

*** This Event has been retracted !!!

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Power Reactor

Event # 52480

Site: FITZPATRICK Unit: 1 Region: 1 State : NY Reactor Type: [1] GE-4 Containment Type: MARK I		Notification Date / Time: 01/10/2017 22:45 (EST) Event Date / Time: 11/10/2016 16:04 (EST) Last Modification: 03/23/2017				
NRC Notified by: MARK HAWES HQ Ops Officer: DONALD NORWOOD Emergency Class: NON EMERGENCY 10 CFR Section: 21.21(a)(2) INTERIM EVAL OF DEVIATION		Notifications: ANTHONY DIMITRIADIS R1DO PART 21/50.55 REACTOREMAIL				
Unit	Scram Code	RX Crit	Init Power	Initial RX Mode	Curr Power	Current RX Mode
1	N	Yes	67	Power Operation	67	Power Operation

PART 21 - FAILURE OF POWER SUPPLIES TO MEET VOLTAGE STABILITY SPECIFICATIONS

"This notification is a 10 CFR 21.21(a)(2) interim report for power supply model N-2ARPS-A6. Two instrument power supplies for the 'B' Residual Heat Removal (RHR) system were being bench tested prior to installation when it was discovered that they failed to meet Vendor Technical Manual specifications for voltage stability for varying loads. The deviation was a voltage drop of approximately 300mV. This did not meet the specification of less than 150mV when varying current from 5 amps (full load) to 2.5 amps. A second replacement power supply exhibited a similar 300 mV drop.

"James A. FitzPatrick (JAF) reviewed the work order instructions to determine if there was a deviation from the recommendations in the Foxboro technical manual F180-0309 Spec 200 Multinest Power Supply 2ARPS Series calibration. Since as-found voltage readings were within the required tolerance of the RHR instrument loops, the power supplies appear to have been capable to perform their intended function. However, this evaluation did not troubleshoot why the power supplies failed to meet the calibration requirements.

"The power supplies were sent to a repair vendor. The input from this vendor is expected to allow JAF to complete the evaluation per 10 CFR 21.21(a)(1) by March 21, 2017, and a notification for failure to comply or defect per 10 CFR 21.21(d)(3)(i) is expected by March 24, 2017, if necessary. This notification is being submitted as an interim report per 10 CFR 21.21(a)(2)."

The licensee notified the NRC Resident Inspector.

*** RETRACTED AT 1705 EDT ON 03/23/17 FROM MARK HAWES TO S. SANDIN ***

The licensee is retracting this report based on the following:

IE19
NRR

"The testing vendor Argo Turboserve Corp provided input to this condition in Non Conformance Report NC161. Engineering reviewed NC161 and discussed this condition with the vendor. The power supplies showed an initial drift following a 100 hour burn-in but continued operation was stable. Therefore, even though the initial voltage drift did not meet the power supply's calibration requirement in F180-0309, it would not be expected to drift significantly further. Engineering concluded that this condition will have a negligible impact on system components. Readings were steady and within the tolerance of the RHR instrument specification. Based on all current information, the component will function over its mission time of 100 days.

"Based on these results, a notification for failure to comply or defect per 10 CFR 21.21(d)(3)(i) is not required and the interim report per 10 CFR 21.21(a)(2) may be retracted."

The licensee informed the NRC Resident Inspector. Notified R1DO (Bickett) and Part 21 Group via email.

**REACTOR PLANT
EVENT NOTIFICATION WORKSHEET**

EN # 52480

NRC OPERATION TELEPHONE NUMBER: PRIMARY -- 301-816-5100 or 800-532-3469*, BACKUPS -- [1st] 301-951-0550 or 800-449-3694*, [2nd] 301-415-0550 and [3rd] 301-415-0553
*Licensees who maintain their own ETS are provided these telephone numbers.

NOTIFICATION TIME 17:05	FACILITY OR ORGANIZATION James A. FitzPatrick	UNIT 1	NAME OF CALLER Mark Hawes	CALL BACK # (315) 349-6664
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EVENT TIME & ZONE 16:04 ET	EVENT DATE 11/10/2016	POWER/MODE BEFORE 67% / Mode 1	POWER/MODE AFTER 67% / Mode 1
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EVENT CLASSIFICATIONS		1-Hr. Non-Emergency 10 CFR 50.72(b)(1)	<input type="checkbox"/> (v)(A) Safe S/D Capability	AINA	
<input type="checkbox"/> GENERAL EMERGENCY	GEN/AAEC	<input type="checkbox"/> TS Deviation	ADEV	<input type="checkbox"/> (v)(B) RHR Capability	AINB
<input type="checkbox"/> SITE AREA EMERGENCY	SIT/AAEC	4-Hr. Non-Emergency 10 CFR 50.72(b)(2)		<input type="checkbox"/> (v)(C) Control of Rad Release	AINC
<input type="checkbox"/> ALERT	ALE/AAEC	<input type="checkbox"/> (i) TS Required S/D	ASHU	<input type="checkbox"/> (v)(D) Accident Mitigation	AIND
<input type="checkbox"/> UNUSUAL EVENT	UNU/AAEC	<input type="checkbox"/> (iv)(A) ECCS Discharge to RCS	ACCS	<input type="checkbox"/> (xii) Offsite Medical	AMED
<input type="checkbox"/> 50.72 NON-EMERGENCY (see next columns)		<input type="checkbox"/> (iv)(B) RPS Actuation (scram)	ARPS	<input type="checkbox"/> (xiii) Loss Comm/Asmt/Resp	ACOM
<input type="checkbox"/> PHYSICAL SECURITY (73.71)	DDDD	<input type="checkbox"/> (xi) Offsite Notification	APRE	60-Day Optional 10 CFR 50.73(a)(1)	
<input type="checkbox"/> MATERIAL/EXPOSURE	B???	8-Hr. Non-Emergency 10 CFR 50.72(b)(3)		<input type="checkbox"/> Invalid Specified System Actuation	AINV
<input type="checkbox"/> FITNESS FOR DUTY	HFIT	<input type="checkbox"/> (ii)(A) Degraded Condition	ADEG	Other Unspecified Requirement (Identify)	
<input checked="" type="checkbox"/> OTHER UNSPECIFIED REQMT. (see last column)		<input type="checkbox"/> (ii)(B) Unanalyzed Condition	AUNA	<input checked="" type="checkbox"/> 10 CFR 21.21(a)(2)	NONR
<input type="checkbox"/> INFORMATION ONLY	NINF	<input type="checkbox"/> (iv)(A) Specified System Actuation	AESF	<input type="checkbox"/>	NONR

DESCRIPTION

Include: Systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc. (Continue on back)

This notification is a 10 CFR 21.21(a)(2) interim report for power supply model N-2ARPS-A6. Two instrument power supplies for the "B" Residual Heat Removal (RHR) system were being bench tested prior to installation when it was discovered that they failed to meet Vendor Technical Manual specifications for voltage stability for varying loads. The deviation was a voltage drop of approximately 300mV. This did not meet the specification of <150mV when varying current from 5 amps (full load) to 2.5 amps. A second replacement power supply exhibited a similar 300 mV drop. James A. FitzPatrick (JAF) reviewed the work order instructions to determine if there was a deviation from the recommendations in the Foxboro technical manual F180-0309 Spec 200 Multinest Power Supply 2ARPS Series calibration. Since as-found voltage readings were within the required tolerance of the RHR instrument loops, the power supplies appear to have been capable to perform their intended function. However, this evaluation did not troubleshoot why the power supplies failed to meet the calibration requirements. The power supplies were sent to a repair vendor. The input from this vendor is expected to allow JAF to complete the evaluation per 10 CFR 21.21(a)(1) by March 21, 2017, and a notification for failure to comply or defect per 10 CFR 21.21(d)(3)(i) is expected by March 24, 2017, if necessary. This notification is being submitted as an interim report per 10 CFR 21.21(a)(2).

***** 3/23/2017 RETRACTION *****

The testing vendor Argo Turboserve Corp provided input to this condition in Non Conformance Report NC161. Engineering reviewed NC161 and discussed this condition with the vendor. The power supplies showed an initial drift following a 100 hour burn-in but continued operation was stable. Therefore, even though the initial voltage drift did not meet the power supply's calibration requirement in F180-0309, it would not be expected to drift significantly further. Engineering concluded that this condition will have a negligible impact on system components. Readings were steady and within the tolerance of the RHR instrument specification. Based on all current information, the component will function over its mission time of 100 days. Based on these results, a notification for failure to comply or defect per 10 CFR 21.21(d)(3)(i) is not required and the interim report per 10 CFR 21.21(a)(2) may be retracted.

NOTIFICATIONS	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	<input type="checkbox"/> YES (Explain above)	<input checked="" type="checkbox"/> NO
NRC RESIDENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
STATE(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DID ALL SYSTEMS FUNCTION AS REQUIRED?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO (Explain above)
LOCAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
OTHER GOV AGENCIES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MODE OF OPERATION UNTIL CORRECTED:	N/A	ESTIMATED RESTART DATE: (MM/DD/YYYY)
MEDIA/PRESS RELEASE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			ADDITIONAL INFO ON BACK <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO