

Part 21 (PAR)

Event # 47162

<b>Rep Org:</b> HYDROAIRE <b>Supplier:</b> HYDROAIRE	<b>Notification Date / Time:</b> 08/17/2011 16:52 (EDT) <b>Event Date / Time:</b> 08/10/2011 (CDT) <b>Last Modification:</b> 08/17/2011
<b>Region:</b> 3 <b>City:</b> CHICAGO <b>County:</b> <b>State:</b> IL	<b>Docket #:</b> <b>Agreement State:</b> Yes <b>License #:</b>
<b>NRC Notified by:</b> ADAM JUNG <b>HQ Ops Officer:</b> CHARLES TEAL <b>Emergency Class:</b> NON EMERGENCY <b>10 CFR Section:</b> 21.21                      UNSPECIFIED PARAGRAPH	<b>Notifications:</b> HIRONORI PETERSON                      R3DO PART 21 GROUP                      EMAIL

## PART 21 - PUMP SHAFT COUPLING FAILURE

During operation a service water pump coupling failed on 8/10/2011 at Entergy Palisades. The failure occurred in a threaded line shaft coupling. At this point, the failure cause is not known. The root cause analysis is currently underway.

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JE19  
NRK



834 West Madison, Chicago, Illinois 60607-2698 (312) 738-3000  
Fax No.: (312) 738-3226

### Fax Cover Sheet

<b>To:</b>	NRC Operations Center	<b>Fax:</b>	(301) 816-5151
<b>Co.:</b>	USNRC, Washington, DC	<b>Date:</b>	8/17/11
<b>From:</b>	HydroAire Services, Inc.		
<b>Subj:</b>	Part 21 Notification	<b>Pages:</b>	4
<b>CC:</b>			



834 West Madison, Chicago, Illinois 60607-2698 • (312) 738-3000  
Fax No.: (312) 738-3226

August 17, 2011

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

Subject: Part 21 Notification

Dear Sir or Madam:

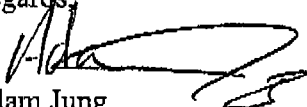
On 8/10/2011, Entergy Palisades reported to HydroAire the failure of a pump in their service water system (see attached email dated 8/10/11.) The current failure occurred in a threaded line shaft coupling in Palisades' 7C service water pump. The pump coupling was purchased under Entergy Palisades P.O. 10253715 Rev. 03, HydroAire job NQ-5912. (Entergy Cat I.D. 0032069405 1).

This notification is to conform to the requirements of 10 CFR Part 21 and HydroAire PCP 041 Rev. 6.

At this point, the failure cause is not known, however, Palisades and their outside consultants are currently performing the root cause analysis (RCA). HydroAire has been requested by Entergy Palisades to not participate in the RCA currently underway.

This same pump (7C) was documented in HydroAire's December 16, 2009 Part 21 notification to the NRC (attached). While the current line shaft coupling failure appears similar to the 2009 line shaft coupling failure, any correlation between the two can be determined once the current RCA is complete.

Regards,

  
Adam Jung  
Quality Assurance Specialist  
HydroAire Services, Inc.

8-17-11

Cc: George Harris

**Helen Starling**

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**From:** Nick Dagres  
**Sent:** Wednesday, August 10, 2011 12:40 PM  
**To:** Dibu Chowdhury  
**Cc:** Don Spencer; Dr. Ravi; Faisal Salman; Dave Wright; George Harris; Adam Jung; Sesha Giri; Madhav Durge; Michelle Carrera  
**Subject:** RE: Palisades Failure - Update

To all

It was a coupling failure (2<sup>nd</sup> one down from the top) on the same pump that failed in Oct 2009.

We held a conference call with Palisades at 10:00 am CST (Brian Kemp, Tim Zouba spelling?, John Kasishke).

Nick

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**From:** Nick Dagres  
**Sent:** Wednesday, August 10, 2011 8:32 AM  
**To:** Dibu Chowdhury  
**Cc:** Don Spencer; Dr. Ravi; Faisal Salman; Dave Wright; George Harris; Adam Jung; Sesha Giri; Madhav Durge  
**Subject:** Palisades Failure - Update

Dibu

Update from Palisades as of 7:45 am on 8/10/11:

They do not have a cause of failure as of yet

Location at plant – P7C

Pump that is in that position – HydroAire job NC-5912 Palisades PO 10253715 (This was the same pump that failed where we supplied new parts back in October 2009)

Palisades is in the process of removing the motor and head this morning.

Upon instructions from Palisades (John Kasishke), the new service water pump (NQ-5940) shipped out late last night from Chicago and arrived at the station at 4:00 am. Palisades QA and engineering are in the process of receiving the new service water pump and documentation.

Nick

8/17/2011



**HydroAire Service** Incorporated

834 West Madison, Chicago, Illinois 60607-2698 (312) 738-3000  
Fax No.: (312) 738-3226

December 16, 2009

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

Subject: Part 21 Notification

Dear Sir or Madam,

Palisades of Entergy on 9/29/09 reported to us the failure of a pump in their service water system. This notification, although it is late, is to conform to the requirements of 10 CFR Part 21 and our PCP 041 Rev. 2. Attached are the details of the failure as reported in Entergy Corrective Action Request LO-CAR-2009-00103.

Regards,

Seshu Giri  
Quality Assurance Manager  
HydroAire Services, Inc.

MC 12/16/09

Cc: George Harris