



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

30 September 2013  
DCS-NRC-000361

Subject: Docket Number 07-03098  
Shaw AREVA MOX Services  
Mixed Oxide Fuel Fabrication Facility  
Part 21 Report Notification:  
Cracks in HVAC Filter Housing

This letter provides information concerning an evaluation performed by Shaw AREVA MOX Services, LLC (MOX Services) regarding a deviation. The deviation pertains to the procurement of HVAC intermediate filter housing's where cracks were found in the housing repair welds performed by Flanders.

Following an internal investigation, MOX Services has concluded 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 the Enclosure.

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

Sincerely,

A handwritten signature in black ink that reads "Kelly D. Trice". The signature is written in a cursive, flowing style.

Kelly D. Trice, President and COO

Document Control Desk  
U.S. Nuclear Regulatory Commission  
DCS-NRC-000361  
30 Sep 2013  
Page 2 of 2

Enclosure:

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

cc :

Scott Cannon, NNSA/SRS  
Sam Glenn, NNSA/SRS  
William Gloersen, USNRC/RII  
Mark Gober, MOX Services  
Dealis Gwyn, MOX Services  
Stephen Marr, MOX Services  
Kevin Morrissey, USNRC/HQ  
Deborah Seymour, USNRC/RII  
Melvin Shannon, USNRC/SRS  
Donald Silverman, ML&B  
David Tiktinsky, USNRC/HQ  
Rodney Whitley, MOX Services  
Paul Whittingham, MOX Services  
Bryan Wilkes, MOX Services  
EDMS: Corresp\Outgoing\NRC\2013 NRC

**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.

Kelly D. Trice  
President and Chief Operating Officer  
Shaw 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.

The Mixed Oxide Fuel Fabrication Facility is addressing nonconforming welds that resulted in cracks in HVAC Filter Housing repair welds.

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

The HSA and HDE Intermediate filter housings are being supplied to MOX Services by Flanders.

- (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.

HDE system intermediate filter housings are credited for the confinement of radioactive material. There is a possibility for additional material stresses to be placed on the subject filter housings which could cause the propagation and increase in size of the cracks described in the NCR from two main design basis events: a fire in a room, and a seismic event. Because the cracks identified in the NCR could propagate to an indeterminate size, the ability of the portions of the HDE system upstream of these filter housings to maintain the C3 confinement boundary, and perform its safety function, cannot be determined. Loss of HDE intermediate filter housing pressure boundary integrity may result in degradation of the C2/C3 differential pressure strategy. For this reason MOX Services considers this deviation to be a defect.

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

The deviation was identified by non-conformance report on August 07, 2013.

- (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 Flanders.

(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.

Non-Conformance Report NCR 13-5235 will disposition the repairs associated with the six HSA and HDE filter Housing. MOX Services will ensure repairs are performed by either the vendor, MOX Services or a third party. These repairs will be performed in support of the construction schedule.

(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.

This is not an early site permit concern.