FACILITY NAME: ROCK ISLAND ARSENAL

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1. DESCRIBE THE TYPE AND SIZE OF YOUR MILITARY INSTALLATION:

The Rock Island Arsenal is an active Army installation located on an island in the Mississippi River between Rock Island, IL, and Davenport, IA. The island is 3 miles long and one half mile wide. The island is "home" to three separate facilities; the Rock Island Arsenal, the U.S. Army Corps of Engineers – Rock Island District and the National Cemetery. The relative acreages for each is

Rock Island Arsenal – 900 acres
U.S. Army Corps of Eng – 20 "
National Cemetery – 30
Photo 1: Overhead view of Rock Island Arsenal - the Mississippi River is on the left and Rock Island, Illinois is on the left of the picture.

The small channel on the right is the Sylvan Slough. USACE – Lock and Dam 15 is visible in the lower left and the historic Arsenal "Government Bridge" is visible just above the Lock and Dam.

The Arsenal is a weapons manufacturer – and, the largest foundry in the US Army. The primary production item at Rock Island Arsenal is gun mounts for tanks, artillery and spare parts. The arsenal has a logistics function that includes fabrication of shop sets, kits and outfits, and basic issue items. Additionally, the Arsenal maintains a depot operation to store and distribute supplies.

There are approximately 6200 government employees, tenants, contractors and military personnel who work on the Arsenal. The base personnel number about 1200, the command number about 750, and a Department of Army contingent number about 400. The National Cemetery employees number about 25 and the Corps of Engineers number around 1000.

Rock Island Arsenal is on the Register of Historic Buildings and is registered as a Historic District. The Rodman Avenue Historic District is comprised of Buildings 60 to 68, 102 to 110 along both sides of Rodman Avenue.
Also Buildings 301, 2, 3 4 and 6 are on the Register but are located along Mississippi River.
2. LIST THE ENVIRONMENTAL GOALS FOR YOUR INSTALLATION. (E.g., reduce waste by X percent each year, increase efficiency by X percent over the next ____ year, provide environmental awareness training to X number of staff, establish an employee incentive program to generate waste reduction ideas, increase purchase of X types of products made with recycled content and replace ____ raw materials and supplies that have hazardous components with acceptable substitutes that have no or less hazardous ingredients). Describe the progress you have made towards achieving them in the previous year. The goals may be facility or process-level
specific. They should also be indexed to account for changes in production or service levels.

A. Reduce hazardous waste by 10% in the previous year.

B. Reduce municipal waste by 5% percent from the previous year.

C. Reduce or manage lead-based paint by 5% percent from the last year.

D. Manage/reduce Universal waste by 10% percent from the last year.

E. Reduce lead-based paint in the factory and housing units by 10% from the previous year.

F. Reduce asbestos related materials in the factory and other buildings by 10% from the previous year.

3. Describe the pollution prevention (P2) projects you have implemented in the previous calendar year. (You may include an attachment summarizing past P2 accomplishments with your first year report.)

A. Completed a cross connection system for drinking water that covered the entire Installation.

B. Procured and installed an acid purifier in the Electroplating Shop

C. Procure and evaluate a solvent based paint system that utilized a carbon dioxide supercritical fluid based spray paint system

D. Develop and evaluate a Pharmacy or HazMat Dispensing system. (the Pharmacy experienced start up problems that have not been solved yet.)

E. The Arsenal has developed and finalized a "Partnership" which has been patterned after the P2 Partnerships between the EPA's and the military installations in the state of Illinois. The partnership is with the City of Rock Island, Illinois and the Public Works Department; and in specific the Sanitary Waste Treatment District. It is also based on P2 and it pertains to the entire Arsenal installation in so far as applying P2 principles to reduction in waste stream volumes and concentrations.

The Partnership, while on tour at the Arsenal, in Sept 2000, developed guidelines for a P2 project that involved the Arsenal's Government Bridge. Waste Management – Univ of Ill is developing the scope and costs for the P2 project to clean the mechanisms of the swing span of the Government Bridge.

4. Where feasible, quantify and environmental improvements, cost-savings, or other benefits (e.g., enhanced community relations, improved employee morale, decreased
regulatory transaction costs) associated with implementing P2 projects during the previous year.

A. Rock Island Arsenal has documented return of recycle $ to the Arsenal. FY 2000, RIA recycled $185,245 worth of materials back to industry. The Arsenal is slated to receive about $90,000 from the Dept of Army; from which environmental projects that benefit the employees will be funded. A survey has been designed to query the employees about their wants for an environmental project.

5. Describe any efforts to involve members of the local community in your environmental programs (e.g., convened a public meeting to identify issues and solicit feedback, distributed facility information using newsletters or media, conducted an installation tour, formed a citizen advisory committee).

A. Rock Island Arsenal does not have a formal citizen advisory committee (CAC). We have utilized the public notification segment of the National Environmental Policy Act (NEPA) for notifying surrounding communities of impending environmental actions that will affect them. We have published articles in both the Island newspaper and the local community newspapers concerning those actions. We will have a CAC that we are required under CERCLA to form and to implement that will be getting organized in 2001. The CAC will be formed to discuss the remediation project that we have in process, concerning the "Old Landfill" at the Arsenal.

B. The Arsenal has a monthly meeting called the "Town Hall" to which all personnel under the Arsenal Commander are to go to discuss topics of concern. The Environmental Office attends all meeting.

C. The Arsenal has volunteered to join a committee, called the Ozone Action Committee, whose goal is to locate remedies for the high ozone levels in the Quad-cities region in the summer time. The committee has developed educational materials and provided those to the local high school teachers and to local TV new anchors for dissemination during the ozone action days.

6. Describe any efforts to foster exchange of P2 information and technology transfer (e.g., provided technical assistance to other facilities, organized tours of innovative installation projects, worked with suppliers and gave a presentation at a technical meeting).

A. The Arsenal Environmental Office is an expert resource available to the Command levels here at the Arsenal and elsewhere. Since the Arsenal is home to three levels we are able to provide technical assistance to military installations across the United States, Europe, and the Far East. This assistance has taken several forms; one is training, and the other is assistance on remediation. As to the training, the Arsenal has developed a training methodology that is appropriate for the majority of the U.S. manufacturers that produce metal related products. We also act as technical assistance through the local
community colleges in the form of classes on waste generation, or remediation of sites, general environmental topics, etc.

B. The Arsenal has hosted many tours for interested parties concerned with Arsenal activities. We have hosted the EPA, many military installations, professional groups, universities, and societies. We have also taken our expertise to other training events, such as safety and related types of meetings here on Post or at locations in the area.

**** PREVIOUS P2 PROJECTS *****

A. Developed a Center for Technology Exchange for the Army in Electroplate expertise

B. Developed the Asbestos Management System for Army Housing Units for the Dept of Army

C. Developed a Lead-based Paint management system for Army Housing Units for the Dept of Army

D. Convert a water-wall paint booth to a dry-wall paint booth (eliminate pretreatment site from permit and sludge from the permitted disposal site.

E. Procured and evaluated a drier for electroplating process wastes. (Reduced waste volume by 75%.

F. Procured and evaluated a foundry moulding sand recycling system. System recycled 95% of the sand reducing waste to landfill by 95%.