***** This Event has been retracted !!!** ***** This Event has been retracted !!!**

Power Reactor Event # 52480

Site: FITZPATRICK **Notification Date / Time:** 01/10/2017 22:45 (EST)
Unit: 1 **Region:** 1 **State :** NY **Event Date / Time:** 11/10/2016 16:04 (EST)
Reactor Type: [1] GE-4 **Last Modification:** 03/23/2017
Containment Type: MARK I

NRC Notified by: MARK HAWES **Notifications:** ANTHONY DIMITRIADIS R1DO
HQ Ops Officer: DONALD NORWOOD PART 21/50.55 REACTOR EMAIL
Emergency Class: NON EMERGENCY
10 CFR Section:
21.21(a)(2) INTERIM EVAL OF DEVIATION

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.

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NRC FORM 361
(12-2000)

U.S. NUCLEAR REGULATORY COMMISSION
OPERATIONS CENTER

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	FACILITY OR ORGANIZATION	UNIT	NAME OF CALLER	CALL BACK #
17:05	James A. FitzPatrick	1	Mark Hawes	(315) 349-6664

EVENT TIME & ZONE	EVENT DATE	POWER/MODE BEFORE	POWER/MODE AFTER
16:04 ET	11/10/2016	67% / Mode 1	67% / Mode 1

EVENT CLASSIFICATIONS		1-Hr. Non-Emergency 10 CFR 50.72(b)(1)			4-Hr. Non-Emergency 10 CFR 50.72(b)(2)			8-Hr. Non-Emergency 10 CFR 50.72(b)(3)			60-Day Optional 10 CFR 50.73(a)(1)		
☐	GENERAL EMERGENCY GEN/AAEC	☐		TS Deviation ADEV	☐	(i)	TS Required S/D ASHU	☐	(ii)(A)	Degraded Condition ADEG	☐		Invalid Specified System Actuation AINV
☐	SITE AREA EMERGENCY SIT/AAEC				☐	(iv)(A)	ECCS Discharge to RCS ACCS	☐	(ii)(B)	Unanalyzed Condition AUNA	Other Unspecified Requirement (Identify)		
☐	ALERT ALE/AAEC				☐	(iv)(B)	RPS Actuation (scram) ARPS	☐	(iv)(A)	Specified System Actuation AESF	☑	10 CFR 21.21(a)(2)	NONR
☐	UNUSUAL EVENT UNU/AAEC				☐	(xi)	Offsite Notification APRE				☐		NONR
☐	50.72 NON-EMERGENCY (see next columns)												
☐	PHYSICAL SECURITY (73.71) DDDD												
☐	MATERIAL/EXPOSURE B???												
☐	FITNESS FOR DUTY HFIT												
☑	OTHER UNSPECIFIED REQMT. (see last column)												
☐	INFORMATION ONLY NINF												

☐	(v)(A)	Safe S/D Capability AINA
☐	(v)(B)	RHR Capability AINB
☐	(v)(C)	Control of Rad Release AINC
☐	(v)(D)	Accident Mitigation AIND
☐	(xii)	Offsite Medical AMED
☐	(xiii)	Loss Comm/Asmt/Resp ACOM

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
NRC RESIDENT	☑	☐	☐
STATE(s)	☐	☑	☐
LOCAL	☐	☑	☐
OTHER GOV AGENCIES	☐	☑	☐
MEDIA/PRESS RELEASE	☐	☑	☐

ANYTHING UNUSUAL OR NOT UNDERSTOOD?	☐ YES (Explain above)	☑ NO	
DID ALL SYSTEMS FUNCTION AS REQUIRED?	☑ YES	☐ NO (Explain above)	
MODE OF OPERATION UNTIL CORRECTED: N/A	ESTIMATED RESTART DATE: (MM/DD/YYYY)	ADDITIONAL INFO ON BACK ☐ YES ☑ NO	