



Case Study:
The Christie Hospital
Manchester, U.K.

“Mission-critical” takes on additional meaning when patient welfare is at stake. ASCO Power Technologies’ Closed Transition Bypass-Isolation Transfer Switches enable The Christie Hospital to provide reliable and seamless load transfer, comprehensive backup power testing, and concurrent maintainability for its critical systems and equipment.



ABOUT THE FACILITY

Located in Manchester, UK, The Christie Hospital is the largest single-site cancer center in Europe, treating more than 44,000 people per year. Since inception, The Christie Hospital has grown from its original building into an extensive complex of more than 80,000 square meters. Key services include:

- Radiotherapy in one of the world’s largest radiotherapy departments
- Chemotherapy in the UK’s largest chemotherapy unit
- Highly specialized surgery for complex and rare cancers
- A wide range of support and diagnostic services

The complex needs of The Christie’s patients are met using a range of sophisticated outpatient and inpatient facilities that include state-of-the-art imaging systems, surgical theaters, oncology and critical care units, radiation and chemotherapy, and emerging treatments. To assure service continuity and protect patients, backup power is supplied to essential and nonessential loads through six engine-generators ranging from 700 kVA to 2.5 MVA.

To provide world-class services, reliable power must be provided in compliance with industry standards and codes. For more than 10 years, ASCO has supported The Christie in its mission by supplying best-in-class equipment and services. To reliably detect outages, start generators, and transfer loads, The Christie relies on:

- More than 20 Open Transition and Closed Transition Bypass Automatic Transfer Switches (ATSS)
- An Emergency Power Monitoring System based on ASCO’s 5220 Power Manager
- A Modbus network that connects three ASCO 5350 Eight Channel Remote Annunciators to distant backup power equipment
- Equipment inspection, maintenance, and repair services by ASCO technicians



maintenance has kept The Christie's critical power equipment operating in top form. With a national network of ASCO technicians, facility managers know their local ASCO service specialists are just a phone call away.

Through the years, ASCO Power Technologies and The Christie Hospital have enjoyed and expanded a mutually beneficial relationship. As The Christie expands and upgrades electrical systems, ASCO provides valuable application support for selecting, installing, and operating critical power equipment. Most recently, The Christie purchased three additional 2000 Amp Closed Transition Bypass Switches for its new Proton Beam Therapy theaters. With this upgrade, The Christie will be the first facility in the United Kingdom to deliver this advanced cancer treatment. With ASCO equipment and services, The Christie is well-positioned to provide the highest levels of cutting-edge care.

The Situation

Like other hospitals, The Christie must routinely test emergency power. However, even momentary outages from load transfers would produce unacceptable disruptions to many critical operations within its building complex. The Christie turned to ASCO Power for solutions, including load transfer solutions for its new Proton Beam Therapy facility.

The Solution

To avoid even the shortest power interruptions, ASCO engineered and delivered Closed Transition Bypass-Isolation Transfer Switches that momentarily connect loads to alternate power before disconnecting them from the original source. Because Closed Transition switching provides seamless load transfers, The Christie now conducts a robust program of periodic testing without disruption to critical operations. Bypass-Isolation design for many of the transfer switches allows them to be serviced without removing power from the distribution circuits they serve.

The Outcome

For more than a decade, ASCO ATs have reliably switched loads between power sources when outages occur. Because transfers occur seamlessly, The Christie can routinely use live building loads for critical power compliance testing.

The Christie has relied on ASCO factory-trained, factory-employed technicians to maintain and service its transfer switches and other ASCO critical power equipment. A program of regular inspection and



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