



U.S. Nuclear Regulatory Commission
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Washington, DC 20555-0001

DCS-NRC-000376
26 August 2014

Subject: Docket Number 070-03098
Shaw AREVA MOX Services
Mixed Oxide Fuel Fabrication Facility
Updated Interim Report Notification:
Deformed Bar Anchors

This letter provides an updated interim report concerning an evaluation being performed by CB&I AREVA MOX Services, LLC (MOX Services), which was previously submitted by letter dated May 28, 2014, regarding 5/8" and 3/4" deformed bar anchors where the height of deformations appear to not satisfy the minimum height required by ASTM-A496. MOX Services has not concluded that this is a reportable condition in accordance with the requirements of 10CFR 21.21(d) and currently expects that the evaluation will be completed by November 18, 2014.

The updated information required for the Interim Report Notification per §21.21(a)(2) is provided in Enclosure 1. The commitment for follow-on actions is provided in Enclosure 1, item (vii).

If you have any questions, please feel free to contact me at (803) 819-2156 or Dealis Gwyn, Licensing Manager at (803) 819-2780.

Sincerely,

Kelly D. Trice, President and COO

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Enclosure:

(1) Updated Interim Report Notification Information per §21.21(a)(2)

cc :

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EDMS: Corresp\\Outgoing\NRC\2014 NRC

Enclosure 1

Updated Interim Report Notification Information per §21.21(a)(2)

Updated Interim Report Notification Information per §21.21(a)(2)

- (i) Name and address of the individual or individuals informing the Commission.

Kelly D. Trice
President and Chief Operating Officer
CB&I AREVA MOX Services
Savannah River Site
P.O. Box 7097
Aiken, SC 29804-7097

- (ii) Identification of the facility, the activity, or the basic component supplied for such facility which fails to comply or contains a defect.

Evaluation is continuing to determine whether any basic components have failed to comply or contain a defect. This is an updated interim report. The Mixed Oxide Fuel Fabrication Facility is evaluating a possible deviation associated with the commercial procurement of 5/8" and 3/4" deformed bar anchors for commercial grade dedication to be used in the fabrication of embed plates. The vendor supplying these bars did not measure the height of the deformations as a critical characteristic when dedicating the bars. Based on preliminary measurements using methods, which by their nature would yield a conservative result, the average height of deformation appears to not satisfy the average minimum height required by ASTM-A496.

- (iii) Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect.

Evaluation is continuing to determine whether any basic components have failed to comply or contain a defect. This is an updated interim report. The embed plates are being supplied to MOX Services as a basic component by Specialty Maintenance and Construction, Inc. (SMCI) via commercial grade dedication. SMCI purchased standard commercial 5/8" and 3/4" carbon steel deformed bars from Nelson Manufacturing. Nuclear grade bars have also been supplied to SMCI by Nelson, but are not the subject of this evaluation.

- (iv) Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply.

No basic components have been determined to fail to comply or contain a defect. This is an updated interim report. MOX Services initially identified, based on witnessing of measurements and methodology at SMCI and optical comparator measurements at Nelson that several 5/8" and 3/4" deformed bar anchors provided by SMCI may have an average height of deformation that does not satisfy the minimum average height of deformation required by ASTM-A496. The initial measurements used a conservative methodology which would be expected to yield a conservative result. This possible

deviation is being tracked by a nonconformance report. MOX Services engineering is continuing to evaluate the bars and measurements of the average height of deformation for the 5/8" and 3/4" deformed bar anchors and believes there may not be a reportable condition.

- (v) The date on which the information of such defect or failure to comply was obtained.

Witnessing of vendor (SMCI) and manufacturer (Nelson) measuring methodology and optical comparator measurements of the 5/8" and 3/4" deformed bar was conducted on April 2, 2014.

- (vi) In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part.

No basic components have been determined to fail to comply or contain a defect. This is an updated interim report. MOX Services does not possess information as to whether other facilities have been supplied a similar basic component by SMCI.

- (vii) The corrective action, which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.

MOX Services is using more accurate measurement techniques (standard table and height gauge) and evaluating the condition of the existing bars. Additional time is needed to complete the evaluation of the new measurements and determine if a reportable condition exists. MOX Services engineering will complete the evaluation required by 10 CFR Part 21 by November 18, 2014.

- (viii) Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.

None at this time

- (ix) In the case of an early site permit, the entities to whom an early site permit was transferred.

This is not an early site permit concern.