

Power Reactor

Event # 52248

Site: MCGUIRE		Notification Date / Time: 09/19/2016 12:21 (EDT)	
Unit: 1 2	Region: 2	State : NC	Event Date / Time: 09/19/2016 12:05 (EDT)
Reactor Type: [1] W-4-LP,[2] W-4-LP		Last Modification: 09/19/2016	
Containment Type: ICE COND ICE COND			
NRC Notified by: TONY COOK		Notifications: SHAKUR WALKER R2DO	
HQ Ops Officer: STEVE SANDIN		PART 21/50.55 REACTOREMAIL	
Emergency Class: NON EMERGENCY			
10 CFR Section:			
21.21(d)(3)(i)		DEFECTS AND NONCOMPLIANCE	

Unit	Scram Code	RX Crit	Init Power	Initial RX Mode	Curr Power	Current RX Mode
1	N	Yes	100	Power Operation	100	Power Operation
2	N	Yes	100	Power Operation	100	Power Operation

10 CFR PART 21 NOTIFICATION - JOSLYN CLARK OVERLOAD HEATER ELEMENT PART NUMBER 2455

"This is a non-emergency facsimile notification required by 10 CFR 21.21(d)(3)(i). A written notification in accordance with 10 CFR 21.21(d)(3)(ii) will be provided within 30 days.

"Duke Energy McGuire Nuclear Station (McGuire) has determined there is evidence of a departure from technical requirements, a Deviation, associated with Joslyn Clark overload heater element Part Number (PIN) 2455. This part was procured in accordance with the Duke Energy Commercial Grade Program (CGP) and dedicated for use in safety related applications. Three of 18 overload heater elements, purchased as a lot, had insufficient top weld material. One failed in-service during a post maintenance test, the second and third failed during a visual and mechanical inspection. An extent of condition review inspected over 500 similar Joslyn Clark overload heater elements. No other inventory was found with a top weld issue.

"These overload heater elements are used in motor starters for the Emergency Diesel Generator (EDG) ventilation fans. This condition was discovered during post maintenance testing of the 2A EDG on July 27, 2016. None of the suspect overload heater elements were installed in Operable EDG ventilation fan motor starters. The dedicated overload heater elements, from this lot, were not transferred or sold to any third party customers. Specialty Product Technologies, manufacturer of the Joslyn Clark overload heater elements, has been notified of the deviation and is investigating their welding process.

"The Evaluation of the deviation determined that a Substantial Safety Hazard would have been created if the overload heater elements were installed and left uncorrected.

"The NRC Senior Resident Inspector has been notified."

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STATE: THIS IS THE McGUIRE NUCLEAR SITE IN NRC REGION 2 MAKING AN EVENT NOTIFICATION REPORT				
NOTIFICATION TIME/DATE 1221 9/19/16	UNIT 1 & 2	CALLER'S NAME Tony Cook	CALLBACK TELEPHONE #: ENS 1-888-270-0173 or (704) - 875-6044	NRC OPERATIONS OFFICER CONTACTED Steve SANTIN
EVENT TIME & ZONE 1705 Region II (time) (zone)	EVENT DATE 9/19/16	POWER/MODE BEFORE 100% Mode 1	POWER/MODE AFTER 100% Mode 1	

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EVENT DESCRIPTION				
Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.				
See ATTACHMENT (will be FAXED) Continue on Attachment 2 page 2 of 3 if necessary.				
NOTIFICATIONS	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
NRC RESIDENT STATE(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(Explain above) DID ALL SYSTEMS FUNCTION AS REQUIRED YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
LOCAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(Explain above)
OTHER GOV AGENCIES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MODE OF OPERATION EST. RESTART DATE
MEDIA/PRESS RELEASE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	UNTIL CORRECTED: <u>N/A</u> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

APPROVED BY:

[Signature]
Operations Shift Manager/Emergency Coordinator

TIME/DATE:

^{12:10}
9/19/16 9 19 16
(eastern) 7/16 mm dd yy

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RADIOLOGICAL RELEASES: CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)					
LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T.S. EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		State release path in description	

NOTE: Contact Radiation Protection Shift to obtain the following information.

IF the notification is due AND the information is NOT available, THEN mark 'Not Available' and complete the notification.

	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			50 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			0 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

RECORD MONITORS IN ALARM	PLANT STACK (EMF 35, 36, 37)	CONDENSER/AIR EJECTOR (EMF 33)	MAIN STEAM LINE UNIT 1-EMF 24,25,26,27 UNIT 2-EMF 10, 11, 12,13)	SG BLOWDOWN (EMF 34)	OTHER
RAD MONITOR READINGS:					
ALARM SETPOINTS: TRIP II					
% T.S. LIMIT (if applicable)		NOT APPLICABLE		NOT APPLICABLE	

RCS OR SG TUBE LEAKS: CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

LOCATION OF THE LEAK (e.g. SG#, valve, pipe, etc.):

LEAK RATE: gpm/gpd	T.S. LIMITS EXCEEDED:	SUDDEN OR LONG TERM DEVELOPMENT:
LEAK START DATE:	TIME:	COOLANT ACTIVITY: PRIMARY SECONDARY
		(Last Sample) Xe eq. _____ mCi/ml Xe eq. _____ mCi/ml
		Iodine eq. _____ mCi/ml Iodine eq. _____ mCi/ml

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

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EVENT DESCRIPTION (Continued from Attachment 2 page 1 of 3)

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**10 CFR PART 21 NOTIFICATION – JOSLYN CLARK OVERLOAD HEATER ELEMENT
PART NUMBER 2455**

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