

Part 21 (PAR)

Event # 47833

Rep Org: MITSUBISHI HEAVY INDUSTRIES, LTD.	Notification Date / Time: 04/13/2012 15:58 (EDT)
Supplier: MITSUBISHI HEAVY INDUSTRIES, LTD	Event Date / Time: 02/21/2012 (EDT)
	Last Modification: 09/07/2012
Region: 1	Docket #:
City: ARLINGTON	Agreement State: Yes
County:	License #:
State: VA	
NRC Notified by: EI KADOKAMI	Notifications: BLAKE WELLING R1DO
HQ Ops Officer: JOHN KNOKE	KATHLEEN O'DONOHUE R2DO
Emergency Class: NON EMERGENCY	DAVID HILLS R3DO
10 CFR Section:	VINCENT GADDY R4DO
21.21(a)(2) INTERIM EVAL OF DEVIATION	PART 21 GROUP EMAIL

PART 21 INTERIM REPORT - STEAM GENERATOR TUBE WEAR

This interim Part 21 is in regard to San Onofre Nuclear Generating Station, Unit 2, Steam Generator replacement.

"During the first refueling outage following steam generator replacement, eddy current testing identified ten total tubes with depths of 90 to 28 percent of the tube wall thickness. Some of the affected tubes were located adjacent to retainer bars. The retainer bars are part of the floating anti-vibration bar (AVB) structure that stabilizes the u-bend region of the tubes.

"Other tubes in the two steam generators had detectable wear associated with support points elsewhere in the AVB structure. Each steam generator has 9727 tubes with an 8 percent (778 tubes) design margin for tube plugging.

"Discovery Date: February 13, 2012

"Evaluation completion schedule date: May 31, 2012"

"Those Mitsubishi Heavy Industries customers potentially affected by this issue have been notified and will receive a copy of this interim report."

Reference Document: UET-20120089
Interim Report No: U21-018-IR (0)

Notified R1DO (Joustra), R2DO (Nease), R3DO (Peterson), R4DO (O'Keefe), and Part 21 Group via email.

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*** UPDATE FROM MITSUBISHI HEAVY INDUSTRIES, LTD VIA FAX ON 6/4/12 AT 1145 EDT ***

The vendor changed the number of tubes identified with wear depths of 90 to 28 percent from ten tubes to six tubes and only some of the tubes were adjacent to retainer bars.

Notified R1DO (Cahill), R2DO (Vias), R3DO (Passehl), R4DO (Gepford) and Part 21 Groups via email.

*** UPDATE FROM MITSUBISHI HEAVY INDUSTRIES, LTD VIA FAX ON 9/7/12 AT 1539 EDT ***

"MHI evaluated that the deviation contains a reportable defect for San Onofre Nuclear Generating Station Unit 2 and 3."

Notified R4DO (Gaddy) and Part 21 Reactor Group via email.



MITSUBISHI HEAVY INDUSTRIES, LTD.

16-5, KONAN 2-CHOME, MINATO-KU

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Ref: UET-20120201 Rev.0
Date: September 7, 2012

Subject: Notification of a defect under 10 CFR 21.21(d)(3)(I)

1. Interim Reports and Evaluation Results

Mitsubishi Heavy Industries, LTD (MHI) has identified steam generator tube wear for San Onofre Nuclear Generating Station. MHI had generated the following two interim reports for these tube wear and submitted them to U.S. Nuclear Regulatory Commission (NRC). MHI completed evaluation of a defect.

Interim Report 1 (No.U21-018-IR Revision 1 with a letter UET-20120089 Revision 1)

Title: Steam Generator tube wear adjacent to retainer bars

Evaluation Result:

MHI evaluated that the deviation contains a reportable defect for San Onofre Nuclear Generating Station Unit 2 and 3.

Interim Report 2 (No.U21-019-IR Revision 1 with a letter UET-20120105 Revision 1)

Title: Steam Generator tube to tube wear

Evaluation Result:

MHI evaluated that the deviation contains a reportable defect for San Onofre Nuclear Generating Station Unit 2 and 3.

2. The written report

The written reports pursuant to 10 CFR 21.21 (d)(4) will be submitted to NRC by October 6, 2012.

Yours very truly,

Ei Kadokami

Senior Vice President

Deputy Head of Nuclear Energy Systems

Head of Nuclear Energy Systems

Head of Kobe shipyard & Machinery Works

Mitsubishi Heavy Industries, Ltd.