Power Reactor Event # 44312

Site: OCONEE **Notification Date / Time:** 06/23/2008 11:01 (EDT)
Unit: 1 2 3 **Region:** 2 **State :** SC **Event Date / Time:** 06/16/2008 14:13 (EDT)
Reactor Type: [1] B&W-L-LP,[2] B&W-L-LP,[3] B&W-L-LP **Last Modification:** 06/23/2008
Containment Type: DRY AMB DRY AMB DRY AMB

NRC Notified by: BOB MEIXELL **Notifications:** BINOY DESAI R2
HQ Ops Officer: MARK ABRAMOVITZ PART 21 GROUP
Emergency Class: NON EMERGENCY
10 CFR Section:
21.21 UNSPECIFIED PARAGRAPH

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
3	N	Yes	100	Power Operation	100	Power Operation

REPLACEMENT BREAKER CHARGING MOTORS FAILED MINIMUM VOLTAGE TEST

"Event: On June 16, 2008, Duke Energy (Duke) completed a reportability determination which concluded that a defect associated with 10 electric charging motors for breakers is reportable under Part 21. This is a legacy issue from May 22, 2000, which was re-evaluated as a result of an assessment of Oconee's Part 21 processes. The motors were procured as safety-related from Asea Brown Boveri (ABB) (Florence, SC location) on February 22, 2000, ABB Part# 709799T11. The motors were received on March 9, 2000 and subsequently, breaker personnel identified the part number on the replacement motors did not agree with the existing motors. When installed in a breaker for testing, the replacement motors did not function at the required minimum 90VDC. Duke will provide follow up written notification within 30 days pursuant to Part 21.21(d)(3)(ii).

"Initial Safety Significance: None. The motors were never placed in service. However, the evaluation concluded because of the safely related applications for which the motors were intended, the defect could have resulted in a significant safety hazard had the motor(s) been placed in service."

The licensee verified that this part was not used at other Duke nuclear plants.

The licensee notified the NRC Resident Inspector and the ABB Project Manager for Oconee.

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IE19
NRR

Attachment B **OMP 1-14**

NRC Event Notification Worksheet Page 1 of 3

NRC Event Notification Worksheet				
Notification Time	**Facility or Organization**	**Unit**	**Caller's Name**	**Call Back #**
	Oconee Nuclear Station	1, 2, 3	Bob Meixell	ENS 256-9931 (864) 885-3279

NRC Operations Officer Contacted:	NRC Event Number:

Event Time/Zone	Event Date	Power/Mode Before	Power/Mode After
1413 EDT	06/16/2008	N/A	N/A

Event Classifications

- ☐ General Emergency
- ☐ Site Area Emergency
- ☐ Alert
- ☐ Unusual Event
- ☐ 50.72 Non-emergency (see other columns)
- ☐ 72.75 Spent Fuel (ISFSI)
- ☐ 73.71 Physical Security
- ☐ Transportation
- ☐ 20.2202 Material/Exposure
- ☐ 26.73 Fitness for Duty
- ☒ **Other: Part 21.21(d)(3)(i)**

1-Hour Non-emergency 10 CFR 50.72 (b)(1)

- ☐ Deviation from TS per 50.54(x)

4-Hour Non-Emergency 10 CFR 50.72 (b)(2)

- ☐ (i) TS Required Shutdown
- ☐ (iv) (A) ECCS Discharge into RCS
- ☐ (iv) (B) RPS Actuation (while critical)
- ☐ (xi) News release/notification to other government agencies

8-Hour Non-Emergency 10 CFR 50.72 (b) (3)

- ☐ (ii) (A) Degraded Condition
- ☐ (ii) (B) Unanalyzed Condition
- ☐ (xiii) Loss of emergency assessment capability/offsite communications
- ☐ (iv) (A) System Actuation
  - ☐ RPS
  - ☐ Containment isolation
  - ☐ ECCS
  - ☐ EFW
  - ☐ Containment spray/coolers
  - ☐ Emergency AC (Keowee Hydro)
- ☐ (v) (A) Safe Shutdown Capability
- ☐ (v) (B) Residual Heat Removal Capability
- ☐ (v) (C) Control of radiological material
- ☐ (v) (D) Accident Mitigation
- ☐ (xii) Transport contaminated person to offsite medical facility

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NRC Event Notification Worksheet Page 2 of 3

Event Description (Include systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc.)
Event: On June 16, 2008, Duke Energy (Duke) completed a reportability determination which concluded that a defect associated with 10 electric charging motors for breakers is reportable under Part 21. This is a legacy issue from May 22, 2000, which was re-evaluated as a result of an assessment of Oconee's Part 21 processes. The motors were procured as safety-related from Asea Brown Boveri (ABB) (Florence, SC location) on February 22, 2000, ABB Part# 709799T11. The motors were received on March 9, 2000 and subsequently, breaker personnel identified the part number on the replacement motors did not agree with the existing motors. When installed in a breaker for testing,, the replacement motors did not function at the required minimum 90VDC. Duke will provide follow up written notification within 30 days pursuant to Part 21.21(d)(3)(ii).
Initial Safety Significance: None. The motors were never placed in service. However, the evaluation concluded because of the safety related applications for which the motors were intended, the defect could have resulted in a significant safety hazard had the motor(s) been placed in service.
Corrective Action(s): The 10 motors were returned to ABB Florence in 2000 for evaluation.

Anything unusual or not understood?	☐ Yes (Explain above)	☒ No
Did all systems function as required?	☒ Yes	☐ No (Explain above)
Mode of operations until corrected: N/A	Estimated restart date: N/A	

Does event result in a radiological release, RCS leak, or steam generator tube leak?	☐ Yes (complete page 3)	☒ No

Does the event result in any of the units experiencing a transient?	☐ Yes (complete Oconee Plant Status sheet)	☒ No

Notifications			
NRC Resident: A. Hutto	(Y)N/will be	Plant Manager: M. Glover	(Y)N/will be
Notified By: R. Meixell	Time:	Notified By: R. Freudenberger	Time:
State(s):	Y(N)/will be	Operations Superintendent:	Y/N/(will be)
Notified By:	Time:	Notified By:	Time:
Local:	Y(N)/will be	Other Government Agencies:	Y(N)/will be
Notified By:	Time:	Notified By:	Time:
Media/Press Release:	Y(N)/will be	Other:	Y/(N)/will be
Notified By:	Time	Notified By	Time

Operations Shift Manager/Emergency Coordinator Approval:	**Date/Time:**
M. Glover	6/23/08 1046

NRC Notification Complete by Caller/NRC Communicator:	**Date/Time:**

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NRC Event Notification Worksheet Page 3 of 3

Additional Information for Radiological Releases			
Radiological Release (check as applicable with specific details in event description including release path)			
☐ Liquid Release	☐ Gaseous Release	☐ Unplanned Release	☐ Planned Release
☐ Monitored	☐ Unmonitored	☐ Off-Site Release	☐ TS Exceeded
☐ Personnel Exposed or Contaminated	☐ Rad Mon Alarms	☐ Off-Site Protected Actions Recommended	☐ Terminated
		☐ Areas Evacuated	☐ Ongoing

	Release Rate (Ci/sec)	% TS Limit	HOO Guide	Total Activity (Ci)	% TS Limit	HOO Guide
Noble gas:			0.1 Ci/sec			1000 Ci
Iodine:			10 μCi/sec			0.01 Ci
Particulate:			1 μCi/sec			1 mCi
Liquid (excluding tritium and dissolved noble gases):			10 μCi/min			0.1 Ci
Liquid (tritium):			0.2 Ci/min			5 Ci
Total Activity:						

	Plant Stack	Condenser/Air Ejector	Main Steam Line	SG Blowdown	Other
Rad Monitor Readings:					
Alarm Setpoints:					
% TS Limit (if applicable):					

Additional Information for Reactor Coolant Leaks and Steam Generator Tube Leaks			
Location of the leak (e.g. SG, valve, pipe, etc.)			
Leak Rate:	Units (gpm/gpd):	TS Limit:	Sudden or Long Term Development:
Leak Start Date:	Time:	Coolant Activity & Units: Primary - Secondary -	
List of Safety Related Equipment Not Operational:			