Sulzer Pumps (US) Inc.
Customer Support Services
Donald B. Spencer, P.E.
General Manager, Nuclear Services
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Director, Office of Nuclear Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Document 2010-001 *Revision 1*

February 1, 2010 (Revision 1)
(Original January 27, 2010)

Subject: Title 10 Code of Federal Regulation Part 21 Notification:
Service Water Pump (2E) Failure at Farley Nuclear Station

Dear Sir or Madam,

Pursuant to Title 10, Code of Federal Regulations, Part 21, reporting requirements, Sulzer Pumps (US) Inc is reporting that a basic component (Service Water Pump (2E)) at the Farley Nuclear Station located in the state of Alabama contains a defect. Per part 21.21(4), the following information is required for this notification:

1. Name and address of the individual or individuals informing the Commission:

   Response:
   Donald B. Spencer, P.E.
   General Manager, Nuclear Services
   4126 Caine Lane
   Chattanooga, TN 37421

2. Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains defect:

   Response:
   Facility: Farley Nuclear Plant
   Basic Component: Unit 2 Service Water Pump (2E)

3. Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect:

   Response:
   Sulzer Pumps (US) Inc, Chattanooga Nuclear Service Center

4. Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply:

   Response:
   Defect of pump shaft journal coating resulting in failure of basic component (Service Water Pump 2E).

5. The date on which the information of such defect or failure to comply was obtained:

   Response:
   December 5, 2009

6. In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part:

   Response:
   Sulzer Pumps (US) Inc, Chattanooga Service Center received Farley Purchase Order QP060449 for eleven (11) Service Water Pumps. The following table outlines current status of the pumps on this order:

Serial Number	Status	Ship Date	Location
08C02139	Shipped	12/18/07	Farley
08C02140	Shipped	5/19/08	Farley
08C02141	Shipped	11/5/08	Farley
08C02142	In Manufacturing	N/A	Sulzer Chattanooga
08C02143	In Manufacturing	N/A	Sulzer Chattanooga
08C02144	In Manufacturing	N/A	Sulzer Chattanooga
08C02145	Failed in Plant	Originally Shipped 11/14/06	Sulzer Chattanooga for evaluation
08C02146	Shipped	8/3/07	Farley
08C02147	Shipped	7/30/08	Farley
08C02148	In Manufacturing	N/A	Sulzer Chattanooga
08C02149	In Manufacturing	N/A	Sulzer Chattanooga

Other Licensees where similar shaft coating condition may exist (Revision 1):

Location	***Service***	***Status***	***Sulzer Serial Number(s)***
Duane Arnold	*Essential Service Water (head, line and pump shafts)*	*Shipped*	*NTL1039 / 40, NB6701*
Duane Arnold	*River Water (pump shaft, 1 head shaft)*	*Shipped*	*NRW6511 / 15*
Duane Arnold	*RHR Service Water (pump shaft)*	*Shipped*	*NRT-5570 / 71 NRX-6542 / 43 NC6527*
TVA/ Sequoyah	*Emer. Raw Cooling Water (line shafts, upper line shaft)*	*Shipped*	*NH1221 / 28*
Vermont Yankee	*Emer. Service Water (refurbished head shaft)*	*Shipped*	*Sulzer Job: 08C02642 VY PO# 10156608*

7. The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action:

   Response:
   A joint root cause evaluation has been completed by Sulzer Pumps (US) and Farley. Corrective actions will include replacement parts with updated and corrected design. Sulzer is developing a manufacturing schedule to implement the corrective actions (estimated completion for schedule, 1st Quarter 2010).

   For the other licensee installations where this defect may exist, Sulzer will review shaft designs and existing documentation from coating supplier(s) to determine corrective action required (estimated completion date Feb. 12, 2010).

8. Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being or will be given to purchasers or licensees:

   Response:
   A comprehensive root cause report has been jointly developed and accepted by Sulzer and Farley.

9. In the case of an early site permit, the entities to whom an early site permit was transferred:

   Response:
   Not applicable.

Very truly yours,

Don Spencer

Donald B. Spencer, P.E.
General Manager, Nuclear Services

CC: Mauricio Bannwart, President, Sulzer Pumps (US) Inc
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