



CASE STUDY

PCB Abatement & Capping

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.

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.

CHALLENGES

Hazardous Material Risks – Performing cleaning and abatement effort while surrounding workers and processes continued to operate.

Short Timeline – All work had to be completed in a very short amount of time while plant production continued with no down time.

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.

INTERESTING POINTS

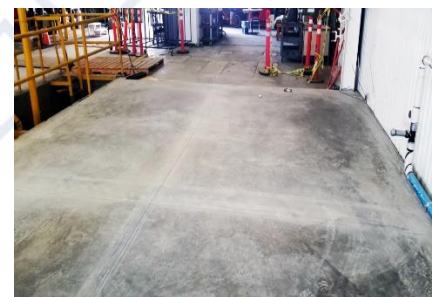
To minimize disruptions to the ongoing production, the facility was divided into four twenty-five hundred square foot quadrants. Prior to commencing work in the cordoned

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. The base layer epoxy was a bright red with the second layer in yellow, providing not only an encapsulation barrier beneath the concrete cap, but also a two-stage visual warning to help prevent any future incursions into the deeper remaining contaminated zones.

An additional 6 inch thick, 5000 PSI, concrete cap was applied over the decontaminated substrate.



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