

FORT IRWIN / NATIONAL TRAINING CENTER / GARRISON COMMAND RECYCLE PROJECT

Billy Doak

Materials Recovery Manager

ATK Lake City Army Ammunition Plant

July 25th, 2008



Headquartered Lake City AAP, Independence, MO

Key Capabilities

- ▶ Small Caliber Load, Assemble and Pack
 - High Rate Manufacturing
- ▶ Metal Parts Stamping
- ▶ 20mm Load, Assemble and Pack
- ▶ Systems Design and Development
- ▶ Program Management
- ▶ Facility Management

Key Products

- ▶ 5.56mm Ammunition – All Types
- ▶ 7.62mm Ammunition – All Types
- ▶ .50 Caliber Ammunition – All Types
- ▶ .45 Caliber Ammunition
- ▶ Small Caliber Primers
- ▶ Small and Medium Caliber Links

Key Programs

- ▶ Prime Contractor – DoD Small Caliber Ammunition
- ▶ Green Ammunition
- ▶ Technology Programs
- ▶ LCAAP Facility Modernization

Small Caliber Ammunition

The world's largest producer of small caliber ammunition

5.56mm/7.62mm/.50 caliber



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ATK Lake City Army Ammunition Plant



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6 square miles

420 active buildings

**Womb to tomb
ammunition manufacture**



- Senator Harry Truman broke ground on Dec. 26, 1940.
- Started production Sept. 1, 1941.
- Only active Government-owned small caliber ammunition plant.

ATK Lake City Ammunition Families



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5.56mm



M200 Blank
M855 Ball Saws
M856 Trace Saws
M193 Ball SCAMP
M196 Trace

7.62mm



M82 Blank
M80 Ball
M62 Trace
M62 OHF
M118 Long Range
M852 Match
M276 Dim Trace

.50 Cal.



M1A1 Blank
M33 Ball
M17 Trace
M8 API
M20 API-T
M962 SLAP-T

20mm

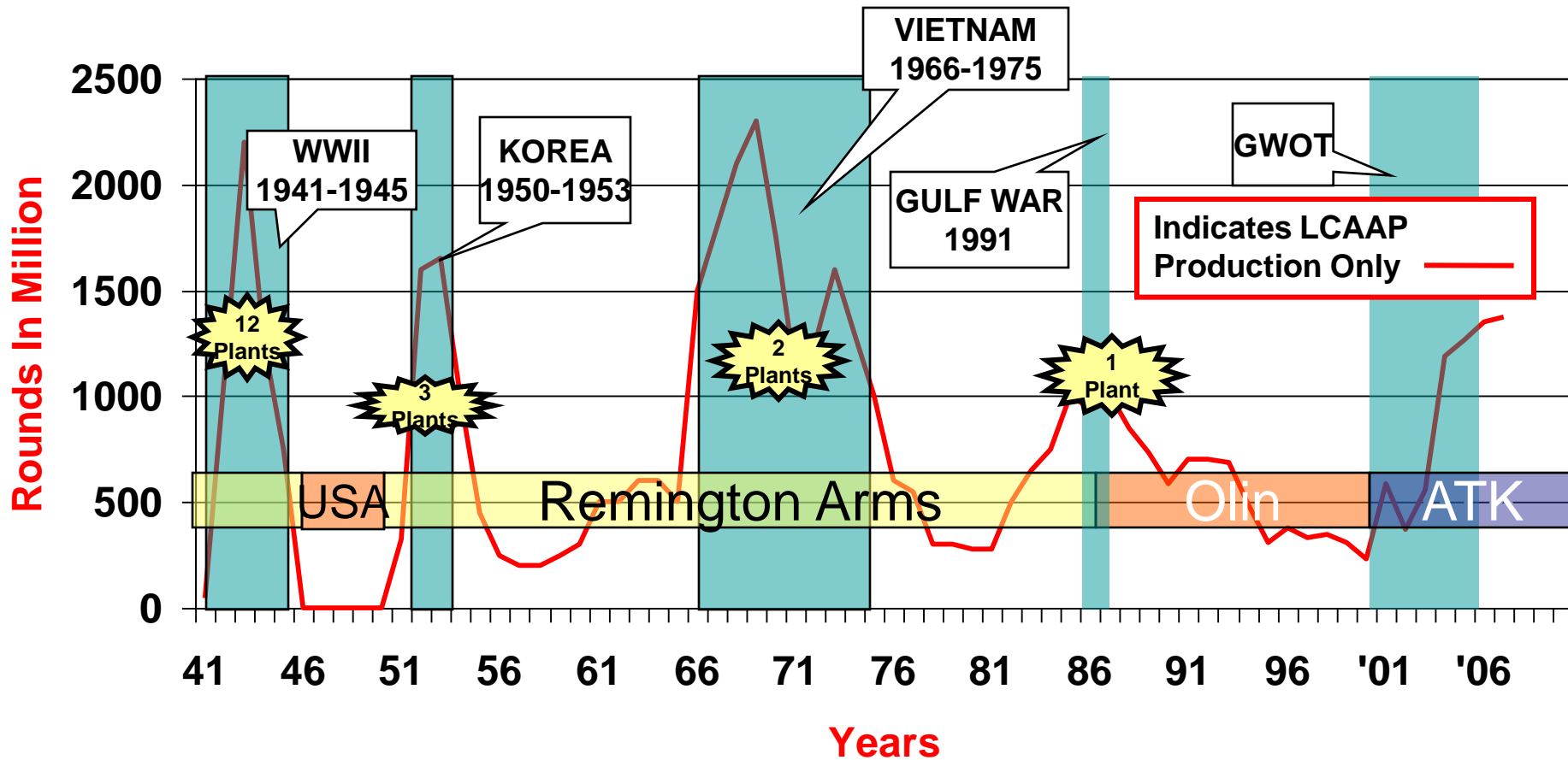


PGU-27/B TP
PGU-28/B SAPHEI
M56A4 HEI
M220 TP-T
M55A2 TP

ATK Lake City Production History



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- Incorporated in 2002
- Headquartered in St. Louis MO
- 105 employees
- Partnered with ATK since 2004
- Performs demilitarization on cartridge cases for production of new case cups



- D-4 sited plant
- Performs various military-approved demilitarization operations (Tomcat engine pictured)
- Demilled 200 + engines to date.



Total Metals Recycling



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- Capable of demil on primed cases
- Currently handling brass scrap for ATK Lake City -- for sole purpose of recycling material and preventing any reloading of spent cases by the public with military grade brass.



- Capable of separation by calibers and sorting by type of metal
- Accomplish total destruction of material for certified demilitarization





THE NATIONAL TRAINING CENTER AND FORT IRWIN

The world's premiere training center for the world's finest Army!

FORT IRWIN NATIONAL TRAINING CENTER RECYCLING PROJECT



FORT IRWIN – RECYCLING PROGRAM



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REASONS WHY FT. IRWIN RECYCLES

1. Saves Money for Better uses!
2. Saves Natural Resources- by making products from recycled Materials instead of virgin materials, we conserve land and reduce the need to drill for oil and digging for materials.
3. Saves Energy – It usually takes less energy to make recycled products.
4. Save Clean Air and water - In most cases, making products from recycled materials creates less air pollution and water pollution than making products from virgin materials.
5. Saves Landfill space
6. Saves Money and Creates Jobs.

Reason for Recycling Brass;

1. Main objective of BG William Phillips, Commanding General, Joint Munitions and Lethality Life Cycle Management Command.
2. Generates usable income for other recycling projects for Ft. Irwin
3. Keeps Military Grade Brass from being re-loaded by unauthorized users.
4. Helps keep U.S. Military Ammunition that is trained with a fixed price product.
5. It is an Environmental and Safety priority for the Military.





MISSION

- Provide quality Combat Service Support (Css) to NTC tenant and rotational units.
- Provide rotary-wing aviation mission support to NTC tenant and rotational units as well as to other government and civil agencies.
- Provide trained and ready forces to support combat operations in the Global War on Terrorism.
- Provide quality of life to soldiers, civilians, and family members.

VISION

- Be the National Training Center's "Go to" Brigade – always trained and ready to integrate quality logistical support into the fight...leaders in logistical innovation.
- Able to anticipate and provide the war-fighter's needs.
- A command of disciplined soldiers, civilians, and leaders who show mutual respect for each other.
- The most efficient command – leveraging all assets and capabilities.
- An integral part of the Fort Irwin community team.
- Shaping the future of logistics support to the war-fighter.
- Lead the NTC's logistics transformation effort.



PURPOSE

The purpose of Fort Irwin's Air Quality Program within the Directorate of Public Works is to ensure compliance with all laws, regulations and rules, which pertain to the management of Air Quality. The Mojave Desert Air Quality Management District (MDAQMD) is the regulatory agency that governs air pollution control issues for all of San Bernardino County and has jurisdiction over Fort Irwin's air quality issues.



ATK

ATK has the capability to demil on site and meet the requirements for Clean Air Act. Our Mobile Hammer mill operates by a diesel Cummins Engine, that runs on Sulfur Diesel Fuel, that is required by California Fuel Requirements. It emits such a small amount of exhaust that characterizes it under the dominium laws for the Clean Air Act.





OFFICE OF
ATTENTION OF
IMSW-IRW-ZA

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY GARRISON
FORT IRWIN, CA 92310-5000

JAN 12 2006

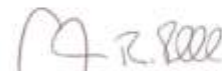
Best Option:

The best option for Fort Irwin would be to send all brass material to Lake City Army Ammunition Plant for Demil. This eliminates all issues with California laws based on EPA and would best suit your Environmental Policy.

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Environmental Policy

1. PURPOSE. To set Fort Irwin's Environmental Policy.
2. APPLICABILITY. This policy covers all of Fort Irwin and the National Training Center
3. REFERENCES. AR 200-1, NTC Regulation 200-1, ISO 14001, and NTC Policy Letter 12
4. POLICY. The mission of the Fort Irwin and the National Training Center (NTC) is to support the Armed Forces of United States through troop training and readiness. We perform this mission in concert with our stewardship responsibility to protect and conserve the environment. We commit to:
 - a. Comply with all applicable environmental policy, laws, regulations, and other requirements.
 - b. Continually assess Fort Irwin's activities and services to determine their effect on the environment, and identify our significant environmental impacts.
 - c. Use objectives and targets developed from our significant impacts to create environmental projects and aim our environmental programs.
 - d. Identify, evaluate, and implement pollution prevention opportunities at Fort Irwin.
 - e. Integrate environmental requirements into our mission and work practices so that environmental awareness and compliance are a routine part of the way Fort Irwin's activities and services are performed.
 - f. Establish performance matrices to assess the effectiveness of our environment programs.
 - g. Actively seek opportunities to continually improve both the environment and our processes.
5. This policy letter will be available to workers and the public through the Fort Irwin Web Site <http://www.irwin.army.mil/Post/Environmental+Info/>. Supervisors will insure that copies of this policy are posted in shops, work areas, and offices as appropriate.
6. My POC is Mr. Chris Woodruff at (760) 380-4987.



CHRISTOPHER R. PHILBRICK
COL, AV
Commanding

DISTRIBUTION: A



ATK Objective: To provide Fort Irwin a fair, safe and legal means to recycle spent cartridge cases.

ATK Demilitarization Capabilities

- High quality / high reliability
- Safe demilitarization operation
- Fair value for residual material
- Certified demilitarized product
- Significantly reduce (if not eliminate) local resources and effort needed at Fort Irwin
- Lifecycle management of recycled metals by using in the production of new ammunition.



Demilled with intent of Recycling only



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- 7.62 cases that are finished and ready to return for recycling.
- Clean, usable, and 100% demilled to spec.





- ATK Hammer mill capable of running all sizes of ammunition for destruction purposes.
- ATK hammer mill is mobile, can be run at your site.

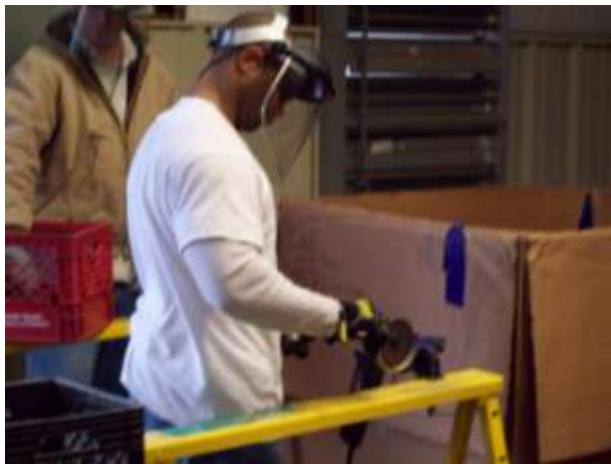


ATK's Mobile Hammer mill



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- Each Aluminum Case will be demilled and Certified as Destroyed.

Ammo Can Issues



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- ATK can provide Fort Irwin other opportunities, by Linking them with a D4 contractor to destruct them and pay Fort Irwin for all used ammo cans.



ALABAMA / FORT RUCKER RECYCLING PROJECT



ARKANSAS NATIONAL GUARD RECYCLING PROJECT



WORK PERFORMED AT THE ASP.

HAWTHORNE RECYCLING PROJECT





McAllister Army Depot



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- ATK provides all transportation costs and demilitarization.
- ATK provides certificate of demilitarization of material on site at Fort Irwin.
- Fort Irwin receives payment decided by the American Metal Market, based on the St. Louis Market for 69% of the 70/30 brass clippings...
- Draw backs:
 - Equitable pricing, but could be increased by option 2 (transportation, handling, and travel expenses lower pricing for demilitarizing of product).
 - California laws pose Environmental issues that need to be meet.
 - Longer time frame for work to be performed due to smaller machinery that is operated on location.

- ATK covers all transportation and demilitarization costs.
- ATK certifies demilitarization of material at a D4 installation.
- Fort Irwin receives payment decided by the American Metal Market, based on the St. Louis Market for **105%** of the 70/30 brass clippings...
- Payment is made to Fort Irwin not DRMO, so Fort Irwin utilizes the money that is generated from the Recycle project for other recycling efforts.
- Benefits to Fort Irwin:
 - Equitable price for metals and additional cost savings (transportation, handling, and demilitarization).
 - Assurance that materials are properly demilitarized under the spec of Military's Demill Manual for small Caliber Ammunition.
 - Operational safety / Hazmins, and Environmental issues covering the demil are solved.

- To provide a win, win opportunity for the Fort Irwin, and ATK.
- To PREVENT anyone from using your scrap ammunition components for non-military purposes.
- Help keep our environment clean, and improve your operational safety.
- To maintain a market for the Military on scrap at a fixed, fair price.
- Provides residual income for other Recycle projects for Fort Irwin.
- To Meet all required laws and requirements by California and the DOD.