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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 2 21ST REFUELING OUTAGE
OWNER'S ACTIVITY REPORT
PLA-8076**

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 (SSES) Unit 2 21st refueling and inspection outage (U221RIO). This report is for the first refueling outage of the third 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 "E. Casulli".

E. Casulli

Enclosure: Owner's Activity Report for SSES U221RIO

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

Electronic Copy:

M. Krick

D. Jones

T. J. Kupetz

J. Lubinsky

T. Williams

A. Sabisch

A. Siple (NSRB)

J. Yenchak (DBD)

DCS

Enclosure to PLA-8076

Owner's Activity Report for SSES U221RIO

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-1-210

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

Unit No. 2 Commercial service date February 12, 1985 Refueling outage no. 21
(if applicable)

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

Current inspection period 3rd
(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 6 7/14/2022

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-513-4, N-532-5, N-613-2, N-652-2, N-716-1, N-798, N-825, N-831-1, N-858
(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 U221RIO conform to the requirements of Section XI.
(refueling outage number)

Signed *T.J. Kaper*, ISI Program Engineer Date 10/15/23
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 Bureau Veritas Inspection and 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.

Charles G. Ward Commission NB 9241 I, NSI
Inspector's Signature (National Board Number and Endorsement)

Date 6/20/2023

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

Examination Category and Item Number	Item Description	Evaluation Description
E-C E4.11	Wetted Containment Surfaces Located in the Suppression Pool Requiring Augmented Examination	Seven pitted locations exceeded the acceptance criteria identified in IWE-3520. An analysis proved that the reduced thickness areas still satisfy the requirements of the Design Specification, thus the components are acceptable by engineering evaluation.

**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	Valve 244F103 port plug installation and seal weld	Install plug and seal weld leak-off port plug on valve 244F103	10/4/2022	22-261-2563040-28-044
Class 1	Valve 244F103 port plug seal weld repair	Repair leak-off port plug seal weld on valve 244F103	1/18/2023	23-261-2607119-3-001
Class 1	Valve 244F103 bonnet replacement	Install new bonnet on valve 244F103	4/16/2023	23-261-2620004-7-034