



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
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Kennedy

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April 2, 1992

MEMORANDUM FOR: Richard L. Bangart, *Director*
Division of Low Level Waste Management
and Decommissioning
Office of Nuclear Materials Safety and Safeguards

FROM: Charles E. Norelius, Director
Division of Radiation Safety and Safeguards
Region III

SUBJECT: REQUEST FOR ASSISTANCE IN FULFILLING STAFF
REQUIREMENTS MEMORANDUM ADDRESSING STORAGE OF LOW-
LEVEL RADIOACTIVE WASTE

Reference: Memo from R. L. Bangart to C. J. Paperiello dated
2/24/92, same subject

In the referenced memorandum, you requested that we provide information regarding: (1) the identity of Region III licensees who have requested a license or license amendment before March 1, 1992, authorizing storage of low-level waste; (2) the number of those requests that have been granted; and (3) the adequacy of guidance on licensing requirements for low-level waste storage.

Regarding reactor licensees, we do not anticipate that any of our licensees for power or non-power reactors will submit an amendment request for authorization of interim storage of low-level waste. We anticipate that the licensees will handle these facility changes under the 10 CFR 50.59 evaluation process. Regional inspectors normally review 10 CFR 50.59 evaluations for adequacy; however, we are concerned that there have not been clearly articulated minimum standards for low-level waste storage facility design. Two generic letters (GL 81-38 and GL 85-14) have provided non-binding guidance on this matter.

We recommend that minimum facility design specifications be established and communicated to the licensees. Those specifications and corresponding inspection guidance should be incorporated into the NRC Inspection Manual to facilitate regional review of these issues. Another alternative is that each facility design could be submitted to NRR/NMSS for technical review. We believe that this approach could be arduous and result in untimely reviews. Regardless of the approach, thorough review of these facility designs represent a significant workload and should be factored into the budget process. Enclosed for your information is a summary of power reactor low-level radioactive waste on site storage capacity (Enclosure 1) and non-power reactor low-level

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waste generation and storage issues (Enclosure 2). If you have any questions regarding reactor waste issues, please contact Robert Greger (388-5644) or Charles Gill (388-5261).

Regarding materials licensees, we have received seven applications for amendment to authorize interim low-level waste storage (Enclosure 3). Six of those applications have been approved and the seventh review is scheduled to be approved in April 1992. Adequate guidance for submitting and reviewing these actions is contained in Information Notice 90-09 and Policy and Guidance Directive FC 90-03. The Licensing Tracking System (LTS) has recently been modified with four fields addressing various waste storage issues including interim storage and decay in storage. That information is accessible in headquarters at any time. If you have any questions regarding the data we enter into the LTS, please contact Mike McCann (388-5741) or Marcia Pearson (388-5605).

Charles E. Nordman

Charles E. Norelius, Director
Division of Radiation Safety
and Safeguards

Enclosures: As stated

cc w/encl:

W. F. Kane, RI
J. L. Milhoan, RII
C. J. Paperiello, RIII
J. M. Montgomery, RIV
B. Faulkenberry, RV
J. G. Partlow, NRR
R. E. Cunningham, NMSS

ENCLOSURE 1

LOW-LEVEL WASTE STORAGE AT REGION III POWER REACTORS

| | |
|----------------|--|
| BIG ROCK POINT | HAVE IRSF**, STORAGE UNTIL 1995 |
| BRAIDWOOD | NO IRSF PLANNED, STORAGE FOR 3-5 YEARS |
| BYRON | NO IRSF PLANNED, STORAGE FOR 3-5 YEARS |
| CALLAWAY | NO IRSF PLANNED, STORAGE FOR 3 YEARS |
| CLINTON | PLAN TO HAVE 5-YEAR IRSF READY BY 1/93 |
| D.C. COOK | IRSF COMPLETION BY 4/92 |
| DAVIS BESSE | HAVE IRSF, STORAGE FOR 5 YEARS |
| DRESDEN | HAVE IRSF, STORAGE FOR 3 YEARS |
| DUANE ARNOLD | HAVE 5-YR IRSF |
| FERMI | HAVE 5-YR IRSF |
| KEWAUNEE | IRSF COMPLETION BY 9/92 |
| LASALLE | IRSF COMPLETION BY 1/93 |
| MONTICELLO | NO IRSF PLANNED, STORAGE FOR 3 YEARS |
| PALISADES | IRSF PLANNED |
| PERRY | IRSF COMPLETION BY 1/93 |
| POINT BEACH | NO IRSF PLANNED, STORAGE FOR 3-5 YEARS |
| PRAIRIE ISLAND | NO IRSF PLANNED, STORAGE FOR 5 YEARS |
| QUAD CITIES | IRSF BUILT, BUT NOT OPERATIONAL |
| ZION | IRSF BUILT, BUT AS YET UNUSED |

** INTERIM RADWASTE STORAGE FACILITY

ENCLOSURE 2

LOW-LEVEL WASTE STORAGE AT REGION III NON-POWER REACTORS

| | |
|-------------------------------------|---|
| U OF MI FORD REACTOR | CLAIM 5-YR CAPACITY |
| U OF MO (COLUMBIA) | AFTER 1/1/93 MURR WILL STORE LLW ON CAMPUS (CAPACITY NOT CURRENTLY KNOWN) |
| DOW TRIGA REACTOR (MIDLAND, MI) | ONLY 1 55-GAL DRUM GENERATED PER YEAR (NO CAPACITY PROBLEM) |
| U OF IL ADVANCED TRIGA AND LOPRA | LITTLE LLW, NO STORAGE PROBLEM |
| OHIO STATE UNIVERSITY | LITTLE LLW, NO STORAGE PROBLEM |
| PURDUE UNIVERSITY | LITTLE LLW, NO STORAGE PROBLEM |
| U OF WI | LITTLE LLW, NO STORAGE PROBLEM |
| U OF MO (ROLLA) | LITTLE LLW, NO STORAGE PROBLEM |
| FERMI I | DEACTIVATED (CLASS III), NO LLW |
| NASA (PLUM BROOK) | DEACTIVATED (CLASS III), NO LLW |
| NASA (MURR) | DEACTIVATED (CLASS III), NO LLW |

ENCLOSURE 3

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INTERIM WASTE STORAGE AT MATERIALS LICENSEES

| <u>LICENSEE</u> | <u>LICENSE NO.</u> | <u>DATE REQUESTED</u> | <u>DATE ISSUED</u> |
|----------------------------|--------------------|-----------------------|--------------------|
| CASE WESTERN RESERVE U. | 34-00738-04 | 7/31/91 | 9/23/91 |
| CENTRAL MI U. | 21-01432-02 | 6/25/91 | 1/23/92 |
| DOW CHEM. CO. | 21-00265-06 | 11/15/90 | 3/15/91 |
| DOW CORNING CORP. | 21-08362-08 | 8/1/91 | 3/10/92 |
| PARKE-DAVIS & CO. | 21-01443-06 | 2/24/92 | 3/6/92 |
| WAYNE STATE U. | 21-00741-08 | 4/3/91 | 5/7/91 |
| ST. JOHN HOSP. | 21-03210-01 | 2/4/92 | PENDING (4/92) |

Notes