

Press Release



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MTU Onsite Energy supplies mission-critical backup power to Nemours Children's Hospital

Custom power plant ensures patient safety during utility outages

MANKATO, Minn., July 30, 2014 – Like all critical care facilities, Nemours Children's Hospital in Orlando, Fla. is required by state, local and federal codes to have emergency standby power systems that can be online within seconds of a utility outage. To meet the power generation needs of today, while also planning for future growth that may require additional load management, the hospital installed a new central power plant equipped with four 2,250 kW MTU Onsite Energy generator sets with paralleling switchgear to meet modern power generation needs and ensure that patient lives are not put at grave risk in the event of a power outage.

The \$397-million medical facility has 95 private rooms, world-class pediatric surgeons, a full-service pediatric emergency department and anchors a 60-acre, fully integrated health campus that includes extensive research and education facilities. The hospital's new backup power system offers increased capacity by 15 percent, with an 85 percent load factor, giving Nemours the flexibility they need for potential expansion in the future.

"Generator sets are vital to hospitals today," said Nelson Roque, director of facilities and construction at Nemours Children's Hospital. "They keep critical systems such as resuscitation and life-saving machines online, but it's not only those systems that depend on generator sets. Everything runs on electricity, and without it, we really couldn't function as a hospital."

To customize a solution specific to their needs, Nemours collaborated with MTU Onsite Energy local distributor Florida Detroit Diesel-Allison (FDD-A) to design a power plant system capable of withstanding Florida's harsh elements.

Withstanding Mother Nature's Fury

Located in Central Florida, the hospital must prepare for two uncontrollable challenges – heat and hurricanes. If air conditioning goes down, having no operable windows, the hospital would quickly over-heat, putting lives in danger. Summertime also ushers in hurricane season, which could easily render the hospital powerless and threaten flooding that could be catastrophic to life-sustaining technologies, including the computers and IT infrastructure that maintain patient medical records, to the HVAC systems, incubators and defibrillators.

By working side-by-side with FDD-A, Nemours was equipped with an emergency standby system that can hold up through Florida's frequently unpredictable weather. The four generator sets were installed on the second floor of the hospital to decrease potential for flood damage, and to ensure the plant can provide enough backup power to supply electricity for more than seven days in the event of an outage. Additionally, the generator sets and switchgear is tested on a monthly basis by triggering different areas of the hospital to simulate a power interruption.

"In recent years, we've had very mild hurricane seasons and although we have not had a single interruption in power yet, we're confident that if something should happen the generator sets will work perfectly, just like they do in testing," said Roque.

An Air of Distinction

Though Nemours originally chose a competitor product to power their facilities, after visiting Daytona Beach's Halifax Medical Center, they decided on MTU Onsite Energy as their partner in standby power. Halifax relies on standby power from a 4.5 MTU Onsite Energy power system that has been recognized for its excellence by the Florida Agency for Health Care Administration, who use the backup power system as an example of "the way it should be done."

FDD-A added one special feature to the Nemours system; a design detail that can't be found on any other MTU Onsite Energy generator set. The chrome valve covers that complement the orange and black power plant floor represent Nelson Roque's passion for Harley-Davidson motorcycles.

"I've shown our Harley theme to quite a few other hospitals in the area. It has been a big hit – everybody's pretty impressed. Now there's talk about chrome covers all over the industry," Roque boasted.



The Nemours Children's Health system provides family-centered care in children's hospitals and clinics in Delaware, New Jersey, Pennsylvania and Florida, and is a leader in world-changing research, education and advocacy.

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Press photos can be downloaded from the Rolls-Royce Power Systems website:
<http://www.rrpowersystems.com/press/press-pictures/>

About MTU Onsite Energy

MTU Onsite Energy is a brand of Rolls-Royce Power Systems AG. It provides diesel and gas-based power system solutions: from mission-critical to standby power to continuous power, heating and cooling. MTU Onsite Energy power systems are based on diesel engines with up to 3,400 kilowatts (kW) power output, gas engines up to 2,530 kW and gas turbines up to 50,000 kW.

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