

COMMISSION BRIEFING SLIDES/EXHIBITS

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

MARCH 3, 2003



Waste Program Commission Briefing

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Overview

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

Briefing Topics

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

High-Level Waste

- **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

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

Decommissioning and Licensing Termination (Cont'd)

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

Spent Fuel Transportation and Storage

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

Summary

- **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)

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| 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 |

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| 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 |

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| 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) |

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| 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 |

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| 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 |