



LETTERKENNY ARMY DEPOT
1 OVERCASH AVENUE
CHAMBERSBURG, PA 17201
WWW.LEAD.ARMY.MIL

Industrial Operations | Major Items

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

Complete system overhaul, rebuild, and Reset of Ground Support Equipment

Recapitalization of PATRIOT system to ultimately extend weapon system life cycle

Fly-away modification installation teams that field enhanced weapon system capabilities directly to the War fighter

Emergency technical and maintenance assistance response teams to mitigate non-mission capable events in CONUS and OCONUS

Depot Maintenance Plant Equipment necessary to test to factory specifications in simulated track, electronic counter-measure, and temperature environments



Facts

Center of Industrial and Technical Excellence (CITE) for Air Defense and Tactical Missile Ground Support Equipment

Site host for the International General Purpose Electronic Test Station (GETS) Conference

28-acre radar test facility

Only depot with capability to repair the Phased Array Tracking Radar Intercept of Target (PATRIOT) Radar Set antenna array backplane and align it to electrical bore sight

Major End Items: PATRIOT and Homing All the Way Killer (HAWK)

THE PREMIER DEPARTMENT OF DEFENSE CENTER OF INDUSTRIAL AND TECHNICAL EXCELLENCE

Air Defense and Tactical Missile Ground Support Equipment
Mobile Electric Power Generation Equipment
Phased Array Tracking Radar Intercept of Target (PATRIOT) Missile Recertification
Route Clearance Vehicle (RCV)

Eight-time Shingo Award Winner

Silver in 2005: PATRIOT Launcher
Silver in 2006: HMMWV Recap
Bronze in 2007: Power Generation
Silver in 2007: HMMWV
Bronze in 2008: Biological Integrated Detection Systems
Bronze in 2008: PATRIOT Missile Recertification
Bronze in 2010: PATRIOT Value Stream
Bronze in 2011: Aviation Ground Power Unit Value Stream

PROVIDING OUR FORCES WITH THE DECISIVE EDGE!





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Industrial Operations | Automotive Recap & Reset

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

Complete disassembly of assets; replace or rebuild components to like-new condition

Pre-treat rust prevention process before reassembly; final paint process after vehicle assembly

Vehicle testing includes pre-shop, road and load as well as final test before shipment to the unit

Quality checks performed throughout recap or reset processes

Dedicated program engineering support through the entire repair process

Products: HMMWVs, HIMARs, GMVs, MRAPs, BIDS, PATRIOT, Avenger, HAWK, and material handling equipment

Facts

Provide depot level maintenance to Army, National Guard, U.S. Marine Corps, Foreign Military Sales, Special Operations Command, Tactical Army Command, and Joint Program Office-Chemical and Biological Defense

Implement Lean Six Sigma methodology and tools for constant improvement resulting in a quality level exceeded by none

Shingo recipient:

PATRIOT '05 and '10
HMMWV '06 and '07



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Industrial Operations | Power Generation

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

Complete A1—overhaul and reset direct support and depot-level repairs

LEAD generator reset includes 54 variants of skid and trailer mounted. Shipped 'Condition Code A'

Complete load testing on skid and trailer mounts, 5-400kw

Components overhauled include: engine, generator, control deck, input, switch boxes, trailers, fuel components, electrical cables

Product line includes: AGPU new build and reset, 5kw, 10kw, 15kw, 30kw, 60kw, 100kw, and 150kw, SLEP, EPPIII, GANG

Programs supported include: CECOM, BIDS, AAI, Force Provider, Sentinel, and PATRIOT

Facts

Center of Technical Excellence for Tactical Quiet Generators (TQG), a rugged and reliable military electrical power generating source

Power Generation provides electricity to meet mission infrastructure needs in OCONUS and CONUS

Easily transportable by trailer, and it operates under extreme environmental conditions

Cellular manufacturing product supports fast-flow throughput

Aviation Ground Power Unit (AGPU) new build

LEAD is the AGPU Reset "Gold Site." All CONUS AGPUs will be reset at LEAD!

45,000 square foot production area



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Industrial Operations | Sheet Metal Fabrication

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

- Computer Numeric Control (CNC) laser cutting machines
- CNC water jet and high definition plasma cutting machines
- CNC punch press and CNC brake presses
- 100,000-watt spot welder
- CNC programmable plate roller
- CNC programmable tubing bender
- Hydraulic tubing line flaring and test area
- 20,000 square feet sheet metal production area



Facts

Lean production methodology – parts identification, economical order quantities and complete item kitting

Laser cutting: accepts material in sheet sizes with a maximum size of 13'x10', a range from .010" up to 1.25" thick sheet plate, and a .50" thickness for aluminum and stainless steel

Waterjet machines cut any type of material including: steel, aluminum, wood, rubber, armor, glass and composites

Able to pre-heat many different types of armor and titanium to aid in preventing cracking in the forming process

20,000 square foot production area

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Industrial Operations | Machine Shop

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

Computer Numeric Control (CNC) Bridge Milling Machine
– 12'x12' bed

CNC Gantry Mill – 8' x 20' bed

CNC Haas 1600/4 Axis Horizontal Boring Mill

CNC Milling Machines

CNC Lathes

Wire Electrical Discharge Machines – highly accurate for
unique shaped machine needs

Rapid Machining Cell

Heat treating

Facts

With rapid machining technology LEAD can readily test for
form, fit, and function

Rapid Machining Cell: Intuitive programmable machining
allows fast turnaround time from engineering concept to end
product

Mazak 7 Axis Integrex—Lathe Mill combination reduces set-
up time; antenna positioned: capable of simultaneously
machining 5 axes

Haas CNC router vacuum table: magnet clamping/quick
change-over and full sheet milling

Machinists trained on geometric dimensioning and
tolerance (GD&T) and original equipment manufacturing
(OEM)

30,000 square foot production area



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Industrial Operations | Weld Fabrication & Repair

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Capabilities

- Computer Numeric Control (CNC) Robotic Weld Cell
- Precision quick set-up tables
- Tungsten Inert Gas (TIG)
- Mechanical Inert Gas (MIG)
- Manual Metal Arc (Stick)
- Gas Welding (GMAW)
- On-site weld engineering
- Aerospace welding (AWS) D17.1 qualified

Facts

Welding operations range from small component repair, production workload, to full asset modifications and repair

High-bay area access with a 60-ton capacity hoist crane that allows fully accessorized vehicles to be pulled inside the bay for repair

Production weld items built on precision layout tables and tabbed and slotted with help from in-house production engineering support

Welding materials: MIG in steel aluminum, TIG in steel and aluminum, titanium, stainless steel, and various armor grade materials

15,000 square foot production area



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Industrial Operations | Upholstery

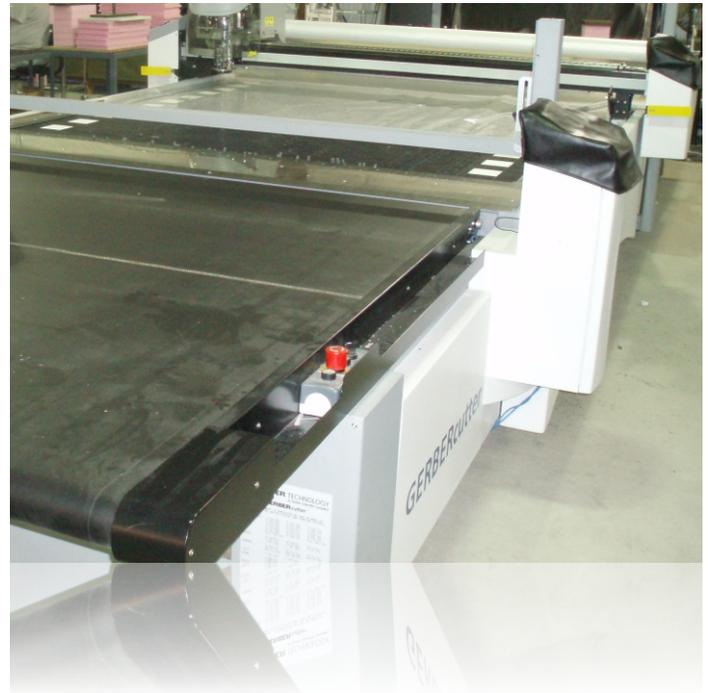
ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

- Heavy-duty, double-stitch sewing machines (short arm and long arm)
- Computer Numeric Control (CNC) GERBER cutter XLc700 cutting machine with digital scanner
- Automated grommet insert machines
- Automated snap insert machines
- Hot/cold cutting and shearing machines
- Tracked vinyl welding machines (including hand-held)
- Hand-controlled, roller-based sewing machines

Facts

- In-house ability to program or reverse engineer parts from blue prints or samples
- CNC GERBER cutter XLc700 cutting system cuts up to 7.2 cm of compressed material – accommodating a variety of fabric types and material widths up to two meters
- Water/air tight hot air vinyl welding process
- Produce and assemble foam-related items (i.e., sound insulation, lead lined headliners, ammunition warhead storage, gaskets, and shipping containers)
- Large new or repair items can be handled on large layout tables
- 4,500 square foot production area



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Industrial Operations | Material Prep & Paint

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Capabilities

- Drive in wash racks, blast, sand and paint booths
- Powder-coating paint booth
- Metal pre-treat systems
- Carousel and pallet paint systems
- Table blast cabinets
- Alodine/parkerizing stations
- Electroplating

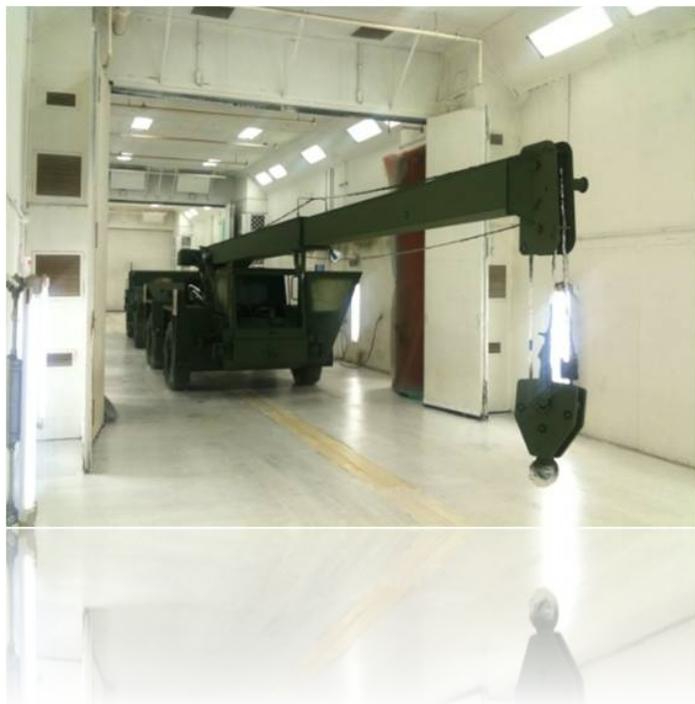
Facts

Depot-level process support includes: equipment cleaning, pressurized abrading, and surface preparation

Full spectrum of military specification chemical treatments and coatings for corrosion protection and biological and chemical agent resistance

A variety of media and methods applied to perform mechanical paint and corrosion removal to include: plastic, glass, agricultural, steel and garnet blast media

STAR4D Painter Training Institute located on the depot



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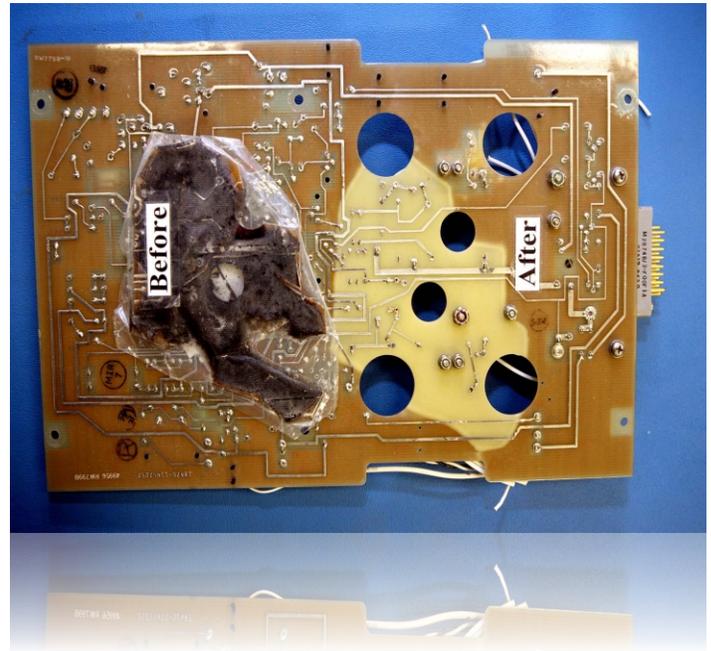
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Industrial Operations | Circuit Card Repair

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

- Circuit card support for PATRIOT and HAWK
- PATRIOT radar antenna element testing and repair
- Avenger coolant reservoir recertification
- HAWK launcher slip rings: repair or rebuild
- Avenger slew-to-cue slip rings repair
- Circuit card testing on GETS 1000B2M or DTE test stations
- J-STD-001 soldering and micro miniature soldering
- Special projects and unique manufacturing



Facts

- Multi-functional shop performing testing, diagnostic, rebuild and repair procedures
- Highly-skilled workforce tests, modifies and repairs a wide variety of circuit cards and assemblies for the PATRIOT and HAWK missile systems
- Circuit boards with up to six layers can be processed, repaired or reconstructed
- General Electric Test Set (GETS) consoles provide state-of-the-art technology in diagnostic testing of circuit cards
- Microwave device testing performed for PATRIOT Radar systems

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Industrial Operations | Cable & Harness Fab

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

Data Information Test-Material Checkout (DIT-MCO) HV
1500V AC-1500V DC

Hi-Pot testers: HD-100 and 830-10CTS

3-D printer for potting molds

Thermal shrink and laser etch-marking manufacturing

Reel-to-reel spooling for fiber optic and copper cables

Electro-static discharge protected work benches

State-of-the-art soldering stations

Environmentally controlled clean rooms

J-STD-001 certification

IPC/WHMA-A-620A certification

Facts

Full service fiber optics cabling, splicing, cable harness
repair, fabrication, and re-engineering

Assembly and attachment of connectors, pins, and hardware

Transmission efficiency testing

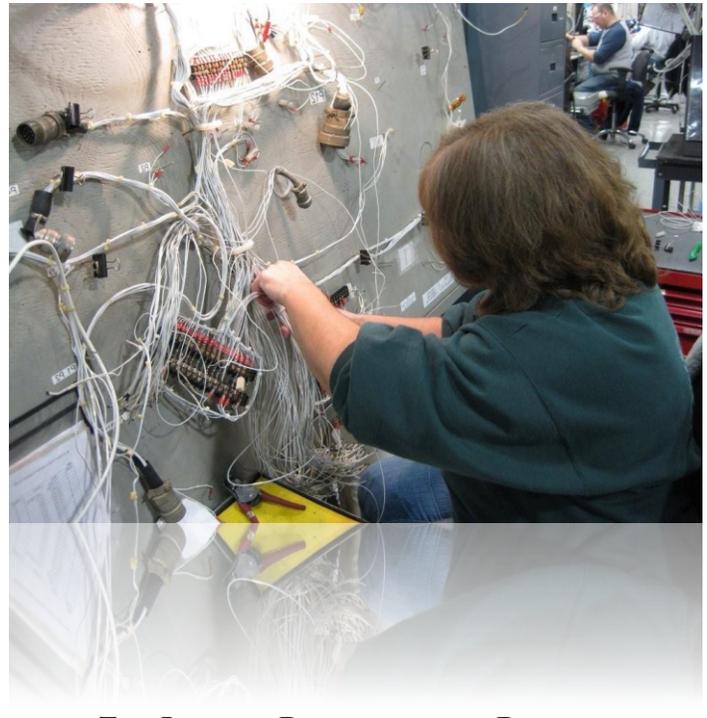
Harness layout process

Long cabling capability: 100-350+ feet

Final mechanical installation and testing

Final inspection

50,000 square foot production area



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Industrial Operations | Cable & Harness Rework

 ISO 9001 registered  ISO 14001 registered  OHSAS 18001 registered  VPP Star Certified

Capabilities

- Full range of Data Information Test-Material Checkout (DIT-MCO) automated testing
- Thermal shock / thermal cycling testing
- Laser, thermal and ink jet wire marking and marker manufacturing
- Total wire reeling: reel-to-reel, reel-to-cable, coiling
- Wire braiding: long length and short run
- Long cabling capability: 100 - 350 + feet

Facts

- Complete original equipment manufacturing (OEM)
- J-Std-001E soldering certification
- IPC/WHMA-A-620 accreditation
- 50,000 sq. ft. environmentally controlled production area
- Specialize in fabrication / repair of low volume, one off, specialty harness assemblies
- Design and reverse engineering
- Full service cable and harness design, fabrication, repair and testing



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Industrial Operations | Item Unique Identification

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

Dimensions range from 1" x 1" to 20" x 24"; thickness from .005" to .125" using Metal Photo aluminum plates, or Tesa labels

Choose a standard template (A or B), or create a custom template for additional charge

Color schemes: traditional black on silver, silver on black, special rub-on dyes, such as gold, red and orange

Application of adhesive backing: 3M or CARC compatible

IUID data submitted to Registry

Maximum seven working day turn-around time

FedEx shipment to customer

Facts

Item Unique Identification (IUID): an asset identification system to uniquely identify an asset

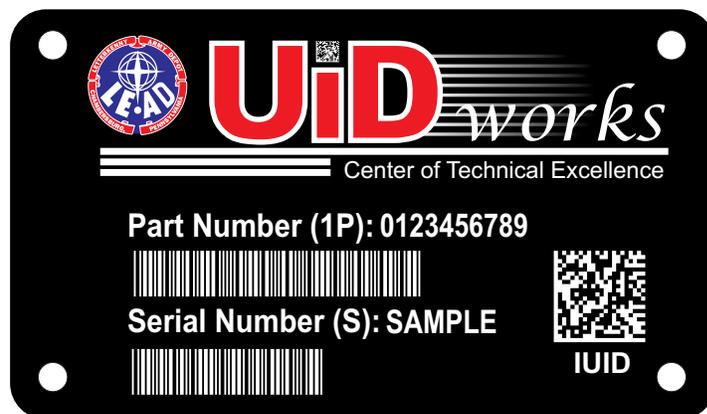
Marking of tangible items or assets in accordance with IUID policy mandated by DFARS and MIL-STD-130

IUID saves taxpayer dollars through increased productivity and efficiency

Improved item visibility for operational planning for the Warfighter

Lowers the total life-cycle costs of items acquired and managed

Current customer base: AMCOM, TACOM, and CECOM



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Industrial Operations | Rebuild: AGPU/GANG

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

LEAD is the sole source provider of many AGPU parts

LEAD has a hot line support staff and does provide technical support worldwide

LEAD engineering staff provides engineering supports to fabricate new parts that are no longer available

Generic Aircraft Nitrogen Generator (GANG) provides 95.5% pure nitrogen to service/adjust aircraft accumulators, main rotor blades, landing gear struts and tires. The system refills nitrogen bottles used at all levels of aviation maintenance.

APGU provides A/C and D/C power, hydraulic pressure and pneumatic power to assist in aircraft testing and trouble shooting



Facts

Aviation Ground Power Unit (AGPU) is a multi-function system that provides support to a wide range of helicopters

2012 AGPU Shingo award winner for excellence in manufacturing

LEAD is the only (AGPU) Reset "Gold Site" for all CONUS and OCONUS

LEAD currently builds brand new AGPUs for the Army and Foreign Military Sales

AGPU workload has expanded from RESET/SLEP to becoming the OEM and producing the first new build AGPU's in 25 years

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Industrial Operations | Reset: Power Generation

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Complete load testing on skid and trailer mounts, 2-420kw

Components overhauled include: engine, generator, control deck, Output Box, switch boxes, trailers, fuel components, all electrical components.

Product lines include: All model variations to include trailer of the 3kw, APU, 5kw, 10kw, 15kw, 30kw, 60kw, 100kw, 150kw, 200kw, 420kw.

Programs supported include: AMCOM, CECOM, BIDS, AAI, Force Provider, Sentinel, PATRIOT



Facts

Center of Technical Excellence' (CITE) for the Army Tactical Power Fleet, a rugged and reliable military electrical power generating source.

Power generation provides electricity to meet mission infrastructure needs in CONUS and OCONUS

Field assets to units with over 30 employees trained in the fielding and testing procedures.

Cellular manufacturing product supports fast-flow throughput within several production lines.

115,000 square foot production area rebuilding 5000+ complete assets year after year; including MJQ's, PU's, and MEP's.

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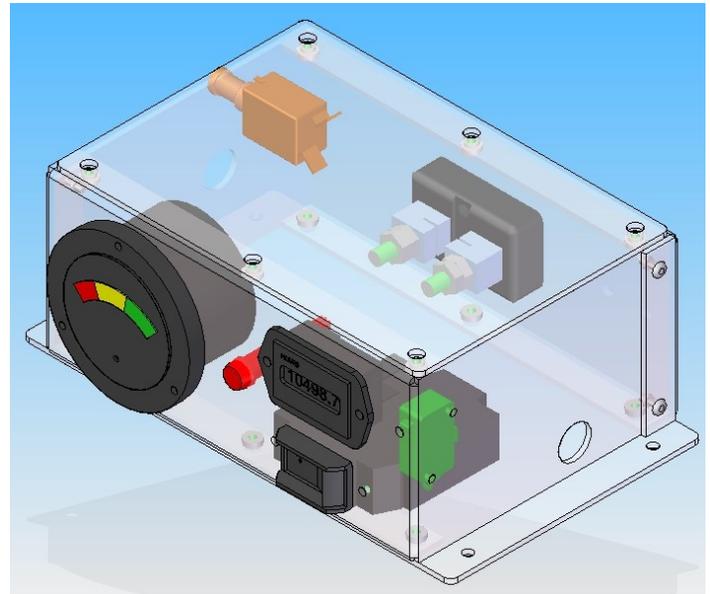
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Operations Planning & Support | Production Engineering

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Capabilities

- | | |
|--|--|
| Expertise in all Engineering disciplines | Cost estimating for overhaul and fabrication new work programs |
| 3D modeling and computer aided design | Complex programming of CNC machines |
| Conceptual design & reverse engineering | Economic Analyses & Value Engineering |
| Rapid prototyping of parts and molds | Routes & BoMs feeding the LMP system |
| Complete TDP development | Industrial floor space & process planning |
| Mechanical writing to included DMWRs, NMWRs, TM's, & work instructions. | Repair, welding, & reclamation procedures |
| Repair and maintenance of IPE (Ind Plant Equip) and ATE (Automated Test Equip) | Obsolescence solutions |



Facts

- 6 branches supporting all of the Industrial operations, DS&T, TRMD, and LEMC
- 150 on-board strength; Staff co-located within supported shops
- Manage Capital Investment Program
- Engineering support contracts in place
- Completed DMPE purchases worth \$8M & service contracts worth \$55M in FY11
- Certifications: Professional Engr, APICS CPIM, soldering, welding, NDT, AT&L
- Skilled in Lean manufacturing, six sigma, LMP, DELCAM, CAD, ESD, Solid Edge
- Extensive new design efforts ongoing for SOCOM & PMMS

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PROVIDING OUR FORCES WITH THE DECISIVE EDGE!





LETTERKENNY ARMY DEPOT
1 OVERCASH AVENUE
CHAMBERSBURG, PA 17201
WWW.LEAD.ARMY.MIL

Theater Readiness Monitoring | Missile Maintenance Operations

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

- Missile safety test
- De-canning and canning of missiles
- Explosive handling
- PATRIOT Missile Integration Test System
- Pressure Testing
- Quality Assurance
- Explosive weight limitations up to 10,000 lbs.

Facts

- Phased Array Tracking Radar Intercept of Target (PATRIOT) Missile Facility equipped with built-in temperature, humidity, and dust controls for sub-assembly test areas
- Foreign Military Sales new build for PATRIOT
- Complete PATRIOT and Homing All the Way Killer (HAWK) storage, disassembly, testing, and recertification
- 40K square foot missile building
- 20K square feet of inert storage
- 3K square feet of classified storage



THE PREMIER DEPARTMENT OF DEFENSE CENTER OF INDUSTRIAL AND TECHNICAL EXCELLENCE

Air Defense and Tactical Missile Ground Support Equipment
Mobile Electric Power Generation Equipment
Phased Array Tracking Radar Intercept of Target (PATRIOT) Missile Recertification
Route Clearance Vehicle (RCV)

Eight-time Shingo Award Winner

- Silver in 2005: PATRIOT Launcher
- Silver in 2006: HMMWV Recap
- Bronze in 2007: Power Generation
- Silver in 2007: HMMWV
- Bronze in 2008: Biological Integrated Detection Systems
- Bronze in 2008: PATRIOT Missile Recertification
- Bronze in 2010: PATRIOT Value Stream
- Bronze in 2011: Aviation Ground Power Unit Value Stream

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Supply and Transportation

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

Full spectrum of premier logistical services: shipping, receiving, storage, inventory and multiple level care of supplies in storage (COSIS)

Rail and truck shipping

Classified and RAD storage

Mobile all-terrain, 250-ton capacity crane

Container handling: 20 feet and 40 feet, 95,000 lbs. capacity

Customized kitting program

On-site box shop to customize shipping containers constructed IAW military standards for CONUS and OCONUS shipping (to include prototype design)



Facts

Only Army depot with independent receiving, storage, and shipping capabilities

LMP/SAP operational

99.6% on time shipping

Load and unload rail cars on the depot

CSX rail interchange is 25 miles from LEAD

On site Department of Transportation certified hazardous material specialists

Asset preservation and storage

Worldwide customer base

Embedded Lean Six Sigma methodologies

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Office of Continuous Improvement | Lean Six Sigma

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

Ability to apply a variety of Lean Six Sigma tools throughout the depot

Equipped and trained in the use of advanced statistical modeling software

In-house Master Black Belt to train and mentor new belt candidates

Fully trained staff of certified green and black belt Lean facilitators

Ongoing benchmarking of industry leaders to improve Lean practices

Lessons learned and industry best practices applied to every new program

Continuous value stream mapping and process improvement applied to all ongoing workload

Maintaining on time delivery at or below customer cost while maintaining the highest standards of quality



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Air Defense and Tactical Missile Ground Support Equipment
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Route Clearance Vehicle (RCV)

Facts

LEAD was the first DOD depot to compete for and win a Shingo Prize

All validated savings are returned to the customer for redeployment

LEAD employees' vested interests are the key to continued Lean success

All employees participate in a four-hour Lean Six Sigma basic skills training

OCI welcomes input and strives to strengthen customer bonds

Eight-time Shingo Award Winner

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Silver in 2006: HMMWV Recap
Bronze in 2007: Power Generation
Silver in 2007: HMMWV
Bronze in 2008: Biological Integrated Detection Systems
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Business Development | Public-Private Partnerships

ISO 9001 registered ISO 14001 registered OHSAS 18001 registered VPP Star Certified

Capabilities

Lower cost of products and services; sustain critical skills and capabilities; improve operational efficiencies

Types of partnerships:

- Workshare
- Teaming
- Direct Sales
- Facility Use
- Lease

Title 10, United States Code:

10 USC 2208(h), (j);
10 USC 2539b; 10 USC 4543; 22 USC 2770 10 USC
2474; 10 USC 4544

Partnership visit/discussions: Non-disclosure agreement;
request for proposal, contract of sale and invoicing

Facts

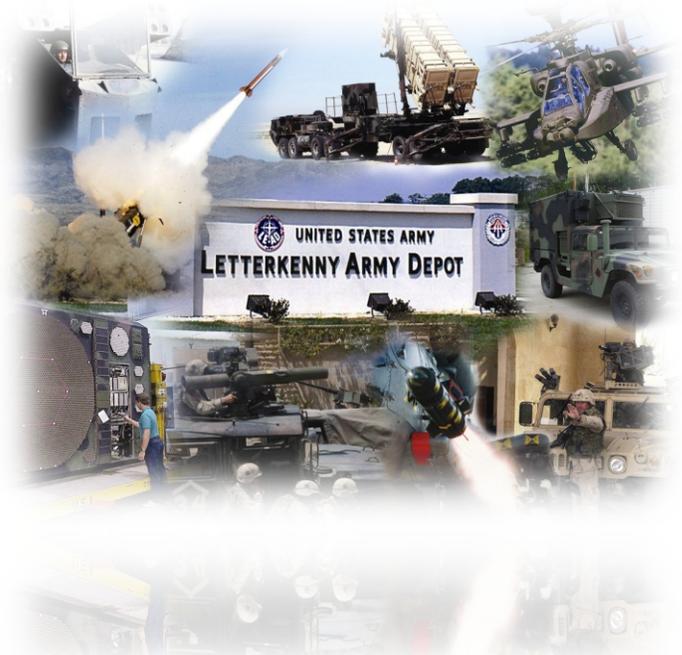
The Army is committed to maintaining a healthy, effective, and efficient industrial base that is ready and responsive with facilities and equipment that are technologically advanced and with a workforce that is highly qualified.

Public-private partnerships have shown to be a key element in meeting that goal.

AMC PPP Handbook

“A public-private partnership for depot maintenance is an agreement between an organic depot maintenance activity and one or more private industries or other entities to perform work or utilize facilities and equipment”

DUSD(L&MR) Memo dated 30 Jan 02



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