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NUCLEAR PRODUCTS OPERATIONS
Vernon Nuclear Pump Operations, Vernon, CA 90058

25 April 2019
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FORMAL EVALUATION OF DEVIATIONS REPORTED – NOTIFICATION OF DEFECT

To: Document Control Desk, Nuclear Regulatory Commission
From: David P. Gobbi, Quality Assurance Manager, Flowserve Nuclear Products Operations

Date of Discovery by Owner / Customer: 11/19/2018
Date of Notification to Flowserve: 2/27/2019
Internal Reference: Flowserve Internal Corrective Action: 387337

Subject: Notification of Defect

Reference: Pressure Breakdown Sleeve, Part Number 09125139 installed in in Charging Pump Model - 2" RLIJ

Purpose: To provide the Commission with a Notification of a Defect as Pursuant to 10 CFR 21.21

Description of Reported Condition: A failure of the subject Charging Pump was reported by NEK. NEK issued a shut-down and continued to disassemble the unit. NEK observed a piece of the pressure reducing sleeve had broken loose during operation.

Flowserve Actions: This is to advise that a Formal Evaluation of a failed part within a Charging Pump supplied to NEK during 2015 by Flowserve Vernon has been conducted on April 22, 2019. This Formal Evaluation was conducted to formally confirm that the failed part created a safety hazard in accordance with 10CFR21.21. Further the Formal Evaluation reported on the root cause and the extent of condition.

Results of the Formal Evaluation Confirmed:


- A. That a safety hazard was created due to a part failure during operation;
- B. That the implemented manufacturing process was the root cause of the failed part;
- C. That the Extent of Condition was isolated to the subject part in the subject Charging Pump assembly;
- D. That this is an isolated incident as there were no other parts of the same part number or of similar manufacturing requirements previously supplied or in-process;
- E. That the required preventive action will prevent recurrence on this part and on other parts with similar manufacturing requirements.

I may be reached at 980-722-6770 or by email, at dgobbi@flowserve.com.

Cc: Dan Baehner, Plant Manager / Director, Nuclear Product Operations
Kenan Alpan, Director / Plant Manager, Vernon Operations
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Sincerely,


David P. Gobbi,
Quality Assurance Manager
Nuclear Products Operations
Flowserve Pump Division