



**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*

ACI 442-88. *Response of Concrete Buildings to Lateral Forces* ACI 207.1R-96. *Mass Concrete*

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*

ANSI Z88.6-1984, *Physical Qualifications for Respirator Use*

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ANSI/ANS-8.1-1983 (R1998), *Nuclear Criticality Safety in Operations with Fissionable Materials Outside Reactors*

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ANSI/ANS-8.7-1975, *Guide for Nuclear Criticality Safety in the Storage of Fissile Materials*

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ANSI/ANS-8.10-1983, *Criteria for Nuclear Criticality Safety Controls in Operations With Shielding and Confinement*

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ANSI/ANS-8.15-1981, *Nuclear Criticality Control of Special Actinide Elements*

ANSI/ANS-8.17-1984, *Criticality Safety Criteria for the Handling, Storage, and Transportation of LWR Fuel Outside Reactors*

ANSI/ANS-8.19-1996, *Administrative Practices for Nuclear Criticality Safety*

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

ANSI/ANS-8.22-1997, *Nuclear Criticality Safety Based on Limiting and Controlling Moderators*

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*

ANSI/ANS 40.35-1991, *Volume Reduction of Low Level Radioactive Waste*

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 ANSI/ASME B30.20, *Below-the-Hook Lifting Devices*
 ANSI/ASME B31.3, *Process Piping*
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 ANSI/ISA-67.04.01-2000, *Setpoints for Nuclear Safety-Related Instrumentation*
 ANSI/ASME B73.1M. *Specifications for Horizontal End Suction Centrifugal Pumps for Clpm. Processes.*
 ANSI-N13.1-1999. *Sampling and Monitoring Releases of Airborne Radioactive Substances from the Stacks and Ducts of Nuclear Facilities*

American Petroleum Institute (API)

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*
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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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Compressed Gas Association (CGA)CGA G-4, *Oxygen*CGA G-5, *Hydrogen*CGA G-7, *Compressed Air for Human Respiration*CGA G-9 (1998), *Helium*CGA G-10 (1997), *Nitrogen*CGA G-11 (1998), *Argon*CGA P-1, *Safe Handling of Compressed Gases in Containers*CGA P-9 (1992), *The Inert Gases Argon, Nitrogen, and Helium*CGA P-14, *Accident Prevention in Oxygen-Rich and Oxygen-Deficient Atmospheres*CGA S-1.1, *Pressure Relief Device Standards - Part 1 - Cylinders for Compressed Gases*

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DOE/HDBK-3010. *Airborne Release Fractions/Rates and Respirable Fractions for Nonreactor Nuclear Facilities.*
 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)

Duke Cogema Stone & Webster

DCS01-WRS-DCS-NTE-G-00005-A, *MOX Fuel Fabrication Facility Site Geotechnical Report, December*
 DCS01-WRS-DCS-NTE-G-00005-C, *MOX Fuel Fabrication Facility Site Geotechnical Report, August*

Electric Power Research Institute

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ERDA 76-21 *Nuclear Air Cleaning Handbook, 2nd edition*

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International Handbook of Evaluated Criticality Safety Benchmark Experiments

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 142-1991, *Recommended Practice for Grounding of Industrial and Commercial Power Systems*
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 IEEE 323-1983, *IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations*
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- IEEE 383-1974, *IEEE Standard for Type Test of Class 1E Electric Cables, Field Splices and Connections for Nuclear Power Generating Stations*
- IEEE 384-1992, *Standard Criteria for Independence of Class 1E Equipment and Circuits*
- IEEE 387-1995, *IEEE Standard Criteria for Diesel Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations*
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- IEEE 450-1995 (per RAI response #152)
- IEEE 484-1996, *Recommended Practice for Installation Design and Installation of Vented Lead-Acid Batteries for Stationary Applications* (per RAI response #162)
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- IEEE 519-1982, *IEEE Guide for the Installation of Electrical Equipment to Minimize Electrical Noise Inputs to Controllers from External Sources*
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- IEEE 627-1980 (by reference in RAI response #154)
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- IEEE 944-1986, *IEEE Recommended Practice for the Application and Testing of Uninterruptible Power Supplies for Power Generating Stations* (per RAI response #153)
- IEEE 946-1992, *IEEE Recommended Practice for the Design of DC Auxiliary Power Systems for Generating Stations* (per RAI response #154)
- IEEE 1050-1996, *Guide for Instrumentation and Control Equipment Grounding in Generating Stations*
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- IEEE 1023-1988, *IEEE Guide for the Application of Human Factors Engineering to Systems, Equipment, and Facilities of Nuclear Power Generating Stations*
- IEEE 1028-1997, *IEEE Standard for Software Reviews*
- IEEE 1042-1987 (per RAI response #168)
- 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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55-1998, *Standard for the Storage, Use and Handling of Compressed and Liquefied Gases in Portable Cylinders*

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