

February 15, 2018

MEMORANDUM TO: Timothy J. McGinty, Director
Division of Construction Inspection
and Operational Programs
Office of New Reactors

FROM: Carl Weber, Reactor Operations Engineer */RA/*
Construction Inspection Program Branch
Division of Construction Inspection
and Operational Programs
Office of New Reactors

SUBJECT: CONSTRUCTION REACTOR OVERSIGHT PROCESS
PERFORMANCE METRIC REPORT FOR CALENDAR YEAR 2017

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 evaluates performance metrics to determine the success of the cROP in meeting these goals and outcomes. The staff performed the Calendar Year (CY) 2017 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 associated appendix describe performance metrics associated with each of four cROP program areas: the inspection program (IP), significance determination process (SDP), assessment (AS) program, and inspection, test, analysis, and acceptance criteria 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. The staff uses the metric analyses as an input to the annual Commission paper on cROP self-assessment.

The results of the staff's CY 2017 analysis are enclosed. The staff found that the cROP met 8 out of 8 applicable performance metrics by meeting the criteria defined in IMC 2522 Appendix A. The results of the staff's CY 2017 analyses are enclosed. Enclosure 1 provides a summary of the metric results and enclosure 2 provides the detailed report. Two metrics were deemed not applicable for the CY 2017 self-assessment. These metrics were related to significant events and timeliness of supplemental inspections. There were no significant events in CY 2017, and there were no supplemental inspections.

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Enclosures:

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

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SUBJECT: CONSTRUCTION REACTOR OVERSIGHT PROCESS PERFORMANCE
METRIC REPORT FOR CALENDAR YEAR 2017

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OFFICE	NRO/DCIP/CIPB	NRO/DCIP/CIPB
NAME	CWeber	VHall
DATE	2/15/2018	2/15/2018

OFFICIAL RECORD COPY

Calendar Year 2017

cROP Self-Assessment Metric Report

(Enclosures 1 and 2)

SELF-ASSESSMENT METRIC OVERVIEW

INSPECTION PROGRAM 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 METRICS

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

ASSESSMENT PROGRAM METRICS

AS1: Deviations from the Construction Action Matrix	AS2: Assessment Program Results Are Completed in a Timely Manner	AS3: Timeliness of Supplemental Inspections	AS4: Degradations in Quality of Construction are Gradual and Allow Adequate Agency Engagement of the Licensee
Met	Met	N/A	Met

ITAAC METRIC

ITA1: Analysis of ITAAC Reopened After Closure Verification
Met

OVERALL cROP METRIC

O: Analysis of NRC's Responses to Significant Events
N/A

SELF-ASSESSMENT METRIC REPORT

INSPECTION MANUAL CHAPTER 2522 APPENDIX A CONSTRUCTION REACTOR OVERSIGHT PROCESS SELF-ASSESSMENT METRICS

2522A-01 INSPECTION PROGRAM METRICS

IP-1 Inspection Reports are issued within Timeliness Requirements

Met: Yes

Definition: Audit 100% of reactor construction inspection reports issued during the calendar year in relation to the inspection report timeliness requirements in IMC 0613, "Power Reactor Construction Inspection Reports."

Criteria: The acceptance criteria is that at least 90% of reactor construction inspection reports issued during the calendar year meet the inspection report timeliness requirements in IMC 0613.

Lead: NRO/DCIP (CIPB)

Goals Supported: Objective, Risk-Informed, Predictable, Effective, Open

NOTE: 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.

Analysis: All reactor construction inspection reports issued during CY 2017 met the timeliness requirements in IMC 0613.

IP-2 NRC's Response to Technical Assistance Requests (TAR) Is Timely

Met: Yes

Definition: Audit 100% of TARs completed in the calendar year in relation to the TAR timeliness requirements in NRO Office Instruction NRO-COM-108, "NRO Construction Inspection Interfaces with Region II."

Criteria: The acceptance criteria is that at least 90% of TARs are closed during the calendar year within TAR timeliness goals outlined in NRO-COM-108.

Lead: NRO/DCIP (CIPB)

Goals Supported: Objective, Risk-Informed, Understandable, Open, Effective

Analysis: All TARs closed in 2017 were closed in accordance with the timeliness requirements specified in NRO-COM-108.

2522A-02 SIGNIFICANCE DETERMINATION PROCESS METRICS

SDP-1 SDP Results Are Predictable and Repeatable

Met: Yes

Definition: 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.

Criteria 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: NRO/DCIP (CIPB)

Goals Supported: Risk-Informed, Predictable

Analysis: All findings issued in 2017 were reviewed by an independent auditor from Headquarters, and all of the findings contained adequate detail to enable the independent auditor to trace through the significance determination process in IMC 2519 and its appendices and reach the same significance color characterization.

SDP-2 Appeals of SDP Results

Met: Yes

Definition: Track the total number of appeals of final SDP results during the calendar year.

Criteria: The acceptance criteria is that there are zero appeals of SDP significance that result in a final determination being overturned during the calendar year.

Lead: Regions, NRO/DCIP (CIPB)

Goals Supported: Risk-Informed, Objective, Predictable, Understandable, Open

Assessment: There were no appeals of final SDP results during CY 2017.

2522A-03 ASSESSMENT PROGRAM METRICS

AS-1 Deviations from the Construction Action Matrix

Met: Yes

Definition: Audit all assessment-related letters during the calendar year and count the number of deviations from the Construction Action Matrix.

Criteria: The acceptance criteria is that there are zero deviations from the Construction Action Matrix during the calendar year.

Lead: NRO/DCIP (CIPB)

Goals Supported: Objective, Risk-Informed, Open

Assessment: There were no deviations from the Construction Action Matrix during CY 2017.

AS-2 Assessment Program Results (Assessment Reviews, Assessment Letters and Public Meetings) Are Completed in a Timely Manner

Met Yes

Definition: 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."

Criteria: The acceptance criteria is that at least 90% of the timeliness goals for the assessment process are met during the calendar year.

Lead: Region, NRO/DCIP (CIPB)

Goals Supported: Effective, Open, Predictable

Assessment: All Assessment Reviews, Assessment Letters and Public Meetings issued/conducted during CY 2017 met the timeliness requirements in IMC 2505, "Periodic Assessment of Construction Inspection Program Results."

AS-3 Timeliness of Supplemental Inspections

Met: N/A

Definition: Count the number of instances during the calendar year where a finding was held open for more than six months due to the need to complete the supplemental inspection.

Criteria: The acceptance criteria is that there are no instances during the calendar year when a supplemental inspection has not been completed within six months for which the licensee had indicated they were prepared for the inspection.

Lead: Region, NRO/DCIP (CIPB)

Goals Supported: Effective, Predictable

Assessment: There were no supplemental inspections required during CY 2017.

AS-4 Degradations in Quality of Construction are Gradual and Allow Adequate Agency Engagement of the Licensee

Met: Yes

Definition: 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.

Criteria: The acceptance criteria is that there are 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.

Lead: NRO/DCIP (CIPB)

Goals Supported: Risk-Informed, Predictable

Assessment: There were no instances during FY 2017 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

Met: Yes

Definition: Audit 100% of ITAAC that are reopened after closure verification during the calendar year.

Criteria: The acceptance criteria is that there are no ITAAC that 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: NRO/DCIP (CIPB, HOIB)

Goals Supported: Effective, Risk-Informed

Assessment: There were no ITAAC that were reopened after closure verification during CY 2017.

2522A-05 OVERALL cROP METRICS

O-1 Analysis of NRC's Responses to Significant Events

Met: N/A

Definition: Review 100% of incident investigation teams (IITs) and augmented inspection teams (AITs) inspection 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.

Criteria: The acceptance criteria is that there are no major programmatic voids identified during the cROP review portion of IITs and AITs.

Lead: NRO/DCIP (CIPB)

Goals Supported: Effective, Predictable

Assessment: There were no IITs or AITs performed or issued during CY 2017.