



EDi No. 263



21. former Loran-American Beryllium Corporation (ABC) Bldgs. 4&5 D&D and Bldgs. 1-3 Decontamination

22. Year Completed Professional Service:

2011

Year Completed (if applicable) Construction:

n/a

1600 Tallevast Road Tallevast, Florida 34243

Contract Role:  Prime Contractor  Subcontractor

CAGE Code: ID1U3

DUNS Number: 61.680.5073

23 a. Project Owner:

Lockheed Martin Corporation 1600 Tallevast Road Tallevast, FL 34243

23 b. Point of Contact Name:

Paul Calligan

23 c. Point of Contact Phone:

240.676.5392

paul.calligan@lmco.com

Key Personnel:

Mr. John Rodell	COO & Sr. Program Manager	jrodell@edi-nm.com	720.227.1956
Mr. Chris Edgmon	Sr. Project Manager	cedgmon@edi-nm.com	505.341.3578

24. (Include scope, size, and cost) Brief Description of Project and Relevance to this Contract:

Awarded Price: \$3,699,081.35

Final/Projected Cost: \$3,699,081.35

Award Date: 09.12.2008

Contract No.: P.O. #IIM625010 & IIM625066

Period of Performance: 09.12.2008 – 12.31.2011

Final or Projected Schedule: 5.31.2011

Contract Type:  Firm Fixed Price  Cost Reimbursement  Time and Materials  Cost Plus Fixed Fee  Cost Plus Award Fee  Performance Based

Type of Work Performed: 562910, Environmental Remediation

% of Work Self Performed: 70%

% of Work as Subcontractor: 30%

Contracting Officer (if applicable):

Bob Fogelson Procurement Project Manager

Contracting Agency & Address:

Lockheed Martin Corporation 6801 Rockledge Drive • MP - CLE610 Bethesda, MD 20817

Contracting Officer Contact Info.:

301.214.365, voice 301.214.9502, fax bob.d.fogelson@lmco.com

Background

The American Beryllium Company (ABC) operated a manufacturing facility in Tallevast, Florida from 1962 to 1996. Chemicals used and wastes generated at the facility included oils, petroleum-based fuels, solvents, acids, and metals. In 1996, Lockheed Martin Corporation (LMC) purchased the ABC facility and closed it later that year. In 2000, LMC sold the Tallevast facility but retained responsibility to clean up the ground water and soils on and off the site.

The property consists of 5.2 acres. The ABC site was an ultra-precision machine parts manufacturing plant, where metals were milled, lathed, and

drilled into various components. The plant was shut down in September 1996 after Lockheed Martin acquired Loral Metals Technology, the former holding corporation of ABC.

The property contained five primary buildings covering approximately 66,000 square feet. Two buildings—#4 and #5—were situated on top of the area along with the highest contaminant concentrations. Building 4 housed a woodworking shop, inspection room, and laboratory and process room. Building 5 housed painting and anodizing rooms, a wastewater treatment system, and hazardous materials storage. Both buildings were approximately 10,000 square feet each and built in the 1970s.



ABC Buildings 4 & 5 Project Site, Tallevast, FL

21. ABC Bldgs. 4&5 D&D / Bldgs.1-3 Decontamination (continued)

**Scope of Work**

LMC contracted EDi beginning in 2008 to perform beryllium removal at five buildings at the former ABC site. The project consists of two major parts:

1. Beryllium decontamination of Buildings 1 and 3, in preparation for refurbishment and reuse of the buildings, and
2. Beryllium decontamination AND removal of all debris items (e.g., equipment, desks, air conditioning/heating units), utilities, and ceiling materials from Buildings 4 and 5 in preparation for final demolition.

The project involved the following work elements:

- ❑ **Plan development.** EDi developed five plans: Health and Safety Plan, Waste Management Plan, Quality Assurance Plan, Sampling Plan, and Work Plan. These five plans were submitted to LMC for review and approval prior to project mobilization.
- ❑ **Mobilization activities.** EDi moved key personnel from Albuquerque and Oak Ridge to Florida, hired local labor, procured equipment and materials, and conducted video and live training covering work plans and health and safety issues.
- ❑ **Utility shutdowns.** EDi coordinated with Florida Power and Light on shutdown of transformers that provided power to Buildings 4 and 5.
- ❑ **Fixture/item removal, decontamination of all structural surfaces, and fixative application.** EDi removed all fixtures from Buildings 4 and 5. Initially, this work included double wrapping and removing floor items such as desks, eraser boards, carpet, and light fixtures. Once debris items were removed from the floor, EDi then double wrapped and removed ceiling tiles, any piping above the ceiling tiles, and air-conditioning/heating ductwork. After all fixtures and pre-identified objects had been removed from the buildings, personnel began a three-step decontamination process to achieve the specified cleanup criteria.
  - Step 1 was a thorough HEPA vacuum pass of all horizontal surfaces using portable, backpack HEPA vacuums.
  - Step 2 was a physical wipe down of all surfaces to remove any residual beryllium contamination.
  - Step 3 was application of a fixative to ensure any residual contamination was immobilized, thus significantly reducing the potential for re-suspension during demolition of the buildings. For Buildings 1 and 3, EDi double wrapped and removed ceiling tiles, insulation, ductwork, and air-conditioning units, then performed a thorough decontamination of the buildings.
- ❑ **Waste management.** Waste generated during the project was properly packaged and transported in accordance with the subcontract waste disposal facilities' waste acceptance criteria and U.S. Department of Transportation regulations.
- ❑ **Air sample collection.** EDi collected personnel breathing zone samples during decontamination and decommissioning of the buildings.
- ❑ **Swipe sample collection.** EDi collected periodic swipe samples to confirm areas within the buildings were clean.
- ❑ **Asbestos removal.** EDi supervised a subcontractor in removal of asbestos from Buildings 4 and 5, primarily mastic and flashing.
- ❑ **Encapsulation.** In Buildings 1 through 3, EDi encapsulated surfaces above the ceiling tiles using Fiberlock raw latex. In Buildings 4 and 5, EDi applied a fixative spray (Grip-tack) using an airless spray gun.
- ❑ **Disposal of contaminated materials.** To accomplish disposal, EDi:
  - Lined 20 yd<sup>3</sup> roll-offs with reinforced 6 mil polyethylene sheeting.
  - Place the removed fixtures in roll-off in a manner minimizing damage to the sheeting.
  - Beryllium wastes (except for commercial beryllium power) were disposed of in construction and demolition landfills. Asbestos wastes were disposed of in landfills approved for this very purpose.



HEPA backpack-style canister vacuums used to decontaminate surfaces of beryllium project-wide.

**21. ABC Bldgs. 4&5 D&D / Bldgs.1-3 Decontamination (concluded )**

**Worker Health and Safety**

**Training**

All employees present during beryllium removal completed safety training meeting the requirements of paragraph (e) of OSHA's HAZWoper standard. EDi also provided training related to beryllium hazards.

**Medical Examinations & PPE**

All staff engaged in beryllium removal were required to have medical approval to conduct this work as per paragraph (f) of OSHA's HAZWoper standard. Medical examinations included beryllium lymphocyte proliferation tests (LPT) to identify any sensitive individuals. EDi personnel used respiratory protection in accordance with OSHA standards.



**25. Firms/Subcontractors involved with this Project:**

	(1) Firm Name	(2) City and State	(3) Role
a.	AMEC Earth & Environmental, Inc. Vickie Maranville or Dan Kwiecinski	8519 Jefferson, NE Albuquerque, NM 505.821.1801	Subcontractor: Plan Management & Oversight
b.	Cross Environmental Services, Inc. Eric Morgan	39646 Fig Street Crystal Springs, FL 33524 813.783.1688	Subcontractor: Asbestos Survey
c.	Baker & Sons Air Conditioning, Inc. Stan Harris, CEM	164 Sarasota Center Blvd. Sarasota, FL 34240	Subcontractor: HVAC & Air Handling Unit Removal and Disposition