

Three Mile Island Unit 1  
Route 441 South, P.O. Box 480  
Middletown, PA 17057

Telephone 717-948-8000

ASME Code, Section XI  
10CFR50.55a

February 20, 2012

TMI-12-016

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

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

Subject: Three Mile Island Nuclear Station, Unit 1 T1R19 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, 1995 Edition with 1996 Addenda, ASME Section XI 2004 Edition with no Addenda, and ASME Code Case N-532-4 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 T1R19 Refueling Outage which started on October 24, 2011, and was the last outage of the third period of the 3rd ISI inspection interval and the first outage of the first period of the 4<sup>th</sup> ISI inspection interval.

If you should have any questions, please contact the Three Mile Island ISI Coordinator, Gene Navratil at 717-948-8716.

Sincerely,



R. W. Libra  
Site Vice President, Three Mile Island Unit 1  
Exelon Generation Co., LLC

Enclosures:

Attachment 1 – ISI Owner's Activity Report – T1R19 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

A047  
NRR

T1R19 Refueling Outage  
Inservice Inspection (ISI)  
Owner's Activity Report

Page 2

Attachment 1

**ISI Owner's Activity Report – T1R19 Outage**

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

Report Number 1R19

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

Unit No: 1 Commercial Service Date: September 2, 1974 Refueling Outage No: T1R19

Current Inspection Interval: ISI = 3<sup>rd</sup> & 4<sup>th</sup> / CISI = 1<sup>st</sup> & 2<sup>nd</sup>

Current Inspection Period: ISI = 3<sup>rd</sup> for 3<sup>rd</sup> Interval & 1<sup>st</sup> for 4<sup>th</sup> Interval / CISI = 3<sup>rd</sup> for 3<sup>rd</sup> Interval & 1<sup>st</sup> for 4<sup>th</sup> Interval

Edition and Addenda of Section XI Applicable to the inspection plans: 1995 Edition through 1996 Addenda for ISI 3<sup>rd</sup> Interval & CISI 1<sup>st</sup> Interval. 2004 Edition with no Addenda for the 4<sup>th</sup> ISI Interval & 2<sup>nd</sup> CISI Interval

Date and revision of inspection plan 11/4/10, Rev 9 for 3<sup>rd</sup> ISI & 1<sup>st</sup> CISI Interval & 3/11/11, Rev 0 for 4<sup>th</sup> ISI Interval and 2<sup>nd</sup> CISI Interval

Edition & Addenda of Section XI applicable to repairs and replacements, if different than the inspection plans: 1995 Edition with 1996 Addenda through April 19, 2011 & 2004 Edition with no Addenda for 4/20/11 & later.

Code Cases used: N-416-3, N-460, N-491-2, N498-4, N-504-2, N-517-1, N-522, N-523-2, N-526, N-528-1, N-532-4, N-533-1, N-537, N-545, N-546, N-566-2, N-583, N-600, N-613-1, N-624, N-638-1, N-639, N-643, N-643-2, N-652, N-665, N-685, N-695, N-696, N-686, N-686-1, N-700, N-706, N-706-1, N-722, N-729-1, N-731, N-735, N-739, N-751, N-753.

**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, T1R19 conform to the requirements of Section XI.

Signed: Gene Navratil Gene Navratil, ISI Program Owner Date 02/02/2012  
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 Pennsylvania and employed by 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 personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions: 13855 ANI PA 3036  
National Board, State, Province, and Endorsements

Date: 02/02/2012

TABLE 1

ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR  
CONTINUED SERVICE

| Examination Category | Examination Item Number  | Item Description   | Evaluation Description  |
|----------------------|--|--|---|
| F-A                  | F1.30  | Support COE0007  | Pipe in contact with box restraint evaluated as acceptable under IR 1255909.                                    |
| F-A                  | F1.20  | Snubber SPSE0010   | Loose pipe clamp bolt evaluated as acceptable under IR 1275230.   |
| F-A                  | F1.20  | Support MS0067   | Bolt thread engagement evaluated as acceptable under IR 1280879.  |
| F-A                  | F1.20  | Support EF0024   | Support travel setting evaluated as acceptable under IR 1282745.  |
| F-A                  | F1.20  | Support EF0025   | Support travel setting evaluated as acceptable under IR 1282745.  |
| F-A                  | F1.20  | Snubber MS0214   | Snubber piston setting evaluated as acceptable under IR 1285625.  |
| F-A                  | F1.10  | Support MU01455  | Bent hanger rod evaluated as acceptable under IR 1286004.   |
| F-A                  | F1.10  | Snubber MUE0043  | Snubber bolt thread engagement evaluated as acceptable under IR 1286507.  |
| F-A                  | F1.10  | Support RC0002   | Bent hanger rod evaluated as acceptable under IR 1289704.   |
| F-A                  | F1.10  | Snubber RC0005   | Snubber piston setting evaluated as acceptable under IR 1289611.  |
| C-H<br><br>D-B       | C7.10<br>C7.30<br>C7.50<br>C7.70<br>D2.10<br>D2.30<br>D2.50<br>D2.70 | System Leakage Test In Make-Up and Purification System (Work Order R2124159) | Boric acid deposits observed at mechanical joints and accepted under IR's 238636, 1100558, 946760, and 1139763. |
| B-P<br>C-H           | B15.10<br>C7.10  | System Leakage Test In Make-Up and Purification System (Work Order R2152126) | Boric acid deposits observed at mechanical joints and accepted under IR's 1280461 and 1280462.                  |
| C-H                  | C7.10  | System Leakage Test In Make-Up and Purification System (Work Order R2156159) | Boric acid deposits observed at mechanical joints and accepted under IR's 1033510 and 1292277.                  |
| C-H                  | C7.10<br>C7.30<br>C7.50<br>C7.70                                     | System Leakage Test in Decay Heat Removal System (R2134124)                  | Boric acid deposit observed at mechanical joint and accepted under IR 1126043.                                  |

TABLE 1 (Continued)

ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR  
CONTINUED SERVICE

| Examination Category | Examination Item Number                            | Item Description  | Evaluation Description  |
|----------------------|--|---|---|
| C-H                  | C7.10  | System Leakage Test in Core Flood System (R2138474)                           | Boric acid deposits observed at mechanical joints and accepted under IR's 1280456 and 1280480.  |
| B-P                  | B15.10   | System Leakage Test in Class 1 Components (R2156771)                          | Boric acid deposits observed at mechanical joints and accepted under IR's 1294265, 1294251, 1294252, 1294253, 1294254, 1294256, 1294264, 1294214, 1294266, 1294258, 1294259, 1294261, 1294262, and 1294211. |
| C-H<br>D-B           | C7.30<br>C7.70<br>D2.10<br>D2.30<br>D2.50<br>D2.70 | System Leakage Test in Nuclear Services Close Cooling Water System (R2086383) | Leakage observed at mechanical joints and accepted under IR's 987240, 314570, and 933616.   |

TABLE 2

ABSTRACT OF REPAIR / REPLACEMENT ACTIVITIES REQUIRED  
FOR CONTINUED SERVICE

| Code Class | Item Description               | Description of Work              | Date Completed | Repair / Replacement Plan Number |
|------------|--------------------------------|----------------------------------|----------------|----------------------------------|
| 3          | Strainer CA-S-8B               | Installed new cover bolting.     | 07/15/2010     | R2124407                         |
| 3          | Piping fabrication weld MU57b5 | Installed mechanical pipe clamp. | 12/14/2010     | C2024596                         |
| 3          | Piping fabrication weld MU57b5 | Replaced piping weld.            | 01/25/2012     | C2024595                         |
| 2          | Relief valve MS-V-21A          | Replaced relief valve.           | 01/26/2012     | C2026480                         |
| 1          | Snubber RC0102                 | Replaced snubber.                | 01/26/2012     | R2043988                         |
| 2          | Relief valve MS-V-18A          | Replaced relief valve.           | 01/26/2012     | R2002964                         |
| 1          | Steam Generator RC-H-1B        | Plugged and stabilized tubes.    | 02/01/2012     | R2117327                         |