

February 11, 2009

SVPLTR #09-0007

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 2008 Refueling Outage Activities

This letter submits the Owner's Activity Report (i.e., Form OAR-1) and In-vessel Visual Inspection (IVVI) Report for the Dresden Nuclear Power Station (DNPS) Unit 3 refueling outage (D3R20) which began on November 3, 2008, and was completed on November 21, 2008. This is the second refueling outage conducted in the second 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.

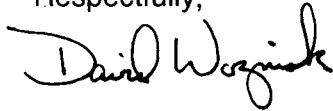
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There are no regulatory commitments contained in this letter.

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

Respectfully,

A handwritten signature in black ink, appearing to read "David Wozniak". The signature is fluid and cursive, with the first name "David" and last name "Wozniak" clearly distinguishable.

David Wozniak
Site Vice President
Dresden Nuclear Power Station

Attachments: Owner's Activity Report, Form OAR-1
Dresden Unit 3 In-Vessel Visual Inspection Report Refueling Outage D3R20

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

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number _____ Refueling Outage D3R20 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 D3R20
(if applicable)

Current Inspection Interval _____ 4th Inspection Interval
(1st, 2nd, 3rd, 4th, other)

Current Inspection Period _____ 2nd Inspection Period
(1st, 2nd, 3rd)

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

Date / Revision of Inspection Plans _____ 05/23/2008/ Revision 6

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, N-496-2

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 D3R20 conform to the requirements of Section XI (refueling outage number)

Signed John N. Kish, ISI Coordinator Date 2/04/09
(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 2/6/09

D3R20 OAR-1

[illegible]

D3R20 OAR-1

TABLE 2

ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

[illegible]

**Dresden Unit 3
In-Vessel Visual Inspection Report
Refueling Outage D3R20**

The ASME Section XI inspections credited during D3R20 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:

- 21 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, 50% of the core spray sparger nozzle welds, all of the core spray sparger end cap welds and all of the core spray sparger bracket welds in accordance with the BWR Core Spray Internals Inspection and Flaw Evaluation Guidelines (BWRVIP-18-A)
- Two shroud vertical welds in accordance with the BWR Core Shroud Inspection and Flaw Evaluation Guidelines (BWRVIP-76)
- Two shroud horizontal welds in accordance with the BWR Shroud Support Inspection and Flaw Evaluation Guidelines (BWRVIP-38)
- Two top guide aligner pins and rim weld in accordance with BWR Vessel and Internals Project Top Guide Inspection and Flaw Evaluation Guidelines (BWRVIP-26-A)
- Nine Control Rod Guide Tubes in accordance with BWR Vessel and Internals Project Lower Plenum Inspection and Flaw Evaluation Guidelines (BWRVIP-47-A)
- Attachment welds for two core spray piping brackets, all dryer and separator guide rod brackets, and all surveillance capsule brackets in accordance with BWR Vessel and Internals Project Lower Vessel ID Attachment Weld Inspection and Flaw Evaluation Guidelines (BWRVIP-48-A)
- First time dryer examinations were performed after one cycle of operation (new dryer installed in D3R19). All critical inspections were completed with only one relevant indication. The indication was caused by contact between the dryer and a moisture separator guide rod. 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)

**Dresden Unit 3
In-Vessel Visual Inspection Report
Refueling Outage D3R20**

The following augmented examinations were also performed as part of the D3R20 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 D3R19. Five of the eight brackets showed evidence of wear similar to that observed during D3R19. 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.
- Beams, transition piece, and sensing lines for two jet pumps. These inspections were performed to address changes in jet pump flows as identified during the previous cycle trending.
- Three auxiliary wedges installed during the last two refuel outages. Wear was noted on two of the wedges. Dresden will continue to monitor this condition until repairs/replacements are performed.

The above BWRVIP and augmented examinations resulted in no indications requiring repair in D3R20. Additionally, there were 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.

OAR-1 Summary

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Repair/ Replacement Plan No.	Work Request Number	Code Class	EPN Number	Description of Repair/Replacement	OAR-1	
					Reportable	Dbase Record
2-05-004	00687606-01	3	2-3903	Replace DGCW pump with new SS pump. (EC 347742)	No	
2-06-002	00648380-01	2	2-23-M1151D273	Replace bolting due to insufficient thread engagement.	No	
2-06-005	00903941-01	3	2-5700-30A	Install T-Mod on CCSW room cooler piping to isolate room cooler 2-5700-B.	No	
2-06-011	00903941-04	3	2-5700-30B	This plan is for repairs that are contingencies for the CCSW room cooler. The options are replacement of headers 2) replacement of tube bends and 3) capping of tube circuits. The option chosen will depend on what is found when the cooler is disassembled.	No	
2-07-008	98037205-01	1	2-0203-2B	Replace main disc assembly with refurbished spare disc assembly based on results of as found internal inspections, also will replace liner with upgraded assembly. May also replace bolting if needed if found to be worn or lost during dis- assembly/assembly.	No	
2-07-009	00774928-01	1	2-0305-102	Replace 102 valve and piping on Unit 2 drive 22-31.	No	
2-07-010	00864109-01	1	2-0305-101	Replace 101 valve and associated piping on Unit 2 drive 38-43.	No	
2-07-013	00894704-01	1	2-0220-62B	Contingency to replace existing disc/seat assembly with a refurbished spare to add groove for O-ring or install new disc/seat assembly.	No	
2-07-021	00865029-01	1	2-305-101	Replace 101 valve and associated piping on Unit 2 drive 50-31.	No	
2-07-022	00925316-01	1	2-305-101	Replace 101 valve and associated piping on Unit 2 HCU 46-11.	No	
2-07-023	00994918-01	1	2-305-101.	Replace 101 valve and associated pip[ing for Unit 2 HCU G-1.	No	

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Repair/ Replacement Plan No.	Work Request Number	Code Class	EPN Number	Description of Repair/Replacement	OAR-1	
					Reportable	Dbase Record
2-07-024	00881015-01	1	2-0203-3A	Replace Target Rock and bolting if necessary due to it being worn or lost during disassembly/assembly.	No	
2-07-031	00644106-01	2	2-1105B	Replace valve for IST purposes. Inlet flange bolting may also be replaced if needed.	No	
2-07-036	00818236-03	1	M-1156D-2	Modify support M-1156D-2 per EC 354971.	No	
2-07-037	00864830-01	1	2-305-42-19-101	Replace 101 valve and associated piping on HCU 42-19 on Unit 2.	No	
2-07-039	00818236-02	1	M-1157D-1	Modify pipe support M-1157D-1 per EC 354971 to facilitate the 2B recirc pump motor replacement.	No	
2-07-040	00973006-01	MC	2-4724	Install additional AOV 2-4724 and check valve to eliminate SCRAM single point vulnerability issue. EC 351639	No	
2-07-042	01035121-01	MC	2-2001-5	Troubleshoot valve and replace diaphragm and bolting as needed.	No	
2-07-043	01035121-04	MC	2-2001-6	Troubleshoot valve and replace diaphragm as needed. Replace bolting as needed.	No	
2-07-047	00818236-01	1	M-1152D-5	Modify support M-1152D-5 to facilitate 2B reactor re-circ pump motor replacement per EC 354971.	No	
2-07-049	01065522-01	3	2/3-1599-101	Replace valve disc (gate) and bolting as needed based on dis-assembly and inspection.	No	
2-07-062	01061705-01	3	LINE 2-1510-16D	Replace 5' of CCSW piping in U2 Reactor Building including elbow that is inlet for 2A LPCI heat exchanger and upstream of 4A valve.	No	
2-07-063	01061705-04	3	LINE 2-1510-16D	Replace 5 foot of CCSW pipe in Unit 2 Turbine Building.	No	
2-07-064	01061705-15	3	LINE2-39308-1.5	Replace line 2-39308-1-1/2" in Unit 2 Turbine Building.	No	

OAR-1 Summary

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Repair/ Replacement Plan No.	Work Request Number	Code Class	EPN Number	Description of Repair/Replacement	OAR-1	
					Reportable	Dbase Record
2-07-065	01035258-01	3	2-1514-16"-D	Perform repair on corroded CCSW line by grinding away corrosion and welding back up.	No	
2-07-069	01077358-01	2	2-1301	Reweld the splash baffle support bracket to shell interior	No	
2-07-071	01035258-09	3	2-1514-16"	Repair of min wall indication on line by welding branch connection	No	
2-07-075	01079263-01	1	SPT X-105B	Modify support X-105B per EC 1079263.	No	
2-08-001	00908785-01	3	2-5747	Replace inlet union to HPCI room cooler if necessary during performance of PM's.	No	
2-08-003	00637538-01	2	2-2301-71	Dis-assemble and inspect 2-2301-71 valve. RRP prepared after work done. See IR 724101.	No	
2-08-004	00983828-01	2	2-1105A	Replace SBLC relief valve and the inlet bolting if necessary.	No	
2-08-005	01080352-01	2	2-1105B	Rebuild the SBLC relief valve that was removed from Unit 2, 2B train under WO 644106-01 and return to Stores.	No	
2-08-006	01083310-01	2	SPR FDWTR CHK	Refurbish spare feedwater check valve assembly removed under WO 644107-01.	No	
2-08-007	01087103-01	1	2-305-38-03-107	Replace valve disc based on seat leakage.	No	
2-08-023	00983828-07	2	2-1105A	Rebuild valve if required after pop test.	No	
3-06-005	00756524-01	2	3-1501-63A	Inspection of valve for license renewal could involve replacement of entire valve. Bolting may also be replaced if needed.	No	
3-06-007	00763064-01	1	3-0220-62B	Contingency to replace existing disc/seat assembly with a refurbished spare modified to add groove for O-ring or install new disc/seat assembly.	No	

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Repair/ Replacement Plan No.	Work Request Number	Code Class	EPN Number	Description of Repair/Replacement	OAR-1	
					Reportable	Dbase Record
3-06-008	99226966-01	1	3-0220-62A	Contingency to replace existing disc/seat assembly with a refurbished spare modified to add-groove for O-ring or install new disc/seat assembly.	No	
3-06-056	99207934-05	3	3-6669A & B	PM replacement of DGCW heat exchangers. Extent of replacement will be based on as found condition. Bolting may be replaced if damaged during removal or to facilitate installation. Include replacement of SW supply and return flex hoses in this repair.	No	
3-06-057	00920390-01	3	3-39245-2"-O	Replace line 3-39245-2"-O that was identified as having thinning walls per NDE. Also valves 3-3999-342 and 3-3999-344 will also be replaced.	No	
3-06-061	00955183-01	1	3-0299-113A	TCCP to add instrument between reference leg inside Class I boundary	No	
3-07-004	01019346-01	2	3-2301-3	Replace valve bonnet on 3-2301-3 valve.	No	
3-07-013	01035225-01	1	3-305-58-23-138	Replace ball on check valve 138 for HCU 58-23.	No	
3-07-015	99019536-01	2	3-1501-17A	Replace valve for IST purposes. Bolting may be replaced if necessary.	No	
3-07-016	99244566-01	2	3-1402-28A	Replace relief valve for IST purposes. Bolting may be replaced if needed.	No	
3-08-002	00996486-01	3	3-3933-502	Replace 3-3933-502 valve and bolting as required.	No	
3-08-003	00568410-01	2	3-2301-23	Replace 3-2301-23 relief valve and inlet bolting if necessary.	No	
3-08-004	00911669-12	3	2/3-6669-B	Replace 2/3 DG 'B' cooling water heat exchanger and bolting if necessary.	No	
3-08-005	00911669-15	3	2/3-6669-A	Replace 2/3 'A' cooling water heat exchanger and bolting if necessary.	No	
3-08-006	01108194-01	3	3-1514-16"	Replace degraded section of CCSW pipe as identified in NDE report 08-044.	No	

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Repair/ Replacement Plan No.	Work Request Number	Code Class	EPN Number	Description of Repair/Replacement	OAR-1	
					Reportable	Dbase Record
3-08-009	00880955-01	2	3-2301-7	Replace valve disc if required based on inspection results.	No	
3-08-011	01127494-01	2/3	3-1503-B	Contingency to replace LPCI heat exchanger bolting if lost or damaged.	No	
3-08-012	00996870-01	3	3-5746-B	Replace room cooler coil and union as needed on 3B LPCI room cooler.	No	
3-08-013	00767123-01	2/3	3-1503-A	Contingency to replace 3A LPCI heat exchanger bolting if lost or damaged during inspection.	No	
3-08-014	00771004-01	1	3-0203-3E	Replace ERV relief valve 3E. Bolting may be replaced if required.	No	
3-08-016	00773054-01	1	3-0203-3B	Replace ERV relief valve 3B. Bolting may be replaced if required.	No	
3-08-017	00773036-01	1	3-0203-4H	Replace Unit 3 MSSV 4H for IST purposes. Inlet flange may also be machined if found damaged or pitted per Task 05.	No	
3-08-018	00773039-01	1	3-0203-4F	Replace Unit 3 MSSV 4F for IST purposes. Inlet flange may also be machined if found damaged or pitted per Task 05.	No	
3-08-020	00773058-01	1	3-0203-4E	Replace Unit 3 MSSV 4E for IST purposes. Inlet flange may also be machined if found damaged or pitted per Task 05.	No	
3-08-021	00993086-01	1	3-0203-3A	Replace Unit 3 Target Rock valve 3A for IST purposes. Inlet flange may also be machined if found damaged or pitted per Task 05.	No	
3-08-022	00974093-01	1	3-305-30-23-102	Replace Unit 3 "102" valve on HCU 30-23, "H6".	No	
3-08-027	99237611-01	MC	3-4399-915	Replace relief valve for IST purposes. Inlet flange bolting may also be replaced if damaged worn or lost.	No	
3-08-034	01160392-01	MC	3-2001-106	Replace valve diaphragm and troubleshoot internals. Replace as required. Valve bolting may be replace as needed.	No	
3-08-035	01160392-04	MC	3-2001-105	Replace valve diaphragm, spindle and bolting as required.	No	

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Repair/ Replacement Plan No.	Work Request Number	Code Class	EPN Number	Description of Repair/Replacement	OAR-1	
					Reportable	Dbase Record
3-08-037	00996944-01	MC	3-2001-05	Replace valve diaphragm and overhaul.	No	
3-08-038	00996947-01	MC	3-2001-06	Replace valve diaphragm and overhaul.	No	
3-08-040	00989661-01	3	3-5747	Replace inlet union to HPCI room cooler if necessary during performance of PM's.	No	
3-08-041	01005909-05	1	CRDM'S	Replace CRDM's during D3R20 per tasks 5 thr 24.	No	
3-08-052	989684-01	1	3-0205-27	Remove, inspect, repair and if required replace Head Cooling check valve and bolting.	No	
3-08-056	00978519-22	MC	TORUS HATCH	Bolting missing and will be replaced	No	