

**COMMISSION BRIEFING SLIDES/EXHIBITS**

**BRIEFING ON STATUS OF  
NMSS PROGRAMS - WASTE SAFETY**

**MARCH 3, 2003**



# **Waste Program Commission Briefing**

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**Martin Virgilio, NMSS  
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# Overview

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- **Introduction**
- **Meeting purpose**
- **Objective**
- **Process**

# Briefing Topics

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- **High-Level Waste**
- **Decommissioning and License Termination**
- **Spent Fuel Transportation and Storage**

# High-Level Waste

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- **KTIs and post-closure performance assessment**
- **Pre-closure safety review**
- **Performance confirmation action plan**
- **QA program**
- **LSN and other IT/IM Issues**

# **Decommissioning and Licensing Termination**

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- **Experience implementing LTR**
- **Restricted release & institutional controls**
- **LTR relationship to other limits**

# **Decommissioning and Licensing Termination (Cont'd)**

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- **Models and assumptions**
- **Preventing future legacy sites**

# **Spent Fuel Transportation and Storage**

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- **High stakeholder interest**
- **Cask Availability**
- **Technical Challenges**



# Summary

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- **NMSS commitment to:**
  - ▶ **Utilize the full potential of the staff**
  - ▶ **Demonstrate behaviors consistent with our core values**
  - ▶ **Increase organizational capacity**
- **Effectiveness of NMSS activities**

**ACRONYMS FOR WASTE COMMISSION BRIEFING**  
(these may be discussed during the meeting)

ACNW	Advisory Committee on Nuclear Waste
AID	Agency for International Development
AIF	Assured Isolation Facility
AIT	American Institute in Taiwan
ANL	Argonne National Laboratory
ANPR	Advanced Notice of Proposed Rulemaking
ANS	American Nuclear Society
ANSI	American National Standards Institute
ARM	Accelerator-produced radioactive material
ASAM	Application of Safety Assessment Methodologies for Near Surface Radioactive Waste Disposal Facilities
ASLB	Atomic Safety Licensing Board
BEIR	Biological Effects of Ionizing Radiation, Committee on the
BPI	Business process improvement
BSC	Bechtel SAIC
CERCLA	Comprehensive Environment Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CNSC	Canadian Nuclear Safety Commission
CNWRA	Center for Nuclear Waste Regulatory Analyses
CoC	Certificate of Compliance
CRCPD	Conference of Radiation Control Program Directors
CRP	Coordinated Research Project
CRPPH	Committee on Radiation Protection, and Public Health (Nuclear Energy Agency Committee)
CSA	Cognizant Security Agency
CY	Calendar Year
DCS	Duke Cogema Stone and Webster
DDMS	Digital Data Management System
DEIS	Draft Environmental Impact Statement
DOE	Department of Energy
DOS	U. S. State Department
DOT	Department of Transportation
DP	Decommissioning plan
DWM	Division of Waste Management, Office of Nuclear Material Safety & Safeguards
EA	Environmental Assessment
EGIR	Nuclear Energy Agency Expert Group on Implications of the ICRP Recommendations
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency

EU	European Union
FR	Federal Register
FRA	Federal Railroad Administration
FRN	Federal Register Notice
FSC	Forum on Stakeholder Confidence
FUSRAP	Formerly Utilized Sites Remedial Action Program
FWENC	Foster Wheeler Environmental Corporation
FY	Fiscal Year
GAN	Russian Federation Gosatomnadzor
GEIS	Generic Environmental Impact Statement
GLTS	General License Tracking System
GSA	General Services Administration
HAZMAT	Hazardous Materials
HLW	High Level Waste
IA	Interagency Agreement
IAEA	International Atomic Energy Agency
ICM	Interim Compensatory Measures
ICRP	International Commission on Radiological Protection
IGSC	Integration Group for the Safety Case
IMC	Inspection Manual Chapter
INEEL	Idaho National Engineering and Environmental Laboratory
INER	Institute of Nuclear Energy Research (An organization in Taiwan Atomic Energy Council)
INES	International Nuclear Events Scale
INMM	Institute of Nuclear Materials Management
IP	Office of International Programs
ISCORS	Interagency Steering Committee on Radiation Standards
ISF	Idaho Spent Fuel Facility
ISFSI	Independent Spent Fuel Storage Installation
IT/IM	Information technology/information management
JPG	Jefferson Proving Ground
KTIs	Key Technical Issues
LA	License application
LANL	Los Alamos National Laboratory
LES	Louisiana Energy Services
LLW	Low-Level Waste
LSN	Licensing Support Network
LSN ARP	Licensing Support Network Advisory Review Panel
LTP	License Termination Plan
LTR	License Termination Rule

MC	Manual Chapter
MCNSNS	Mexican Comision Nacional de Seguridad Nuclear y Salvaguardias
MELOX	Nuclear facility in France
MFFF	Mixed Oxide Fuel Fabrication Facility
MII	Management Improvement Initiatives
MOST	Ministry of Science and Technology, Republic of Korea
MOU	Memorandum of Understanding
MOX	Mixed Oxide
NAS	National Academy of Sciences
NCRP	National Council on Radiation Protection and Measurements
NEA	Nuclear Energy Agency
NEI	Nuclear Energy Institute
NISA	Nuclear and Industrial Safety Agency (Japan)
NGO	Non-Government Organization
NMSS	Office of Nuclear Material Safety and Safeguards
NPPs	Nuclear power plants
NRR	Office of Nuclear Reactor Regulation
NSIR	Office of Nuclear Security and Incident Response
NUPEC	Nuclear Power Engineering Corporation (Japan)
NYDOH	New York Department of Health
NYSDEC	New York State Department of Environmental Conservation
NYSERDA	New York State Energy Resource and Development Authority
OAS	Organization of Agreement States
OCIO	Office of the Chief Information Officer
OCRWM	Office of Civilian Radioactive Waste Management at Department of Energy
OECD	Organization of Economic Cooperation and Development
OEDO	Office of the Executive Director for Operations
OGC	Office of the General Counsel
OHR	Office of Human Resources
OHS	Office of Homeland Security (Department of Homeland Security after legislation is implemented)
OIP	Office of International Programs
OPA	Office of Public Affairs
ORIA	Environmental Protection Agency Office of Radiation and Indoor Air
ORP	Department of Energy Hanford Office of River Protection
OSTP	Office of State and Tribal Programs
PBPM	Planning, Budgeting, and Performance Management
PCSA	Pre Closure Safety Analysis
PDR	Public document room
PFS	Private Fuel Storage (A spent fuel facility license applicant)

PG&E	Pacific Gas and Electric Company
PMDA	Program Management, Policy Development, and Analysis Staff, Office of Nuclear Material Safety and Safeguards
PNNL	Pacific Northwest National Laboratory
PPS	Package Performance Study
PRA	Probabilistic Risk Assessment
PSDAR	Post-Shutdown Decommissioning Activities Report
QA	Quality Assurance
RAI	Request for Additional Information
RASSC	Radiation Safety Standards Committee
RCRA	Resource Conservation and Recovery Act
RDTME KTI	Repository Design and Thermal Mechanical Effects Key Technical Issue
RES	Office of Nuclear Regulatory Research
RESRAD	Computer code
RIRIP	Risk-Informed Regulation Implementation Plan
RWMC	Nuclear Energy Agency Radioactive Waste Management Committee
SCWE	Safety conscious work environment
SDMP	Site Decommissioning Management Plan
SER	Safety Evaluation Report
SFPO	Spent Fuel Project Office, Office of Nuclear Material Safety & Safeguards
SLOMFP	San Luis Obispo Mothers for Peace
SNF	Spent nuclear fuel
SNL	Sandia National Laboratories
SPEC	Source Production Equipment Company (Agreement State Licensee)
SRS	Savannah River Site
STP	Office of State and Tribal Programs
TCM	Technical Committee Meeting (IAEA)
TECDOC	Technical Document (IAEA)
TECRO	Taipei Economic Cultural Representative Office
TENORM	Technologically Enhanced Naturally Occurring Radioactive Material
TLG	TLG Services, Inc.
TMI	Three Mile Island reactor plant
TPA	Total Performance Assessment
TRANSAS	Transport Safety Appraisal Service
TRANSSC	Transportation Safety Standards Committee
TTC	Technical Training Center
UK DTI	United Kingdom Department of Trade and Industries
UK NII	United Kingdom Nuclear Installations Inspectorate
UMTRCA	Uranium Mill Tailings Radiation Control Act
UNSCEAR	United Nations Scientific Committee on the Effects of Atomic Radiation

USACE	U. S. Army Corps of Engineers
VA	Vulnerability Analysis
WASSC	Waste Safety Standards Committee
WIPP	Waste Isolation Pilot Plant
WIR	Waste-Incidental-to-Reprocessing
WPDD	The Working Party on Management of Materials from Decommissioning and Dismantling
WVDP	West Valley Demonstration Project
YM	Yucca Mountain
YMRP	Yucca Mountain Review Plan