



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

HP 04-00487-03 loose mat.  
SMB 00376 loose mat.

February 19, 1997

MEMORANDUM TO: John T. Graeves, Director  
Division of Waste Management/NMSS

FROM: Ross A. Scarano, Director *RS*  
Division of Nuclear Materials Safety

SUBJECT: TERMINATED LICENSE STATUS REPORT

The purpose of this memorandum is to provide you with a status report of our review of formerly terminated sites. These sites include (1) those involved with unsealed materials and identified as having Oak Ridge National Laboratory (ORNL) scores above five and (2) the assigned terminated sealed source licenses. This memorandum is provided in accordance with Section 5 of Temporary Instruction 2800/026, "Followup Inspection of Formerly-Licensed Sites Identified as Potentially Contaminated."

Since the last status report dated October 31, 1996, six site files and 10 sealed source licenses have been reviewed by Region IV and are being recommended for case closure. In addition, 13 site licenses and 19 sealed source licenses have been reviewed by the WCFO and are being recommended for case closure.

Attachment 1 summarizes the status of all assigned licenses. Attachment 2 lists all terminated licenses that have thus far been recommended for removal from the active list. Attachments 3 through 17 provide summary reports of the licenses recommended for closure by the Region IV office in Arlington while Attachments 18 through 46 provide summary reports of the licenses recommended for closure by the WCFO.

To the extent possible, when reviewing the sites, we considered the indicators of potential subsurface soil and groundwater contamination as described in John Austin's October 9, 1992, memorandum on that subject.

If you have any questions concerning this memorandum, please call Chuck Cain of my staff at (817) 860-8186.

Attachments:  
As stated

John T. Greeves, Director

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bcc:  
JEDyer, Acting Regional Administrator  
JTBuckley, NMSS/DWM (T7F27)  
PFGoldberg, NMSS/IMNS (T8F5)  
CLCain  
LLHowell  
RJEvans  
FAWenslawski, WCFO  
HDChaney, WCFO  
NMIB Files

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RIV:NMI&FC/DB	ADD:DNMS	DD:DNMS	
RJEvans <i>RJE</i>	CLCain <i>CLC</i>	RAScarano	
2/18/97	2/19/97	2/19/97	

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FORMER REGION V LICENSES

<u>ORNL Score</u>	<u>License No.</u>	<u>Licensee Name</u>	<u>RIV Closure Date</u>
11902	SNM-00031	Aerojet General Corp	May 24, 1996
11768	SNM-01016	McDonnell Douglas Astro	October 22, 1993
7568	04-00580-07	Isotopes Specialties Co	May 24, 1996
✓ 3370	SNM-00035	US Navy - NRDL	September 29, 1992
3240	SNM-00862	General Atomics	October 22, 1993
✓ 3230	04-00487-03	U.S. Department of Navy	*
2950	SNM-01269	Douglas United Nuclear Inc.	September 29, 1992
2594	SNM-00054	General Electric Co.	August 8, 1995
2520	SNM-01002	US Nuclear Corp.	October 22, 1993
1619	04-02561-01	Western Radiation Lab	September 29, 1992
1493	04-00580-03	Isotopes Specialties Co.	May 24, 1996
1175	06-02543-02	United Aircraft Corp.	January 18, 1996
1125	04-05479-01	California Salvage Co.	October 22, 1993
1071	SNM-00342	NORTHROP Corporation	*
779	04-06953-01	Rad Science Corp.	October 22, 1993
749	04-00205-02	Shell Development Co.	September 29, 1992
741	STB-00494	Marquardt Corporation	May 24, 1996
547	50-10023-01	US Army - Alaska	May 10, 1995
535	SNM-00103	Univ. of Washington-Seattle	September 29, 1992
529	04-00424-06	Douglas Aircraft Co., Inc.	September 29, 1992

\* Closure recommended herein

FORMER REGION V LICENSES, continued

<u>ORNL Score</u>	<u>License No.</u>	<u>Licensee Name</u>	<u>RIV Closure Date</u>
78	SNM-00119	Aerojet General Corp.	May 24, 1996
75	04-00647-03	Aerojet General Corp.	May 24, 1996
72	C-04241	BMW Manufacturing Co.	May 24, 1996
60	STB-00511	Automation Industries, Inc.	*
55	STC-00098	CAL-State Metals	May 24, 1996
54	C-05310	Light Metals Research Lab	January 18, 1996
48	SNM-01677	Teledyne Cast Products	May 2, 1994
40	C-04544	Skyline Engineering, Inc.	*
38	STB-00074	Basic Tool Industries, Inc.	*
37	53-00017-01	University of Hawaii-Honolulu	*
✓ 36	SMB-00376	U.S. Department of Navy	*
32	SNM-01471	Univ. of California-Berkeley	August 8, 1995
31	SNM-00213	Univ. of California-Berkeley	*
26	SNM-00102	GE Company	January 18, 1996
26	SNM-00321	GE Company	January 18, 1996
24	SNM-00978	Washington State Univ.-Pullman	January 18, 1996
24	C-05377	South Gate Alum. and Mag. Co.	October 22, 1993
22	SNM-00153	Washington State Univ.-Pullman	*
20	SNM-00483	US Nuclear Corp.	October 22, 1993
18	SNM-00425	Marquardt Corporation	May 24, 1996

\* Closure recommended herein

ATTACHMENT 44

ORNL Score: 36 and 3230/55

License Nos.: SMB-00376 and 04-00487-03      *2 licenses*

Docket Nos.: 40-05063 and unknown

Licensee Name: **U.S. Department of the Navy**

License Active: 1956 -1969

Location: Naval Radiological Defense Laboratory (NRDL)  
Hunters Point Naval Shipyard  
San Francisco, CA 94135

US Army - Camp Parks  
Dublin/Pleasanton, CA

US Army - Camp Stoneman  
Pittsburg, CA

San Clemente Island, CA

Current Owner/Address: US Department of the Navy

Activity: Nuclear Weapons and Byproduct Radiation Effects Research

**1 ORNL Concerns**

ORNL summarized that there could be residual byproduct contamination and improper radioactive material disposal at the various sites used by the licensee, especially at Hunters Point, Camp Parks and David Taylor Model Basin. ORNL findings were based on the large amount of byproduct materials authorized and the types of research conducted with unsealed and seal sources. Extensive closeout surveys were conducted in between 1967 and 1969 at all sites but their is reason to believe sensitivity of instrumentation was not adequate for isotopes expected to be encountered. Both licenses were terminated in 1969 by the AEC.

**2 Background Information**

The US Navy had ongoing radiological research operations at the Hunters Point Naval Shipyard (HPNS) since 1946 (pre AEC licensing). NRDL has held several NRC licenses (04-00487-01 through 09, SNM-00035, and SMB-00376) covering research work at HPNS and other sites in and outside of California. As of 1967, the NRDL had in its possession over 300 individual radioactive sources. By August 1969 over 200 had been transferred to other Navy organizations and the remainder disposed of as radioactive waste. Several thousand Curies of Cobalt-60, over 50,000 Curies of Strontium-90, and several thousand pounds of source material

were transferred to other AEC or State of California licensees. Documents attesting to the disposition are contained in the docket files.

Post 1969, continuation of NRDL research activities at Camp Parks (and elsewhere) were continued under AEC licenses issued to Stanford Research Institute and the University of California - Berkeley, 04-01043-10 and SNM-01471 respectively. Both of these aforementioned licenses were closed out in the August 8, 1995, update report.

Docket file records indicated that NRDL used source and byproduct materials at Camp Stoneman in the early 1950's to develop and test decontamination techniques for military personnel and equipment after being exposed to simulated nuclear weapons fallout (Lanthanum-170, T<sub>1/2</sub> = 40 hrs). Following a 1995 joint State of California and NRC review of the Camp Stoneman area (residential area within Pittsburg, California) using sensitive ambient gamma radiation measurement equipment) it was decided that no radioactive materials remained at the former site of Camp Stoneman in Pittsburg, California, and that the case could be closed. A summary of Camp Stoneman specific review is included in the NRDL files for this license.

### 3 Site Status

The facilities formerly used by NRDL at HPNS have been extensively surveyed for radiological contamination by the AEC in 1969, LFE Environmental Analysis Laboratories (under GSA contract) in 1978, and by the Naval Nuclear Power Unit from Port Hueneme, California, in 1978. Those facilities at Camp Parks have also been extensively surveyed for non-radiological and radiological contaminants since 1970. Followup surveys by the US Army Corp of Engineers and their consultant in 1995 have been placed in the docket files for this license. No contamination above current release limits were identified.

The entire Hunters Point Naval Shipyard site is currently undergoing full radiological and toxicological site characterization by State of California and US Navy. This has been on going since 1989. The primary concern at the site is the near surface burial of thousands of radium containing devices originating from naval ship deactivation in the 1950's and 1960's. Current ongoing site characterization and any resultant remediation is adequately being address by the US Navy. The US Navy is currently working under an NRC Master Materials License.

The Region IV Walnut Creek Field Office will maintain the docket files for this former licensee. The WCFO is also maintaining contact with the State of California and the US Navy regarding the HPNS site, and will be available to respond to any questions involving the former AEC/NRC licenses.

4. **Regional Recommendations**

The Region recommends removal of these licenses from the ORNL formerly-licensed site and sealed source lists. Records will be maintained in the Walnut Creek Field Office until completion of the HPNS site characterization.