

Part 21 (PAR)

Event # 48745

Rep Org: DRESSER-RAND	Notification Date / Time: 02/12/2013 16:52 (EST)
Supplier: DRESSER-RAND	Event Date / Time: 02/01/2013 (EST)
	Last Modification: 02/28/2014
Region: 1	Docket #:
City: WELLSVILLE	Agreement State: Yes
County:	License #:
State: NY	
NRC Notified by: D. G. MARTIN	Notifications: ANTHONY DIMITRIADIS R1DO
HQ Ops Officer: DONALD NORWOOD	BOB HAGAR R4DO
Emergency Class: NON EMERGENCY	PART 21 RX GROUP E-MAIL
10 CFR Section:	
21.21(d)(3)(i) DEFECTS AND NONCOMPLIANCE	

PART 21 REPORT - DEFECTIVE RAW MATERIAL USED TO MANUFACTURE VALVE STEMS

Dresser-Rand is reporting that one of its vendors supplied annealed material instead of the specified heat-treated material. Dresser-Rand used the defective raw material to manufacture valve stems for Terry Type Emergency Feedwater pump drive turbines. Dresser-Rand has verified that the annealed material is not acceptable for the finished product.

The two customers (Wolf Creek Nuclear Plant and Callaway Nuclear Plant) that received the affected parts have been notified of this issue and have confirmed that the components in question are not in service at their facilities. The remaining material and affected parts have been quarantined at the Dresser-Rand plant in Wellsville, NY.

All questions should be addressed to:
 Joe Menichino
 Manager, Navy/Nuclear Product Engineering
 37 Coat Street
 Wellsville, New York, 14895
 Phone: (585) 596-3406
 jamenichino@dresser-rand.com

*** UPDATE FROM JOE MENICHINO TO CHARLES TEAL ON 3/11/13 AT 1614 EDT ***

The following was excerpted from a facsimile received from Dresser-Rand:

"DESCRIPTION OF DEFECT OR NON-COMPLIANCE

JE19
NRC

"Specific designs of steam turbine control valve stems are made from heat treated ASM 5663M Inconel Bar raw material. Certifications associated with heat numbers of certain inventory of this material indicate that the material vendor incorrectly supplied material in an annealed condition (AMS 5662M).

"POTENTIAL SAFETY HAZARD OR NON-COMPLIANCE

"Valve stems are used to control steam turbine speed and power. The valve stems must be free to move within the guiding assembly during operation. Stems are made using materials that have the correct material properties to reduce the risk of failure. The use of inconel raw stock in an annealed condition is unacceptable for steam turbine valve stems due to the risk of unacceptable wear and strength characteristics which could lead to sticking or tensile failure in the mating guide bushings within the valve assembly.

"ADVICE TO EFFECTED CLIENT RELATED TO THIS REPORT

"For those affected sites identified, locate and return the material to Dresser-Rand immediately."

Affected facilities include Point Beach, Clinton, Wolf Creek, Cooper, Callaway, San Onofre, and Prairie Island.

Notified R1DO (Dentel), R3DO (Dickson), R4DO (Powers), and the Part 21 Group via email.

* * * UPDATE FROM ED GRANDUSKY TO CHARLES TEAL AT 1510 EST ON 2/28/14 * * *

The following was excerpted from a facsimile received from Dresser-Rand:

"DESCRIPTION OF DEFECT:

"This is an addendum to Part 21 Reports Log# 2013-008-00 and Log# 2013-008-01. Another Vendor certification has been discovered for valve stem material that indicates the annealed condition-Inconel was supplied in lieu of the heat treated that is specified.

"ENGINEERING EVALUATION & RECOMMENDATIONS:

"1- Complete review of all Vendor certification for this material to make certain no more. Discrepant material was used in the manufacture of these stems.

"2- Identify all DR part numbers that were made using the affected heat numbers.

"3- Notify affected customers and recall non-compliant parts.

"Potential Affected Part Numbers:

"800777-001 Rev. NA
"800768-701 Rev. A
"800768-702 Rev. A
"800858-001 Rev. E
"800740-701 Rev. A
"800746-001 Rev. B
"800739-001 Rev. NA
"800743-001 Rev. A
"801061-701 Rev. A
"800741-701 Rev. B
"800744-001 Rev. NA
"800745-001 Rev. NA
"800748-001 Rev. A
"800742-001 Rev. B"

Notified R1DO (DeFrancisco), R3DO (Kunowski), R4DO (Hagar), and the Part 21 Group via email.

DRESSER-RAND

DRESSER-RAND COMPANY
37 Coats Street
Wellsville, NY 14895-0592
Phone (716) 596-3631
Fax (716) 593-3369

Feb. 28, 2014

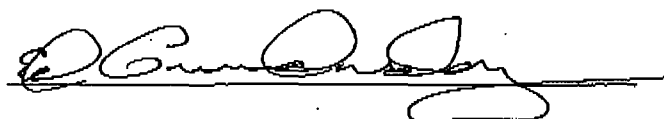
Nuclear Regulatory Commission

Attention: Mr. Keith Mummaw
NSWCCD Code 934

Subject: 10CFR50art 21 Reporting of defects

Find attached an initial report of defect .

Please call if additional information is required



Ed Grandusky
Manager Gov't Aftermarket Engineering
(585) 596-3631 Office
(716) 498-7522 Cell

**INITIAL REPORT 10CFR PART 21
REPORT OF A POTENTIAL SAFETY HAZARD**

Report No. 46
Page 1 of 2

PREPARED BY: <u>E. J Grandusky</u>	Date: <u>2-20-2014</u>
TITLE: <u>Mgr, Govt. Aftermarket Engineering</u>	File No: <u>N/A</u>
PART NAME: <u>Inconel Valve Stem</u>	Serial No: <u>Various</u>
	Type: _____
	Part No: <u>See Below</u>
	Dwg. No: <u>See Below</u>
	Rev. Level: <u>See Below</u>

DESCRIPTION OF DEFECT:

This is an addendum to Part 21 Reports Log # 2013-008-00 and Log # 2013-008-01. Another Vendor certification has been discovered for valve stem material that indicates the annealed condition Inconel was supplied in lieu of the heat treated that is specified.

ENGINEERING EVALUATION & RECOMMENDATIONS:

- 1- Complete review of all Vendor certification for this material to make certain no more discrepant material was used in the manufacture of these stems.
- 2- Identify all DR part numbers that were made using the affected heat numbers.
- 3- Notify affected customers and recall non-compliant parts.

Evaluation/Recommendation Prepared By: E. J. Grandusky

Title: Mgr, Govt. Aftermarket Engineering Date: 2-28-2014

Approved By: Dale Smith

Title: General Mgr. Government Business Unit Date: 2-28-2014

DISPOSITION, CHECK ONE:

- Yes, this constitutes a safety hazard and requires a Final Report be prepared (EF-066)
- No, this does not constitute a safety hazard and does not require any further reporting.

Reviewed by D-R Wellsville Responsible Officer:

Signature: 

Title: General Mgr. Government Business Unit Date: 2-28-2014

RETURN TO MANAGER NUCLEAR PRODUCT ENGINEERING

Potential Affected Part Numbers:

- | | |
|--------------------|--------------------|
| 800777-001 Rev. NA | 800743-001 Rev. A |
| 800768-701 Rev. A | 801061-701 Rev. A |
| 800768-702 Rev. A | 800741-701 Rev. B |
| 800858-001 Rev. E | 800744-001 Rev. NA |
| 800740-701 Rev. A | 800745-001 Rev. NA |
| 800746-001 Rev. B | 800748-001 Rev. A |
| 800739-001 Rev. NA | 800742-001 Rev. B |