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

10 CFR 50.55a

**SUSQUEHANNA STEAM ELECTRIC STATION
UNIT 1 20TH REFUELING OUTAGE OWNER'S
ACTIVITY REPORT
PLA-7724**

Docket No. 50-387

In accordance with the requirements of American Society of Mechanical Engineers (ASME) Code Case N-532-5, enclosed is the Owner's Activity Report (Form OAR-1), for the Unit 1 20th refueling outage. This report is for the first refueling outage of the second inspection period of the fourth inspection interval.

By copy of this letter, Susquehanna Nuclear, LLC is transmitting the Owner's Activity Report to the Commonwealth of Pennsylvania.

There are no new regulatory commitments associated with this submittal.

If you have any questions or require additional information, please contact Mr. Jason Jennings, Manager of Nuclear Regulatory Affairs, at (570) 542-3155.

Sincerely,

A handwritten signature in black ink, appearing to read "Brad Berryman", with a long horizontal line extending to the right.

Brad Berryman

Enclosure: Owner's Activity Report, Susquehanna Steam Electric Station, Unit 1, 20th Refueling Outage

Copy: NRC Region I
Ms. T. E. Hood, NRC Project Manager
Ms. L. H. Micewski, NRC Sr. Resident Inspector
Mr. M. Shields, PA DEP/BRP

Enclosure to PLA-7724

**Owner's Activity Report
Susquehanna Steam Electric Station,
Unit 1 20th Refueling Outage**

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-1-107

Plant Susquehanna Steam Electric Station, 769 Salem Blvd., Berwick, PA 18603

Unit No. 1 Commercial service date June 8, 1983 Refueling outage no. 20
(if applicable)

Current inspection interval 4th
(1st, 2nd, 3rd, 4th, other)

Current inspection period 2nd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 2007 Edition through 2008 Addenda

Date and revision of inspection plans Revision 3, 2/2/2018

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-513-3, N-532-5, N-613-2
(if applicable, including cases modified by Case 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 U120RIO conform to the requirements of Section XI.
(refueling outage number)

Signed [Signature] ISI Program Engineer Date 7/3/2018
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 OneCIS Insurance Co. of Lynn, MA 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] Commission NB 11215 N.I
Inspector's Signature (National Board Number and Endorsement)

Date July 16th 2018

**TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT
REQUIRED EVALUATION FOR CONTINUED SERVICE**

Examination Category and Item Number	Item Description	Evaluation Description
N/A (ASME Section III Class 3)	0T535D1 and 0T535D2 "D" Diesel Generator Starting Air Receiver Tanks	Internal corrosion identified during a License Renewal inspection resulted in a minimum wall violation. An evaluation performed in accordance with ASME Section III Appendix XXVII determined the tanks remain capable of performing their intended design function.

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

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
Class 1	24" 141F010B Feedwater Check Valve	Weld repair hinge pin seal area due to small pin stream leak	06/27/2016	16-145-1999987-067
Class 1	LPRM 24-09 Incore Monitor Housing	Weld overlay on the housing due to a through wall leak	06/27/2016	16-162-2001157-068