

General Information or Other (PAR)

Event # 45574

Rep Org: HYDROAIRE		Notification Date / Time: 12/16/2009 17:11 (EST)	
Supplier: HYDROAIRE		Event Date / Time: 09/29/2009 09:02 (CST)	
		Last Modification: 12/16/2009	
Region: 3	Docket #:		
City: CHICAGO	Agreement State:	Yes	
County:	License #:		
State: IL			
NRC Notified by: SSHA GIRI		Notifications: TAMARA BLOOMER	R3DO
HQ Ops Officer: VINCE KLCO		PART 21 COORDINATOR	NRR
Emergency Class: NON EMERGENCY		RICHARD BARKLEY	R1DO
10 CFR Section:			
21.21	UNSPECIFIED PARAGRAPH		

PART 21 INVOLVING A PUMP SHAFT COUPLING FAILURE

A service water pump failed during operation on 9/29/2009. Upon disassembly it was detected that a shaft coupling installed on a repaired service water pump failed while in service. The failed coupling was replaced with a new coupling of a different heat code. According to the manufacturer, the threaded coupling design was only supplied for Palisades.

1E19
NRR

Miscellaneous Info: Event# 45574

Hydroaire POC: Sesha Giri; QA Manager: (312) 738-3000

Attached Entergy corrective action documents (LO-CAR-2009-00103) reference plant locations: PLP and IPEC thus Regions 3 and 1 were placed on distribution.

HOO Hoc

From: Helen Starling [hstarling@hydro-aire.com] on behalf of Sesha Giri [sgiri@hydro-aire.com]
Sent: Wednesday, December 16, 2009 5:11 PM
To: HOO Hoc
Subject: Part 21 Notification
Attachments: NDR No. QANC-09 97.pdf; CAR 09-04.pdf; Part 21 Notification Letter.pdf; CAR LO-CAR-2009-00103 - signed by HydroAire.pdf

Dear Sir or Madam,

Please find attached HydroAire's Part 21 Notification letter and other related documents.

Regards,

Sesha Giri
QA Manager
HydroAire Services, Inc.
(312) 738-3000



NONCONFORMANCE & DISCREPANCY REPORT

NDR No.: QANC- 09 97

Date: 12/15/09

Nonconformance Code: _____

Inspection Point ☐ Incoming ☐ In-Process ☒ Other

Section A. Item Identification

1. Part Name/Description: Pump Coupling

2. Job No.: NQ5832

3. Work Order No.: NA

4. Part No. NA

5. Heat No.: NA

6. PO No.: 10237148

7. Other:

Section B. Condition Description

1. Specification:

PCP 041 Rev 02. Para 5.1

2. Deficiency Description:

Failed to report NRC as required by 10 CFR Part 21 and HydroAire PCP 041 requirements.

3. Attachments:

4. Originator: Adam Jung AV 12-15-09 Date: 12/15/09

Section C. Disposition

1. Recommended Disposition

- ☐ Scrap (Return to Vendor)
☐ Rework
☐ Accept-As-Is
☐ Repair
☒ Other (define)

2. Actual Disposition

- ☐ Scrap (Return to Vendor)
☐ Rework
☐ Accept-As-Is
☐ Repair
☒ Other (define)

3. Approvals

Operations: [Signature] Date: 12/15/09Contract Admin: NR Date: _____Engineering: [Signature] Date: 12/15/09QA: [Signature] Date: 12/15/09

4. Technical Justification (use for "Accept-As-Is", "Repair" or "Other")

HydroAire made the assumption that Palisades would invoke part 21 under their QA program following USNRC guideline Section 21.2, Para (c). This assumption was further supported by the corrective action request LO-CAR-2009-00103 initiated by Entergy dated 10/05/09, which was addressing the failure of P-7C service water pumps at Palisades.

Engineering: [Signature] Date: 12/15/09

Section D. Cause and Corrective Action

Inaccurate assumptions based on improper and inadequate understanding of 10CFR part 21 by HydroAire personnel.

Internal meeting will be conducted to educate all concerned personnel on PCP 041. A Training record will be documented.

By: Michelle Carrera Date: 12-15-09By: Michelle Carrera Date: 12-15-09QA: [Signature] Date: 12/15/09

Section E. Customer Acceptance (Required)

Customer Acceptance:

NR

By:

Date:

Section F. Verification

1. Disposition Verified By:

QC:

Date:

2. Corrective Action Verified By:

QA:

Date:

HydroAire
QAM S.G.

Review 12/15/09



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.

ME 12/16/09

Cc: George Harris

CEXO2009-00257

Attachment A

Corrective Action Request LO-CAR-2009-00103

Entergy Corrective Action Request

Issued To: HydroAire Inc
834 West Madison
Chicago, IL 60607

Number: LO-CAR-2009-00103

Response Date: 30 days upon receipt of
the CAR issuance letter

Person Contacted: Mr. Sesha Giri
Quality Assurance Manager

Audit/Surveillance No N/A

Requirements:

PLP PO 10237148 Revision 002

The supplier shall conduct factory tests and inspections necessary to determine that the workmanship and materials are free from defects and that the design and construction are such that the item furnished will perform as required by this and referenced documents.

Nonconformance:

Contrary to the above requirement, shaft coupling installed on repaired service water pump failed while in service.

Reference: CR-PLP-2009- 04519

HydroAire to determine cause, extent, resolution and potential Part 21 reportability.

Cause, extent, and resolution are in progress. Part 21 Reportability is evaluated and is isolated to Palisades Nuclear Plant only.

EVALUATIONS:

Is an evaluation of the nonconformance for reportability per 10CFR21 required?

Yes ☐ No ☒ Further Investigation Required ☒ by HydroAire

Evaluator's Initials: HGR Date 10/05/09

Plant(s) Locations: PLP, IPEC

Does the finding have potential for impact on past, current or future Services or Hardware for:

☐ ANO ☐ GGNS ☐ RB ☐ W-3 ☐ Pilgrim ☒ Palisades
☒ IP2 ☒ IP3 ☐ Fitzpatrick ☐ VTY ☐ Big Rock Point

Yes ☐ No ☒

Comments: Failed coupling replaced with new coupling of a different heat code.


Initiator

10/05/09
Date


Supervisor, Supplier QA

10/5/09
Date

(9) Cause of Nonconformance:

Cause is still to be determined and root cause analysis is underway.
Anticipated completion is thirty days from this response.

Entergy Corrective Action Request

(10) Corrective Action Taken:

Dependent upon findings of root cause analysis,
yet to come.

(11)

11-04-09

Date Completed or
Scheduled Completion Date

(12)


Responding Signature

11/04/09
Date

(13) Method of Verification:


V.P. Administration

11-04-09

(14)

Verified/Closed

Date

(15)

Closure Review

Date

Entergy Corrective Action Request

SUPPLIER INSTRUCTIONS FOR COMPLETING CAR FORM

NOTES

- | | | |
|-----|---|---|
| 9) | Cause of Nonconformance | Clearly state the root cause of the nonconformance for findings issued. |
| 10) | Corrective Action Taken | Indicate action taken or planned to correct and prevent recurrence of nonconformance and/or area for improvement. |
| 11) | Date Completed or Scheduled Completion Date | Indicate date action described above was completed or is scheduled to be completed. |
| 12) | Responding Signature/Date | Member of management responsible for response signs and dates. |

When the corrective action cannot be completed by the date requested, submit a report describing the action to be taken and projected completion date.

Submit a follow-up report describing the action taken, the date action was completed, and objective evidence to document corrective action has been accomplished and implemented.

Entergy**CONDITION REPORT****CR-PLP-2009-04519****Originator:** Shaffer, Geri G**Originator Phone:****Originator Group:** Operations Shift Staff PLP**Operability Required:** Y**Supervisor Name:** Kane, Michael J**Reportability Required:** Y**Discovered Date:** 09/29/2009 09:02**Initiated Date:** 09/29/2009 09:28**Condition Description:**

Received alarm EK-1149, SERVICE WATER PUMPS STANDBY PUMP RUNNING, EK-1163, CRITICAL SERV WATER HEADER 'B' LO PRESSURE, EK-1164, CRITICAL SERV WATER HEADER 'A' LO PRESSURE, and EK-1165, NONCRITICAL SERVICE WATER LOW PRESSURE, unexpectedly. Service Water P-7B started in Standby. Service Water Pump P-7C was operating with 31 amps (normally greater than 80) and local indication of duress (shaft visibly vibrating with no discharge pressure). Secured P-7C. At the beginning of shift, Service Water Pumps P-7A and P-7C were in service with basket strainer DP's at 6 PSID and 5 PSID. Cycled through all the Service Water Pumps leaving P-7A & P-7C I/S. Final Basket Strainer DP's are: P-7A @ 4 PSID. P-7B @ 3.5 PSID. P-7C @ 3.5 PSID. Service Water Header Pressure rose 2.3 PSI. Entered ONP-6.1, "Loss of Service Water" and Technical Specification LCO 3.7.8 (72 hours). There is no Emergency Plan impact and the event is not reportable.

Immediate Action Description:

Secured Service Water Pump P-7C and entered ONP-6.1, "Loss of Service Water"
Initiated WR# 00176906.

Suggested Action Description:**EQUIPMENT:**Tag Name

P-7C

Tag Suffix Name Component Code Process System Code

HCHM/SR/MR PUMP

CSW

REFERENCE ITEMS:Type Code

CR

WR

Description

CR-PLP-2009-04542

00176906

TRENDING (For Reference Purposes Only):Trend Type

HEP FACTOR

INPO BINNING

REPORT WEIGHT

KEYWORDS

KEYWORDS

KEYWORDS

EE

KEYWORDS

Trend Code

E

ER2

4

KW-SERVICE WATER

KW-PUMP SHAFT

KW-TECHNICAL SPECIFICATION

ESSE

KW-ANNUNCIATOR