



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
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May 22, 2003

MEMORANDUM TO: David A. Ayres, Chief
Fuel Facilities Branch
Division of Nuclear Materials Safety

FROM: Christine Noelke, Student Engineer
Fuel Facilities Branch
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/RA/

SUBJECT: MOX REFERENCE DOCUMENTS LIST

Attached are the reference documents found in the Mixed Oxide Fuel Fabrication Facility (MFFF) Construction Authorization Request (CAR). These resources are necessary for the proper assessment of the CAR, received by the U.S. Nuclear Regulatory Commission (NRC) from Duke, Cogema, Stone & Webster (DCS), for evaluation of the items found within the draft.

Attachment: As stated

cc: William Gloersen

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Supplemental Documents Needed for MOX Project

Air Moving and Conditioning Association

AMCA-1999, *Standards Handbook*

American Association of State Highway and Transportation Officials (AASHTO)

Standard Specifications for Highway Bridges, Sixteenth Edition, 1996

American Concrete Institute (ACI) Codes

ACI-224R-90, *Control of Concrete Cracking in Concrete Structures*

ACI-301-99, *Standard Specifications for Structural Concrete*

ACI-315-99, *Details and Detailing of Concrete Reinforcement*

ACI-318, *Building Code Requirements for Reinforced Concrete Structures*

ACI-336.2R-88, *Suggested Analysis and Design Procedures for Combined Footings and Mats*

ACI-349-97, *Code Requirements for Nuclear Safety-Related Concrete Structures & Commentary*

ACI-349.1R-91, *Reinforced Concrete Design for Thermal Effects on Nuclear Power Plant Structures*

ACI-351.1R-99, *Grouting for Support of Equipment & Machinery*

ACI-351.2R-94, *Foundations for Static Equipment*

ACI-352R-91, *Recommendations for Design of Beam-Column Joints in Monolithic Reinforced Concrete Structures*

ACI-352.1R-89, *Recommendations for Design of Slab-Column connections in Monolithic Reinforced Concrete Structures*

ACI-360R-92, *Design of Slabs on Grade*

ACI-439.3R-91, *Mechanical Connections of Reinforcing Bars*

ACI-503R-93, *Use of Epoxy Compounds with Concrete*

ACI-SP-152-95, *Design and Performance of Mat Foundations*

ACI 349-01, App. B. *Anchoring Concrete*

ACI 318-99. *Building Code Requirements for Reinforced Concrete Structures and Commentary*

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ACI 207.2R-95. *Effect of Restraint, Volume Change, and Reinforcement on Cracking of Mass Concrete*

ACI 207.4R-93. *Cooling and Insulating Systems for Mass Concrete*

ACI SP-175. *Concrete and Blast Effects*

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Industrial Ventilation A Manual of Recommended Practice, 23rd Edition

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AISC, *Seismic Provisions for Structural Steel Buildings*, April 1997

AISC ASD, *Manual of Steel Construction, Allowable Stress Design*, 9th edition, 1989

AISC N690. *Specification for Structural Joints Using ASTM A325 or A490 Bolts*

American Iron and Steel Institute (AISI)

AISI, *Specifications for the Design of Cold-Formed Steel Structural Members*, 1986

American National Standards Institute (ANSI)

ANSI/ANS 6.1.1-1977, *Neutron and Gamma-Ray Flux-to-Dose Rate Factors*

ANSI 6.4-1977, *Guidelines on the Nuclear Analysis and Design of Concrete Radiation Shielding for Nuclear Power Plants*

ANSI/ANS 6.4.2 (1985, R1997), *Specification for Radiation Shielding Materials*
ANSI 323

ANSI N 13.1-1969, *Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities*

ANSI N13.10-1974, *Specification and Performance of Onsite Instrumentation for Continuously Monitoring Radioactivity in Effluent*

ANSI N14.6, *Radioactive Materials - Special Lifting Devices for Shipping Containers Weighing 10,000 lbs or More*

ANSI N15.10-1987, *Unirradiated Plutonium Scrap - Classification*

ANSI N15.22-1987, *Nuclear Materials - Plutonium-Bearing Solids - Calibration Techniques for Calorimetric Assay*

ANSI N42.18-1980, *On-Site Instrumentation for Continuously Monitoring Radioactivity in Effluents*

ANSI N101.4, *Quality Assurance for Protective Coatings Applied to Nuclear Facilities*, 1972

ANSI N317-1980 (1991), *Performance Criteria for Instrumentation Used for In-Plant Plutonium Monitoring Instrumentation*

ANSI Z88.2-1992, *Practices for Respiratory Protection*

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ANSI/ANS-8.20-1991, *Nuclear Criticality Safety Training*

ANSI/ANS-8.21-1995, *Use of Fixed Neutron Absorbers in Nuclear Facilities Outside Reactors*

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ANSI/ANS-8.23-1997, *Nuclear Criticality Accident Emergency Planning and Response*

ANSI/ANS 16.1-1986, *Measurement of the Leachability of Solidified Low-Level Radioactive Wastes by a Short-Term Test Procedure*

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 ANSI/ASME B31.3, *Process Piping*
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 ANSI/ASME B73.1M, *Specifications for Horizontal End Suction Centrifugal Pumps for Clpm. Processes.*
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API 620 (1998), *Design & Construction of Large, Welded, Low Pressure Storage Tanks*
 API RP 520, *Sizing, Selection and Installation of Pressure Relieving Devices in Refineries*
 API RP 521, *Guide for Pressure Relieving and Depressurizing Systems*

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ASCE Standard 4-98, *Seismic Analysis of Safety Related Nuclear Structures*
 ASCE Standard 7-98, *Minimum Design Loads for Buildings and Other Structures*
 ASCE Standard 8-91, *Specification for the Design of Cold-Formed Stainless Steel Structural Members*
 ASCE 58-80, *Structural Analysis and Design of Nuclear Plant Facilities*
 ASCE *Design for Physical Security, State of the Practice*

American Society of Heating Refrigeration and Air-Conditioning Engineers

ASHRAE *Design Guide for Department of Energy Nuclear Facilities*, 1993 Edition
 ASHRAE 62-1999, *Ventilation for Acceptable Air Quality*
 ASHRAE 90.1-1999, *Energy Standard for Buildings Except Low-Rise Residential Buildings*
 ASHRAE, 1997. *Handbook of Fundamentals*

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AG-1-1977, *Code on Nuclear Air and Gas Treatment*
 B30.2, *Overhead and Gantry Cranes*
 B31.3-1996, *Process Piping, including 1998 Addenda*
 N509-1996, *Nuclear Power Plant Air-Cleaning Units and Components*
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 DOE-STD-1024-92. *Guidelines for Use of Probabilistic Seismic Hazard Curves at Department of Energy Site.*
 DOE-STD-1023-95. *Natural Phenomena Hazards Assessment Criteria.*
 DOE-STD-1022-94. *Natural Phenomena Hazards Characterization Criteria.*
 DOE Order 420.1. *Facility Safety.*
 DOE-STD-1021-93. *Natural Phenomena Hazards Performance Categorization Criteria for Structures, Systems and Components.*
 Emergency Response Planning Guideline (used by DOE for standards)

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DCS01-WRS-DCS-NTE-G-00005-A, *MOX Fuel Fabrication Facility Site Geotechnical Report, December*
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Institute of Electrical and Electronic Engineers (IEEE)

IEEE C62.41-1991, *IEEE Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits* (per RAI response #155)
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IEEE 1074-1997, *IEEE Guide for Developing Software Life Cycle Processes*

IEEE 1228, *Standard for Software Safety Plans* (per RAI response #167)

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