

Project Profile

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Project Profile – Flooding / CAT 3 Water Damage & Hazardous Material Decontamination

Client(s): Patterson Pumps
Month/Year, Sept. 2009 – CAT 3 Water Damage/Flooding & Hazmat
Project Type, Decontamination– Toccoa, GA – 350,000 Sq. Ft. Industrial/
Environment, Manufacturing Facility with executive and administrative
Location & offices on two-stories – Shawn Delgado, Senior Estimator
Project Mgr.: & Project Mgr., FCR

Client or Location Profile: Patterson Pump Company is one of the world's leading suppliers of quality pumps for the Fire, Municipal, Industrial, Flood Control, Plumbing, and HVAC Markets with an extensive product offering serving customers World-Wide. The affected location is a premier industrial pump factory which produces many different types/sizes of pumps, (some measure 15-feet in diameter & over 60-feet tall, used to manage water flow in New Orleans, LA where the water-table is high & the levees low. **Example:** Giant Axial Flow Pumps for levees.

Specifications:

- 11-foot dia. suction bell, 52-foot-long & 110,000 lbs.
- 260,000-gpm driven by 2,000 hp Caterpillar
- Moves water equivalent to seven 35,000-gallon swimming pools every min.

Situational Info: NOAA monitors Historic Flooding over 100-yr. Levels in GA
 – CAT 3 Water Damage to Manufacturing Areas, Warehouse & executive/administrative offices
 – Federal Disaster Declaration w/20" in 3-days

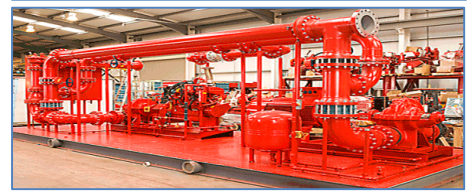
Business Interrupted

- Patterson employees first attempted decontamination & clean-up
- Vaporized contamination in high humidity environment affected/dripping from equipment, walls, ceilings & floors

General Scope: Emergency Mitigation, Water Extraction, Hazardous Material Clean-up, Remediation, Structural Drying, Facility Cleaning, Construction Restoration over 24-Days, using 8,464 man-hours.

Total Project Cost: Total Reconstruction Pricing Unknown – Full Circle was utilized for Pump-out, extraction, gross decontamination, clean-up & structural drying. Other services and other repairs were not included in our scope. They were contracted separately/ directly and therefore, we do not have this info.

FCR's Fees: \$395,000



NOAA rainfall map for 1-wk ending Sept. 23, 2009



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FCR's Role: **Primary Goal:** Reduce business interruption. Emergency Mitigation, Water Extraction, Hazmat Clean-up, Structural Drying, Cleaning, and Restoration.

Description & Origin: **Extensive Business Interruption:** Rains saturated the SE USA, flooding in Atlanta area topped 100-year historic levels, the creek behind Patterson overflowed into the facility & disrupted business. Company workers tried unsuccessfully to steer water away from the building. When waters subsided company workers attempted clean-up of the toxic mixture. They soon realized the difficulty of the task and increased employee exposure to paints, oils, petroleum, hydraulic fluids, detergents & other chemicals. The mixture had combined with extremely hazardous flood water which had already picked up pesticides, fertilizers, animal waste, and other dangerous materials on its journey. At this point, Patterson was referred to Full Circle. FCR immediately collaborated with plant management and insurance company officials to devise a plan that met the needs of each party. Then, FCR responded rapidly with technical expertise, equipment and manpower utilizing articulate lifts and scissor lifts to work around sensitive equipment, power/technology wiring and plumbing conduits, operating 24-hours a day, with 2-3 shifts of 35-85 people, to reduce Patterson's production downtime and the insurance company's business interruption expense.

Equipment & Protocol: Mitigation was conducted according to the IICRC S500 procedural standards & reference guidelines. FCR used high-temp hot-water pressure washers, scissor lifts, articulating lifts, truck-mount and portable extractors, specialized detergents, disinfectants, degreasers and cleaners in conjunction with hand-wiping.

Challenges & Obstacles: Patterson's earlier attempts to self-perform the cleaning intensified the situation, making it a more difficult project than it originally would have been. FCR was already dispatched to emergency mitigation situations all over the ATL-metro area for over 3-weeks representing hundreds of projects from thousands of inquiries/calls.

Results, True Value & Additional Value: FCR responded immediately and brought the necessary resources and assets to bear, enabling the electricians & equipment technicians to repair/replace components of the electronic and mechanical equipment as necessary, thus reducing downtime and minimizing business interruption and the related insurance claim cost.

