



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

June 26, 2017

MEMORANDUM TO: William B. Jones, Director
Division of Construction Oversight

FROM: Laura A. Dudes, Deputy Regional Administrator for Construction
Office of the Regional Administrator **/RA/**

SUBJECT: WATTS BAR UNIT 2 CONSTRUCTION INSPECTION AND
OVERSIGHT LESSONS-LEARNED

This memorandum transmits the enclosed Watts Bar Unit 2 Construction Inspection and Oversight Lessons-Learned Working Group Charter. The Working Group (WG) is comprised of inter-office staff that have broad knowledge of the construction inspection and assessment programs as implemented under 10 CFR Part 50 and Part 52. The purpose of the Working Group is to assess the U.S. Nuclear Regulatory Commission's (NRC's) construction oversight and inspection activities at Watts Bar 2 and identify lessons learned from that project that can be used to further enhance our construction oversight and inspection activities going forward for both 10 CFR Part 50 and 10 CFR Part 52 facilities.

As the lead for the assessment, you should ensure the WG focuses on the different aspects of the construction inspection programs, included in the Construction Reactor Oversight Process (cROP) through the transition to the Reactor Oversight Process (ROP). This will include development and implementation of the IMC 2517, "Watts Bar Unit 2 Construction Inspection Program," and the transition to IMC 2515, "Light Water Inspection Program-Operations Phase".

The lessons-learned should include, for example those attributes that made the development of the Inspection, Planning and Scheduling (IPS) for Watts Bar Unit 2 under IMC 2517 effective and areas to focus on to improve any future implementation. Addressing the different areas in the March 9, 2017, staff's Watts Bar Lessons Learned Memorandum (ML17067A458), in this context should provide guidance for any future 10 CFR Part 50 new or reactivation activities. You are also to consider the ongoing 10 CFR Part 52 oversight and inspection activities and provide a comparison to the lessons-learned from Watts Bar Unit 2 as a separate attachment for follow up by the Region II Division of Construction Oversight and other divisions within the NRC as applicable.

In addition to the members in your group, Headquarters or Regional support will be provided to you, as requested. The WG should provide a written report to the Region II, Regional Administrator, by August 25, 2017, which at a minimum documents the areas for improvement, their bases, and any WG recommendations.

CONTACT: Laura A. Dudes, ORA
(404) 997-4472

Documentation of the recommendations should be completed in accordance with Exhibit 2, Effectiveness Review Report Template, of Management Directive 6.8 “Lessons-Learned Program”. Region II DCO will ensure that program office recommendations are submitted to the appropriate contact.

Enclosure:

1. Watts Bar Unit 2 Construction Inspection and Oversight Lessons-Learned Working Group Charter

Watts Bar Unit 2 Construction Inspection and Oversight Lessons Learned Working Group Charter

PURPOSE

The purpose of this working group (WG) is to assess the U.S. Nuclear Regulatory Commission (NRC) Watts Bar Unit 2 construction inspection and assessment reactivation through power operation. Lessons learned through this initiative shall consider specific insights into the different areas identified in the staff's March 9, 2017, Watts Bar Lessons Learned Memorandum (ML17067A458) and to identify areas to emphasize. This lessons-learned review should evaluate the NRC's construction inspection and oversight implementation for the effectiveness of the programs and processes, highlight actions that contributed to the effectiveness of program implementation and areas to specifically emphasize where improvements can be made in keeping with the NRC's Principles of Good Regulation (Independence, Openness, Efficiency, Clarity, and Reliability).

The WG's review should also consider the inspection and oversight program implementation for the AP-1000 plants as compared to the lessons-learned from Watts Bar Unit 2. Specific areas of focus will be provided as a separate attachment for follow up by the Region II Division of Construction Oversight.

WORKING GROUP MEMBERSHIP

The WG will be led by Mr. Jason Eargle, Senior Construction Inspector, Division Construction Oversight (DCO). The other full time members are Mr. Phil O'Bryan, Division of Construction Inspection and Operational Programs (DCIP), and Mr. Steven Campbell, Division of Inspection and Regional Support (DIRS).

SCOPE

The WG should focus on the different aspects of the Watts Bar Unit 2 construction program development, through the transition of program responsibilities to operating reactors. The staff's March 9, 2017, Watts Bar Lessons Learned Memorandum provides insights into the program implementation areas of Organization, Construction Inspection, Testing, and Transition. The WG should utilize applicable inspection manual chapters (IMCs), including IMC 2517, "Watts Bar Unit 2 Construction Inspection Program," IMC 2515, "Light-Water Reactor Inspection Program - Operations Phase," and those related to the 10 CFR Part 52 Light Water Reactor Inspection Program. This comparison will inform the lessons-learned, and identify areas for follow-up separate to this WG's activities.

PROCESS

The WG should remain focused on the implementation of the inspection and oversight programs at Watts Bar Unit 2. A comparison to the inspection and oversight program implementation at the AP-1000 facilities should be conducted to identify areas for consideration by Region II's DCO and NRO as needed. Duplication of work already in process or completed as part of other efforts should be avoided. This specific assessment may include vertical slice reviews of the major inspection activities, planning processes and resource loading implemented at WB2 using the staff's lessons-learned and other background information. Vertical slice reviews are examinations of the portions of the requirements, policies, procedures or guidance applicable to the specific actions considered significant within this assessment. WG observations that are

best suited for incorporation into other oversight programs such as the Reactor Oversight Self-Assessment or the Construction Reactor Oversight Process Self-Assessment, should be coordinated and submitted for such consideration.

DOCUMENTATION

The WG should provide a written report to the Region II, Regional Administrator, by August 25, 2017, which at a minimum documents the WG recommendations. Documentation should be completed in accordance with Exhibit 2, Effectiveness Review Report Template, of Management Directive 6.8 "Lessons-Learned Program," and submitted to the contact for that program. The report will be made publically available.

Memorandum to Mr. William B. Jones from Ms. Laura A. Dudes

SUBJECT: WATTS BAR UNIT 2 CONSTRUCTION INSPECTION AND OVERSIGHT
LESSONS-LEARNED

DISTRIBUTION:

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ADAMS: No. ACCESSION NUMBER: **ML17192A031** SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:ORA					
SIGNATURE	LAD					
NAME	L. Dudes					
DATE	06/26/2017					

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