

Time Critical Cleanup, Transportation and Disposal of Hazardous Wastes/Burn Rubble from Fire at Building 41-010, Pine Bluff Arsenal

PROJECT HIGHLIGHTS

- *Time Critical Cleanup of Building 41-010 Debris*
- *Segregated White Phosphorus (WP) Waste from Asbestos Contaminated Material (ACM) Debris*
- *Packaged, Transported and Disposed of WP Waste in Accordance with Local, State and Federal Regulations*
- *Provided Documentation of Cleanup*
- *Six Follow-on Contracts*
- *Zero OSHA Violations and Zero Lost Work Days*

PINE BLUFF ARSENAL (PBA)

PBA provides specialized manufacturing, maintenance, storage and distribution of readiness products and delivers technical services to the war fighter and homeland defender, while focusing on quality and value when responding to national defense needs. To support the mission of PBA, warehouses are used to store readiness products, including White Phosphorous (WP), in designated areas of the PBA. On June 6, 2005, a fire occurred at Building 41-010 and destroyed the building. Building 41-010 was a warehouse built in the 1940's that was used to store canisters of WP. Consistent with construction practices of the time, Building 41-010 was built with fire-retardant transite panels that contained non-friable asbestos. Transite and WP debris was scattered in a 100- to 150-foot radius around the former building.

PIKA's original objective for this project was the time-critical cleanup, packaging, transportation, and disposal (T&D) of WP contaminated M825 canisters, WP contaminated waste and asbestos contaminated rubble from cleanup of the fire at Building 41-010. Additionally, PIKA was tasked with the inspection, packaging and T&D of 4,000 2.75 inch WP rocket canisters; WP felts contained in 30-gallon drums; M825 canisters with bursters and to provide documentation of the cleanup. After approval of the Work Plan, Accident Prevention Plan, Site Safety and Health Plan, and Asbestos Abatement Plan, PIKA began mobilization efforts. Once mobilized, PIKA set about achieving project objectives in the following manner:

SERVICES PERFORMED

- UXO Technicians were specially trained as asbestos removal workers due to the presence of mixed waste at Bldg. 41-010 i.e. WP munitions and non-friable asbestos;
- Segregating and removing debris containing WP, Asbestos Containing Material (ACM) and other non-contaminated material from outside the footprint of Building 41-010, then containerizing the material for off-site disposal/recycling; Removing the WP canisters from within the footprint of Building 41-010;
- Sorting and processing the recovered WP canisters using a White Phosphorus Treatment Unit (WPTU), designed and fabricated by PIKA, then containerizing the materials for off-site disposal;
- Segregating and removing debris from within the footprint of Building 41-010, then containerizing the materials for off-site disposal/recycling; and
- Performing the packaging, transportation, and disposal of WP waste from various other buildings.

While PIKA was originally contracted to perform the time-critical cleanup of the WP warehouse, our role expanded and PIKA has since been awarded multiple work orders and contracts to inspect, package, transport and dispose of various hazardous wastes from the Arsenal which includes ordnance items, various TA & HC Smoke Pots, smoke mixes, discarded military munitions and the disassembly and disposal of 9,750 M825 WP canisters and 1,900 2.75 inch rocket WP canisters using the WPTU.

INNOVATIVE TECHNOLOGY

White Phosphorus Treatment Unit (WPTU) for demilitarization of intact canisters.

