



**Engineering &
Environmental**
CONSTRUCTION

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PCB ABATEMENT & CAPPING

CASE STUDY

PROJECT OVERVIEW

Project Name: PCB Abatement & Capping

Location: Aerospace Facility

Job Type: PCB Abatement/Capping

MAIN TASKS

- Disconnect, relocate, and replace large equipment, mostly by use of 28,000 lb capacity forklifts.
- Abatement and cleaning of ceilings, walls, piping, ductwork.
- Cleaning and capping of PCB contaminated concrete.



DESCRIPTION

E&E Construction was contracted to safely clean and remove polychlorinated biphenyl (PCB) contaminated materials, as well as clean and cap the PCB tainted, concrete substrate. Great care was used during the removal and cleaning of the potentially harmful materials as this project had to be completed within a working, ten thousand square foot, Aerospace facility. The facility, which remained open during the construction, houses vacuum and air handling machinery, offices and main electrical power.



CHALLENGES

- Hazardous Material risks – Performing cleaning and abatement effort while surrounding workers and processes continued to operate.
- Access Overhead Mechanical Systems – Safely access overhead piping, ceiling, and walls. Multiple types of man-lifts and scaffolding were used to access hard to reach areas.
- Short Timeline – All work had to be completed in very short amount of time while plant production continued with no down time.

INTERESTING POINTS

- To minimize disruptions to the ongoing production, the facility was divided into four twenty-five hundred square foot quadrants. Prior to commencing work in the cordoned sections, E&E carefully removed and relocated all existing equipment to gain access to the walls and ceilings.
- To protect the work area from contamination, plastic sheeting was placed from floor to ceiling. Once in place, E&E cleaned, primed and painted all overhead piping, conduit, and ventilation.
- The concrete flooring was pressure washed and scoured to remove all contaminants. Once clean, two coats of thick epoxy were applied.
- An additional 6 inch thick, 5000 PSI, concrete cap was applied over the decontaminated substrate.

ABOUT E&E CONSTRUCTION

Engineering and Environmental Construction (E&E) was founded in 2006 with a primary focus on the installation of environmental remediation systems. Over the years, we've continually expanded our skill-sets to become one of the industry's leading purveyors of full-service construction services – both within the environmental industry and in general construction. Today, we are proud to offer a wide range of highly specialized environmental engineering capabilities and a full-suite of general construction services to support our clients' ever-evolving needs.



STATEMENT OF QUALIFICATIONS

Engineering and Environmental Construction, Inc (E&E) is a privately held corporation established in 2006. E&E's main construction offices are based in Huntington Beach, CA. We are licensed to conduct operations throughout California, Arizona, Nevada, and Washington.

Contractor Licenses and Certifications Include (but aren't limited to):

- Class A General Engineering License
- B General Building License
- C-10 Electrical License
- C-36 Plumbing License
- Hazardous Substances Removal License
- Annual OSHA Excavation & Trenching Certification
- Remedial Action Certification
- SCAQMD Rule 1166 – Various Locations Permit

E&E is recognized as an SBE with many entities, such as the DGS, and we are also pre-cleared by Homeland Security for access to ports and military installations. We maintain a Zero Incident Safety Record and a 0.78 Experience Modification Rate (EMR), among other H&S recognitions.

CONTACT US

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