

## Medical Equipment - Case Study

Coastal Technical Services (CTS) was contracted to assist with a loss involving medical equipment in hospital buildings that were severely damaged by tornado force winds. The total value of the loss was significant, as perhaps the largest single hospital/ medical disaster ever experienced on American soil.

At the time of the event, the buildings and equipment contents were potentially exposed to damage on a variety of levels, including electrical failure and surge, direct exposure to wind, building debris, and water. Moreover, extended exposure to moisture, contaminants, and molds might compound damage in the compromised environment.

The range of equipment types included particle accelerators, magnetic resonance imagers (MRI), Computer Tomography (CT) scanners, X-ray machines, dialysis



*Over Ten Thousand Medical Equipment Items*



*Restored Overhead X-Ray Unit in Operation*

machines, laser surgery system(s), computer servers, network gear, IV pumps, blood analyzers, beds, and more.

After potential health and safety risks from biological and radiological sources were tested and eliminated, Coastal Technical Services administered emergency corrosion abatement treatment of critical equipment. CTS also assisted the insurance company with organizational and inventory activities.

CTS then inspected and chemically tested the contamination levels of certain major medical systems to survey the extent and nature of exposure in various locations of the hospital facilities. Based upon the results, CTS was asked to restore and test specific X-Ray equipment that was immediately employed by hospital staff to service the devastated local community.

***CTS provides consulting and engineering services for electronic and electromechanical equipment that has been affected by a contamination event. (Fire, Flood, Concrete/Construction dust, etc.)  
 When you have claims that include electronics or electromechanical equipment, call the professionals at CTS.***

**Call: 800-662-2627**

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CTS worked with medical equipment manufacturers and qualified specialists to efficiently uninstall, move, and fully restore several pieces of equipment including CT scanner(s), overhead X-Ray systems, ultrasound equipment, sterilizers, and more. Whenever possible, CTS partnered with manufacturers to promote the highest quality restoration outcome.

The insured had originally insisted upon the replacement value of new equipment from the insurance carrier. CTS's true estimate for restoration, (with specific mandated costs built in) was 20% of the proposed replacement costs. Because CTS repeatedly demonstrated the successful remediation of several high performance medical systems, and supported the endeavor with appropriate scientific and engineering data, an intermediate compromise settlement was achieved- nearer to the equipment restoration price.



*A Fully Restored and Tested CT Scanner Unit*



*A Fully Restored and Tested X-Ray System*

### Benefits and Advantages:

- CTS mitigated the loss with rapid response and expertise.
- Risks and exposure were objectively analyzed and compared to industry standards by CTS laboratory staff specializing in disaster analysis and remediation sciences.
- Unaffected equipment was thereby identified.
- Proposals and cost estimates were developed by CTS to restore each major medical system, and to provide realistic cost estimates.
- The successful restoration of several equipment models and brands restored the value of that equipment, and supported an acceptable settlement cost for the loss.
- CTS's technical approach helped to pull together the positions of manufacturers, insurance companies, and insured parties, eliminating costly legal wrangling.