April 25, 2008

MEMORANDUM TO: Deborah Seymour, Chief
Projects Branch 1
Region II

FROM: Margie Kotzalas, Chief
MOX Branch
Division of Fuel Cycle Safety **/RA/**
and Safeguards

SUBJECT: EVALUATION OF THE MOX SERVICES REPORT ON NONCONFORMING REINFORCING BARS

A construction inspection was conducted by the NRC staff of the Mixed Oxide Fuel Fabrication Facility (MFFF) located on the Savannah River Site in Aiken, South Carolina. The objective of the inspection was to follow up the geotechnical, structural steel and structural concrete activities at MFFF. During the inspection, NRC staff identified a non-conforming condition regarding the bend radius of a 90-degree hook of some of the reinforcing bars (rebar) used at the MFFF. Shaw AREVA MOX Services (MOX Services) documented this condition in a non-conformance report no. QC-08-0203S and prepared a technical report entitled "*Technical Report on Reinforcing Bar Failing Minimum Bend Radius Requirements*," February 26, 2008, to describe the extent of the condition and steps MOX Services plans to take to resolve the non-conforming condition.

At the request of Region II, NMSS staff performed a technical evaluation of the MOX Services report. Results of the staff evaluation are presented in enclosure 1.

Based on its technical review and confirmatory calculations, the staff concludes that: (1) MOX Services' plan for resolution of the non-conforming condition and supporting technical bases are satisfactory; and (2) the non-conforming rebar with 90-degree hooks, embedded in concrete and not meeting the Code minimum bend radius requirements, will perform its intended safety functions.

If you have questions, please feel free to call Dave Tiktinsky at (301) 492-3229.

Docket: 70-3098

Enclosure: Technical Evaluation of the MOX Services Report Entitled "Technical Report on Reinforcing Bar Failing Minimum Bend Radius Requirements"

CONTACT: David Tiktinsky, NMSS/FCSS
(301) 492-3229

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Docket 70-3098
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