its customers is maintained.

The depot's quality program, based on ISO 9001 principles, is structured for customer satisfaction through process improvement. All production operations within ANAD are currently certified to the ISO 9001:2008 quality standard.

Quality functions are performed under the Directorate of Engineering and Quality (DEQ). In addition to engineering, this directorate is responsible for quality methods and standards.

The primary focus of DEQ is customer expectations. Customers expect a reliable quality product, delivered on time and within cost. The depot consistently meets these expectations.

Within Anniston's production operations, everyone is responsible for the quality of the products produced and for meeting both internal and external customer expectations. They take whatever action is necessary to provide their customers with the best product at the best price.

Organizational Responsibilities

Production Organization:
- Corrective and preventive action
- Defect data reporting and analysis
- Product acceptance
- Product inspection
- Worker accountability

Quality Assurance Organization:
- Customer support program
- Methods and standards
- Product verification (Sampling)
- Quality audit program

Quality Objectives:
- Increase customer satisfaction
- Increase product conformity
- Deliver products on time
- Deliver products within cost

Laboratory Services

Anniston Army Depot's chemical, material and environmental laboratories routinely meet the challenge of changing technology by providing laboratory analyses on all current manufacturing processes.

The Environmental Lab is staffed with highly qualified personnel and modern equipment.

Employees test, monitor and analyze the water quality of influent and effluent wastewater and treated sewage along with stormwater and groundwater.

These tests and analyses support the National Pollutant Discharge Elimination System permit and the Resource Conservation and Recovery Act permit issued by the Alabama Department of Environmental Management.

Additionally, the Environmental Lab supports the production facility and treatment plants by performing analysis on process samples.

The Materials Laboratory provides vital support to Army equipment life cycle management processes and personnel from conception to failure analysis.

It is a resource used by engineering, production, quality, procurement and safety personnel in product development, manufacturing and reclamation processes, material properties, conformance to drawings and standards, procurement of materials, failure analysis and problem solving.

The lab supports both destructive and nondestructive testing capabilities.

The Chemical Lab is capable of accomplishing sophisticated chemical testing and consulting services in support of a wide range of industrial processes. Capabilities include physical, chemical and functional testing of paints, plating and coatings as well as a host of other industrial processes, such as mechanical and chemical cleaning.

Another specialty is the oil analysis lab, which is part of the Army Oil Analysis Program and the Department of Defense Condition-Based Maintenance effort. This program allows Anniston Army Depot to evaluate samples from enrolled oil-wetted components. It serves as a maintenance diagnostic tool in detecting failures and conserves oil and repair parts.

The oil analysis lab is certified through the Joint Oil Analysis Program.

Oil Analysis Equipment

- Oil Analysis Standard Interservice System (OASIS) Internet-based operating system
- Automated high speed viscometer
- Atomic emission spectrometer
- Fourier transform infrared spectrometer
- Fuel dilution meter
- Karl Fisher coulometer
- Crackle test
- Pall water sensors
- LaserNet fines
- Ferrography
- Optical particle counter
- Total acid number
- Total base number
- Blotter and patch testing
- Open cup flash point

Safety

Safety is an integral part of the core business at Anniston Army Depot. Focus-based educational programs are in place to train the entire workforce in new and refresher courses. While most training is conducted live, the depot's Morning Show, an internal newscast, hosts guests on a wide variety of topics along with a safety training video. The show is broadcast on the local area network. Training topics are broad and include ergonomics, fire safety, electrical safety and behavior modification.

Safety has also been integrated into the Lean and Six Sigma efforts. Facilitators are trained in the use of risk management tools and each team is challenged to identify and improve three safety issues along with three production issues during all improvement events.

ANAD is particularly proud to be the first in North America to have attained fence-to-fence certification to the OHSAS 18001:2007 standard. The goal is continuous improvement, and statistics show the depot is meeting the goal. In spite of challenges inherent with a sustained high operational tempo and the introduction of new work processes, safety remains ANAD's top priority. The overall performance of the entire workforce earned Anniston Army Depot the Secretary of Army/Chief of Staff Industrial Safety Award in 2010.

TARGET ZERO
Zero Accidents
Zero Injuries

Target Zero

In 2013, Anniston Army Depot instituted a Target Zero initiative to improve the depot's safety program and to decrease the number of accidents and injuries around the installation. A group comprised of leaders and employees from the Directorate of Risk Management, Industrial Hygiene, Fire and Emergency Services and the Directorate of Public Works visit shop or office areas to inspect for violations in safety, environmental compliance, fire prevention and other issues potentially detracting from a healthy work environment.

Noted issues are prioritized, assigned to the proper organization for resolution and tracked through follow-up meetings.

Target Zero is the beginning of a culture change and is a step toward ANAD's goal of zero accidents and injuries.

Ergonomics Program

In 2013, ANAD revitalized its Ergonomic Program to limit the potential for Work-related MusculoSkeletal Disorders (WMSD). ANAD strives to recognize potential WMSD risks factors within the workplace and take practicable steps to eliminate or control these risk factors in a timely and efficient manner.

The goals of the ergonomic program are to:

a. Prevent or control injuries and illnesses by eliminating or reducing worker exposure to WMSD risk factors.

b. Reduce the potential for fatigue, error and unsafe acts by adapting the job and workplace to the worker's capabilities and limitations so that employees may safely perform the essential functions of their positions.

c. Increase the overall productivity of the workforce.

d. Reduce workers' compensation claims and associated costs.

Environmental Sustainment

Anniston Army Depot recognizes the importance of its role as an environmental steward. The depot is strongly committed to long-term sustainability, improved mission performance and environmental protection using the following core principles:

- Compliance with environmental laws and regulations
- Conservation of natural and cultural resources
- Preservation of resources through pollution prevention and affirmative procurement
- Restoration of affected natural resources

Risk Management consists of the following functions: Environmental Compliance; Environmental Management and Restoration; Chemical, Oil, Materials and Environmental Labs; and a Hazardous Waste Storage Facility.

The Tennessee Yellow-eyed Grass (xyris tennesseensis) is protected at Anniston Army Depot. The perennial grass, whose habitat is stringy meadows and the banks of small streams, usually occurs in clumps, which produce small flowers with yellow petals in August and September. The flowering stalks rise above the leaf blades and may grow 2.5 - 3.3 feet tall.

An environmental protection clerk tests the pH of water at Anniston Army Depot.

A public private partnership is an agreement between an organic maintenance facility and one or more private industries or other entities to perform work or utilize facilities and equipment.

Public-Private Partnerships

As an Army and Department of Defense leader in Public-Private Partnership efforts since 1993, Anniston Army Depot has established more than 80 different partnerships with industry leaders, utilizing agreements such as direct sales, workshare and facility use.

What is partnering?

- Direct Sales – This type of partnering encompasses the use of depot land, facilities, equipment and/or employees to perform work or produce goods for the private sector. The depot works as a sub-contractor to, and is funded by, the private sector organization.
- Workshare – A joint scope of work and coproduction arrangements utilizing depot and private sector facilities and/or employees is typical of this form of partnership. The depot is funded through normal government sources.
- Facility Use – Private sector organizations can use under-utilized depot land, equipment and/or facilities to perform work for the military. The depot is funded through the private sector or government sources.

What partnering is not:

- Contracts where the private sector provides support and/or services to the depot at a cost to the depot. These are normally referred to as Federal Acquisition Regulation contracts.

Why partner with Anniston?

- Our experience has proven that these arrangements are win-win opportunities, not only for industry and the depot, but also for the warfighters by capitalizing on the strengths and efficiencies of both sectors.
- Examples of partnership programs include General Dynamics Land Systems (Stryker, M1 vehicles and components), BAE Systems (M113, M88, Paladin/FAASV, PIM), Honeywell (M1 Turbine Engines, Egyptian Turbine Engines), Raytheon (USMC M1 and M88 components), ITT (APS5, Kuwait) and CAE International (M1 Turret Trainers).
- A highly skilled and diversified workforce, updated facilities and equipment, and competitive prices, coupled with our industry knowledge, have established Anniston Army Depot as a prime candidate for teaming and partnership arrangements with both defense and non-defense related items. ANAD seeks and encourages all opportunities to partner with industry, especially new, unique and even commercial opportunities. A full-time staff is dedicated solely to marketing and developing these arrangements with local, regional and global public and private businesses.

For more partnering information, visit our website: www.anad.army.mil and select the Public Private Partnership link under the Business header or call (256) 235-6512.

General Dynamics Land Systems and Anniston Army Depot have a 50/50 workshare partnership for the reset of Stryker vehicles.

Partnering through the years

Before Anniston Army Depot (ANAD) ventured into public-private partnering, the defense industry was largely comprised of public agencies, original equipment manufacturers and service contractors who viewed one another strictly as competitors. Learning to leverage the respective areas of expertise, strengths and resources has resulted in opportunities to partner and provide improved support to U.S. warfighters and allies. These opportunities continue to evolve into new programs and improved weapon systems and equipment. This is evident in Anniston's relationship with four private partners – Honeywell, BAE Systems, Raytheon and General Dynamics Land Systems (GDLS).

Public-private partnering strengthens the industrial defense base by capitalizing on the strength of the commercial and organic sectors in order to provide the best value products for the warfighters. As a proven, experienced and trusted partner, ANAD has generated more than $2.78 billion in revenue through the successful execution of over 133 programs in the past 21 years.

GENERAL DYNAMICS
Land Systems

Anniston Army Depot and GDLS became partners in 1993. This was one of the first Public-Private Partnerships in the Department of Defense and served as a proof of principle for the program.

The partnership began as a means to upgrade the M1 main battle tank to the technologically improved M1A2. In the mid-90s, the Abrams Integrated Management for the 21st Century (AIM XXI) began – a partnership to rebuild and maintain the M1A1 and the first upgrade of the M1.

The ANAD-GDLS partnership has continued to evolve to meet the Army's changing requirements. M1A2 System Enhancement Programs (SEP), versions 1 and 2, were implemented to enhance the digital command capabilities of the M1 and improve the tank's lethality.

In 2002, ANAD and GDLS forged a partnership to build the Stryker on-site at Anniston. GDLS employees built the vehicle and ANAD performed miscellaneous support services and painted the vehicles. As the vehicles were fielded and returned from battle, the partnership evolved into Stryker Battle-Damage (BDR) and Combat-Damage (CDR) programs, dramatically increasing Anniston's Stryker workload.

BDR and CDR vehicles were inspected to determine which systems and portions of the vehicle needed new or refurbished parts. ANAD performed the repairs while GDLS supplied new parts and components. The partnership expanded again in 2009 with the Stryker Reset Program, in which ANAD and GDLS employees worked side-by-side to repair, maintain and upgrade the Army's Stryker brigades.

Since 2010, ANAD and GDLS have expanded the partnership to support foreign customers such as the Iraqi Army and the Kingdom of Saudi Arabia. The first M1 program laid the foundation for all partnerships to come and has evolved from $27 million to $1.68 billion in revenue at ANAD.

In May 2011, the first Stryker Infantry Carrier Vehicle was inducted to begin a pilot overhaul program – the first of 10 variants to be overhauled. In 2012, the first Stryker Double-V Hull exchange vehicle was completed using common parts and components from a flat-bottom Stryker to build the new Double-V Hull design.

The Stryker partnership continues to expand to meet the changing requirements of the Army.

Raytheon

In 2010, ANAD and Raytheon partnered to support the U.S. Marine Corps' Secondary Reparables Program. That partnership has generated over $29 million and 28,000 man hours in support of the USMC M1 and M88 fleets. This unique requirement mandates the depot repair and return inoperable secondary items to the USMC under short and stringent timelines in order to enhance USMC readiness. With our Raytheon partners, we have never missed a Marine requirement.

BAE SYSTEMS

ANAD and BAE first partnered in 1996 and have teamed up to overhaul, reset and upgrade the M113, M88 and M109 vehicle platforms.

The partnership has continued to evolve, most recently in a Foreign Military Sales agreement. In 2011, ANAD and BAE Systems began a partnership to provide refurbished M113A2s to the Iraqi Army. BAE supplied replacement parts and ANAD replaced old and damaged equipment with updated components, restoring the vehicles to fully mission capable condition. The program also included deployment of ANAD and BAE employees to assist with training and vehicle maintenance once the vehicles were released to the Iraqi Army.

Partnerships include an M88A2 conversion program and the M109A7 family of vehicles low-rate initial production program.

Honeywell

After the 1998 Base Realignment and Closure Commission closed the government-owned, Honeywell-operated Stratford Army Engine Plant, Honeywell purchased the plant and converted an old depot warehouse into a modern-day facility that manufactures recuperators for the AGT1500 engine.

The Recuperator program was a building block for continuous AGT 1500 engine improvements programs. As part of an initiative to rebuild the existing engine, the Partnership for Reduced Operations and Support Costs, Engine, or PROSE, was implemented. Honeywell managed the supply chain and technical support, while ANAD repaired and overhauled the engines.

In collaboration with Project Manager Heavy Brigade Combat Team and TACOM, ANAD and Honeywell implemented an Enterprise Agreement for the Abrams AGT1500 TIGER program; an integrated solution to support the AGT1500 engine.

Honeywell and ANAD's partnering relationship supports our allies as well. In 2005, the Egyptian Engine Program was established to build turbine engines for the Egyptian Army. Honeywell supplies parts, technical support and step-by-step instruction, while depot employees build the engines.

The Total InteGrated Engine Revitalization, or TIGER, program is performed at ANAD in partnership with Honeywell.

FMS Programs have a major impact on the U.S. and our allies around the world

Foreign Military Sales

The Foreign Military Sales (FMS) Program is the U.S. government's program for transferring defense articles, services and training to ally nations. The U.S. Army Security Assistance Command facilitates FMS programs by obtaining vehicles or equipment from the Army's Excess Defense Articles and coordinating the best repair options with the organic industrial base.

FMS Programs have a major impact on the U.S. and our allies around the world:

- Enhance ties between the U.S. and other countries
- Save expenses of storage and demilitarization of vehicles that are not in use
- Provide new capabilities to U.S. allies
- Maintain and strengthen the defense industrial base

When the equipment falls within our technical and industrial expertise, Anniston Army Depot (ANAD) is instrumental in implementing FMS programs. Depot employees have repaired or overhauled the M198, M1, M113, M88 and other platforms to support FMS programs.

In some cases, ANAD's support to FMS extends to field support teams deployed to hand off equipment and provide operational training to soldiers.

Requirements for some FMS programs are fulfilled through partnerships with industry.

Recent FMS partnering programs include:

M113A2 – BAE Systems-Iraq

In 2011, ANAD and BAE Systems began a partnership to provide refurbished M113A2s to the Iraqi Army. BAE supplied replacement parts and ANAD replaced old and damaged equipment with updated components, restoring the vehicles to fully mission capable condition. ANAD and BAE field support teams deployed to Iraq to hand off the vehicles and to assist with operational training and vehicle maintenance during training.

M1A2 – GDLS-Saudi Arabia

In 2012, ANAD began a partnership with GDLS to refurbish M1 tanks for Saudi Arabia's Royal Saudi Land Forces. Depot employees perform disassembly, sand blasting, component repair and hull and turret repair. Once components are repaired, vehicles are shipped to Lima for reassembly by GDLS.

State-of-the-Art Facilities

Powertrain Transmission Facility

The 109,874 square foot Powertrain facility opened at Anniston Army Depot (ANAD) in 2012, supporting the Department of Defense's modernization goals while reducing associated maintenance costs for transmissions of current and future ground combat vehicles.

Co-located with the Powertrain Flexible Maintenance Facility, the transmission facility contains work areas for every process involved in the overhaul and remanufacture of in-line and cross-drive transmissions, from disassembly through final testing procedures for a variety of combat vehicles.

The facility was designed utilizing LEAN principles and allows for increased efficiency, as well as reduced transportation and special handling procedure costs. Built-in flexibility allows for efficient production changes in accordance with workload requirements.

At maximum capacity, the Powertrain Transmission Facility can rebuild 1,675 transmissions per year on one shift.

Powertrain Flexible Maintenance Facility

Anniston Army Depot's 142,500-square foot remanufacturing facility for reciprocating engines was opened in 2009. The plant was designed based on LEAN manufacturing principles and includes areas for disassembly, repair, reassembly, testing and shipping. At maximum capacity, the facility outputs 1,875 engines per year on one shift. This fork-free facility includes a molten salt bath cleaning system, integrated automated washers, automated quality data acquisition and analysis, modern paint lines and other advanced features.

The Small Arms Repair Facility features an indoor test firing facility.

Construction of a state-of-the-art Small Arms Repair Facility was completed in January 2012. The facility is co-located with the Defense Logistics Agency's small arms storage facility at ANAD, which reduces transportation costs and weapons movement while improving security. The facility's flexible floor plan improves ANAD's ability to quickly change processes to satisfy workload modifications and enhances surge capacity to meet warfighters' small-caliber weapon requirements.

Other features include an indoor test firing facility and modernized cleaning and finishing processes.

All small arms repair processes are consolidated into one facility and the resulting operational efficiency means a lower per weapon cost for the customer.

The Industrial Wastewater Treatment Plant was completed in March 2011. It is capable of treating 600,000 gallons per day, nearly double the capacity of the previous facility. This facility also provides for future expansion capabilities of up to one million gallons per day to support potential future mission requirements.

The plant provides biological treatment of industrial wastewater, producing the required water quality for discharge directly into nearby Choccolocco Creek.

In addition to greater capacity, the new facility has an on-site laboratory and modernized equipment, controls and automation.

Certifications and Significant Awards

ISO 9001 Certification

Anniston Army Depot (ANAD) recognizes its role in support of the American war fighter and the importance of continuous process improvement in order to provide quality service, support and products.

After working diligently to implement an International Standard-based quality management system, ISO 9001 certification was obtained throughout five value streams in the depot's Nichols Industrial Complex.

The depot, on May 3, 2007, received a Certificate of Registration confirming the quality management system for the overhaul, remanufacturing, repair and testing of vehicle platforms; gasoline, diesel and turbine engines; weapons and fire control systems; and other supporting systems used in U.S. Army combat vehicles had been assessed and were in compliance with requirements for ISO 9001:2000. A re-certification audit is required on an annual basis and ANAD was most recently re-certified in 2013.

ISO 14001 Certification

ANAD leadership is committed to the concept that combat readiness and responsible environmental stewardship are compatible, achievable and necessary. Our Environmental Management System (EMS) goes beyond compliance-driven evaluations and also focuses on environmental, safety and health impacts while increasing capacity, productivity and production.

In 2007, ANAD was granted ISO 14001 certification—the globally recognized EMS standard-- in activities associated with heavy tracked vehicle maintenance and fabrication. Certification is granted on a three-year basis; ANAD was re-certified in 2010 and again in 2013.

ISO 18001 Certification

In 2007, Anniston became the first in North America to attain fence-to-fence certification to the Occupational Health and Safety (OHSAS) 18001:2007 standard. Every three years, OSHA performs an audit which evaluates safety and health performance against a set of international standards.

Principal elements evaluated include safety and health policy, hazard identification, risk control, legal requirement, objectives and targets, document control, emergency preparedness and others. In 2013, a re-certification audit was performed, and the depot is now re-certified through 2016.

Shingo Recognition

Anniston submitted two candidates for the 2007 Shingo Prize, an annual award that recognizes excellence in manufacturing throughout public and private business sectors. The award is bestowed based on a point system which includes employee empowerment, vision, strategy, partnership, quality, cost and delivery.

There are three levels of recognition - Bronze, Silver and Shingo Prize. Anniston's Field Artillery Ammunition Support Vehicle assembly process received a Shingo Silver Medallion. The AGT 1500 turbine engine's entire process from disassembly to final test was a recipient of a Shingo Bronze Medallion.

Collaboration

Anniston Army Depot and the U.S. Marine Corps were honored for their collaboration on the Assault Breacher Vehicle (ABV) at the eighth Annual Defense Logistics Award Ceremony in Arlington, Va., Dec. 1, 2010.

The ABV program, which was initiated in 2002, won the award for Military-Military Collaboration of the Year.

Conservation

Anniston Army Depot was awarded the Governor's Air Conservationist Award at a ceremony hosted by the Alabama Wildlife Federation Aug. 3, 2012, in Prattville, Ala.

For over 30 years, the Alabama Wildlife Federation has presented conservation awards to individuals and organizations making great contributions to the conservation of the state's wildlife and natural resources.

ANAD's 2012 award was based on the installation's efforts to replace degreaser products containing air pollutants with products that contain no hazardous air pollutants.

Army Award for Maintenance Excellence

In 2014, ANAD was awarded the Army Award for Maintenance Excellence for its accomplishments in the Assault Breacher Vehicle (ABV) program. The AAME is part of the Chief of Staff of the Army's Combined Logistics Excellence Award (CLEA) program, which recognizes achievements in the areas of deployment, maintenance and supply operations.

The CLEA program highlights the crucial role logistics play in supporting the warfighter and it recognizes both field and depot level Army activities demonstrating excellence in maintenance operations. The AAME is one of three award categories of the CLEA program.

Process Optimization

Enterprise Excellence

Anniston Army Depot's Enterprise Excellence Division offers employees tools to improve processes, reduce waste and make their work flow more efficient.

Through the use of Lean Six Sigma methodology, the Value Engineering Program and the Army Suggestion Program, waste removal has been optimized, vehicle turnaround time has been reduced and first pass yield has improved. Establishment of standardized processes and material management has resulted in reduced cycle times as well as a reduction of in-process inventory.

Lean principals have been applied to a variety of processes - from industrial work to office duties, down to the smallest tasks.

The depot has had well over 1,000 Lean events, improving processes everywhere from the Equal Employment Opportunity Office to the Paladin and FAASV line in the Combat Vehicle Repair Facility.

Some of the installation's successes, such as the Paladin line and the turbine engine shop, have earned accolades including one award that is been considered the Nobel Prize of continuous improvement, the Shingo award.

Employees are involved in Lean events from beginning to end.

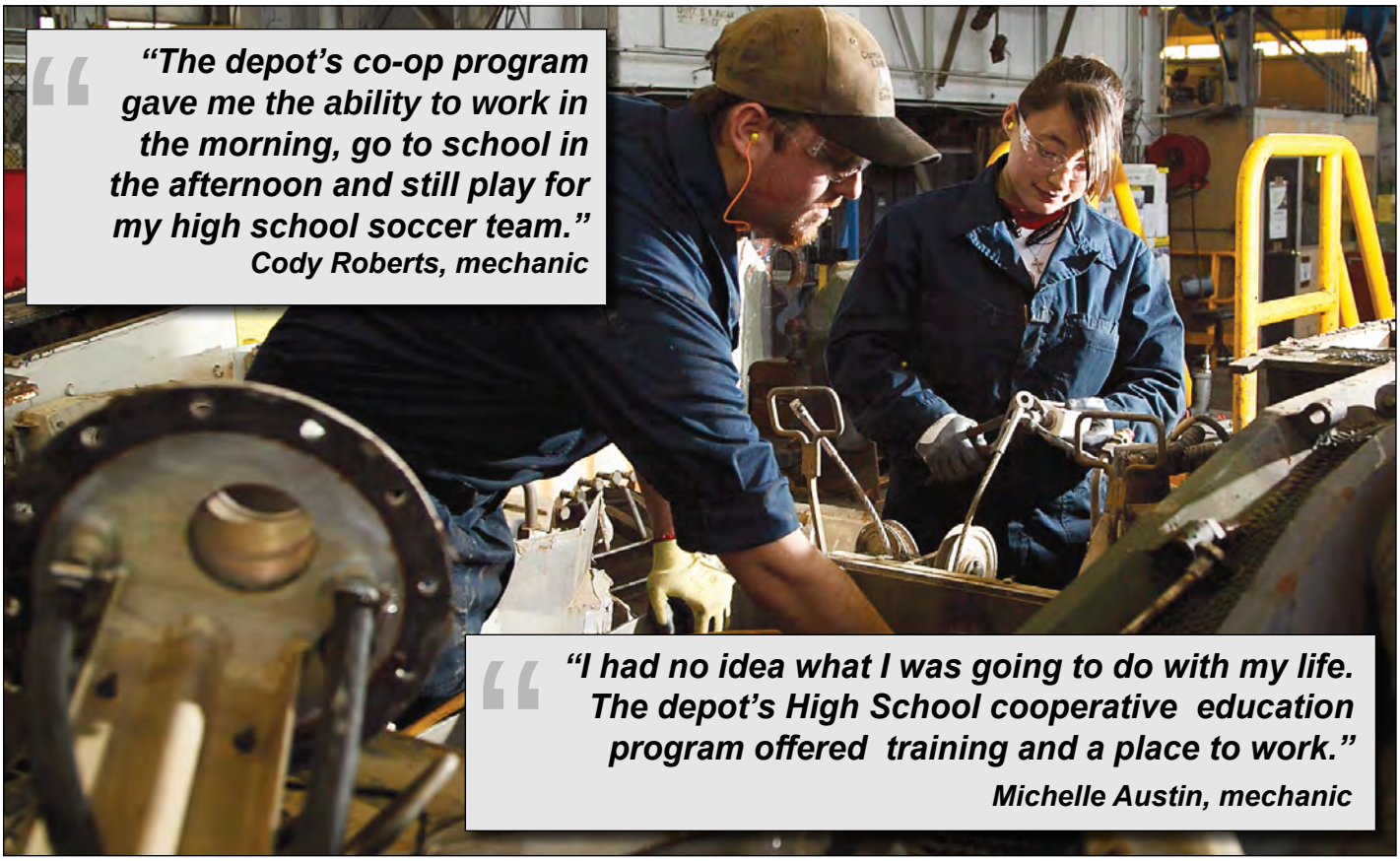
Lean Six Sigma

Anniston submitted a Lean Six Sigma (LSS) award package through TACOM Life Cycle Management Command and Army Materiel Command to the Department of the Army for an M1 Abrams vehicle assembly project.

By applying LSS concepts to processes in both the hull assembly and turret assembly operations, Anniston received the 2008 Department of the Army LSS Award.

Not only was waste removed, but, as part of the project, the depot gained enough floor space to accommodate Paladin cab assembly, which was once completed wherever available space could be found. Now, employees in Paladin cab assembly have a designated space to accomplish their mission, just like M1 turret assembly.

Career Academy



"The depot's co-op program gave me the ability to work in the morning, go to school in the afternoon and still play for my high school soccer team."
Cody Roberts, mechanic

"I had no idea what I was going to do with my life. The depot's High School cooperative education program offered training and a place to work."
Michelle Austin, mechanic

The Pathways Program serves as a critical marketing tool assisting Anniston Army Depot in hiring students or recent graduates to meet employment needs. It is a vital part of the overall workforce revitalization efforts.

The Pathways Program consists of two components – the Internship Program and Recent Graduates Program.

Participants of the Internship Program are exposed to government work through federal internships while pursuing their degree. Positions are open to current students enrolled at least half-time in high school, technical, undergraduate or graduate programs.

High school students attend their respective school for half a day and train at the ANAD Career Academy the remainder of the day. As part of ANAD's workforce revitalization, the depot established the Career Academy in 2001. The Career Academy has undergone many changes, but when vacancy opportunities exist, the Career Academy stands ready to offer students classroom lectures and on-the-job training.

This provides the depot with a well-trained candidate pool for potential vacancies. The Career Academy partners with both secondary and post-secondary education in Alabama to provide training opportunities for these students. Participants in the technical, undergraduate and graduate programs take college courses while working part time and receiving on-the-job training.

Marketing of the high school program includes approximately 46 schools in eight counties located in a 55-mile radius of the installation.

Students selected for the high school/technical programs are placed in one of five cooperative education opportunities: machining, mechanics, welding, hydraulics/pneumatics and electronics.

The second component is the Recent Graduates Program. This program targets individuals who have recently graduated from qualifying educational institutions or programs and seek a dynamic career development program with training and mentorship.

To be eligible, applicants must apply within two years of degree or certificate completion (except for veterans precluded from doing so due to military service obligations, who will have up to six years to apply). Participates selected for the undergraduate, graduate and recent graduate program will receive developmental training in: accounting, budgeting, engineering, technology or business career fields.

All ANAD Pathways job opportunities are announced through USAJOBS, the U.S. government portal for civil service jobs. Vacancies and permanent employment are dependent upon the depot's mission requirement. For more information on the ANAD Pathways Program, contact (256) 741-5266.

Community Involvement

Child, Youth and School Age Services

Throughout the Department of the Army, focus on supporting the Soldiers, civilians and Family members who provide selfless support to the mission has become a subject of significant importance. Anniston Army Depot (ANAD) has responded by providing additional services and support to our employees and their families. In the fall of 2007, the depot realized a long-held goal of providing child care services to our employees with the opening of a new Child Development Center.

The Department of Defense (DoD) child development programs have earned the recognition of being the "model for the nation." In March 2007, child care centers run by the DoD were ranked number one in the U.S. for best standards and oversight by the National Association of Child Care Resource and Referral Agencies. DoD achieves high standards of child care through adequate funding, strict oversight, continuous staff development, strong family involvement and a shared commitment to excellence.

Child, Youth and School-Age Services, or CYSS, is an integral part of the Army mission. CYSS programs support the Soldier and civilian, which in turn enhances Army readiness. In other words, a Soldier or civilian can concentrate on the mission knowing that their children are safe and supervised by a trained and professional staff while participating in quality developmental programs.

ANAD joined the Army CYSS family and will continue this tradition of excellence. The Child Development Facility offers a 161-child capacity to service dependents of the depot's military members and employees as well as its tenant and contractor personnel. The facility's 18,078 square feet of floor space accommodates approximately 18 infants and pre-toddlers, 24 toddlers, 40 preschool children and 75 school age children. The facility features a large multi-purpose gymnasium, age-appropriate playgrounds and a state-of-the-art computer lab.

In addition to the services this facility offers, the benefits of providing child development programs to our families is enormous. Convenience, affordability and quality are hallmarks of an Army Child, Youth and School Age Services program.

Army Community Service

Army Community Service is a dedicated team of professionals who provide comprehensive, coordinated and responsive programs and services that promote self-reliance, resiliency and stability during war and peace. All active duty, U.S. Army Reserve and National Guard service members on active duty exceeding 30 days, depot civilians, tenants, retirees and Family members are eligible to utilize ACS services.

Programs include:

- Army Volunteer Corps
- Army Family Action Plan
- Army Family Team Building
- Exceptional Family Member Program
- Family Advocacy
- Relocation Readiness
- Deployment Readiness
- Financial Readiness
- Employment Readiness
- Army Emergency Relief
- Information and Referral

Community Relations

ANAD has an excellent rapport with the local community. Examples include:

- More than $2.5 million contributed from 2008-2013 to the United Way's Combined Federal Campaign
- Sponsored more than 1,300 children in protective custody at Calhoun County Department of Human Resources during the Christmas Cheer Program from 2008-2013
- Actively engaged in local schools with mentoring initiatives at 29 schools in three school systems
- Quarterly blood drives embracing 58 years of donations
- Army Emergency Relief donations of more than $226,000 from 2008-2013 to support Soldiers in need, whether retirees or active duty

A welder works on a M1 Abrams tank in Anniston Army Depot's Combat Vehicle Repair Facility.

Doing business with

Anniston Army Depot

America's Combat Vehicle Support Center

For information on current business opportunities with Anniston Army Depot, please visit the following websites:

ANAD Homepage:
www.anad.army.mil

Army Single Fact to Industry (ASFI) Acquisition Business Website:
https://acquisition.army.mil/asfi

Federal Business Opportunities:
www.fbo.gov

For partnering inquiries, Contact:

Anniston Army Depot
Business Development Office, TAAN-LB
7 Frankford Avenue, Anniston, AL 36201-4199
Email: johnny.w.thompson6.civ@mail.mil
Phone: (256) 235-6512

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