

UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555-0001

January 4, 2022

MEMORANDUM TO:	Gregory Bowman, Director Vogtle Project Office Office of Nuclear Reactor Regulation
FROM:	Victor Hall, Chief / RA / Vogtle Project Office Office of Nuclear Reactor Regulation
SUBJECT:	CONSTRUCTION REACTOR OVERSIGHT PROCESS PERFORMANCE METRIC REPORT FOR CALENDAR

YEAR 2021

The Construction Reactor Oversight Process (cROP) self-assessment program evaluates the effectiveness of the cROP through its success in meeting pre-established goals and intended outcomes. The staff performed the Calendar Year (CY) 2021 performance metric analysis in accordance with Inspection Manual Chapter (IMC) 2522, "Construction Reactor Oversight Process Self-Assessment Program," dated July 28, 2014, and IMC 2522 Appendix A, "Reactor Oversight Process Self-Assessment Metrics," dated October 4, 2017.

IMC 2522 and its appendix describe performance metrics associated with each of four cROP program areas: the inspection program (IP), significance determination process (SDP), assessment (AS) program, and inspections, tests, analyses, and acceptance criteria (ITAAC) program (ITA). The staff designates the program-specific metrics as the IP, SDP, AS, and ITA metrics, respectively. The staff also monitors and analyzes a metric of a more general nature, which is designated as the O metric, to assess the overall performance of the cROP.

Enclosure 1 provides a summary of the performance metric analysis results and Enclosure 2 provides the detailed report. The staff found that the cROP successfully met all but one applicable performance metrics by meeting the acceptance criteria defined in IMC 2522 Appendix A. The metric found not met involved rescinding previously accepted ITAAC closure notifications on the same ITAAC for both Vogtle Electric Generating Plant (Vogtle) Units 3 and 4. Three metrics were deemed not applicable for the CY 2021 self-assessment.

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These metrics were related to significant events and timeliness of supplemental inspections. There were no significant events in CY 2021, and there were no supplemental inspections.

Enclosures:

- 1. Self-Assessment Metric Overview
- 2. Self-Assessment Metric Report

SUBJECT: CONSTRUCTION REACTOR OVERSIGHT PROCESS PERFORMANCE METRIC REPORT FOR CALENDAR YEAR 2021 DATED: JANUARY 4, 2022

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NRR-106

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Calendar Year 2021 cROP Self-Assessment Metric Report (Enclosures 1 and 2)

cROP SELF-ASSESSMENT METRIC OVERVIEW

INSPECTION PROGRAM (IP) METRICS

IP1: Inspection Reports are issued within Timeliness Requirements	IP2: NRC's Response to Technical Assistance Requests (TAR) Is Timely	
Met	Met	

SIGNIFICANCE DETERMINATION PROCESS (SDP) METRICS

SDP1: SDP Results Are Predictable and Repeatable	SDP2: Appeals of SDP Results
Met	N/A

ASSESSMENT (AS) PROGRAM METRICS

Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) METRIC

ITA1: Analysis of ITAAC Reopened After Closure Verification
Not Met

OVERALL Construction Reactor Oversight Process (cROP) METRIC (O)

C	D: Analysis of NRC's	Responses to	o Signi [,]	ficant Event	s	
		N/A				

<u>cROP SELF-ASSESSMENT METRIC REPORT</u>

	INSPECTION MANUAL CHAPTER 2522 APPENDIX A CONSTRUCTION REACTOR OVERSIGHT PROCESS SELF-ASSESSMENT METRICS
2522A-01	INSPECTION PROGRAM (IP) METRICS
IP-1	Inspection Reports are issued within Timeliness Requirements
<u>Met:</u>	Yes
Definition:	Audit 100% of reactor construction inspection reports issued during the calendar year in relation to the inspection report timeliness requirements in Inspection Manual Chapter (IMC) 0613, "Power Reactor Construction Inspection Reports."
Acceptance Criteria:	At least 90% of reactor construction inspection reports issued during the calendar year meet the inspection report timeliness requirements in IMC 0613.
Lead:	Office of Nuclear Reactor Regulation (NRR)/Vogtle Project Office (VPO)
Goals Supported:	Objective, Risk-Informed, Predictable, Effective, Open
<u>Note:</u>	For inspections not conducted by a resident inspector, inspection completion is normally defined as the day of the final exit meeting. For resident inspector and integrated inspection reports, inspection completion is normally defined as the last day covered by the inspection report. For stand-alone team inspection reports, the report is issued no later than 45 calendar days after inspection exit.
<u>Analysis:</u>	All reactor construction inspection reports issued during Calendar Year (CY) 2021 met the timeliness requirements in IMC 0613.

IP-2	NRC's Response to Technical Assistance Requests (TAR) Is Timely	
<u>Met:</u>	Yes	
<u>Definition:</u>	Audit 100% of TARs completed in the calendar year in relation to the TAR timeliness requirements in NRR-COM-106, Revision 6, "Technical Assistance Request (TAR) Process."	
Acceptance Criteria:	Construction TARs are expected to be completed in as timely a manner as possible in keeping with construction schedules and associated inspection and oversight. The nominal expectation for completion of construction TARs is 30 days.	
<u>Lead</u> :	NRR/VPO	
Goals Supported:	Objective, Risk-Informed, Understandable, Open, Effective	
<u>Analysis</u> :	All TARs closed in CY 2021 were closed in accordance with the timeliness requirements specified in NRR-COM-106.	

- 2522A-02 SIGNIFICANCE DETERMINATION PROCESS (SDP) METRICS
- SDP-1 SDP Results Are Predictable and Repeatable

Met: Yes

- <u>Definition:</u> Audit 100% of construction inspection program inspection findings issued during the calendar year against the significance determination process in IMC 2519, "Construction Significance Determination Process," and its appendices.
- <u>Acceptance Criteria:</u> If greater than 10 findings were issued during the calendar year, then at least 90% of them contain adequate detail to enable an independent auditor to trace through the significance determination process in IMC 2519 and its appendices and reach the same significance color characterization.

If 10 or fewer findings were issued during the calendar year, then no more than 1 of them did not contain adequate detail to enable an independent auditor to trace through the significance determination process in IMC 2519 and its appendices and reach the same significance color characterization.

Lead: NRR/VPO

- <u>Goals Supported</u>: Risk-Informed, Predictable
- <u>Note:</u> The number of inspection findings in a calendar year are those that are issued during that calendar year, independent of the inspection report number.
- <u>Analysis:</u> There were 21 findings (19 GREEN and 2 WHITE) documented in 2021 and reviewed through independent audit. All findings contained the necessary detail to enable the independent auditor, using IMC 2519 "Construction Significance Determination Process," to obtain the same finding color characterization.

SDP-2	Appeals of SDP Results
<u>Met:</u>	N/A
Definition:	Track the total number of appeals of final SDP results during the calendar year.
Acceptance Criteria:	Zero appeals of SDP significance that result in a final determination being overturned during the calendar year.
Lead:	Regions, NRR/VPO
Goals Supported:	Risk-Informed, Objective, Predictable, Understandable, Open
Assessment:	There were no appeals of final SDP results during CY 2021.

2522A-03	ASSESSMENT (AS) PROGRAM METRICS	
AS-1	Deviations from the Construction Action Matrix	
<u>Met:</u>	Yes	
Definition:	Audit all assessment-related letters during the calendar year and count the number of deviations from the Construction Action Matrix.	
Acceptance Criteria:	Zero deviations from the Construction Action Matrix during the calendar year.	
Lead:	NRR/VPO	
Goals Supported:	Objective, Risk-Informed, Open	
Assessment:	There were no deviations from the Construction Action Matrix during CY 2021.	

AS-2	Assessment Program Results (Assessment Reviews, Assessment Letters and Public Meetings) Are Completed in a Timely Manner	
<u>Met</u>	Yes	
<u>Definition:</u>	Audit 100% of Assessment Reviews, Assessment Letters and Public Meetings issued/conducted during the calendar year in relation to the timeliness requirements in IMC 2505, "Periodic Assessment of Construction Inspection Program Results."	
Acceptance Criteria:	At least 90% of the timeliness goals for the assessment process are met during the calendar year.	
<u>Lead:</u>	Region, NRR/VPO	
Goals Supported:	Effective, Open, Predictable	
<u>Assessment</u> :	All Assessment Reviews, Assessment Letters and Public Meetings issued/conducted during CY 2021 met the timeliness requirements in IMC 2505, "Periodic Assessment of Construction Inspection Program Results."	

AS-3	Timeliness of Supplemental Inspections
<u>Met:</u>	N/A
<u>Definition:</u>	Count the number of instances during the calendar year where a finding was held open for more than 6 months due to the need to complete the supplemental inspection.
Acceptance Criteria:	No instances during the calendar year when a supplemental inspection has not been completed within 6 months for which the licensee had indicated they were prepared for the inspection.
Lead:	Region, NRR/VPO
Goals Supported:	Effective, Predictable
	Assessment: There were no supplemental inspections required during CY 2021. A Special Inspection was conducted at Vogtle in June 2021 to assess electrical cable separation and related cable installation deficiencies. As a result of this inspection, two WHITE findings were identified and subsequently issued in November 2021. A Supplemental Inspection is planned in early CY 2022 to close out these inspection findings. The planned Supplemental Inspection is within the 6-month calendar window for this metric.

AS-4	Degradations in Quality of Construction are Gradual and Allow Adequate Agency Engagement of the Licensee
<u>Met:</u>	Yes
<u>Definition:</u>	Track the number of instances during the calendar year in which a construction site moves more than one column to the right in the Construction Action Matrix.
Acceptance Criteria:	No instances during the calendar year in which performance issues cause a construction site to move more than one column to the right in the Construction Action Matrix.
<u>Lead:</u>	NRR/VPO
Goals Supported:	Risk-Informed, Predictable
<u>Assessment:</u>	There were no instances during CY 2021 in which a construction site moved more than one column to the right in the Construction Action Matrix.

2522A-04	ITAAC METRICS
ITA-1	Analysis of ITAAC Reopened After Closure Verification
<u>Met:</u>	No
Definition:	Audit 100% of ITAAC that are reopened after closure verification during the calendar year.
Acceptance Criteria:	No ITAAC have been verified as having been met that are reopened during the calendar year because of a deficiency in the process that was within the NRC's ability to identify before closure verification.
Lead:	NRR/VPO
Goals Supported:	Effective, Risk-Informed
<u>Assessment:</u>	The ITAAC Closure Notifications (ICNs) for ITAAC Index No. 570 for Vogtle Units 3 and 4, submitted on May 20, 2020 (Agencywide Documents Access and Management (ADAMS) ML20141L588) and July 31, 2020 (ADAMS Accession No. ML20216A594) respectively, were reopened as a result of a deficiency found during CY 2021. The original ICNs mischaracterized an inspection of the as-built thermocouple sheaths. Following License Amendments 188 and 186 (ADAMS Accession No. ML21237A205) to make required changes to the ITAAC language, both have been subsequently resubmitted October 20, 2021 (ADAMS Accession No. ML212934A231) and October 27, 2021 (ADAMS Accession No. ML21300A358) and accepted for Units 3 and 4.

2522A-05	OVERALL CROP METRICS
O-1	Analysis of NRC's Responses to Significant Events
<u>Met:</u>	N/A
<u>Definition:</u>	Review 100% of incident investigation teams (IITs) and augmented inspection teams (AITs) reports that are issued during the calendar year to determine if major programmatic voids were identified during the cROP review portion of IITs and AITs.
Acceptance Criteria:	No major programmatic voids are identified during the cROP review portion of IITs and AITs.
Lead:	NRR/VPO
Goals Supported:	Effective, Predictable
Assessment:	There were no IITs or AITs performed or issued during CY 2021.