

General Information or Other (PAR)

Event # 45666

<b>Rep Org:</b> SULZER PUMPS INC	<b>Notification Date / Time:</b> 01/27/2010 16:28 (EST)
<b>Supplier:</b> SULZER PUMPS INC	<b>Event Date / Time:</b> 01/27/2010 (EST)
	<b>Last Modification:</b> 01/27/2010
<b>Region:</b> 1	<b>Docket #:</b>
<b>City:</b> CHATTANOOGA	<b>Agreement State:</b> Yes
<b>County:</b>	<b>License #:</b>
<b>State:</b> TN	
<b>NRC Notified by:</b> TOMMY CRAIG	<b>Notifications:</b> MALCOLM WIDMANN R2DO
<b>HQ Ops Officer:</b> JOE O'HARA	S. PANNIER (EMAIL) NRR
<b>Emergency Class:</b> NON EMERGENCY	J. THORP (EMAIL) NRR
<b>10 CFR Section:</b>	O. TABATABAI (EMAIL) NRO
21.21 UNSPECIFIED PARAGRAPH	

**DEFECT IN PUMP SHAFT JOURNAL COATING CAUSED SERVICE WATER PUMP (2E) FAILURE AT FARLEY NUCLEAR STATION**

The following was received via fax:

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

Response: 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

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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	for evaluation to Sulzer Chattanooga
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

"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).

"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."

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# SULZER

**Sulzer Pumps (US) Inc.**  
Customer Support Services  
Donald B. Spencer, P.E.  
General Manager, Nuclear Services  
200 SW Market St., 4<sup>th</sup> Floor  
Portland, OR 97201

Director, Office of Nuclear Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Document 2010-001 Revision 0

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
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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
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08C02147	Shipped	7/30/08	Farley
08C02148	In Manufacturing	N/A	Sulzer Chattanooga
08C02149	In Manufacturing	N/A	Sulzer Chattanooga

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, 1<sup>st</sup> Quarter 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,



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

CC: Mauricio Bannwart, President, Sulzer Pumps (US) Inc  
Warren Brandon, Manager Nuclear Service Center, Sulzer Pumps (US) Inc  
Tommy Craig, SNSC Quality Assurance Manager, Sulzer Pumps (US) Inc  
Roy Horner, Vice President CSS, Sulzer Pumps (US) Inc  
Tom Milton, Southern Company, Licensing  
Karl Strand, SPUSA Quality Assurance Manager, Sulzer Pumps (US) Inc  
Art Washburn, SNSC Engineering Manager, Sulzer Pumps (US) Inc

General Manager Supply Chain Management  
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