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INTERIM REPORT

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MONTHLY PROGRESS REPORT
FOR SEPTEMBER 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:

Inconsistencies between manual records and computer records have led to computer record corrections in the (REGION) field as shown in Table 1.

Table 1. Corrections in computer field = (REGION)

Record accession No.	Docket No.	Box No.	Field = (REGION)		Comment
			Incorrect	Correct	
7	70-70	71/95	No region	1	By address
233	70-91	71/95	No region	2	By address
390	70-273	74/95	1 and 3	1;3	Semicolon essential
391	70-274	74/95	1 and 3	1;3	Semicolon essential
460	70-415	11/25	1 and 5	1;5	Semicolon essential
468	70-1066	21/25	3 and 5	3;5	Semicolon essential
495	70-1242	24/25	No region	0	File transfer
602	70-1025	20/	No region	0	File transfer
604	70-1027	20/	No region	0	Canada (no region)
606	70-1032	20/	No region	0	File transfer

MAJOR ACCOMPLISHMENTS: (cont'd.)

These are time-consuming, minor changes, but essential for quality assurance. For example, the computer program recognizes that which follows a semicolon in a given field as separately searchable; otherwise, docket numbers 70-273, -274, -415, and -1066 in Table 1, when sought by Region, would not retrieve under the second NRC Region.

In cases of file transfer (empty folders), no region numbers are present and accounting falls short unless zero or some other searchable symbol is entered. A license issued to a foreign government falls under no NRC jurisdiction.

Four records remain that are lacking a (REGION) field entry and therefore are not recoverable by (REGION) only. They are of course recoverable by the other fields. These four records, given in Table 2, are being corrected in the computer file.

Table 2. Records lacking an entry in the field (REGION)

Record accession No.	Docket No.	Category	Address	Region by address
190	70-869	20K	MA	1
201	-921	10K	NC	2
532	-185	20K	CA	5
598	-1019	20K	See 70-750	1

Retrieval from the main set by (CATEGORY) gives the results shown in Table 3.

Table 3. Retrieval by (CATEGORY) as the main set

Category	No. of records
2No	8
1No	23
2Un	11
1Un	12
Total questionables	54
20K	270
10K	343
Grand total	667

MAJOR ACCOMPLISHMENTS: (cont'd.)

The final number of records, by manual count, that should be in the computer file is 668, but Table 3 shows a total of 667. The discrepancy was traced to Record No. 226, Docket No. 70-132, McCullough Tool Company, which received no category because it was covered in 70-165. The latter was categorized 10K.

Failure to obtain exact computer balance despite conscientious attempts is due to the fact that several computer typists and several proof-reading analysts are unable on a routine basis to catch all errors of omission and commission. In correcting old printout sheets, new errors are introduced. However, when all the known errors are corrected the computer file will contain a reasonably accurate data base of terminated special nuclear material dockets.

The most reliable retrieval field is the (CATEGORY) field since most pains were taken from the start with this field. Subsetting (CATEGORY) field under any other field such as (UPDATE) or (REGION) loses information. Table 1, for example, illustrates how incomplete data results in incomplete recovery of all dockets by (REGION) field.

The latest category distribution as subsets under (REGION) are shown in Table 4. Region 5 includes Docket No. 70-132, McCullough Tool Company, which is presently uncategorized, and thus accounts for the difference between total records (142) and the total categorized records (141) in the region. In addition, there are 20 records associated with two different regions, four records associated with no region (see Table 1) and four records without region assignments (see Table 2). Three of the questionable records are associated with two different region each, thus accounting for the 57 total questionable records in Table 5 when the total of distinctly different questionable records is already known to be 54.

Since duplicate assignments by Regions have caused some difficulty in balancing records, they are listed in Table 5.

STATUS OF PROJECT:

When the most recent editing of the Part 70 computer file is completed in early October the evaluation and computerization of terminated special nuclear material licenses will be complete. A final report on the methodology and results has been prepared and is undergoing review prior to publication.

Table 4. Category subsets by region

Region	Category						Total		
	1No	2No	1Un	2Un	10K	20K	Records	Categorized records	Questionable records
1	12	3	6	6	106	114	247	247	27
2	1	1	1	0	49	28	80	80	3
3	3	2	3	4	69	41	122	122	12
4	1	1	0	1	55	31	89	89	3
5	7	1	3	1	69	60	142	141	12
							680	679	57

Table 5. Multiple NRC region assignments

Accession No.	Docket No.	NRC regions	Category
6	70-0044	5;4	20K
61	-0175	1;2	1No
72	-0930	3;5	10K
103	-0155	5;2	20K
129	-0684	1;2	20K
140	-0713	1;4	20K
165	-0780	4;5	10K
207	-0964	1;2	20K
299	-0325	1;4	20K
319	-1101	5;3	10K
320	-1102	5;1	10K
323	-1108	5;1	1Un
390	-0273	1;3	2Un
391	-0274	1;3	20K
460	-0415	1;5	10K
468	-1066	3;5	10K
608	-1034	1;3	10K
614	-1045	1;2	10K
662	-0513	4;2	20K
668	-0816	3;2	10K

1215 347

STATUS OF PROJECT: (cont'd.)

A subcontractor has been selected to assist in the evaluation and computerization of Part 30 (byproduct material) licenses. An inventory of the boxes of Part 30 dockets will be taken in October. Following this, ORNL and the subcontractor will select screening criteria and develop an instrument for abstracting pertinent data for computerization and docket analysis.

MANPOWER AND COST SUMMARY:

Efforts in Man Months			Cost K\$			Total Cost K\$			Additional Cost to Completion (Estimate)
Sept. 1979	FY 1979	Total To date	Sept. 1979	FY 1979	Total To date	Sept. 1979	FY 1979	Total To date	
2.0	24	54.9	12.1	126.3	288.1	12.1	126.3	288.1	\$150,000

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