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AUG 21 1987

TO: Interested Parties

FROM: Robert E. Browning, Director  
Division of High-Level Waste Management  
Office of Nuclear Material Safety and Safeguards

SUBJECT: SUMMARY OF JUNE 30, 1987 SECOND ANNUAL MEETING WITH STATE AND  
TRIBAL REPRESENTATIVES IN THE HIGH-LEVEL WASTE PROGRAM

For your information, enclosed are several follow-up documents as a result of the June 30, 1987 Second Annual Meeting with State and Tribal Representatives in the High-Level Waste Program. They include:

1. Summary of Presentations
2. List of attendees
3. Statutory Authority and Regulatory Requirements of NRC's Office of Nuclear Material Safety and Safeguards
4. Letter to J. Linehan, NRC, from J. Knight, DOE, dated December 16, 1986, listing suggested DOE areas for mini-audits by NRC
5. Transcript

We are completing an Issues Paper which identifies the issues and concerns raised by state and Indian tribal representatives at the June 16th Commission meeting and the June 30th second annual meeting and will be distributing the paper to you within the next few weeks.

Sincerely,

*H*

Robert E. Browning, Director  
Division of High-Level Waste Management  
Office of Nuclear Material  
Safety and Safeguards

Enclosures: As stated

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TO: Interested Parties

FROM: Robert E. Browning, Director  
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Office of Nuclear Material Safety and Safeguards

SUBJECT: SUMMARY OF JUNE 30, 1987 ANNUAL MEETING WITH STATE AND TRIBAL REPRESENTATIVES IN THE HIGH-LEVEL WASTE PROGRAM

DATE: AUG 21 1987

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## NOTES:

1. The Summary of Presentations was coordinated by KKalman with the 6/30/87 meeting speakers.
2. This package was distributed to all meeting attendees and the HLWM/NMSS Mailing List which includes state/tribal, state/tribal contractors, NRC, DOE, other federal agency, and national association representatives (see attached list).

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## SUMMARY OF 6/30 MEETING

- 1 -

### SUMMARY OF PRESENTATIONS SECOND ANNUAL MEETING WITH STATE AND TRIBAL REPRESENTATIVES IN THE HIGH-LEVEL WASTE PROGRAM WASHINGTON, D.C. - JUNE 30, 1987

The purpose of this meeting was twofold: first, to inform the interested state and tribal officials about significant planned and ongoing NRC staff activities in the high-level waste (HLW) repository program; and second, to provide an opportunity for the NRC staff to become more informed about state and Indian tribal concerns as they affect the regulatory environment.

Robert E. Browning, Director, Division of High-level Waste Management (HLWM), Office of Nuclear Material Safety and Safeguards (NMSS), presided over the meeting. Robert MacDougall, Acting Section Leader, Systems Engineering and Evaluation Branch (HLSE), in HLWM, moderated the meeting. The speakers are cited in turn in this summary.

After Mr. Browning's welcoming remarks, Harold Denton, Director of the new Office of Governmental and Public Affairs (GPA) made his presentation on the importance of the high-level waste program and the relative roles of GPA and NMSS under the NRC reorganization. He noted that the draft Strategic Plan has taken a proactive stance. Some of the objectives cited in the Strategic Plan include the promotion of a coordinated and effective intergovernmental approach to nuclear safety and provision of timely, accurate, and complete information to the public on NRC activities.

The NMSS speaker, Deputy Office Director Robert Bernero, echoed Mr. Denton's remarks about the importance that NRC places on our interactions with Congress and other governments and discussed NMSS' responsibilities in implementing the Nuclear Waste Policy Act (NWPA): licensing of the HLW repository; and licensing the monitored retrievable storage (MRS) facility if Congress approves DOE's proposal to develop one. He noted that NMSS currently licenses the independent storage of spent fuel at the reactors and has begun to license dry storage of spent fuel.

Mr. Bernero then described the new structure within NMSS; there are now four divisions. The Division of Fuel Cycle, Medical, Academic and Commercial Use Safety regulates the storage of spent fuel at on-site facilities independent of the reactor building itself and would conduct MRS licensing reviews in coordination with the Division of High-level Waste Management. The Division of Safeguards and Transportation is responsible for the review and certification of casks used to move HLW and spent nuclear fuel.

In addition, there is the Division of High-Level Waste Management which has the bulk of the NMSS responsibilities regarding the repository program and NRC's interactions with DOE. Along with the Office of GPA, HLWM has responsibility for coordination with the states and Indian tribes in the HLW program.

The fourth NMSS division, Low-Level Waste Management and Decommissioning, is coordinating with the high-level waste program on the ongoing rulemaking to define high- and low-level wastes. This definition could include some wastes currently classified as "greater than Class C wastes".

The floor was then turned over to Dan Fehringer, HLWM, to discuss two pertinent rulemakings in the HLW program. The first activity concerns conforming 10 CFR Part 60 to the EPA High Level Waste Standards. Mr. Fehringer emphasized the intention to take all substantive information in the EPA standards and insert it directly into 10 CFR Part 60. The proposed amendments were published in June 1986. Comments were received on such issues as terminology and monitoring requirements. The final amendments are expected to be forwarded to the Commission in July 1987. (Note: the July 17, 1987 First Circuit Court of Appeals decision to vacate and remand portions of the EPA Standard will affect the completion of this rulemaking. The NRC staff is currently considering how to proceed.)

The second rulemaking concerns the Definition of HLW. Waste is currently classified by its source of generation. A waste that results from the first cycle of a reprocessing facility for recovering the unspent uranium and plutonium from spent fuel is classified as HLW. Spent fuel that will not be reprocessed is also considered to be HLW. Waste from any other source is classified as low-level waste. Mr. Fehringer noted that there has been a need to key the definition of waste to hazard and this is the intention of this rulemaking effort. An advance notice of proposed rulemaking was published in February 1987; the comment period closed on June 29, 1987.

The next speaker was Chip Cameron, a senior attorney with the Office of the General Counsel (OGC). Mr. Cameron discussed the development of a negotiated rulemaking on the submission and management of records and documents related to the licensing of a HLW repository. This rulemaking is currently a joint effort between OGC and NMSS. Mr. Cameron discussed the need for an electronic information management system to handle the large volume of documents anticipated for the licensing of the repository. This licensing support system (LSS) would facilitate the review of relevant information by all parties and greatly reduce the time needed to submit motions and documents for the licensing proceeding. The agency's choice to use negotiated rulemaking was based on a desire to enhance the credibility of the LSS. In essence, the affected parties are called upon to develop a proposed rule which would then be issued by the Commission provided that it does not conflict with the Commission's statutory authority and that there is an adequate rationale provided for the rule.

Mr. Cameron discussed the current status of this activity. Several comments were received on the December 18, 1986 notice of intent to undertake the rulemaking; the Conservation Foundation, hired as the convenor, contacted the commenters and other affected parties to assess their willingness to participate in the negotiation. The Conservation Foundation recommended that the NRC proceed with this activity, and invitations are being sent to the

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potential participants. The negotiating sessions are expected to begin in September 1987 and continue for nine months. Howard Bellman will be the facilitator for the negotiations.

Avi Bender provided a presentation on the technological aspects of the licensing support system. He elaborated on the need for such a system to help reduce delays in the licensing proceeding and noted that this system would also help the NRC technical staff with their day-to-day activities.

He provided a status report on NRC efforts for developing a Transitional Licensing Support System (TLSS). The purpose of developing the TLSS is two fold. It is intended to provide an interim approach for the electronic capture and distribution of NRC's HLW records and for demonstrating advanced text management concepts which could be applied to DOE's proposed development of the LSS.

The ultimate system is expected to provide access to all documents in accordance with requirements established through the negotiated rulemaking process (as discussed above). Mr. Bender described new innovations in text and image management being explored by the NRC in the interim. This experience is being made available to DOE for possible use in DOE's development of the LSS. Mr. Bender invited the attendees to view a demonstration of the prototype system.

The next speaker was James Kennedy, Section Leader for Quality Assurance, HLWM, who described the NRC staff's first audit in the DOE HLW repository program. The audit was conducted at Los Alamos National Laboratory (LANL) June 8-12, 1987 and examined the quality assurance measures applied to the mineralogy/petrology studies. These laboratory investigations are producing data which will be used to help resolve issues associated with the geochemistry aspects at the Yucca Mountain, Nevada site. The NRC audit team identified several areas where improvements are needed to ensure the QA program is fully in place.

Additional audits of the DOE program are planned. The hydrologic testing at BWIP is expected to be ready for NRC audit in the last quarter of 1987, and several areas within the Salt project are now ready and will be audited after BWIP.

Another NRC speaker, Linda Riddle, presented information concerning changes to the NRC Quality Assurance (QA) Review Plan which will be incorporated in the draft revision in the fall of 1987. She summarized the purpose of the review plan, the contents of the 1984 edition of the Review Plan, the rationale for the 1987 revision, and the proposed changes to the 1987 draft revision.

The purpose of the QA Review Plan is (1) to provide guidance to DOE, (2) to provide the NRC a means to measure DOE's QA program, and (3) to provide information concerning how the 18 criteria of Appendix B will be applied to the repository program. The 1984 edition of the QA Review Plan consists of two

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parts: the "game plan" and Appendix A. The game plan identifies several methods by which the NRC will evaluate DOE's QA program, including audits and readiness reviews, and identifies the information that the NRC will need from DOE to review their program, such as their QA plans. Ms. Riddle reported that the 1987 revision was undertaken in order to incorporate findings of the Ford Study, which was issued at the same time as the Review Plan, and to incorporate changes based on three years of use.

Ms. Riddle indicated that changes will primarily be in Appendix A of the Review Plan. These changes would include incorporating lessons learned from the Ford Study, such as technical team audits and readiness reviews; endorsing all or part of NQA-1, the industry standard for quality assurance; incorporating guidance for good laboratory practice; and incorporating suggestions from DOE and NRC staff, as appropriate.

Ms. Riddle concluded by indicating that the Proposed Draft Revision would be noticed in the Federal Register in the fall of 1987.

The last NRC speaker was Robert MacDougall, who detailed NRC's activities for involving affected states and Indian tribes in the NRC's review of DOE's site characterization plans (SCPs). Mr. MacDougall noted that 10 CFR Part 60 provides for the participation of the states and tribes.

NRC will be preparing site characterization analyses (SCAs) of DOE's SCPs and will solicit comments, although a formal comment analysis will not be prepared. Once NRC receives an SCP, the receipt will be noticed in the Federal Register and copies of the notice will be sent to the governor and the legislature of each state in which the DOE is going to be characterizing a site, and to the affected Indian tribes. Within a month after receipt of an SCP, NRC will contact the host state and affected Indian tribes to determine whether they may be interested in participating in conference calls with NRC technical staff to discuss their initial concerns. These conference calls will focus on areas of interest, i.e., geology, geochemistry, engineering.

Mr. MacDougall also mentioned the possibility of meeting with the states and tribes to discuss issues related to the exploratory shaft and/or meeting with states and tribes to discuss NRC's SCA before finalization and transmittal to DOE.

The remainder of the meeting was devoted to questions and comments from the attendees which will be addressed in a state/tribal issues paper.



ENCLOSURE 2

SIGN-IN SHEET  
2nd ANNUAL NRC MEETING WITH STATES/TRIBES, 6/30/87

| NAME               | AFFILIATION/ADDRESS               | PHONE          |
|--------------------|-----------------------------------|----------------|
| R.C.L. Olson       | WISBY, MD 20657<br>BGOE CCNPP-NEF | (301) 260-4170 |
| D. Hoffman         | Aa Federal                        | 347-3700       |
| Don Provost        | STATE OF WASHINGTON               | 206-459-6718   |
| Jack Parry         | ACRS - NRC                        | (202) 634-1413 |
| Ali Tabatabai      | ACRS Fellow                       | (202) 634-1445 |
| Owen Merrill       | ACRS/NRC                          | (202) 634-1413 |
| Julie M. Jordan    | NUS Corp                          | (301) 258-2562 |
| Muzaffer Kehnemuyi | Battelle                          | (312) 655-8649 |
| A. G. McNeer       | DWM-Virginia                      | (804) 225-2528 |
| P. E. News         | NYS ENCON                         | (518) 457.5915 |
| FX CAMERON         | U.S. NRC                          | 301 4928689    |
| Susan Zimmerman    | TEXAS                             | 512-463-2198   |
| Debra Shuels       | Tennessee                         | 615 741 7812   |

SIGN-IN SHEET  
2nd ANNUAL NRC MEETING WITH STATES/TRIBES, 6/30/87

| NAME             | AFFILIATION/ADDRESS                           | PHONE                     |
|------------------|---|---------------------------|
| BEN L. SMITH     | STATE PLANNING OFFICE<br>STATE OF TENNESSEE   | 615-741-5782              |
| Mark E. Jackson  | Battelle Mem. Inst.                           | 312-655-8656              |
| MAX L POWELL     | USDOE RICHMOND                                | 509-376-5267              |
| R. Browning      | NRC   | 4274069                   |
| D. KUNIHICO      | NRC, R-V                                      | 415 9433714               |
| H. H. ARONSON    | YAKIMA NATION                                 | 303-794-7936              |
| JAMES HOVIS      | YIN   | 809 575-1500              |
| Steve Hart       | CERT  | (303)832-6600             |
| JAMES J. FRILoux | Dept. of Env. Qual.<br>State of La            | (504)925-4518             |
| Johnnie A. Moore | NRC-OPA                                       | (301)492-7715             |
| Ellen Caywood    | WASH. STATE<br>INSTITUTE FOR<br>PUBLIC POLICY | (206)866-6000<br>ext 6454 |
| Barbara Cerny    | D.O.E.  | 202-586-1248              |
| Barbara Foster   | NCSL-Denver                                   | 303-623-7800              |
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SIGN-IN SHEET  
2nd ANNUAL NRC MEETING WITH STATES/TRIBES, 6/30/87

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| Dan Hester             | Fredericks & Peterson<br>1881 9th St. Suite 216<br>Boulder, Co 80302       | (303) 443-1603 |
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| David A. Stewart-Smith | State of OR<br>625 Marion St. NE<br>Salem, OR                              | (503) 378-3187 |
| Jim Davenport.         | St. of Nevada,<br>Carson City,<br>Nev.                                     | 206 754 6004   |
| DAVID STEVENS          | P.O. Box 214<br>Olympia WA 98507   | 206-786-1632   |
| Candy Jackson          | Red River Band<br>P.O. Box 39<br>Odawa, MI 49861                           | (715) 682-8310 |
| WYATT M. ROGERS        | COUNCIL OF ENERGY<br>RESOURCE TRIBES<br>1580 LOGAN ST. Denver, CO 80203    | 303-832-6600   |
| Patricia M'Gee         | EWA, INC.<br>MPLS, MN  | 612-332-0000   |
| G. HUNN                | BATTELLE   | 312-615-8610   |
| Andrew AVEL            | DOE-ORD  | 615 576 0950   |
| JAMES KOHLER           | STATE OF UTAH  | 801-538-5554   |
| Max Power              | Office of Nuclear Waste Mgmt<br>Dept of Ecology, NV-11<br>Olympia WA 98504 | 206-454-6670   |
| Priscilla Attean       | Penobscot Nation<br>6 RIVER RD<br>Indian Island, ME<br>04468               | 207/827/7776   |

SIGN-IN SHEET  
2nd ANNUAL NRC MEETING WITH STATES/TRIBES, 6/30/87

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| RALPH PATT         | OREGON WATER RESOURCES<br>3850 PORTLAND RD<br>SALEM OR 97310                           | 503-378-8456   |
| OWEN THOMPSON      | US DOE<br>Washington DC 20585<br>Rm 224  | 202-586-5003   |
| Wayne Walker       | US NRC<br>MS 55623   | 301-427-4686   |
| Shirley J. Fritter | U.S. NRC   | 301-427-4452   |
| Ron T. Halfmoon    | Nez Perce Tribe<br>Box 305<br>Lapwai ID 83580<br>NP-NWPA                               | 208-843-2253   |
| Kevin Gover        | 1225 Rio Grande Blvd, NW<br>Albuquerque, NM 87104                                      | 505-842-6961   |
| Vina Harrison      | NEZ PERCE TRIBE<br>Box 305 Lapwai, ID  | (208) 843-2253 |
| GARY E. GREENE     | NEZ PERCE TRIBE<br>LAPWAI ID   | " " "          |
| RUSSELL Jim        | mgr. nuclear waste program<br>Yakima Indian Nation<br>P.O. Box 151 Toppenish, WA 98948 | (509) 865-5121 |
| Ann Ratlip         | SAIC<br>1710 Goodridge Dr<br>Mellen VA 22180   | 703-827-4950   |
| Joan Aron          | VPI &<br>NRC   | 362-6718       |
| KEN KALMAN         | NRC<br>HLWM  | (301) 427-4071 |

SIGN-IN SHEET  
2nd ANNUAL NRC MEETING WITH STATES/TRIBES, 6/30/87

| NAME                    | AFFILIATION/ADDRESS                               | PHONE          |
|-------------------------|---|----------------|
| Robert Holsley          | Natl Congress of<br>Am. Indians W. D.C.           | 546-9404       |
| Paul Alexander          | Nez Perce DC                                      | 667-7955       |
| Gail Chehak             | Natl Congress<br>of American Indians DC           | 546-9404       |
| Judy Kany               | state Senate & Adv. Com<br>on Pub. Waste<br>Maine | 207-289-3059   |
| Spiri Ingoth            | Commissioner Archeology                           | 202-634-3308   |
| DR MAX EISENBERG        | STATE OF MD                                       | 301-225-5700   |
| <del>DEL T. WHITE</del> | NEZ PERCE   | (208) 843-2253 |
| Allen V. Brummon        | NEZ PERCE   | 208 843-2253   |
| CLARK PRICHARD          | RES   | 443-7668       |
| Dorrie Plunk            | ADON  | 492-7211       |
| Nancy Montgomery        | UNWMB<br>1111 19th St. NW                         | 778-6513       |
| Joyce Inanta            | NRC   | 492-4091       |
| Nancy Stitt             | NRC   | 427-4664       |

SIGN-IN SHEET  
2nd ANNUAL NRC MEETING WITH STATES/TRIBES, 6/30/87

| NAME            | AFFILIATION/ADDRESS                    | PHONE           |
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| CHARLES HEAD    | DOE/RW-14                              | 202-586-5625    |
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| Joe Socobasin   | PASSANAGUADY Tribe                     | 207-796-2201    |
| Paula Wade      | NRC                                    | 427-4680        |
| Josefa Virgilio | GPA/SLITP                              | 492-9877        |
| Daniel Badory   | Bristol RBC<br>Box 97, North Lake N.H. | 218<br>757-3261 |
| Paul Erdberg    | NRC                                    | 427-4676        |
| L. L. L.        | NRC                                    | 427-4679        |
| Avi Bender      | NRC (301)                              | 427 4483        |
| Phil Altomare   | NRC (301)                              | 427 4550        |
|                 |  |                 |
|                 |  |                 |
|                 |  |                 |

**ENCLOSURE 3**



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NUCLEAR REGULATORY COMMISSION  
OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS  
STATUTORY AUTHORITY AND REGULATORY REQUIREMENTS

Functional statements for each division within NRC's Office of Nuclear Material Safety and Safeguards are enclosed. The statutory authority and regulatory requirements for each division are outlined below.

DIVISION OF HIGH-LEVEL WASTE MANAGEMENT

Statutory Authorities

- o Atomic Energy Act of 1954, as amended
  - o Established general framework of NRC licensing procedures
  - o Provided licensing exemption for Atomic Energy Commission (now DOE) facilities
- o Energy Reorganization Act of 1974
  - o Atomic Energy Commission functions split
    - o DOE responsible for developmental/promotional functions
    - o NRC responsible for licensing/regulatory functions
  - o Section 202(3) and (4) provide NRC licensing authority for repository or other HLW disposal facilities
- o Nuclear Waste Policy Act of 1982 (NWPA)
  - o Confirmed NRC licensing responsibility established by the Energy Reorganization Act
  - o Required NRC to concur in DOE's site selection guidelines
  - o Directed NRC to develop technical requirements/criteria for the construction, operation, and closure of repositories. Also requires NRC regulations to be consistent with EPA standards.
  - o Authorized NRC to define HLW
  - o Requires NRC to coordinate with DOE in the development of the Mission Plan and the Project Decision Schedule
  - o Requires NRC to provide states/tribes with timely and complete information regarding determinations or plans made with respect to site characterization siting, development, design, licensing, construction, operation, regulation, or decommissioning.
  - o Requires NRC to review/comment on DOE's Site Characterization Plan
  - o Requires NRC to review/comment on DOE's Draft Environmental Impact Statement (EIS) and directs NRC to adopt DOE's EIS "to the extent practicable"
  - o Requires NRC to review DOE's licensing application and issue a decision on the construction authorization within 3-4 years after license application is submitted

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- o National Environmental Policy Act of 1969
  - o Section 102(2)(C) requires federal agencies to prepare an EIS for any major federal action significantly affecting the environment
  - o Normally requires NRC to prepare an EIS in advance of a Commission decision for construction authorization and license to operate
  - o NHPA, Section 114(F), directs NRC to adopt DOE's EIS "to the extent practicable"

#### Regulations to Implement Statutory Authorities

- o NRC Regulations
  - o Chapter 10, Code of Federal Regulations (CFR), Part 60, Disposal of HLW in Geologic Repositories
  - o 10 CFR Part 50, Appendix B; Part 60 incorporates by reference quality assurance criteria for nuclear power plants
- o Other Pertinent Regulations
  - o 10 CFR Part 960, DOE Siting Guidelines
  - o 40 CFR Part 191, EPA HLW Standard
- o Ongoing NRC rulemakings
  - o 10 CFR Part 60 amendments
    - o Definition of HLW
    - o Conforming amendments related to EPA Standards
  - o 10 CFR Part 51, Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions; amendments related to adoption of DOE EIS pursuant to NHPA
  - o 10 CFR Part 2, Rules of Practice for Domestic Licensing Proceedings; amendments related to licensing support system and discovery for HLW licensing proceedings

#### DIVISION OF SAFEGUARDS AND TRANSPORTATION

##### Transportation Program

##### Statutory Authorities

- o Atomic Energy Act of 1954, as amended
- o Energy Reorganization Act of 1974
  - o Section 204(b)(1) delegated to NMSS Director principal licensing/regulation involving the transportation of nuclear materials
- o NRC Authorization Act for FY 1976
  - o Section 201(5) places additional restrictions on the air shipment of plutonium
- o NRC Authorization Act for FY 1986

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- o Requires advanced notification to states of certain radioactive material shipments

#### Regulations to Implement Statutory Authorities

- o 10 CFR Part 71, Packaging and Transportation of Radioactive Material
  - o Establishes requirements for packaging/transportation of radioactive materials
  - o Subparts D, E, and F set forth procedures/standards for NRC approval of packaging and shipping procedures for fissile material and for greater than Type A quantities
  - o Subpart G establishes operating controls and procedures
  - o Subpart H defines quality assurance requirements

#### Safeguards Program

##### Statutory Authorities

- o Atomic Energy Act of 1954, as amended
  - o Section 147 prohibits unauthorized disclosure of site-specific safeguards information
- o Energy Reorganization Act of 1974
  - o Section 204(b)(2)(B) provides NRC authority for maintenance of safeguards against threats, thefts, and sabotage of licensed facilities and materials
- o Nuclear Waste Policy Act of 1982
  - o Section 141 establishes licensing requirements for monitored retrievable storage
  - o Section 133 provides the basis for rulemaking to enable use of dry spent fuel storage casks without site-specific licensing reviews
- o Nuclear Non-Proliferation Act of 1978
- o Convention on the Physical Protection of Nuclear Material Implementation Act of 1982

##### Regulations to Implement Statutory Authorities

- o Structured to assure licensees' safeguards system can adequately protect against nuclear theft and/or radiological sabotage
- o Determined by the amounts/types of nuclear material in licensees' possession
- o 10 CFR Parts
  - o 11 - Criteria and Procedures for Determining Eligibility for Access to or Control Over Special Nuclear Material
  - o 25 - Access Authorization for Licensee Personnel

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- o 50 - Domestic Licensing of Production and Utilization Facilities (enrichment and reprocessing)
- o 70 - Domestic Licensing of Special Nuclear Material
- o 72 - Licensing Requirements for Storage of Spent Fuel in an Independent Spent Fuel Storage Installation (ISFSI)
- o 73 - Physical Protection of Plants and Materials
- o 74 - Material Control and Accounting of Special Nuclear Material
- o 75 - Safeguards on Nuclear Material--Implementation of US/IAEA Agreement
- o 110- Export and Import of Nuclear Equipment and Material

#### DIVISION OF FUEL CYCLE, MEDICAL, ACADEMIC, AND COMMERCIAL USE SAFETY

##### Statutory Authorities

- o Atomic Energy Act of 1954, as amended
- o National Environmental Policy Act of 1969 (NEPA)
- o Energy Reorganization Act of 1974
- o Nuclear Waste Policy Act of 1982
  - o Section 132 - Available Capacity for Interim Storage of Spent Nuclear Fuel
  - o Section 133 - Interim At-Reactor Storage
  - o Section 141 - Monitored Retrievable Storage
  - o Section 151(c) - Financial Arrangements for Site Closure, Special Sites
  - o Section 218 - R&D on Spent Nuclear Fuel
- o West Valley Demonstration Project Act of 1980
  - o Establish agreement with DOE for NRC review and consultation (MOU established)
  - o Review/comment on DOE Project Plan
  - o Provide consultation on the HLW form and disposal container
  - o Receive safety analysis reports and other information and review for public health and safety
  - o Have access to the site to monitor activities for public health and safety
  - o Prescribe requirements for decommissioning and decontamination of facilities, hardware, and materials used by the project in the solidification of waste

##### Regulations to Implement Statutory Authorities

- o 10 CFR Parts
  - o 20 - Standards for Protection Against Radiation
  - o 30 - Rules of General Applicability to Domestic Licensing of Byproduct Material
  - o 32 - Specific Domestic Licenses to Manufacture or Transfer

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- Certain Items Containing Byproduct Material
- o 33 - Specific Domestic Licenses of Broad Scope for Byproduct Material
- o 35 - Medical Use of Byproduct Material
- o 40 - Domestic Licensing of Source Material
- o 50 - Domestic Licensing of Production and Utilization Facilities
- o 51 - Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions
- o 70 - Domestic Licensing of Special Nuclear Material
- o 72 - Licensing Requirements for the Storage of Spent Fuel in an Independent Spent Fuel Storage Installation (ISFSI)
- o 140- Financial Protection Requirements and Indemnity Agreements
- o 150- Exemptions and Continued Regulatory Authority in Agreement States and in Offshore Waters Under Section 274
- o 170- License Fees

#### DIVISION of LOW-LEVEL WASTE MANAGEMENT AND DECOMMISSIONING

##### Statutory Authorities

- o Atomic Energy Act of 1954, as amended
- o National Environmental Policy Act of 1969 (NEPA)
- o Energy Reorganization Act of 1974
- o Nuclear Waste Policy Act of 1982, Section 151
  - o Ensure financial requirements for site closure decontamination and decommissioning
  - o Ensure proper site transfer to DOE
- o West Valley Demonstration Project Act of 1980 (WVDPA)
- o Low-Level Radioactive Waste Policy Act of 1980 (LLRWPA)
- o Low-Level Radioactive Waste Policy Amendments Act of 1985 (LLRWPAAs)
  - o Section 2, Waste Classification
  - o Section 3, Greater Than Class C Waste
  - o Section 6, Emergency Access
  - o Section 8, Alternative Disposal Methods
  - o Section 9, Establishment of a Licensing Review Capability
  - o Section 10, Waste Below Regulatory Concern

##### Regulations to Implement Statutory Authorities

- o Specific 10 CFR Parts
  - o 61 - Licensing Requirements for Land Disposal of Radioactive Waste
  - o 20.302 - Approval of Proposed Disposal Procedures (on-site disposal)
  - o 20.311 - Transfer for Disposal and Manifests

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o Other Regulations

- o 20 - Radiation Protection Standards
- o 30 - Byproduct Material Licensing
- o 40 - Source Material Licensing
- o 51 - Environmental Protection Regulations for Domestic Licensing  
and Related Regulatory Functions
- o 70 - Special Nuclear Material Licensing

# U.S. NUCLEAR REGULATORY COMMISSION

## ORGANIZATION CHART

### OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

The Office of Nuclear Material Safety and Safeguards (NMSS) is responsible for the public health and safety licensing, inspection, and environmental reviews for all activities regulated by the Nuclear Regulatory Commission (NRC), except reactors, and for the safeguards technical review of all licensing activities, including export/import of special nuclear material, but excluding reactors. The Office responsibilities include development and implementation of NRC policy for the regulation of activities involving safety, quality, approval and inspection of the use and handling of nuclear and other radioactive materials, such as uranium recovery activities; fuel fabrication and fuel development; medical, industrial, academic and commercial uses of radioactive isotopes; safeguards activities; transportation of nuclear materials, including certification of transport containers; out-of-reactor spent fuel storage; safe management and disposal of low-level and high-level radioactive wastes; and management of related decommissioning. Safeguards responsibilities include development of overall agency policy, monitoring and assessment of the threat environment including liaison with intelligence agencies as appropriate, and those licensing and review activities appropriate to deter and protect against threats of radiological sabotage and threats of theft or diversion of special nuclear material at fuel facilities and during transport. The Office identifies and takes action to control safety and safeguards issues for activities under its responsibility, including consulting and coordinating with international, Federal, State and local agencies, as appropriate.

Director  
Deputy Director

Hugh L. Thompson  
**Robert Bernero**

### PROGRAM MANAGEMENT, POLICY DEVELOPMENT, AND ANALYSIS STAFF

Provides focus and management attention on major office programs and issues. Assists in the development of office policy and conducts independent review of staff developed programs which require policy decisions by the Office Director. Oversees high visibility emergency actions to assure adequacy, promptness, completeness and fulfillment of Office statutory responsibilities; tracks and coordinates special projects designated by the Office Director. Provides independent technical review of all office initiated policy papers and issues to assure completeness, promptness, accuracy and adherence to Agency and office policy. Represents the Office in conducting intra- and interagency special projects. Provides office quality assurance and consistency in responses to external reports and correspondence, and in interaction with other Agencies. Oversees the development and coordination of Congressional testimony and Commission papers. Conducts analyses and projects either self-initiated or requested by the Office Director. Establishes priorities, schedules and resource allocations; performs resource forecasting, strategic and short-range program planning, budget preparation and coordination, and program control. Provides administrative and management support, including personnel management, management studies, management directives, personnel development and training, correspondence and action item control.

Director (Acting) **E. Ten Eyck** ~~John M. Roe~~

### DIVISION OF SAFEGUARDS AND TRANSPORTATION

(See Page 30)

### DIVISION OF FUEL CYCLE, MEDICAL, ACADEMIC AND COMMERCIAL USE SAFETY

(See Page 31)

### DIVISION OF HIGH-LEVEL WASTE MANAGEMENT

(See Page 32)

### DIVISION OF LOW-LEVEL WASTE MANAGEMENT AND DECOMMISSIONING

(See Page 33)

### Program Analysis Branch

Manages NMSS strategic planning and short-range program planning and budget preparation; develops and maintains data and reports on the schedules and status of all NMSS projects and tasks; evaluates and reports upon the NMSS performance of projects and tasks to assure compliance with established NRC policies, goals and objectives; provides independent review of all office initiated policy papers and issues to assure completeness, promptness, accuracy, consistency, and adherence to Agency and Office policy. Maintains NMSS financial plans and certifies the availability of funds from the NMSS allotment; prepares Requests for Procurement Action and prepares and negotiates Standard Order for DOE work, and develops and implements NMSS policies and procedures for the development and maintenance of automated management information systems.

Chief (Acting) **Vacant** ~~John M. Bernero~~

### Program Implementation

#### Management Analysis Branch

Manages NMSS personnel programs and resources through long- and short-range studies and planning; provides continuing evaluation of NMSS management effectiveness and makes recommendations on management matters, organizational structure and staffing. Reviews and analyzes new NRC administrative management policy proposals and proposed modifications to existing NRC administrative management policy, and assesses the impact on NMSS for the Office Director. Develops office policy that relates to administrative management; prepares guidance documents for NMSS; develops and implements procedures and models for analyzing, projecting, and reporting staff expenditures; manages the NMSS personnel development and training function. Controls and coordinates NMSS principal correspondence; coordinates space and property management facilities support.

Chief (Acting) **George G. Beveridge**

### Special Issues Branch Directorate

Continuously reviews office activities to assist in focusing management attention and resources on appropriate issues. Provides oversight of selected projects (e.g., Sequoyah) which require special attention by the Office Director and facilitates reporting and tracking of such high-visibility agency activities assigned to NMSS.

Director **Willard B. Brown**  
Assistant Director **George E. Lear**

# U.S. NUCLEAR REGULATORY COMMISSION

## ORGANIZATION CHART

### DIVISION OF HIGH-LEVEL WASTE MANAGEMENT

Develops and manages the Agency's program for the licensing, inspection, and regulation of the DOE high-level waste (HLW) repository program. Provides lead for all Agency activities under the Nuclear Waste Policy Act (NWPA) of 1982 and describes scope and activities for the Agency to achieve goals and schedules under the NWPA. Develops, implements and evaluates safety and environmental policies relative to the HLW program including programs for licensing, inspection and quality assurance. Develops and implements a program of early, active, and continuing interface, including prelicensing interface, with DOE and other entities--federal, state, Indian tribes--to assure an ongoing understanding of the DOE repository program and early identification of regulatory concerns and issues within the program. Develops a program to enhance the ability of NRC to reach the statutory deadline of three years for construction permit decision. Develops technical and procedural guidance to ensure program focus on important regulatory matters. Coordinates on research to insure regulatory program commitments are achieved. Reviews and comments on DOE documents, plans, and programs as they are developed. Represents the Agency in international HLW activities. Provides guidance for Regional activities relating to the HLW repository program. Identifies and takes action to control safety issues under its responsibility. Authorities include the Atomic Energy Act of 1954, as amended; the Energy Reorganization Act of 1974; the National Environmental Policy Act of 1969; and the Nuclear Waste Policy Act of 1982.

Director  
Deputy Director

Robert E. Browning  
Michael J. Bell

### Operations Branch

Serves as focal point for implementation of the High Level Waste (HLW) Program. Conducts safety, environmental, and quality assurance reviews of pre-licensing and licensing activities for the HLW repository. Develops quality assurance guidance as necessary to assure compliance with regulations. Manages the inspection and audits of repository related activities to assure compliance with regulations and guidance. Manages implementation of the NRC and DOE procedural agreement governing pre-licensing consultation and provides project management for site teams to maintain cognizance of DOE's repository technical programs. Manages technical assistance projects, as appropriate. Identifies and takes action to control safety issues under the Division's responsibility.

Chief (Acting) **B.J. Youngblood** *John A. Linton*

### Technical Review Branch

Serves as the focal point for technical evaluation and assessment activities and as the center for technical expertise for matters related to the High Level Waste (HLW) repository program. Develops technical evaluation and assessment methodologies and codes to determine compliance with 10 CFR Part 60 and other regulatory requirements. (Evaluation addresses geology, hydrology, geochemistry, engineering and materials science.) Performs technical review of documents within NRC and from other agencies for technical adequacy and responsiveness to requirements including the identification of specific technical information required for DOE to demonstrate compliance with regulatory requirements and specific acceptable strategies or methodologies to demonstrate compliance. Provides technical interaction with Federal agencies, states, Indian Tribes, and international organizations as appropriate. Provides guidance for Regional activities relating to the HLW repository program to clarify technical positions and resolve issues, as appropriate. Identifies research requirements necessary to provide technical basis for regulatory development and implementation. Reviews rules and standards to assure program internal technical consistency and to assure technical completeness and accuracy and that they satisfy program needs. Reviews NWPA submissions for technical adequacy, including environmental assessments, site characterization plans, and other relevant pre-licensing and licensing documents. Serves on site teams to maintain cognizance of DOE's repository technical programs. Manages technical assistance projects as appropriate.

Chief **Ronald L. Ballard**

### Systems Engineering and Evaluation Branch

Serves as focal point for planning, policy analyses, and systems engineering activities for NRC's high level waste regulatory program under NWPA. Develops safety and environmental policy for the HLW program to assure coherent direction and focus for licensing, inspection, quality assurance and other regulatory activities. Provides the necessary systems engineering program architecture and integrated technical and procedural guidance to focus the program on important elements and to execute the NWPA plans and program in an effective, integrated manner. Provides the necessary planning and direction to enable meeting statutory schedules and milestones such as the three year construction permit decision. Implements an active interface program, including pre-licensing, with federal, state, Indian Tribes and other entities to assure ongoing understanding of the repository program and to identify and resolve concerns in a timely manner. Conducts quality assurance reviews to ensure that all essential elements of the program are being addressed in a timely and appropriate manner and that results produced are consistent with policy and systems architecture.

Chief **Joseph O. Bunting**



# U.S. NUCLEAR REGULATORY COMMISSION

## ORGANIZATION CHART

### DIVISION OF SAFEGUARDS AND TRANSPORTATION

Develops overall agency safeguards policy and conducts safeguards licensing, inspection, and regulatory functions applicable to nuclear materials, nonreactor facilities, transportation of nuclear materials, and nonreactor inspection activities licensed under the Atomic Energy Act of 1954, as amended. Develops, implements, and evaluates safeguards policies and the overall NRC safeguards program including monitoring, functions preliminary to rule and guidance development, testing, inspection and quality assurance activities, and recommending improvements for physical security and nuclear material control and accountability systems. Reviews protection afforded weapons usable material in the license and license-exempt sectors to maintain comparability. Formulates transportation safety and transportation safeguards policy for the Agency. Serves as the Agency lead in transportation activities and performs and manages safety analyses and appraisals of containers under Agency jurisdiction. Develops policy and develops guidance for inspection and quality assurance programs for transportation. Assesses threat to domestic environment affecting all NRC licensed activities and reviews adequacy of the design basis threat based on safeguards events and intelligence information. Analyzes and evaluates domestic and foreign events and incidents to detect patterns and trends and provide a basis for regulatory change and response. Supports NRC contingency and response operations for dealing with threats, thefts, and radiological sabotage relating to licensed activities. Coordinates with NRR to assure consistency in the implementation of Agency SG program for reactors. Identifies and takes action to control safeguards and safety issues under its responsibility. Reviews the technical aspects of all international safeguards and physical protection aspects of export/import licensing and retransfer requests, coordinates implementation of the US/IAEA Safeguards Agreement, and participates in U.S. efforts to strengthen IAEA safeguards.

Director  
Deputy Director

Robert F. Burnett  
Elizabeth Q. Ten Eyck

### Operations Branch

Reviews programmatic activities and develops technical and policy options and policy statements for physical security of nuclear materials in fuel facilities and during transport and for control and accountability of nuclear materials during processing and storage. Identifies and takes action to control safety and safeguards issues under the Division's responsibility. Develops, implements, and evaluates Agency safeguards and transportation safety inspection and quality assurance policies. Develops, maintains and coordinates inspection and quality assurance programs for physical security, MC&A and transportation safeguards, as well as for transportation safety. Provides guidance, maintains oversight and conducts program reviews of regionalized licensing and non-reactor safeguards and transportation safety and inspection activities. Develops and issues Information Notices and Bulletins. Analyzes and evaluates domestic and foreign events and incidents to detect patterns and trends and provide a basis for regulatory change and response. Reviews inspection and evaluation reports to identify Agency safeguards non-reactor issues. Assesses threat environment affecting licensed nuclear activities based on safeguards events and intelligence information. Plans, coordinates and manages NRC's contingency and response activities dealing with safeguards events at non-reactor facilities and during transportation and safety events related to transportation. Coordinates with NRR to assure consistency in safeguards licensing and inspection policies.

Chief

George W. McCorkle

### Licensing Branch

Conducts safeguards technical and regulatory reviews related to nuclear material, fresh fuel, nuclear fuel facilities, and independent spent fuel storage facilities. Exercises technical oversight to ensure consistency and technical adequacy of non-reactor licensing functions delegated to Regional Offices. Develops licensing criteria in support of new or revised regulations that will be used by license reviewers during the review process. Reviews and analyzes safeguards issues for policy implications. Coordinates requirements for non-reactor safeguards research. Performs functions which are preliminary to safeguards rules and regulatory guidance for NRC safeguards activities. Coordinates to identify safety problems that could result from non-reactor licensee's safeguards plans and procedures. Reviews technical safeguards aspects of export/import licensing and retransfer requests and supports implementation of U.S./IAEA Safeguards Agreement and U.S. efforts to strengthen IAEA safeguards.

Chief (Acting)

E. William Brach

### Transportation Branch

Formulates transportation safety and transportation safeguards policy for the Agency. Serves as Agency lead in transportation activities and performs and manages safety and quality analyses and approvals of containers under Agency jurisdiction. Coordinates with other jurisdictions and agencies and foreign interests on transportation matters. Manages Agency's safety and safeguards programs for transportation of nuclear materials. Conducts safeguards technical and regulatory reviews related to nuclear materials transportation activities. Develops licensing review criteria and licensing positions, and reviews physical security programs. Manages the development and utilization of the materials transfer information system.

Chief

Charles E. MacDonald

# U.S. NUCLEAR REGULATORY COMMISSION

## ORGANIZATION CHART

### DIVISION OF FUEL CYCLE, MEDICAL, ACADEMIC AND COMMERCIAL USE SAFETY

Directs the NRC's principal licensing, inspection, and regulatory activities to assure safety and quality associated with the processing and handling of nuclear materials and involving health physics and radiation and nuclear safety review and analysis of the front-end of the fuel cycle after milling; the use of licensed material in medicine, research, industry, and other purposes; and the back-end of the fuel cycle except for commercial low-level waste disposal and high-level waste disposal. Responsible for the regulation of materials and non-reactor facilities licensed under the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974, as amended. Develops, implements, and evaluates non-reactor facilities and materials policies and the overall NRC nuclear fuel cycle and materials programs. Manages Agency program for "exempt" use of radioactive material and for evaluation of sealed sources and devices. Provides national direction to regional licensing and inspection activities for programs. Provides technical support for training of regional and Agreement State licensing and inspection staff. Provides technical support and guidance to the Regions on licensing and inspection activities, and, upon request, to the Agreement States. Identifies and takes action to control safety issues and directs NRC contingency and response operations dealing with accidents, events and incidents under its responsibility.

Director  
Deputy Director

Richard E. Cunningham  
Glen L. Sjoblom

#### Operations Branch

Provides programmatic control in the material safety and fuel cycle areas. Provides technical and program quality assurance, incident response coordination and training, and emergency preparedness policy for nuclear materials and fuel cycle events. Identifies and takes action to control safety issues under the Division's responsibility. Assesses safety environment stemming from foreign events and developments and implements response. Reviews licensee performance to assist in establishing licensing and inspection priorities and policies and to determine need for Information Notices, Bulletins and rulemaking. Develops and issues Information Notices and Bulletins. Resolves generic problems and policy issues (e.g., uranium toxicity and monitoring). Coordinates with other Federal agencies (e.g., OSHA, EPA, DOE and FEMA) regarding interagency jurisdiction related to responsibilities of the Division. Develops policy and procedures for assessing regional performance of materials and fuel facility licensing and inspection activities. Provides operational computer support functions for the Division (e.g., License Tracking System [LTS], Sealed Source and Device System [SSDS], Service and Training Information System [STIS], General License Data Base [GLDB], and Material Safety Regulatory Improvements [MSRI]).

Chief

John W. M. Hickey

#### Fuel Cycle Safety Branch

Conducts health physics, radiation and nuclear safety, quality, and other appropriate analyses, licensing, and follow-up review of natural uranium conversion plants and production plants, uranium enrichment plants, enriched fuel processing and fabrication plants, chemical reprocessing facilities and advanced fuel fabrication plants. Conducts environmental assessments and prepares environmental impact statements related to licensing actions. Conducts safety and environmental evaluations, licensing, quality assurance, and follow-up review of spent fuel storage installations (outside of reactor basins), including DOE's Monitored Retrievable Storage (MRS) facility. Conducts safety analyses for containers for independent irradiated fuel storage and interim storage of low-level waste at reactor sites. Conducts safety analyses and reviews of DOE activities for the West Valley Demonstration Project. Provides oversight and programmatic direction for the respective program in the Regions related to these activities. Develops and directs implementation of policies and programs for inspection of licensees and others subject to NRC jurisdiction. Reviews Regional fuel cycle licensing and inspection programs for technical adequacy and consistency. Provides technical support for training Regional and Agreement State fuel cycle licensing and inspection staff. Provides technical support and guidance to the Regions on fuel cycle licensing and inspection activities; and upon request to the Agreement States. Reviews programmatic activities and develops technical and policy options for regulations, regulatory guides, and policy statements. Provides technical support for incident and emergency response.

Chief

Leland C. Rouse

#### Medical, Academic and Commercial Use Safety Branch

Conducts health physics, radiation safety and other appropriate analyses, licensing and follow-up review of use of byproduct, medical, academic, industrial and other source, and special nuclear materials, including, as necessary, preparation of environmental assessments and impact statements, determination of quality evaluations of sealed sources and devices, and licensing of exempt distribution of consumer products. Provides oversight and programmatic direction for the respective program in the Regions related to these activities. Develops and directs implementation of policies and programs for inspection of licensees and others subject to NRC jurisdiction. Reviews Regional materials licensing and inspection programs for technical adequacy and consistency. Provides technical support for training of Regional and Agreement State materials licensing and inspection staff. Provides technical support and guidance to the Regions on materials licensing and inspection activities, and, upon request, to the Agreement States. Certifies adequacy of design of sealed sources and devices. Reviews programmatic activities and develops technical and policy options for regulations, regulatory guides, and policy statements. Provides technical support for incident and emergency response.

Chief

Vandy L. Miller

# U.S. NUCLEAR REGULATORY COMMISSION

## ORGANIZATION CHART

### DIVISION OF LOW-LEVEL WASTE MANAGEMENT AND DECOMMISSIONING

Directs the NRC's program for the licensing, inspection, and regulation to assure safety and quality associated with the management, treatment, and commercial disposal of low-level nuclear waste (LLW), uranium recovery (UR) activities including mill tailings management, and related decommissioning. Develops, implements, and evaluates safety and environmental policies and long-range goals for low-level waste, uranium recovery activities, and related decommissioning activities. Identifies and takes action to control safety issues under its responsibility. Interacts with other NRC Offices and international, federal and state organizations and jurisdictions on matters under its cognizance. Coordinates within NRC so that consistent criteria are developed for acceptable LLW disposal, UR activities, and decommissioning practices. Coordinates on research to insure regulatory program commitments are achieved. Represents the agency in international LLW and UR activities; provides guidance for Regional activities relating to LLW disposal, UR activities, and decommissioning; serves as Agency lead for DOE's Remedial Action Plans. Authorities include the Atomic Energy Act of 1954, as amended; the Energy Reorganization Act of 1974; the National Environmental Policy Act of 1969; the Uranium Mill Tailings Radiation Control Act of 1978; the Low Level Radioactive Waste Policy Act of 1980; and the Low Level Radioactive Waste Policy Amendments Act of 1985.

Director  
Deputy Director

Malcolm R. Knapp  
John T. Greeves

### Operations Branch

Serves as NRC focal point for licensing and operational safety activities associated with the management and disposal of LLW and UR activities including mill tailings management and related decommissioning. Plans and directs the program for 1) safety and environmental evaluation of applications for licenses for low level radioactive waste disposal; 2) inspection and quality assurance of existing facilities; 3) maintenance of information on the status of LLW operation, management, and disposal for all NRC licensees and agreement state licensees; 4) NRC's evaluation of and concurrence in the Department of Energy's Remedial Action Plans for cleanup of inactive uranium mill tailings sites and contaminated vicinity properties; and 5) oversight and review of Regional Offices' performance for matters under the Division's cognizance. Identifies and takes action to control safety issues under the Division's responsibility.

Chief (Acting)

Paul Lohaus

### Technical Branch

Directs and manages the program necessary for technical review and evaluation of the acceptability of proposed and operational low level waste disposal, uranium recovery activities, and decommissioning activities with respect to geology, hydrogeology, geochemistry, facility design, engineered barriers, waste form, and packaging. Identifies specific information needs, data-gathering strategies, and methods needed to obtain acceptable licensing, inspection, and enforcement data in these areas. Develops technical evaluation and assessment codes for these areas. Identifies further research and development needs in these areas and serves as Division liaison with the Office of Research in developing and executing programs to fill these needs. Directs technical assistance contracts and consultants in support of the above functions. Prepares technical positions and other guidance documents in these areas. Responsible for the Division's internal quality assurance program.

Chief (Acting) J. Surmeier

### Regulatory Branch

Serves as NRC focal point for all NRC regulatory activities under the Uranium Mill Tailings Radiation Control Act of 1978 and the Low Level Radioactive Waste Policy Amendments Act of 1985 (LLRWPA). Responsible for interagency and international coordination, development of policy and practices and long-range goals, and initiating the development of standards and guides for matters under the Division's cognizance. Plans and directs the program for financial assurance of licensees (other than Price-Anderson) and decommissioning of non-reactor materials licensees.

Chief (Acting)

Michael S. Kearney

**ENCLOSURE 4**



**Department of Energy**  
Washington, DC 20585

DEC 16 1985

Mr. John L. Linehan, Acting Chief  
Repository Projects Branch  
Division of Waste Management  
Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Linehan:

As requested during NRC and OGR staff discussions regarding mini-audits for small, precisely defined areas of work, the following is a listing of suggested areas for mini-audits by the NRC:

**SRPO Project**

- o TBEG - Sample Storage Facility
- o ONWI - Technical Reviews/QA Department
- o PB/PB-KBB- Whole Program
- o PNL - Waste Package Corrosion Laboratory Work
- o ANL - Technical and Peer Review

**WMPO Project**

- o SAIC - Meteorological Monitoring
- o SAIC - Site Characterization Plan
- o LANL - Mineralogy and Petrology
- o LANL - Assignment of QA Levels for the following tasks:

|     |             |                                  |
|-----|-------------|----------------------------------|
| WBS | 1.2.3.4.1.1 | Groundwater Chemistry            |
|     | 1.2.3.4.1.2 | Natural Isotope Chemistry        |
|     | 1.2.3.4.1.3 | Hydrothermal Geochemistry        |
|     | 1.2.3.4.1.4 | Solubility Determination         |
|     | 1.2.3.4.1.5 | Sorption & Precipitation         |
|     | 1.2.3.4.1.6 | Dynamic Transport Process        |
|     | 1.2.3.4.1.7 | Retardation Sensitivity Analysis |
|     | 1.2.3.4.1.8 | Applied Diffusion                |

- o LLNL - Spent Fuel Dissolution Tests, Series III
- o LLNL - Spent Fuel Oxidation Work - Thermogravimetric Analysis and Dry Bath Tests (WBS 1.2.2.3.1)
- o SNL - Assignment of QA Levels for the following tasks:

|     |           |                    |
|-----|-----------|--------------------|
| WBS | 1.2.4.1.2 | Design Basis       |
|     | 1.2.4.3.2 | Surface Facilities |

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|           |                            |
|-----------|----------------------------|
| 1.2.4.3.3 | Shafts/Ramps               |
| 1.2.4.3.4 | Underground Excavations    |
| 1.2.4.3.5 | Underground Services       |
| 1.2.4.4   | Operations & Maintenance   |
| 1.2.3.2.1 | Site Geology               |
| 1.2.1.3.1 | Tuff Data Base             |
| 1.2.1.3.2 | Computer Graphics          |
| 1.2.1.3.3 | Reference Information Base |

It is suggested that you review the areas of work noted above, and select candidates for the initial stage of the NRC mini-audit program. We will be happy to meet with you to discuss these options in more detail or answer any questions you may have.

The DOE/OGR, upon receipt of your preferences for mini-audit topics, will be happy to work with you in arriving at a schedule for the mini-audits. We will provide NRC information that substantiates that a specific area of work is ready for a mini-audit.

During the first quarter of calendar year 1987 the DOE/OGR will provide you with an expanded listing for mini-audits, including specific BWIP project areas of work proposed for mini-audits.

Sincerely,

 RAJPK  
James R. Knight, Director

Siting, Licensing & Quality  
Assurance Division, Office of  
Civilian Radioactive Waste Management

**ENCLOSURE 5**