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June 28, 1979

NRC Research and Technical  
Assistance Report

Mr. W. J. Dircks, Director  
Office of Nuclear Material  
Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
7915 Eastern Avenue  
Silver Spring, Maryland 20910

Dear Mr. Dircks:

Enclosed is the monthly progress report for May 1979 for the project "Evaluation of Docket Files for Terminated Licenses" (FIN A9085-7).

Sincerely yours,

A handwritten signature in cursive script, appearing to read "P. S. Rohwer".

Paul S. Rohwer, Head  
Technology Assessments Section  
Health and Safety Research Division

PSR:HWD:md

Enclosure

NRC Research and Technical  
Assistance Report

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INTERIM REPORT

ACCESSION NO. \_\_\_\_\_  
ORNI / HASRD-39

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Evaluation of Docket Files of  
Terminated Licenses

Subject of this Document:

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Type of Document:

Monthly Progress Report

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NRC Research and Technical  
Assistance Report

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Responsible NRC Individual and NRC  
Office or Division:

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Fuel Processing and Fabrication Branch  
Office of Nuclear Material Safety  
and Safeguards

This document was prepared primarily for preliminary or internal use. It has not received full review and approval. Since there may be substantive changes, this document should not be considered final.

Prepared for  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555  
Under Interagency Agreement(s) DOE #40-549-75  
NRC FIN No. A9085-7

\*Oak Ridge National Laboratory  
Oak Ridge, Tennessee 37830  
operated by  
Union Carbide Corporation  
for the  
Department of Energy

INTERIM REPORT

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MONTHLY PROGRESS REPORT  
FOR MAY 1979

EVALUATION OF DOCKET FILES OF TERMINATED LICENSES  
(189 No. A9085-7)

PRINCIPAL SCIENTISTS: C. F. Holoway, P. M. Lantz, H. W. Dickson

OBJECTIVES:

The technical objective of this project is to review terminated licenses in the Nuclear Regulatory Commission (NRC) Docket File System, extract pertinent data, create a computer file of these data and identify which previously licensed sites potentially could constitute residual radiological safety hazards.

MAJOR ACCOMPLISHMENTS:

After adjustment for duplication, the final number of records in the computerized Part 70 file is 670, corresponding to a like number of docket records. They are now retrievable from the permanent computer file by any authorized remote terminal. The number of group-analyzed records now retrievable from the Part 70 computer file has increased from nineteen as of last month to 66 as of this month. Sixty-nine remain to be group-analyzed in June. The final count of questionable Part 70 dockets will be about 135. In other words, about 21% of the 670 Part 70 docket folders involve questionable sites, but since several dockets may involve the same site, the actual number of sites will be fewer. Questionable dockets are those that were initially categorized as No or Uncertain (Un) by an individual analyst. It is estimated that the final number of questionable records for Part 70 will not exceed 70. To the extent (1) that more than one docket may be assigned a given site, and (2) that some of these sites were already flagged as questionable from Part 40 analyses, the final number of questionable sites in need of follow-up will be significantly less than 70. From the 66 questionable records which have been group-analyzed the category distribution in Table 1 was derived.

Table 1. Group-analyzed dockets as of May (computer-retrievable)

Category	Records
2No	4
1No	9
2Un	10
1Un	6
2OK	14
1OK	23
Total	66

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In other words, 56% of the 66 records categorized as questionable by individual analysts were cleared by the group-analysis procedure.

Although 66 questionable records are retrievable from the permanent computer file as of May, 80 were actually group-analyzed, and the following companies found involved with the questionable sites remaining after group-analysis:

Table 2. Licensees associated with questionable sites (dockets)

Docket No.	Licensee
70-0445	General Electric Co.
-0599	Dept. of Army; Material Research Agency
-0555	Vitro Corp.
-0795	Babcock and Wilcox Co.
-0765	General Electric Co.
-0814	Coors Porcelain Co.
-0932	Ebasco Services Inc.
-0937	Yankee Atomic Electric Co.
-0914	General Nuclear Inc.
-0759	Radiological Services; Englehard Industries
-0761	Westinghouse Co.
-0026	Westinghouse Co.
-0055	General Electric Co.
-0175	Babcock and Wilcox Co.
-0204	General Electric Co.
-0977	Reactive Metals Inc.; Bridgeport Brass; National Lead
-0097	Pratt Whitney Aircraft
-1134	NUMEC; ARCO
-0014	Glen L. Martin Co.
-0224	Carborundum Co.
-0247	Allis-Chalmers Manufacturing Co.
-0058	Martin-Marietta Corp.; Isotopes, Inc.
-0097	Sylvania Corning Nuclear Corp.
-0007	Nuclear Science & Engineering Corp.; International Chemical & Nuclear Corp.
-0248	Mallinckrodt Nuclear Corp.
-0905	Baker & Co. Inc.; Englehard Industries Inc.
-0106	Curtiss-Wright Corp.
-0133	Clevite Corp.
-0139	Baker & Co. Inc., Makepeace Co.; Englehard
-0294	American Metal Products
-0238	Union Carbide Nuclear Corp.
-0273	Union Carbide Corp.
-1108	General Electric Co.
-0009	Atomic Power Development Associate Inc.
-0313	National Lead Co.
-1106	Westinghouse Electric Corp.

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STATUS OF PROJECT:

About one-half of the Part 70 dockets initially characterized as questionable by individual analysts need to be group-analyzed. This will be completed during the month of June. One of the staff analysts responsible for compiling, updating, and editing the group-analyzed results has terminated employment with Oak Ridge National Laboratory (ORNL).

Work is proceeding on the Part 70 final report, a rough draft of which will be available by the end of June.

The three files now searchable on-line are:

- (1) NRC Part 40 Inventory File,
- (2) ORNL Part 40 Analysis File, and
- (3) ORNL Part 70 Analysis File.

These files can be kept on-line at nominal maintenance cost, or stored off-line as tapes; or questionable dockets from (2) and (3) can be combined into one smaller file for on-line searching or off-line storage.

MANPOWER AND COST SUMMARY:

Efforts in Man Months			Cost K\$			Total Cost K\$			Additional Cost to Completion (Estimate)
May 1979	FY 1979	Total To date	May 1979	FY 1979	Total To date	May 1979	FY 1979	Total To date	
3.2	18.9	50.6	16.3	99.9	262	16.3	99.9	262	\$150,000

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4. P. M. Lantz, Bldg. 7710
5. F. R. Mynatt, Bldg. 9201-3, Y-12, Mail Stop 2
6. P. S. Rohwer, Bldg. 7509
7. ORNL Laboratory Records Department
- 8-9. DOE Technical Information (DOE-TIC)

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