

Power Reactor

Event # 53559

Site: WATERFORD Unit: 3 Region: 4 State : LA Reactor Type: [3] CE Containment Type: DRY AMB		Notification Date / Time: 08/23/2018 12:11 (EDT) Event Date / Time: 08/14/2018 16:00 (CDT) Last Modification: 08/23/2018				
NRC Notified by: JOHN JARRELL HQ Ops Officer: DONG HWA PARK Emergency Class: NON EMERGENCY 10 CFR Section: 21.21(d)(3)(i) DEFECTS AND NONCOMPLIANCE		Notifications: NICK TAYLOR R4DO PART 21/50.55 REACTOR EMAIL				
Unit	Scram Code	RX Crit	Init Power	Initial RX Mode	Curr Power	Current RX Mode
3	N	Yes	100	Power Operation	100	Power Operation

PART 21 REPORT - DEFECT OF WESTINGHOUSE 7300 PROCESS ANALOG CONTROL SYSTEM CIRCUIT CARDS

"This is a non-emergency notification from Waterford 3.

"10 CFR Part 21 Notification - Defect of Westinghouse 7300 Process Analog Control System circuit cards

"On August 14, 2018, Entergy Operations, Inc. (Entergy) completed an evaluation of a deviation at Waterford Steam Electric Station, Unit 3 (Waterford 3) which concluded the condition constitutes a defect pursuant to 10 CFR Part 21. The Waterford 3 Site Vice President was notified of the result of this evaluation on August 21, 2018. An interim report stating that an evaluation of this deviation was in progress was submitted to the NRC on July 5, 2018 (Entergy letter W3F1-2018-0040, ADAMS Accession Number ML18186A694).

"Three Westinghouse 7300 Process Analog Control System (PAC) circuit cards were identified to be failed due to failed hex inverter chips. Some of these cards were installed in applications which support the Ultimate Heat Sink (UHS) at Waterford 3. These PAC cards use Texas Instruments Part Number SN74LS04N, W113 hex inverter chips. The circuit card types of concern are Analog Comparator model number 2838A32G01, Control Board model number 2838A30G011, and Prom Logic model number 2838A33G01. Entergy concluded that this condition could have prevented the UHS from performing its safety function and thus could have created a substantial safety hazard.

"The NRC Resident Inspector has been notified."
