

ing to the company, while the failures were experienced on commercial equipment, a version of the AC voltage sense printed circuit board is used in safety-related equipment as well. Ametek determined that the failure was caused by the opening of the 100 ohm, 2W R7 metal-oxide resistor (Part No. 03-804103-00) due to an insufficient capability to withstand peak power for the application. In all instances of failures experienced, the peak inrush power dissipation during startup caused the 2W metal-oxide resistor to open. Failure of the AC voltage sense board could cause a false low-AC voltage alarm and an inoperable high-AC voltage alarm condition, Ametek said. The potential defect and 10 CFR 21 notification applies to the company's safety-related 277-VAC version of the AC voltage sense printed circuit board (Part No. 80-9210842-90), and Ametek is recommending that any previous versions of the 277-VAC AC voltage sense boards be replaced at the earliest convenience.

■ On August 23, Entergy Operations reported that the company completed an evaluation of a possible defect of Westinghouse 7300 process analog control system (PAC) circuit cards at its Waterford-3 nuclear power reactor and concluded that the condition constitutes a defect pursuant to 10 CFR Part 21. According to the company, three Westinghouse 7300 PAC circuit cards were identified to have failed due to failed hex inverter chips. Some of the cards were installed in applications that support the reactor's ultimate heat sink. Entergy concluded that the condition could have prevented the heat sink from performing its safety function and therefore could have created a substantial safety hazard. The circuit card types of concern are Analog Comparator Model No. 2838A32G01, Control Board Model No. 2838A30G01, and Prom Logic Model No. 2838A33G01.

■ On August 28, Curtiss-Wright reported that it was notified by Exelon's Calvert Cliffs nuclear power plant that a Senasys selector switch (Part No. 910CMC-5240X), which was previously provided by Curtiss-Wright under Exelon purchase order No. 00630804, had failed a post-installation test. According to Curtiss-Wright, the suspect switch was sent to Exelon Powerlabs, where the failure was found to have been caused by an assembly screw that was 1/8-inch too long, allowing it to cut into the coil of the switch and causing an electrical short. Curtiss-Wright found that its records showed that only Calvert Cliffs received the defective switches and the plant has been notified of the issue. Curtiss-Wright said that it will revise its dedication plan to include a note to ensure that no selector switches for the affected part number are manufactured with the November and December 2017 date codes. **NW**



Faculty Searches in Nuclear Engineering

The Nuclear Engineering Program at The Pennsylvania State University is pleased to invite applications for tenure-track positions in nuclear engineering at all ranks. All areas of nuclear engineering shall be considered. We have interests in nuclear power topics such as reactor physics and fuel management, thermal-hydraulics, nuclear materials, instrumentation and controls, nuclear safety, advanced reactors and nuclear fuel cycle analysis as well as nuclear science, nuclear security and nonproliferation.

The Nuclear Engineering program is one of the most traditional in the United States, having been founded in 1959. We offer B.S., M.S., and Ph.D. degree programs in nuclear engineering, including a very successful online graduate program. The faculty associated with the Nuclear Engineering Program conduct state-of-the-art research on nuclear power with research connections to industry and government with international partnerships, sponsored by the new Global Nuclear Power Safety Center. The Program benefits greatly from the Breazeale Nuclear Reactor and the Radiation Science and Engineering Center which is one of the premier reactor research facilities in the world for nuclear education and research. We encourage interdisciplinary collaborations across the institution. As part of the establishment of Nuclear Engineering as a separate Department at Penn State we expect it to grow significantly over the next few years.

Applicants should hold a doctorate in nuclear engineering or related field, and have demonstrated outstanding scholarly research experience and teaching interests in nuclear engineering. Successful candidates will be expected to teach courses at both the undergraduate and graduate levels, to develop an internationally recognized, externally-funded research program, and to contribute to the operation and promotion of the department, college, university, and profession through service.

Nominations and applications will be considered until the positions are filled. Screening of applicants will begin on October 1st. Applicants should submit a cover letter, a statement on teaching and research, a curriculum vitae, and the names and addresses of four professional references who are academics at the rank of Professor. Please submit these four items in one pdf file electronically to job 81826 at <http://aptrkr.com/1266108>. Employment with the University will require successful completion of background checks in accordance with University Policy.

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