AMERICAN TECHNOLOGIES, INC.

Electrical Distribution & Power Gear Refurbishment

PROJECT PROFILE

Type of job: Electrical Distribution & Power Gear Refurbishment

Situation

A cotton thread manufacturer had a power outage due to an electrical incident. A main set of conductors from the utility transformer feeding the main gear failed. The insulation smoldered and burnt in the conduit resulting in shorting all feeders in the adjacent conduits. The main distribution panel was heavily damaged by the smoke. The fire was contained and damages were limited to the electrical room & cabinet. The smoldering jacket produced heavy chloride contamination resulting in corrosion throughout the cabinet into the main buss system, lugs, CT's, main breakers and sub breakers. This event brought work at this 24 hour plant to a stand still.

ATI Services

ATI was dispatched to assess the condition of the 480/277 volt main electrical gear. We were given 5 days to complete the project so the plant could be brought back online and resume production. ATI provides electrical restoration and refurbishment to NEMA standards.

Our services entailed:

- Removal of main circuit breaker, sub breakers and low voltage components
- Disassembly of cabinet, wire lugs, grounding straps, insulators and busses. Assessment, rebuilding and final testing of main breaker by OEM
- CO^2 blasting of cabinet and buss components
- Polishing of the buss and repainting of the cabinet
- Reassembly of the buss system including re-torqueing of buss bolts
- Third party NETA electrical testing
- Installation of new low voltage controls, amp meter and CT's

▲ BEFORE

▲ AFTER

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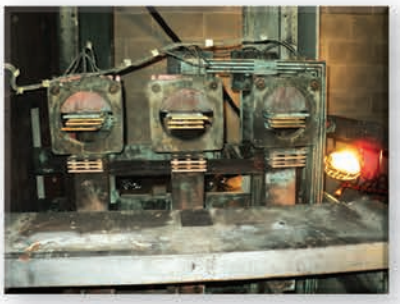
- Insulation resistance testing to NETA standards
- OEM assistance and recertification of cabinet
- IR Inspections
- Start Up Assistance

The ATI Advantage

Expert level training and experience with technical losses to power gear allowed for ATI to quickly assess, dismantle, contract for services and expedite parts. Quick decontamination of the buss and cabinet, neutralizing smoke, priming and painting of the cabinet. Plus turn-key around the clock work gave our client the benefit of our knowledge.

Results

The gear was rebuilt, tested and back on line within 5 days of ATI beginning the process. This allowed for our work to be completed on-time and on budget. The equipment functioned well and had initial breaker settings adjusted by OEM of the electrical gear. After the distribution equipment was deemed sound the plants production equipment was then powered up. It was successfully power tested, phase rotation confirmed allowing the equipment to be ramped up with final start up checks to control panels, VFD's, pumps and motors. Within another day the plant equipment was recommissioned with no downstream damage. ATI's capabilities and knowledge allowed for the plant to come on line in short order and begin production within 6 days of ATI arriving on site.



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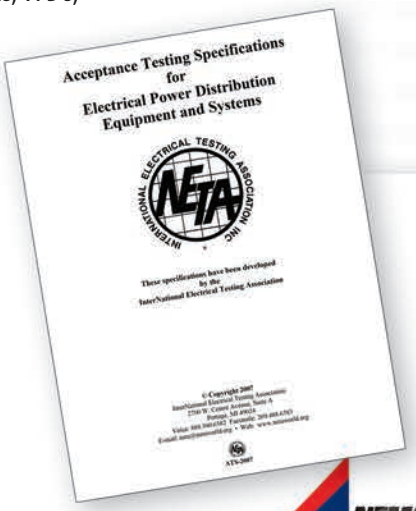

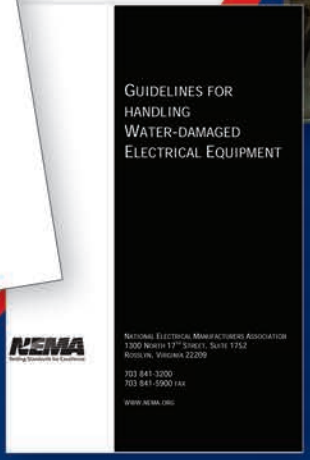

CALL AT **(800)400-9353** OR VISIT US AT **www.ATIrestoration.com**