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July 15, 2021

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

10 CFR 50.55a

**SUSQUEHANNA STEAM ELECTRIC STATION
UNIT 2 20TH REFUELING OUTAGE
OWNER'S ACTIVITY REPORT
PLA-7959**

Docket No. 50-388

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 Susquehanna Steam Electric Station Unit (SSES) Unit 2 20th refueling outage (U220RIO). This report is for the second refueling outage of the second inspection period of the fourth inspection interval.

There are no new or revised regulatory commitments associated with this submittal.

If you have any questions or require additional information, please contact Ms. Melisa Krick, Manager of Nuclear Regulatory Affairs, at (570) 542-1818.

A handwritten signature in black ink, appearing to read "Kevin Cimorelli".

Kevin Cimorelli

Enclosure: Owner's Activity Report for SSES U220RIO

Copy: NRC Region I
Ms. A. Klett, NRC Project Manager
Mr. C. Highley, NRC Senior Resident Inspector
Mr. M. Shields, PA DEP/BRP

Enclosure to PLA-7959

Owner's Activity Report for SSES U220RIO

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-1-209

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

Unit No. 2 Commercial service date February 12, 1985 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 4, 2/14/2019

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 U220RIO conform to the requirements of Section XI.
(refueling outage number)

Signed [Signature] ISI Program Engineer Date 6/28/2021
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.E
Inspector's Signature (National Board Number and Endorsement)

Date June 28th 2021

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

Examination Category and Item Number	Item Description	Evaluation Description
None		

**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 3	HRC207-1 ESW Piping Through Wall Leak	Replace ESW piping HRC207-1	4/6/2021	20-254-2277478-015
Class 3	2" ESW Throttle Valve 211111 Through Wall Leak	Replace ESW throttle valve	7/23/2020	20-254-2356331-0-020
Class 3	2" ESW SPHRC222-2 FE21158A Flange Through Wall Weld Leak	Repair weld downstream of ESW flange	8/26/2020	20-254-2357091-0-021