



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

DCS-NRC-000454
26 April 2017

Subject: Docket Number 070-03098
CB&I AREVA MOX Services
Mixed Oxide Fuel Fabrication Facility
Part 21 Final Report: Shaw SSS Fabricators Modular Frame Assemblies

Reference: 1. Letter from D. Del Vecchio to U.S. NRC Document Control Desk, DCS-NRC-000436, Interim Report Notification: Shaw SSS Fabricators Modular Frame Assembly, dated 17 November 2016.

This letter provides information concerning an evaluation performed by CB&I AREVA MOX Services, LLC (MOX Services) regarding weld deviations identified at the Mixed Oxide Fuel Fabrication Facility. The deviations evaluated pertain to welds on modular frame assemblies that do not comply with AWS D1.6 as identified in MOX Services' interim report (Reference 1).

A subset of the nonconforming welds on the modular frame assemblies were determined to require repair. The effect that these welds could have on frame assembly function had they remained uncorrected is indeterminate. MOX Services has therefore conservatively concluded that this is a reportable condition in accordance with the requirements of 10 CFR 21.21(d). The information required for a report notification per §21.21(d)(4) is provided in the enclosure.

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:

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

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Enclosure

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.

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President and Project Manager
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- (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 some welds on modular frame assemblies C234-PS-48800, C234-PS-10500, C234-PS-13300, C234-PS-13700 and C234-PS-13800 do not comply with AWS D1.6 in accordance with procurement specifications and require repair. These welds represent a defect in a basic component as provided by Shaw SSS Fabricators.

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

The custom designed and fabricated modular frame assemblies in question were supplied to MOX Services as basic components by Shaw SSS Fabricators, 7012 Highway 1 South, Addis, LA 70710.

- (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 welds requiring repair on the modular frame assemblies do not comply with AWS D1.6. MOX Services has conservatively concluded that these welds could have adversely impacted the load bearing and structural capacity of the modular frames in supporting small diameter pipe and components of various process systems.

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

Information related to the nonconforming modular assembly frame welds was documented by MOX Services on 29 September 2016.

- (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.

MOX Services does not possess information as to whether other facilities have been supplied a similar basic component by Shaw SSS Fabricators.

- (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.

The remaining Shaw SSS modular frame assemblies are being inspected and will be tracked to completion under MOX Services' Corrective Action Program to verify compliance with AWS D1.6. If deficiencies are found, they will be evaluated and dispositioned in accordance with MOX Services' process for the control of nonconforming items.

- (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.

Not applicable.