May 2, 2008

MEMORANDUM: Margie Kotzalas, Chief
MOX Branch
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

FROM: David Tiktinsky, Senior Project Manager **/RA/**
MOX Branch
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

SUBJECT: August 21-23, 2007, ON-SITE REVIEW SUMMARY: MIXED OXIDE FUEL FABRICATION FACILITY (CHEMICAL SAFETY REVIEW RELATED TO ALTERNATE FEEDSTOCK)

On August 21-23, 2007, the U.S. Nuclear Regulatory Commission staff conducted an in-office review at the Shaw AREVA MOX Services in Aiken, SC of the Integrated Safety Analysis Summary and the license application specific to the chemical safety review related to alternate feedstock for the Mixed Oxide Fuel Fabrication Facility (MFFF).

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

I am attaching the in-office review summary and the meeting handouts for your use. The summary and meeting handouts are Official Use Only (OUO) – Proprietary and Security Related Information.

Docket: 70-3098

Enclosures:
1. Meeting Handout – Stabilization of Plutonium Oxide to Meet DOE-STD-3013 (OUO)
2. Meeting Handout – MFFF Laboratory – AFS Units (OUO)
3. Meeting Handout – Chemical Impurities of Plutonium Oxide Feed Material (OUO)
4. Meeting Handout – AFS Operation (OUO)
5. Meeting Handout – NRC Chemical Safety Review (OUO)
6. Meeting Handout – Estimation of MOX Feed Impurities with Prompt Gamma Analysis (OUO)
7. Meeting Handout – Alternate Feedstock Historic Overview (OUO)
8. Summary of In-Office Review (OUO)

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cc: w/o enclosures
G. Smith, NNSA
J. Olencz, NNSA
S. Jenkins, SC Dept. Of HEC
D. Silverman, Esq., MOX Services
D. Gywn, MOX Services
A.J. Eggenberger, DNFSB
L. Zeller, BREDL
G. Carroll, Nuclear Watch South
D. Curran, Esq., Nuclear Watch South

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OFC	FCSS/MB	FCSS/MB	FCSS/MB	FCSS/MB
NAME	DTiktinksy	CGibbs	MNorato	MKotzalas
DATE	03/ 31 /08	05/ 1 /08	05/01/08	05/02/08

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