



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

August 17, 2023
NOC-AE-23003983
10 CFR 50.55a
STI: 35503591

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

South Texas Project
Unit 1
Docket No. STN 50-498
Inservice Inspection Summary Report – 1RE24

Attached is the South Texas Project Electric Generating Station Unit 1 summary report for inservice inspections performed prior to and during scheduled refueling outage 1RE24 completed in April 2023. This summary report satisfies the reporting requirements of American Society of Mechanical Engineers ASME Code Section XI, Article IWA-6230.

There are no commitments in this letter.

If there are any questions regarding this report, please contact Stephanie Rodgers at 361-972-4527 or me at 361-972-7142.

A handwritten signature in black ink, appearing to read "Kevin Taylor, Jr.", is located above the typed name and title.

Kevin Taylor, Jr.
Manager, Strategic Engineering

Enclosure: Summary Report for the 1RE24 Inservice Inspection of Unit 1 South Texas Project Electric Generating Station

cc:

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
1600 E. Lamar Boulevard
Arlington, TX 76011-4511

Chief Inspector
Texas Department of Licensing and Regulation
Boiler Program
P.O. Box 12157
Austin, TX 78711

**SUMMARY REPORT
for the
1RE24
INSERVICE INSPECTION
of
UNIT 1
SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION**



STP NUCLEAR OPERATING COMPANY
Spring 2023

COVER SHEET

1RE24 INSERVICE INSPECTION SUMMARY REPORT

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

P.O. BOX 289

WADSWORTH, TEXAS 77483

USNRC DOCKET NO: 50-498

OPERATING LICENSE NO: NPF-76

COMMERCIAL OPERATION DATE: AUGUST 25, 1988

Prepared by:  Date 16 Aug 2023
Daniel Moon, ISI Program Owner

Reviewed by:  Date 08/16/23
Kellie Harris, Supervisor, Testing / Programs

SCOPE

COMPONENT SUPPORTS, WELDS, THERMAL FATIGUE, REPAIR/REPLACEMENT, AND SYSTEM PRESSURE TESTING INSPECTION PROGRAMS (IWB, IWC, IWD, IWE, IWF)

The examinations summarized in this report were performed in accordance with the 2013 Edition of the ASME Code, Section XI that is applicable to the South Texas Project, Unit 1 fourth ten-year interval (09/25/2020-09/08/2029), first period (09/25/2020-09/24/2023). This report covers selected ASME Code Class 1, 2, and 3 Systems/Components. This report is documented in accordance with the requirements of ASME Section XI Code Case N-532-5.

Examinations and tests required by the Code are scheduled in accordance with "Inspection Program B" as defined in IWB-2412 for ASME Code Class 1 Systems/Components, IWC-2412 for ASME Code Class 2 Systems/Components, IWD-2412 for ASME Code Class 3 Systems/Components, and IWF-2410 component supports.

ASME Code Class 1 components were examined as prescribed by Table IWB-2500-1 and the applicable Examination Categories, which established the examination frequency at each refueling outage. The ASME Code Class 2 Systems/Components were examined in accordance with Table IWC-2500-1, Examination Categories. The ASME Code Class 3 Systems/Components were examined in accordance with Table IWD-2500-1, Examination Categories. Component Supports were examined in accordance with IWF- Table 2500-1, Examination Categories.

FORM OAR-1 OWNER'S ACTIVITY REPORT (Code Case N-532-5)

Report Number OAR-IRE24
Plant South Texas Project Electric Generating Station
Unit No. 1 (if applicable) Commercial service date August 25, 1988 Refueling outage no. IRE24
Applicable inspection interval IWB, IWC, IWD, IWF - 4th ; IWE - 4th (1st, 2nd, 3rd, 4th, other)
Applicable inspection period IWB, IWC, IWD, IWF - 1st (1st, 2nd, 3rd)
Edition and Addenda of Section XI applicable to the inspection plans 2013 Edition
Date and revision of inspection plans September 25, 2022 / Revision 11
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-532-5, N-593-2, N-716-1, N-729-6, N-770-5, N-722-1 (if applicable)

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 IRE24 (refueling outage number) conform to the requirements of the ASME Code, Section XI.

Signed

(Owner or Owner's Designee, Title)

ISI Program Engineer Date August 16, 2023

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 Insurance and Inspection Company of Lynn, Massachusetts 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 the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluations 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 loss of any kind arising from or connected with this inspection.

Robert Winegardner
(Inspector's Signature)

Commission

12442 N1

(National Board Number and Endorsement)

Date 09/06/2023

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

1RE24
Spring 2023

ASME Category	Item Number	Item Description	Evaluation Description
F-A	E1.40	PRESSURIZER BASE SUPPORT	During Inservice visual Inspection Spalling was identified on the pressurizer skirt base. CR# 23-3295

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

Class	CORRECTIVE MEASURE	ITEM DESCRIPTION	System	DESCRIPTION OF WORK	Date Completed	REPAIR/REPLACEMENT PLAN
3	REPLACEMENT	VALVE	ESSENTIAL COOLING WATER	REPLACED VALVE.	7/12/2023	1-15-060
1	REPLACEMENT	PUMP	REACTOR COOLANT	REPLACED BOLTS AND FLAT WASHERS.	8/8/2023	1-19-048
1	REPLACEMENT	VALVE	REACTOR COOLANT	REPLACED PLUG AND SEAT.	6/7/2023	1-20-018
3	REPLACEMENT	VALVE	ESSENTIAL COOLING WATER	REPLACED VALVE.	5/4/2023	1-20-023
3	REPLACEMENT	PIPE	ESSENTIAL COOLING WATER	REPLACED PIPE.	7/12/2023	1-20-027
3	REPLACEMENT	FLANGE	ESSENTIAL COOLING WATER	REPLACED FLANGE.	5/4/2023	1-21-002
3	REPLACEMENT	FLANGE	ESSENTIAL COOLING WATER	REPLACED FLANGE.	5/4/2023	1-21-003
3	REPLACEMENT	THERMOWELL	ESSENTIAL COOLING WATER	REPLACED THERMOWELL AND SOL.	5/4/2023	1-21-010
3	REPLACEMENT	PIPE AND FLANGE	ESSENTIAL COOLING WATER	REPLACED PIPE AND FLANGE.	5/4/2023	1-21-011
3	REPLACEMENT	FLANGE	ESSENTIAL COOLING WATER	REPLACED FLANGE.	7/12/2023	1-21-015
3	REPLACEMENT	FLANGE	ESSENTIAL COOLING WATER	REPLACED FLANGE.	7/12/2023	1-21-016
3	REPLACEMENT	VALVE	ESSENTIAL COOLING WATER	REPLACED VALVE.	5/4/2023	1-21-042
2	REPAIR	VALVE	FEEDWATER	INSTALL PATCH MATERIAL ON VALVE.	8/8/2023	1-22-003
3	REPLACEMENT	VALVE	ESSENTIAL COOLING WATER	REPLACED PLATE.	3/20/2023	1-22-005
3	REPLACEMENT	COOLER	STANDBY DIESEL GENERATOR	REPLACED END COVERS AND CHANNEL HEAD.	3/20/2023	1-22-008
3	REPLACEMENT	COOLER	STANDBY DIESEL GENERATOR	REPLACED END COVERS AND CHANNEL HEADS.	3/20/2023	1-22-011
3	REPLACEMENT	EXPANSION JOINT	ESSENTIAL COOLING WATER	REPLACED EXPANSION JOINT.	7/12/2023	1-22-012
3	REPLACEMENT	PIPE	STANDBY DIESEL GENERATOR	REPLACED PIPE, FLANGES, AND BOLTING.	8/8/2023	1-22-013
1	REPLACEMENT	VALVE	REACTOR COOLANT	REPLACED PLUG, CAGE, AND SEAT.	7/12/2023	1-22-014

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REQUIRED FOR CONTINUED SERVICE

Class	CORRECTIVE MEASURE	ITEM DESCRIPTION	System	DESCRIPTION OF WORK	Date Completed	REPAIR/REPLACEMENT PLAN
3	REPLACEMENT	PIPE	ESSENTIAL COOLING WATER	REPLACED PIPE, FLANGES, AND U-STRAPS.	8/8/2023	1-22-015
3	REPLACEMENT	PIPE	ESSENTIAL COOLING WATER	REPLACED PIPE.	8/8/2023	1-22-018
3	REPAIR	WELDOLET	ESSENTIAL COOLING WATER	PERFORMED WELD BUILDUP.	8/8/2023	1-22-019
3	REPAIR	WELDOLET	ESSENTIAL COOLING WATER	PERFORMED WELD BUILDUP.	8/8/2023	1-22-020
3	REPLACEMENT	VALVE	ESSENTIAL COOLING WATER	REPLACED VALVE.	8/9/2023	1-22-021
3	REPLACEMENT	EXPANSION JOINT	ESSENTIAL COOLING WATER	REPLACED FASTENERS.	7/12/2023	1-22-022
1	REPAIR	VALVE	REACTOR COOLANT	REMOVE VALVE.	5/3/2023	1-22-023
1	REPLACEMENT	VALVE	REACTOR COOLANT	INSTALL VALVE.	5/3/2023	1-22-025
2	REPLACEMENT	VALVE	CHEMICAL VOLUME CONTROL	REPLACED VALVE.	5/9/2023	1-22-026
2	REPLACEMENT	VALVE	RESIDUAL HEAT REMOVAL	REPLACED VALVE.	7/12/2023	1-22-028
2	REPLACEMENT	VALVE	MAIN STEAM	REPLACED VALVE BONNET.	5/3/2023	1-22-029
1	REPLACEMENT	PUMP	REACTOR COOLANT	REPLACED CARTRIDGE SEAL HOUSING	8/8/2023	1-22-032
1	REPLACEMENT	VALVE	SAFETY INJECTION	REPLACED VALVE.	6/8/2023	1-22-043
1	REPLACEMENT	PIPE	CHEMICAL VOLUME CONTROL	REPLACED PIPE.	6/8/2023	1-22-044
3	REPLACEMENT	HEAT EXCHANGER	SPENT FUEL POOL COOLING	REPLACED PLUG.	4/12/2023	1-22-045
3	REPLACEMENT	VALVE	ESSENTIAL COOLING WATER	REPLACED VALVE.	8/9/2023	1-22-047
3	REPLACEMENT	VALVE	ESSENTIAL COOLING WATER	REPLACED VALVE.	3/25/2023	1-23-002
2	REPAIR	VALVE	REACTOR COOLANT	FABRICATE SEAL CAP.	7/12/2023	1-23-008
3	REPLACEMENT	VALVE	COMPONENT COOLING	REPLACED VALVE.	5/4/2023	1-23-010
2	REPLACEMENT	VALVE	CHEMICAL VOLUME CONTROL	REPLACED PLUG.	5/9/2023	1-23-011
3	REPLACEMENT	THERMOWELL	ESSENTIAL COOLING WATER	REPLACED THERMOWELL AND SOL.	5/3/2023	1-23-012

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 REQUIRED FOR CONTINUED SERVICE

Class	CORRECTIVE MEASURE	ITEM DESCRIPTION	System	DESCRIPTION OF WORK	Date Completed	REPAIR/REPLACEMENT PLAN
2	REPLACEMENT	SNUBBER	FEEDWATER	REPLACED SNUBBER.	4/12/2023	1-23-016
1	REPLACEMENT	PIPE	REACTOR COOLANT	REPLACED PIPE.	6/8/2023	1-23-017
2	REPLACEMENT	SNUBBER	STEAM GENERATOR	REPLACED SNUBBER.	4/12/2023	1-23-020