

Lone Star AAP DEER2 Contract ARMS working with Technology Transfer

In 1992, Congress enacted the Armament Retooling and Manufacturing Support (ARMS) Act, the result of which is to encourage the use of Army munitions manufacturing facilities for commercial purposes. Accordingly, this has created new business opportunities at the Lone Star Army Ammunition Plant (LSAAP) which now, under the ARMS initiative, offers manufacturing expertise, facilities, and personnel to private sector industry.

Since enactment of the ARMS law, Lone Star has acquired four commercial tenants with a total of 101 tenant employees. Potentially adding to those numbers, a signing ceremony was held recently to support transitioning of an innovative system for Demanufacturing of Electronic Equipment for Reuse and Recycling (DEER2). Government, state, and local officials were on hand for briefings and discussions concerning ARMS and DEER2 as well as economic growth and development at Lone Star AAP in general.

DEER2 is a Congressionally-mandated program managed by the National Defense Center for Environmental Excellence (NDCEE). The Deputy Assistant Secretary of the Army for Environment, Safety, and Occupational



ARMS/DEER2 Contract Signing at Lone Star AAP

Left to right: **LTC Lauren M. Barone**, Commander, Lone Star AAP, **Douglas Borgeson**, ARMS Contracting Officer, U.S. Army Joint Munitions Command, Rock Island, Illinois, **Jerry E. Smith**, Vice President & General Manager, D&Z Lone Star

Health [DASA(ESOH)], Mr. Raymond J. Fatz, is the NDCEE Executive Agent for the Department of Defense. Concurrent Technologies Corporation (CTC) is the operating contractor for NDCEE. Under this Congressional mandate, NDCEE is developing and demonstrating state-of-the-art technologies for demanufacturing electronic equipment at the NDCEE facility in Largo, Florida. The effort is currently in the Demonstration and Validation Phase. NDCEE is scheduled to complete its portion of the effort, tear down the equipment, and transition the technology to Lone Star AAP no later than September 30th of

this year.

Government funding has been provided for training D&Z personnel on operation and maintenance of the DEER2 equipment as well as for disassembly and transportation of the equipment to Lone Star. Additional funds are in process for Lone Star AAP to act as technical monitor of the program at CTC. A D&Z representative will be on-site in Largo to monitor dismantling, marking, and packaging of the equipment prior to shipment.

Area C, the site selected for placement of the equipment at Lone Star AAP, is in "caretaker" status and the ARMS team

has funded \$1.24M for facility activation and equipment installation and debug. One year has been allotted for making the facility operational once the equipment is received at Lone Star. Local contractors will be involved in both the facility restoration and equipment installation efforts. Beyond that, additional funding will be required to transform the DEER2 facility into a full-up production system. Plans are for the facility to be operational in mid-2004 and, when that occurs, D&Z expects to hire about 25 craft and demil employees.

To provide some background concerning the need for this



DEER2 Contract

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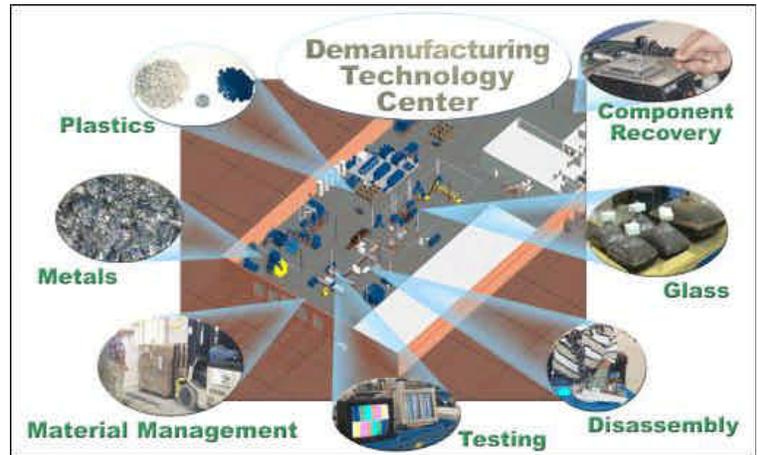
type of facility, nearly 200 million tons of waste are placed in landfills each year. Of that total volume, it is estimated that electronics scrap accounts for at least 1%, which corresponds to landfilling of:

- 160,000 tons of leaded glass
- 472,000 tons of non-ferrous metals
- 120,000 tons of precious metals
- 88,000 tons of mixed plastic
- 6,000 tons of hazardous waste

The Defense Reutilization and Marketing Service (DRMS), a part of the Defense Logistics Agency (DLA), is responsible for handling this effort for all of DoD. According to DRMS reports, the Department of Defense alone generates 30 million pounds of obsolete electronic equipment per year and there is a huge backlog.

To address this environmentally-unacceptable situation, the DoD chartered this DEER2 project to enhance the reuse, recycling, and disposal of public/private sector electronics scrap. This system also provides a unique capability to remove, test, and recover classified/sensitive boards and chips - which requires a secure location such as Lone Star AAP.

Day & Zimmermann became involved because it has a demil program with DRMS that is managed and executed by D&Z's Maintenance staff at Lone Star. Personnel at DRMS Headquarters in Battlecreek, Michigan, recommended Lone Star to the DEER2 community as a good place to site this equipment.



Graphic showing the DEER2 process.

Numerous opportunities exist for communities and states to participate in economic growth at Army ammunition plants. Also available the day of the DEER2 contract signing to discuss economic development were Rick Rhodes, Director of Corporate Expansion & Recruitment, Texas Economic Development, Austin, Texas;

Douglas Borgeson, ARMS Contracting Officer, and Mike Perez, Contract Specialist, U.S. Army Joint Munitions Command, Rock Island, Illinois; and Jim Cherry, President, and Linda Crawford, Vice President for Economic Development, Texarkana Chamber of Commerce.

Milan FRC Update

FR Countermeasures Inc. (FRC) was formed in May 2002 as a U.S. subsidiary of Flight Refuelling Limited of the United Kingdom. The FRC facility is proud to be located in Milan, Tennessee. FRC has leased manufacturing space from the U. S. Government under the auspices of the ARMS program and is currently renovating unused manufacturing lines located within the U.S. Army Ammunition Plant (MLAAP).

FRC is putting a huge investment into the development of a world class pyrotechnic facility. The residents of Milan, TN and the surrounding areas are delighted to see a new company emerge among the recent closings of several area manufacturers. The majority of the \$16.5 million investment has been used to prepare Line Z, MLAAP for conventional MTV (magnesium-teflon-viton) Infrared (IR) flare production to suit a

wide variety of applications for the U.S. Navy, Army, Air Force, Marines and allied governments.

In addition, FRC will be set up to manufacture a new advanced technology IR airborne countermeasure with a multi spectral capability.





At Redstone Arsenal, Alabama, Westwind Technologies Makes Quality Fly

Westwind Technologies, Inc., a fast-growing small business in the military aviation market, is carving out its niche in the aircraft engineering and modification business. Working under a Facilities Use contract that employs the tenets of the ARMS program, Westwind brings its years of experience with military helicopter modifications to the primary customers' backyard.

Since August 1999, when the Facilities Use contract was issued by Rock Island, Illinois' Operations Support Command, Westwind has operated the Logistics Support Facility, occupying both office and hangar space on Huntsville, Alabama's Redstone Arsenal. Redstone is home to the Army's Program Executive Office, Aviation (PEO AVN) and Aviation and Missile Command (AMCOM). Within the approximate 16,000 sq. ft of previously vacated facilities, Westwind concentrates on providing high-quality, low-cost aviation services to the Army community with which it is co-located. The high-bay hangar facility, with Redstone Airfield access, has become the center of activity for design and prototype installation of major modification kits, primarily for the Army's BLACK HAWK and Chinook helicopters.

Currently 110 employees and growing, Westwind began the Logistics Support Facility (LSF) contract just over three years ago with a small staff of

on-site employees and some unique ideas for public-private partnering to achieve first-class support of legacy aircraft systems. Since that time Westwind's LSF has developed a world-class operation for performance of the entire spectrum of aviation mission area support--structural modifications, design engineering, prototype and production engineering, component repairs, parts fabrication, complex avionics integration and installation and modification kit building--all under the highest quality standards, delivered on schedule and at considerable savings to the government customer. A complete one-stop avionics/electrical harness manufacturing center, including a state-of-the-art laser wire marking machine, complements Westwind's engineering and production core competencies. Sheet metal equipment, avionics test sets, aircraft jigs/fixtures and associated tools round out the aircraft hangar facilities.

Undergirding Westwind's noteworthy success in a highly competitive market segment is its total commitment to quality. As a young Small Business, one of Westwind's first corporate goals was to achieve ISO-certified status. Now an ISO 9001:1994 certified company heading toward ISO 9001:2000/AS9100 certification this year, Westwind has molded its technical expertise, quick-reaction capability and cost-effective performance into a model of faster-better-cheaper



Inside Hangar 4803, Westwind's aircraft modification facility on Redstone Arsenal.

project execution. As a recently completed Price Waterhouse Coopers audit confirms, Westwind has proven cost-effective performance resulting in 20-80% savings to the customer.

Many of Westwind's success stories translate directly to Army successes, under both peacetime and conflict scenarios. Significant peacetime application occurred recently when, using BLACK HAWK helicopters that Westwind modified to a Search and Rescue (SAR) configuration, hunters trapped by floodwaters were rescued and the injured pilot of a crashed commuter plane was found and flown to safety. And on the military side, Westwind-modified helicopters upgraded with enhanced Aircraft Survivability Equipment (ASE) have seen action in real-world scenarios. With its broad range in scope, the LSF contract accommodates disparate programs such as these, spelling a diversity that is available for use

by all Government agencies. In fact, Westwind has recently begun work on its first major project for the Air Force--a design, prototype and kit production effort to increase crewseat maneuverability. "We're excited about working across the Services, and look forward to expanding the LSF contract use to other Government customers" says Peter Beucher, Westwind's President and CEO.

As the ARMS program has proven many times, smart facilities use and private investment in facilities improvements make good economic sense. For Westwind and the Army, the combination of quality performance, at the customer's doorstep, and putting facilities to good economic use is the formula for this small business model program success.

For further information visit Westwind's website:
www.westwindcorp.com.



ARMS, Chamberlain Manufacturing Corporation and the Scranton Army Ammunition Plant

The ARMS program at Chamberlain Manufacturing and the Scranton Army Ammunition Plant is proving to be quite beneficial in achieving its objectives. The objectives of the ARMS program at Scranton are lowering overhead, keeping equipment out of lay-away and most important, retaining skills of employees for the production of large caliber metal projectile parts.

Chamberlain Manufacturing is currently producing two commercial products at the Scranton Army Ammunition Plant. They are tool joints, used in the manufacture of drill pipe for the oil & gas drilling industry, and high-pressure filter bowls, used in the hydraulic filtration industry. Chamberlain Manufacturing has been, and is currently doing development work to bring additional commercial products into the Scranton Army Ammunition Plant.

The production of commercial products at the Scranton Army Ammunition Plant also keeps equipment out of lay-away. Equipment such as

saws, heat-to-forge furnaces, forge presses, phosphate lines, heat treat equipment, shot-blasting equipment, destructive and non-destructive test equipment, rough and finish machining equipment are being utilized that would otherwise remain idle due to lack of work for those specific pieces of equipment.

“The most important aspect of the ARMS program and bringing commercial products into the Scranton Army Ammunition Plant is the retention of employee skills to produce large caliber metal projectile parts for the U.S. Government. Skills utilized by the employees of Chamberlain Manufacturing at the Scranton Army Ammunition Plant are highly unique in the forging industry, due to the nature of the equipment and the large caliber ammunition products we produce. Retaining these skills are critical to the nation's defense,” said John Iagnemma, Commercial Products Business Manager.

You can see more about commercial products on Chamberlain Manufacturing's website at www.chamberlainmfg.com.



A sample of Chamberlain products.