



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

DCS-NRC-000396  
15 July 2015

Subject: Docket Number 070-03098  
CB&I AREVA MOX Services  
Mixed Oxide Fuel Fabrication Facility  
Part 21 Final Report Notification: SMCI Embed Plates

Reference: 1. Letter from D. Del Vecchio to U.S. NRC Document Control Desk, DCS-NRC-000391, "Part 21 60-Day Interim Report Notification: SMCI Embed Plates," dated April 21, 2015

This letter provides information concerning an evaluation being performed by CB&I AREVA MOX Services, LLC (MOX Services) regarding weld deviations identified at the Mixed Oxide Fuel Fabrication Facility. The welds evaluated pertain to certain SMCI embed plates where undersized welds were identified (Reference 1).

MOX Services has concluded, based on inspection, laboratory testing, examination and design evaluation, that this is a reportable condition in accordance with the requirements of 10CFR 21.21(d).

The information required for a Report Notification per §21.21(d)(4) is provided in Enclosure 1.

If you have any questions, please feel free to contact me at (803) 442-6485 or our Licensing and Nuclear Safety Manager, Dealis Gwyn, at (803) 819-2780.

Sincerely,



David Del Vecchio  
President and Project Manager

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Enclosure:

(1) Report Notification Information per §21.21(d)(4)

cc :

Scott Cannon, NNSA/SRS  
Mosi Dayani, NNSA/SRS  
Mark Gober, MOX Services  
William Gloersen, USNRC/RII  
Dealis Gwyn, MOX Services  
Noah Hicks, MOX Services  
Chad Huffman, USNRC/SRS  
Dennis Ivey, MOX Services  
Sue King, MOX Services  
Kevin Morrissey, USNRC/HQ  
Carroll Phillips, MOX Services  
Gilles Rousseau, MOX Services  
Deborah Seymour, USNRC/RII  
Donald Silverman, ML&B  
David Tiktinsky, USNRC/HQ  
Paul Whittingham, MOX Services  
Bryan Wilkes, MOX Services  
Lauren Wylie, MOX Services  
Doug Yates, MOX Services  
MOX Project Management Office Document Control Administrator (moxpmodca@srs.gov)  
EDMS: Corresp\Outgoing\NRC\2015 NRC

**Enclosure 1**

**Report Notification Information per §21.21(d)(4)**

**Report Notification Information per §21.21(d)(4)**

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

David Del Vecchio  
President and Project Manager  
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.

MOX Services has determined that the fillet welds connecting the ledger angle to the embed plate did not comply with the minimum size required by AWS D1.1-98 and the design requirements. These inadequate welds represent a defect in a basic component as provided by SMCI.

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

The embed plates containing defects were supplied to MOX Services as a basic component by Specialty Maintenance and Construction, Inc. (SMCI) Division of MetalTek International, 4015 Drane Field Road, Lakeland, FL 22813.

- (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.

The undersize fillet welds connecting the ledger angle to the embed plates were determined to be inadequate. Inadequate welds would adversely affect the load bearing and structural capacity of these components.

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

These weld defects related to the SMCI embed plates were initially identified by non-conformance report on February 24, 2015.

- (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.

CB&I Part 21 interim report, dated January 20, 2015, indicates that Vogtle Units 3 and 4 have been supplied with basic components 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 has initiated corrective actions to repair the basic components to meet code and design requirements. MOX Services anticipates, based on the current project schedule, that repairs will be completed in 2016.

- (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.

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

Not applicable.