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Dresden Nuclear Power Station  
6500 North Dresden Road  
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February 18, 2011

SVPLTR #11-0010

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

Dresden Nuclear Power Station, Unit 3  
Facility Operating License No. DPR-25  
NRC Docket No. 50-249

Subject: Owner's Activity Report Submittal  
Fourth 10-Year Interval 2010 Refueling Outage Activities

This letter submits the Owner's Activity Report (i.e., Form OAR-1) and Invesel Visual Inspection (IVVI) Report for the Dresden Nuclear Power Station (DNPS) Unit 3 refueling outage (D3R21) which began on November 1, 2010, and was completed on November 26, 2010. This is the first refueling outage conducted in the third inspection period of the fourth 10-year inservice inspection interval for DNPS Unit 3. A copy of the Owner's Activity Report and IVVI Report are provided as attachments to this letter.

This Owner's Activity Report is submitted in accordance with American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Case N-532-4, "Repair/Replacement Activity Documentation Requirements and Inservice Summary Report Preparation and Submission," and Regulatory Guide 1.147, "Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1," Revision 15. Code Case N-532-4 requires an Owner's Activity Report Form OAR-1 to be prepared and certified upon completion of each refueling outage. In accordance with the conditions of Code Case N-532-4, this OAR-1 form is being submitted within ninety days of the completion of the refueling outage.

The IVVI results are provided to report vessel internal inspections and to support B-N-1 and B-N-2 relief request exam completion.

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Should you have any questions concerning this letter, please contact Mr. Dennis Leggett,  
Regulatory Assurance Manager, at (815) 416-2800.

Respectfully,



Tim Hanley  
Site Vice President  
Dresden Nuclear Power Station

Attachments: Owner's Activity Report, Form OAR-1  
In-vessel Visual Inspection Report

cc: Regional Administrator – Region III  
NRC Senior Resident Inspector, Dresden Station

**FORM OAR-1 OWNER'S ACTIVITY REPORT**

Report Number Refueling Outage D3R21 OAR-1

Plant Dresden Nuclear Power Station, 6500 N. Dresden Road, Morris, IL 60450

Unit No. 3 Commercial Service Date 11/16/1971 Refueling Outage Number D3R21  
(if applicable)

Current Inspection Interval 4<sup>th</sup> Inspection Interval  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, other)

Current Inspection Period 3<sup>rd</sup> Inspection Period  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>)

Edition and Addenda of Section XI applicable to the Inspection Plans 1995 Edition with 1996 Addenda

Date / Revision of Inspection Plans 1/20/2010/Revision 7

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans N/A

Code Cases used: N-416-3, N-649

**CERTIFICATE OF CONFORMANCE**

I certify that (a) the statements made in this report are correct; (b) the examinations and tests, meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of D3R21 conform to the requirements of Section XI (refueling outage number)

Signed John N. Kish, ISI Coordinator Date 2/16/11  
(Owner or Owner's designee. Title)

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by The HSBCT of Hartford, Connecticut have inspected the items described in this Owner's Activity Report, and state that to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty expressed or implied concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[Signature] Commissions IL 1546  
(Inspector's Signature) National Board, State, Province, and Endorsements

Date 2/16/11



**TABLE 2  
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE**

<b>Code Class</b>	<b>Item Description</b>	<b>Description Of Work</b>	<b>Date Completed</b>	<b>Repair/ Replacement Plan Number</b>
3	Pitting Found on Unit 3 DGCW Flanges	Repaired Flanges Thru Weld Build Up and Machining	1/27/10	RRP 3-10-001
3	Pitting Found on Unit 2/3 DGCW Flanges	Repaired Flanges Thru Weld Build Up, Machining and Replacement	4/01/10	RRP 3-10-019
2	Indication on Torus/ECCS Ring Header Saddle Support	Removed Indication Thru Surface Conditioning	11/11/10	RRP 3-10-083
2	Loose Nuts on Iso Condenser Support	Tightened Nuts	11/18/10	RRP 3-10-090
1	Indication On RPV Head Nut 37	Replaced Nut 37	11/23/10	RRP 3-10-091
1	Snubber 3-203-34 Failed Functional Test	Replaced snubber	11/14/10	RRP 3-10-087
1	Snubber 3-3204E-38 Failed Functional Test	Replaced snubber	11/14/10	RRP 3-10-088
1	Snubber 3-3001A-46 Failed Functional Test	Replaced snubber	11/13/10	RRP 3-10-015
1	Snubber 3-3001D-48 Failed Functional Test	Replaced snubber	11/4/10	RRP 3-10-016
1	Snubber 3-3019D-55 Failed Functional Test	Replaced snubber	11/9/10	RRP 3-10-028
1	Snubber 3-3001A-42 Failed Functional Test	Replaced snubber	11/09/10	RRP 3-10-031
1	Snubber 3-3001A-47 Failed Functional Test	Replaced snubber	11/6/10	RRP 3-10-032
1	Snubber 3-3001C-50 Failed Functional Test	Replaced snubber	11/3/10	RRP 3-10-033
1	Snubber 3-3001B-41 Failed Functional Test	Replaced snubber	11/9/10	RRP 3-10-034

### **Dresden Unit 3 In-Vessel Visual Inspection Report Refueling Outage D3R21**

The ASME Section XI inspections credited during D3R21 IVVI activities include the once-per-period B-N-1 inspection of the reactor vessel interior and B-N-2 inspections of reactor vessel interior attachments. Credit is being taken for these examinations in accordance with Relief Request, "Alternative Requirements to ASME Section XI, B-N-1 and B-N-2 using BWRVIP Guidelines, Fleet Relief," submitted April 19, 2007, as approved in the Safety Evaluation dated April 30, 2008.

To implement the requirements of the Boiling Water Reactor Vessel Internals Program (BWRVIP), GE was contacted to perform the In-Vessel Visual Inspections (IVVI). The following components and assemblies were examined:

- 153 welds and components on jet pump assemblies in accordance with the BWR Jet Pump Assembly Inspection and Flaw Evaluation Guidelines (BWRVIP-41).
- Ten core spray piping welds and one core spray sparger bracket to shroud attachment weld in accordance with the BWR Core Spray Internals Inspection and Flaw Evaluation Guidelines (BWRVIP-18-A). Inspected the Core Spray lower sectional piping and hardware that was installed in D3R18.
- 14 shroud vertical welds in accordance with the BWR Core Shroud Inspection and Flaw Evaluation Guidelines (BWRVIP-76).
- Attachment welds for two core spray piping brackets and two dryer wall support lugs in accordance with BWR Vessel and Internals Project Lower Vessel ID Attachment Weld Inspection and Flaw Evaluation Guidelines (BWRVIP-48-A).
- Performed inspections of accessible stub tube and housing welds from two cells that were disassembled to install a plug in the bottom head drain in support of drain line valve maintenance (BWRVIP-48-A and B-N-2).
- Dryer examinations were performed for the second consecutive outage (new dryer installed in D3R19). All critical inspections were completed with no new indications. There was no evident change to the only indication previously identified in D3R20. This indication did not affect the structural integrity of the dryer or ability to remove moisture. Dryer inspections were performed in accordance with BWR Vessel and Internals Project Steam Dryer Inspection and Flaw Evaluation Guidelines (BWRVIP-139-A).

The following augmented examinations were also performed as part of the D3R21 IVVI activities:

- Five jet pump swing gate bolting tack welds were inspected for evidence of weld failure. These inspections were performed in response to previous tack weld failures.
- Inspected the eight feedwater sparger end bracket surfaces for evidence of wear. These inspections were a follow-up to evidence of wear from the pins observed during D3R20. Five of the eight brackets showed evidence of wear similar to that observed during D3R20. Dresden will continue to monitor this condition while long-term repair options are being evaluated.
- Six SRM/IRM dry tubes were inspected in accordance with SIL 409 guidance.
- One JP 11 auxiliary wedge was replaced due to previously identified wear.
- Inspected a steam separator guide rod top cone. The dryer had previously contacted the guide rod.
- Ultrasonic examinations were performed on the access hole cover welds in accordance with BWR Vessel and Internals Project Access Hole Cover Inspection and Flaw Evaluation Guidelines (BWRVIP-180).

The above BWRVIP and augmented examinations resulted in no indications identified in the reactor interior surface as defined in B-N-1 or the reactor interior attachments as defined by B-N-2.