General Information or Other (PAR) Event # 45722

Rep Org:	OCONEE NUCLEAR STATION	**Notification Date / Time:**	02/24/2010 14:44 (EST)
Supplier:	DUBOSE NATIONAL ENERGY SERVICES, INC.	**Event Date / Time:**	02/17/2010 06:32 (EST)
		Last Modification:	02/24/2010
Region:	1	**Docket #:**	
City:	SENECA	**Agreement State:**	Yes
County:		**License #:**	
State:	SC		
NRC Notified by:	SANDRA SEVERANCE	**Notifications:**	BRIAN BONSER R2DO
HQ Ops Officer:	DONG HWA PARK		PART 21 GROUP EMAIL
Emergency Class:	NON EMERGENCY		
10 CFR Section:			
21.21	UNSPECIFIED PARAGRAPH		

POTENTIALLY DEFECTIVE STUD ATTACHMENT TO EMBEDED PLATES

"On February 17, 2010, Duke Energy (Duke) completed a reportability determination which concluded that a defect associated with Nelson Stud attachment to embed plates is reportable under Part 21. The embed plates with Nelson studs were procured safety-related from DuBose National Energy Services, Inc. (DuBose) on December 18, 2008. Receipt of the material began as early as August 1, 2009. When delivered to the on-site storage location, it was identified that a Nelson Stud was missing from one of the plates. Follow-up investigation and evaluation identified that automatically timed stud welding procedures/process control weaknesses in the areas of cleanliness and operator/equipment performance have resulted in cold weld joints and weld failures. Duke will provide follow up written notification within 30 days pursuant to Part 21.21(d)(3)(ii).

"Initial Safety Significance: None. The potentially defective embedded plates installed in the Protected Service Water (PSW) Building prior to this discovery have not been placed into service. These plates will be removed, abandoned, or re-engineered prior to placing the system in service. However, the embed plates described were to be used for a variety of QA Condition 1 functions, including reaction points for PSW Building structural steel framing and support/restraint of PSW electrical equipment. Depending upon the installation location of these embedded plates and the number and location of ineffectively attached Nelson studs, this deviation could have created a substantial safety hazard were it to remain uncorrected.

"Corrective Action(s):
"1. Notified vendor (DuBose).
"2. Re-work all embeds by installing a fillet weld on each stud.
"3. Determine whether the installed embeds will be removed, abandoned, re-engineered.

The licensee notified the NRC Resident Inspector.

IE19
NRR

General Information or Other (PAR) Event # 45722

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45722

Attachment B **OMP 1-14**

NRC Event Notification Worksheet Page 2 of 2

Event Description (Include systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc.)
Event: On February 17, 2010, Duke Energy (Duke) completed a reportability determination which concluded that a defect associated with Nelson Stud attachment to embed plates is reportable under Part 21. The embed plates with Nelson studs were procured safety-related from DuBose National Energy Services, Inc. (DuBose) on December 18, 2008. Receipt of the material began as early as August 1, 2009. When delivered to the on-site storage location, it was identified that a Nelson Stud was missing from one of the plates. Follow-up investigation and evaluation identified that automatically timed stud welding procedures/process control weaknesses in the areas of cleanliness and operator/equipment performance have resulted in cold weld joints and weld failures. Duke will provide follow up written notification within 30 days pursuant to Part 21.21(d)(3)(ii).
Initial Safety Significance: None. The potentially defective embedded plates installed in the Protected Service Water (PSW) Building prior to this discovery have not been placed into service. These plates will be removed, abandoned, or re-engineered prior to placing the system in service. However, the embed plates described were to be used for a variety of QA Condition 1 functions, including reaction points for PSW Building structural steel framing and support/restraint of PSW electrical equipment. Depending upon the installation location of these embedded plates and the number and location of ineffectively attached Nelson studs, this deviation could have created a substantial safety hazard were it to remain uncorrected.
Corrective Action(s): 1. Notified vendor (DuBose). 2. Re-work all embeds by installing a fillet weld on each stud. 3. Determine whether the installed embeds will be removed, abandoned, or re-engineered.

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: Andy Sabisch	(Y)/N/will be	Plant Manager: Preston Gillespie	(Y)/N/will be
Notified By: RA Todd / SN Severance	Time: 1131	Notified By: James F. Looper	Time: 13:45
State(s):	Y/(N)/will be	Operations Superintendent: Ed. Burchfield	(Y)/N/will be
Notified By:	Time:	Notified By: James F. Looper	Time: 13:45
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:**
James F Looper	2-24-10 14:15

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

Attachment B **OMP 1-14**

NRC Event Notification Worksheet Page 1 of 2

NRC Event Notification Worksheet				
Notification Time	**Facility or Organization**	**Unit**	**Caller's Name**	**Call Back #**
	Oconee Nuclear Station	1, 2, 3	Sandra Severance	ENS 256-9931 (864) 873- 3466

NRC Operations Officer Contacted:	NRC Event Number:

Event Time/Zone	Event Date	Power/Mode Before	Power/Mode After
0632 EST	2/17/2010	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