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CNRO-2016-00017

July 19, 2016

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

SUBJECT: Request for Approval of Change to the Entergy Quality Assurance Program Manual (QAPM)

Arkansas Nuclear One, Units 1 & 2
Docket Nos. 50-313 & 50-368
License Nos. DPR-51 & NPF-6
Docket No. 72-13

Indian Point Nuclear Power Plant, Units 1, 2, & 3
Docket Nos. 50-003, 50-247, & 50-286
License Nos. DPR-05, DPR-26, & DPR-64
Docket No. 72-51

Grand Gulf Nuclear Station
Docket No. 50-416
License No. NPF-29
Docket No. 72-50

Big Rock Point Nuclear Plant-ISFSI
Docket No. 50-155
License No. DPR-6
Docket No. 72-43

River Bend Station
Docket No. 50-458
License No. NPF-47
Docket No. 72-49

James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
License No. DPR-59
Docket No. 72-12

Waterford 3 Steam Electric Station
Docket No. 50-382
License No. NPF-38
Docket No. 72-75

Palisades Nuclear Power Plant
Docket No. 50-255
License No. DPR-20
Docket No. 72-07

Pilgrim Nuclear Power Station
Docket No. 50-293
License No. DPR-35
Docket No. 72-1044

REFERENCE: Entergy Operations, Inc. letter to the NRC (CNRO-2015-00023), *Request for Approval of Change to the Entergy Quality Assurance Program Manual (QAPM)*, dated November 6, 2015

Dear Sir or Madam:

In the referenced letter, Entergy Operations, Inc. and Entergy Nuclear Operations, Inc. (collectively referred to as "Entergy") submitted to the NRC for approval a change to the Entergy Quality Assurance Program Manual (QAPM). Specifically, the proposed change eliminated Section K.3 from Table 1 of the QAPM (Rev. 29). This section currently reads:

“As an alternate to daily testing grout for compressive strength, for prepackaged shelf item, non-shrink grout, the grout’s compressive strength tests may be performed once on each batch of non-shrink grout received, rather than each day grout is placed.”

As a result of recent discussions with the NRC, rather than deleting the entry for Section K.3 as previously proposed, Entergy proposes to revise Section K.3 to state:

“In accordance with ASME QA92-003 (ASME NQA-1 Interpretations), testing of non-shrink grout does not fall under the jurisdiction of N45.2.5 Table B; but the designer is responsible for identifying necessary testing and frequency requirements.”

A mark-up of this proposed change is provided in the attachment to this letter.

As with the originally proposed change, this revised proposal is based on the ASME response to an inquiry for testing requirements of pre-packaged non-shrink grout, QA92-003. See Attachment 1 of the referenced letter for the inquiry and the ASME response.

The QAPM, as revised and noted, continues to satisfy the requirements of 10 CFR 50 Appendix B and the Regulatory Guides and ANSI Standards referenced in the QAPM Table of Contents and QAPM Attachment, Table 1.

Should you have any questions, please contact me at (601) 368-5649.

Yours truly,



EDH/NWE

Attachment: QAPM Marked-Up Page

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ATTACHMENT

QAPM MARKED-UP PAGE



QUALITY ASSURANCE PROGRAM MANUAL

Table 1
Regulatory Commitments

K. Regulatory Guide 1.94 Revision 1, dated April 1976

Clarification/Exception

1. ANSI N45.2.5
Section 2.5.2 The last sentence requires that all items inspected with maintenance and test equipment, which is found to be out of calibration, shall be considered unacceptable. Entergy will comply with QAPM Section B.9.g as an alternate. QAPM Section B.9.g requires an evaluation to determine the validity of previous measurements.
2. ANSI N45.2.5
Section 4.5 When using ACI-305-72 and ACI-306-66, Entergy may apply the following requirements:

PLACING TEMPERATURES OF CONCRETE

A. During hot weather concreting, placing temperatures of concrete will be limited to the following: 1) Concrete members less than 3 feet in least dimension will not exceed 90°F; 2) Concrete members from 3 feet to 6 feet in least dimension will not exceed 70°F; and 3) Concrete members more than 6 feet in least dimension will have placing temperature as near 50°F as can be obtained by use of ice as necessary up to 100 percent of adding mixing water; and by shading aggregate and sprinkling the coarse aggregate the day it is to be used. Care will be taken so that no unmelted ice remains in the concrete at the end of the mixing period.

B. During cold weather concreting: In heating the water and aggregate, live steam to heat the fine and coarse aggregate shall not be used. The permissible range for concrete temperature shall be as follows: 1) Sections less than 3 feet in least dimensions 55°F to 75°F; and 2) Mass concrete 3 feet or more in least dimension 45°F to 65°F. The mixing water and aggregate will be purchased as required. The materials will be free of ice, snow and frozen lumps before they enter the mixer.

3. ANSI N45.2.5
Table B

~~As an alternate to daily testing grout for compressive strength, for prepackaged shelf item, non-shrink grout, the grout's compressive strength tests may be performed once on each batch of non-shrink grout received, rather than each day grout is placed.~~

In accordance with ASME QA92-003 (ASME NQA-1 Interpretations), testing of non-shrink grout does not fall under the jurisdiction of N45.2.5 Table B; but the designer is responsible for identifying necessary testing and frequency requirements.