



Exelon Generation®

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TMI-16-023
February 22, 2016

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

Three Mile Island Nuclear Station, Unit 1
Renewed Facility Operation License No. DPR-50
NRC Docket No. 50-289

Subject: Three Mile Island Nuclear Station, Unit 1 T1R21 Refueling Outage Inservice Inspection (ISI) Owner's Activity Report and Attachments

The purpose of this letter is to provide the Three Mile Island Nuclear Station Owner's Activity Report (OAR-1) for Inservice Inspections as required by the American Society of Mechanical Engineers (ASME) Code, Section XI, 2004 Edition with no Addenda and ASME Code Case N-532-5 Repair/Replacement Activity Documentation Requirements and Inservice Summary Report Preparation and Submission – Section XI, Division 1.

Attachment 1 is the ISI Owner's Activity Report covering ISI activities associated with T1R21 Refueling Outage which started on October 30, 2015, and was the 1st outage of the 2nd period of the 4th ISI inspection interval.

If you should have any questions, please contact the Three Mile Island ISI Coordinator, Michael Grimm at 717-686-7134.

Sincerely,

E. W. Callan
Site Vice President, Three Mile Island Unit 1
Exelon Generation Co., LLC

Enclosures:
Attachment 1 – ISI Owner's Activity Report – T1R21 Outage

Cc: USNRC, Regional Administrator, Region I
USNRC, Senior Project Manager, NRR
USNRC, Senior Resident Inspector
Gary Gustofson, Hartford Steam Boiler I&I Co. of CT

AD47
NRR

T1R21 Refueling Outage
Inservice Inspection (ISI)
Owner's Activity Report

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Attachment 1

ISI Owner's Activity Report – T1R21 Outage

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: T1R21

Plant: Three Mile Island Nuclear Station, 2625 River Road, Middletown, PA 17057

Unit No: 1 Commercial service date: September 2, 1974 Refueling Outage No: T1R21
(if applicable)

Current Inspection Interval: ISI = 4th / CISI = 2nd
(1st, 2nd, 3rd, 4th, other)

Current inspection period: ISI = 2nd / CISI = 2nd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans: 2004 Edition with No Addenda

Date and revision of inspection plans: 8/29/2014 Rev. 3 and 10/27/2015 Rev. 3A

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

Code Cases used for inspection and evaluation: N-432-1, N-460, N-504-4, N-508-4, N-513-3, N-516-3, N-517-1, N-526, N-528-1, N-532-4, N-532-5, N-552, N-557-1, N-561-2, N-562-2, N-566-2, N-569-1, N-586-1, N-593, N-597-2, N-600, N-613-1, N-619, N-624, N-638-4, N-639, N-641, N-643-2, N-648-1, N-651, N-661-1, N-661-2, N-665, N-666, N-686-1, N-695, N-696, N-705, N-706-1, N-722-1, N-729-1, N-731, N-733, N-735, N-739, N-739-1, N-751, N-753, N-770-1, N-786, and N-789

(if applicable, including cases modified by N-532 and later revisions)

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 T1R21 conform to the requirements of Section XI.

(refueling outage number)

Signed Michael Grimm, ISI Program Owner Date 2/16/16
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 employed by The Hartford Steam Boiler Inspection and Insurance Company of 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 personnel injury or property damage or a loss of any kind arising from or connected with this inspection.

Gary Gustofson Commission 13855 ANIC PA 3036
Inspector's signature (National Board Number and Endorsement)

Date 2/16/16

Table 1**Items with Flaws or Relevant Conditions That Required Evaluation for Continued Service**

Examination Category and Item Number	Item Description	Evaluation Description
C-H, C7.10	Make-Up Pump Suction Pressure Test	Previously identified valve packing indications with existing BACC Evaluations.
C-H, C7.10	Decay Heat Removal System Pressure Test	Previously identified, new packing, new bonnet to bolting (dry), and one fitting outside of ISI boundary. All have received BACC Evaluation and are acceptable for service. No leakage is excess of TMI limits.
C-H, C7.10	Decay Heat System Pressure Test	Packing leak previously accepted with existing BACC evaluation. Leakage at BWST Main Flange, one bolt removed inspected and replaced (see table 2).
C-H, C7.10	Building Spray Train B System Pressure Test	Previously identified mechanical leaks addressed under the BACC program.
C-H, C7.10	Make-Up System Pressure Test	Previously identified packing leak evaluated as acceptable under the BACC program.
D-B, D2.10	EF-P-1 System Pressure Test	Leaking bonnet connections evaluated and accepted under the BACC Program
D-B, D2.10	Nuclear River System Pressure Test	Minor corrosion previously evaluated and accepted under the External Surfaces Monitoring Program
D-B, D2.10	Decay River B Train Piping	Applied Code Case N-513-3 for acceptance of thinned pipe wall until T1R21
F-A, F1.40	NR-P-1C Anchorage	Corrosion evaluated as acceptable per TMI procedures
F-A, F1.30C	IP-E-1 Support	Corrosion evaluated as acceptable per TMI procedures
B-N-2, B13.60	Reactor Vessel Interior Alignment Keys	Cracked seal welds evaluated as acceptable for continued service. Welds do not perform a support function and will not result in corrosion of the Reactor Vessel.

Table 2
Abstract of Repair/Replacement Activities Required for Continued Service

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
2	BWST Flanges	Replace gasket and bolting on flanges	11/22/15	C2033726
3	Nuclear River Backwash Piping	Code Case N-789 Patch Plate Repair	06/04/15	C2034615
3	Nuclear River Backwash Piping	Removed patch plate and replaced piping	11/19/15	C2034624
3	Decay River A Train Piping	Code Case N-789 Patch Plate Repair	06/19/15	C2034682
3	Decay River A Train Piping	Removed patch plate and replaced piping	11/18/15	C2034692
3	Decay River B Train Piping	Replaced piping	11/15/15	C2035194
1	RC-H-1B	Plugged and Stabilized tubes	11/24/15	R2235505
2	MS-V-8A	Install Furmanite Clamp to Valve Bonnet	04/16/14	M2351960
2	MS-V-8A	Removed Furmanite Clamp and repaired bonnet leakage	11/25/15	C2032189
2	BWST 24" Flange	Removed, inspected, and replaced one bolt	06/26/14	C2032417
1	Reactor Vessel Internals Vent Valve	Removed and replaced Vent Valve	11/22/15	C2034392
2	MU-V-1034 Socket Weld	Ground out weld flaw and re-welded	07/23/14	N/A, less than 1 inch (repaired under C2032503)
2	FW-V-12A	Repair Bonnet Stud Holes	11/24/15	R2207964