



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

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DL-072202-01

February 16, 2001

MEMORANDUM TO: John T. Greeves, Director
Division of Waste Management
Office of Nuclear Material Safety and Safeguards

FROM: Dwight D. Chamberlain, Director
Division of Nuclear Materials Safety *Dwight D. Chamberlain*
2/16/2001

SUBJECT: QUARTERLY STATUS REPORT FOR TERMINATED LICENSE
PROGRAM (TEMPORARY INSTRUCTION 2800/026)

The purpose of this memorandum is to provide you with a status report of our review of formerly licensed sites and sealed source files. Our last status report was dated October 20, 2000. This memorandum is provided to you in accordance with Section 5 of Temporary Instruction 2800/026, Revision 2, "Followup Inspection of Formerly Licensed Sites Identified as Potentially Contaminated."

Attachment 1 summarizes the status of all licenses assigned to Region IV, including the former Region V files. Overall, 347 files have been referred to us for followup review. This number is down by five since the last Memorandum because we transferred five files to Region II for review and closure. We have closed 212 (61.1 percent) of those 347 files. We have transferred or attempted to transfer responsibility for 108 files (31.1 percent) to Agreement States. Therefore, 27 files (7.8 percent) currently remain open and under Region IV responsibility. Please note that all files reassigned to the Agreement States are listed as "open" in Attachment 1, pending future NRC verification that the states have actually reviewed and closed these files. Also, included in Attachment 1 is a list of all sites identified as contaminated.

Region IV has developed a plan for completing the terminated license project by the end of fiscal year 2001. First, we have created a method to track all open files including development of a work assignment table and a progress chart. Also, we plan to finish the initial review of all docket files in a timely manner to identify any site that may be potentially contaminated. These sites will be given a high priority for on site review and followup. Next, a member of our staff (Mr. Robert Evans) has been assigned on a full time basis to the terminated license program. Accordingly, to complete the work prior to the end of the fiscal year will require that we expend significantly more than the budgeted resource of 0.1 FTE for this effort.

Since the last quarterly Memorandum, Region IV has transferred 5 files to Region II, 55 files to the State of California, and 11 files to the State of Colorado. Region IV plans to submit three additional files to the State of Texas in the near future. However, during the review of the Agreement State files, the NRC has identified three sites/sealed source licenses that may involve use of radioactive material in areas of exclusive Federal jurisdiction. Accordingly, these three files may be added to the Region's list of open files in the near future.

Attachment 2 lists all files currently open and under the jurisdiction of the NRC. The sites/sealed source files that are lined out in the Attachment 2 tables are being recommended for final closure by this Memorandum.

Attachment 3 is an updated listing of problems or issues identified during the implementation of this project. Included in Attachment 3 is a list of files that remain missing. Region IV continues to work with ORNL, NMSS, and the respective licensees to locate or recreate these missing files.

Finally, the Region recommends the final closure of four sealed source license files. Details of these recommendations are provided in Attachments 4-7 to this Memorandum.

CONTACT: Robert Evans, NMIB/DNMS/RIV
(817) 860-8234

Attachments: As Stated

ATTACHMENT 1

INPUT FOR QUARTERLY INFORMATION STATUS REPORT (QISR)

STATUS OF SITES IDENTIFIED BY ORNL

ORNL Score	Total	Sites Eliminated	NRC Sites Pending	Agreement State Sites Pending	*Sites Found Contaminated
> 300	46	41	2	3	6
>5-300	141	81	8	52	5
≤5	4	1	0	3	0
Total	191	123	10	58	11

*Refer to Page 2 for the list of sites identified with contamination.

STATUS OF LICENSES WITH SEALED SOURCES NOT ACCOUNTED FOR

ORNL Score	Total	Files Eliminated	NRC Files Pending	Agreement State Files Pending
> 300	2	0	1	1
>5-300	94	61	8	25
≤5	60	28	8	24
Total	156	89	17	50

LIST OF SITES IDENTIFIED WITH CONTAMINATION

License No.	ORNL Score	Name	Location	
✓ SNM-00031	11902	Aerojet General Co.	San Ramon, CA	Trans
✓ 04-00580-07	7568	Isotope Specialty Products	Burbank, CA	Trans
✓ 04-00580-03	1493	Isotope Specialty Products	Burbank, CA	Trans
✓ STB-00434	579	Marquardt	Hill AFB, UT	Trans
✓ STB-00434	579	Marquardt	Ogden, UT	Trans
✓ R-00183	313	Verdi Development Corp.	Los Angeles, CA	Trans
✓✓ SUA-00208	281	International Mining Co.	Gas Hills, WY	
✓ SMB-00123	184	Dow Chemical	Freeport, TX	Trans
✓✓ STB-00472	83	Standard Magnesium (Kaiser Aluminum Speciality Products)	Tulsa, OK	
✓ STB-00454	15	American Smelting & Refining Co.	Houston, TX	Trans
✓ SMB-00268	13	Reynolds Metals	Bauxite, AR	Trans

ATTACHMENT 2

OPEN SITE FILES UNDER NRC JURISDICTION

State	ORNL Score	License No.	Name Location	Comments
✓ AR	9	03-02814-01	Naval Ammo Depot Shumaker, AR	Transferred to Region II on 02/07/01
✓ CA	207	04-00650-07	Univ. of California-Berkeley Camp Parks, CA Oakland Supply Center, CA	
✓ CA	115	04-07177-02	McClelland Air Force Base Sacramento, CA	Under review by USAF RIC
✓ HI	37	53-12084-01	Hawaii Dept. Of Agriculture Honolulu, HI	
✓ ID	116	R-00230	Salmon River Uranium North Fork, ID	
✓ MT	134	R-00229	Sawyer Petroleum Co. Glen, MT Salt Lake City, UT	
✓ SD	16	R-00143	Mining Research Corp. Edgemont, SD	
✓ TX	774	42-01864-01	Randolph AFB Austin, TX	Under review by USAF RIC
✓ UT	13	43-01316-04	U.S. Army, Dugway Proving Ground, UT	
✓ WY	346	R-00207	Uranyl Research Co. Baggs, WY	
✓ WY	281	P-04072	International Mining Co. Gas Hills, WY	

OPEN SEALED SOURCE FILES UNDER NRC JURISDICTION

State	ORNL Score	License No.	Name	Location
AR	6	SNM-00578	VA Medical Center Little Rock, AR	Closed by letter dated 01/12/01
✓ CA	44	04-06042-01	GSA Depot Stockton, CA	
✓ GA	31	SNM-01089	Lockheed Aircraft Sunnyvale, CA	Transferred to CA by letter dated 01/11/01
✓ CA	14	04-08699-01	McClelland AFB Sacramento, CA	Under review by USAF RIC
✓ GA	10	04-03141-01	Dept. of Navy Concord, CA	Transferred to Region II by Memo dated 02/07/01
✓ CA	4	04-01964-06	Lockheed Aircraft Vandenberg AFB	Under review by USAF RIC
✓ GA	3	04-01429-02	Dept. of Navy Barstow, CA	Transferred to Region II by Memo dated 02/07/01
✓ CA	2	08-07749-02	Dept. of Interior Point Loma, CA	
✓ GA	2	04-01039-01	Naval Shipyard San Francisco, CA	Transferred to Region II by Memo dated 02/07/01
✓ CO	2	05-01399-04	USGS Denver, CO	
✓ GZ	28	51-05106-02	Gorgas Hospital Balboa Heights, GZ	Transferred to Region II by Memo dated 02/07/01
✓ HI	1886	SNM-00095	Penn. State University Honolulu, HI	
✓ HI	3	53-02551-01 04-00616-04	X-Ray Engineering Honolulu, HI	
✓ ID	5	11-01416-02	Eastern Idaho Const. Co. Idaho Falls, ID	Closed by letter dated 11/22/00
✓ MT	5	25-07596-02	City of Helena Helena, MT	

OPEN SEALED SOURCE FILES UNDER NRC JURISDICTION (continued)

State	ORNL Score	License No.	Name	Comments
✓ MF	4	25-08686-01	Hoerner Waldorf Paper Missoula, MT	Closed by letter dated 12/15/00
✓ NM	41	SNM-00595	Hughes Aircraft Sandia Labs, NM	
✓ OR	2	36-15526-01	Dept. of Interior, BLM Salem, OR	
✓ OR	2	36-14803-01	U.S. Army Portland, OR	Closed by letter dated 12/21/00
✓ WA	225	46-15183-01	McChord AFB	Under review by USAF RIC
✓ WY	11	49-14030-01	Minerals Exploration Co. Casper, WY	
✓ WY	9	SNM-00530	Sundance AFB Sundance, WY	Under review by USAF RIC
✓ WY	8	49-19334-01	Howard Donley Associates Casper, WY	
✓ WY	6	49-18219-01	AMOCO Pipeline Ft. Laramie, WY	
✓ WY	5	49-19015-01	CTL Thompson Casper, WY	
✓ WY	3	19-01398-26	Martin-Marietta Sundance, WY	Under review by USAF RIC

POSSIBLE ADDITIONS TO NRC's TERMINATED LICENSE LISTS

State	ORNL Score	License No.	Name	Comments
✓ CA	13	SUB-00590	Douglas Aircraft Co. Santa Monica, CA Eglin AFB, FL	Site file shared with CA; Eglin AFB was listed in the license as a second authorized location of use
✓ CA	51	C-03931	Rheem Manufacturing Co. Downey, CA Camp Pendleton, CA	Site file shared with CA; Camp Pendleton was listed in the docket file as a site where DU munitions were being detonated
✓ CO	8	05-07977-01	Ball Brothers Research Corp. Boulder, CO Cape Kennedy AFB, FL	Sealed source file shared with CO; a second authorized location of use was the Cape Kennedy Air Force Station

ATTACHMENT 3

SITE FILES THAT WERE ASSIGNED TO REGION IV BUT FILES CANNOT BE LOCATED

LICENSE NO. (ORNL Score)	NAME	COMMENTS
✓ SNM-00862 (3240)	General Atomics San Diego, CA	File was closed on 10/22/93
✓ SUB-00143 (123)	Kerr McGee Oil Industries Golden, CO	File identified missing in 1993; previously assigned to RIII for followup review. Site review completed in April 1994

SEALED SOURCE FILES ASSIGNED TO REGION IV BUT FILES CANNOT BE LOCATED

LICENSE NO. (ORNL Score)	NAME	COMMENTS
✓ 04-03141-01 (10)	Dept. of Navy Concord, CA	Two files were located; one in HQ archives and one in Region II
✓ 04-01039-01 (2)	Naval Shipyard San Francisco, CA	Responsibility for this file was transferred to Region II on 02/07/01
✓ 05-01399-04 (2)	USGS Denver, CO	Region IV recreated this file with licensee's support
✓ SNM-00095 (1886)	Penn. State University Honolulu, HI	File located in archives. Copy of file obtained by Region IV.
✓ 51-05106-02 (28)	Gorgas Hospital Balboa Heights, Canal Zone	Responsibility for this file was transferred to Region II on 02/07/01

FILES TRANSFERRED FROM OTHER REGIONS TO REGION IV FOR FOLLOWUP REVIEW

LICENSE NO. (ORNL Score)	NAME	COMMENTS
✓ 20-01382-15 (217-site)	Laboratory for Electronics Houston, Texas	From Region I; file still open and in RIV's possession; RIV will transfer the file to TX in near future
✓ SUB-755 (24-site)	Allied Chemical Baton Rouge, LA	From Region I; Sent to LA for closure in March 98
✓ 05-16016-01 (5-ss)	Stearns-Rogers Denver, CO	From Region I; Sent to CO for closure in February 01
✓ 31-00246-02 (110-site) (24-ss)	W. M. Kellogg Co. Houston, TX	From Region I; file closed in October 94. File to be transferred to TX in near future to support TX's review of two other license files
✓ 31-00246-04 (3-ss)	W. M. Kellogg Co. Houston, TX	The -03 file was transferred to Region IV from Region I but the -04 file is on the ORNL list; file is still open and will be transferred to TX in near future once the -04 file has been located
✓ 04-03365-03 (3-ss)	Lefiell Manufacturing Santa Fe Springs, CA	From Region I; file transferred to CA on January 11, 2001
✓ 04-07326-02 (2-ss)	Aerospace Corp. El Segundo, CA	From Region II; file closed in Feb. 97 and transferred to HQ in July 97
✓ 12-00920-01 (107-site)	International Harvester Phoenix, AZ	From Region III; file still open and in RIV's possession
✓ SNM-154 (6865-site)	Spencer Chemical Co. Kansas City, MO	From Region III; file closed and transferred to ORNL in Oct. 94
✓ 34-00472-04 (1754-site)	Wright-Patterson AFB Ohio	From Region III; file closed and transferred to ORNL in Oct. 94
✓ SUB-1288 (17-site)	Gulf Chemical and Metallurgical Co. Texas City, TX	From Region III; file closed and transferred to ORNL in Oct. 94
✓ SUB-0215 (120-site)	APEX Smelting Co. Long Beach, CA	From Region III; file closed and transferred to HQ in July 97

FILES TRANSFERRED FROM REGION IV TO OTHER REGIONS FOR FOLLOWUP REVIEW

LICENSE NO. (ORNL Score)	NAME	COMMENTS
✓ 03-02814-01 (9-sealed source)	Naval Ammo Depot Shumaker, AR	Transferred to Region II on 02/07/01
✓ 04-03141-01 (10-sealed source)	Department of Navy Concord, CA	Transferred to Region II on 02/07/01
✓ 04-01429-02 (3-sealed source)	Department of Navy Barstow, CA	Transferred to Region II on 02/07/01
✓ 04-01039-01 (2-sealed source)	Naval Shipyard San Francisco, CA	Transferred to Region II on 02/07/01
✓ 51-05106-02 (28-sealed source)	Gorgas Hospital Balboa Heights, Canal Zone	Transferred to Region II on 02/07/01

FILES TRANSFERRED TO REGION IV FROM ORNL FOR FOLLOWUP REVIEW BUT FILES ARE NOT LISTED IN CURRENT ORNL DATABASE (FILES ARE IN REGION IV'S POSSESSION UNLESS OTHERWISE NOTED)

LICENSE NO. (ORNL Score)	NAME	COMMENTS
✓ SUB-888 (11)	Defense Atomic Support Agency Albuquerque, NM	Site file closed May 96
✓ 30-03110-02 (343-site) (30-ss)	Kirtland AFB Albuquerque, NM	File closed in June 93; transferred to ORNL in Oct. 94
✓ SNM-701 (40-ss)	NASA Houston, TX	File closed in October 00
✓ SNM-585 SNM-270 (108-ss)	Great Lakes Carbon Co.	File closed in April 97 and currently in RIV's possession
✓ SNM-932 (73-ss)	Frontier Perforators Pampa, TX	File closed but not documented in quarterly memo
✓ SNM-418 (74-ss)	Lane Wells (Dresser) Houston, TX	File still open and will be transferred to TX in near future
✓ 50-02430-09 (15-ss)	Univ. of Alaska-Fairbanks Fairbanks, AK	File closed in August 95; transferred to HQ in July 97
✓ 50-02197-01 (11-ss)	State of Alaska Eagle River, AK	File closed in May 94; transferred to HQ in July 97
✓ 04-05241-08 (85-ss)	U.S. Nuclear Corp. Burbank, CA	File closed in Oct. 93; transferred to HQ in July 97
✓ SNM-0213 (31-ss)	Univ. of California-Berkeley Berkeley, CA	File closed in Feb. 97; transferred to HQ in July 97
✓ 53-00017-01 (37-site)	Univ. of Hawaii Honolulu, HI	File closed in Feb. 97; transferred to HQ in July 97

**FILES LISTED IN ORNL'S ELECTRONIC DATABASE AS ASSIGNED TO REGION IV BUT
THE FILES ARE NOT LISTED IN ORNL'S MOST CURRENT HARD COPY
DATABASE (REGION IV DOES NOT HAVE THESE FILES)**

LICENSE NO. (ORNL Score)	NAME	COMMENTS
✓ 20-03095-02	Hanscom AFB Bedford, MA	Listed in ORNL's "Excellent" Quality Table
✓ SNM-00867	Department of Highways State of Nevada	Listed in ORNL's "Excellent" Quality Table

ATTACHMENT 4

Final ORNL Score: 6

Docket No. 070-00627

License No. SNM-00578

Licensee Name: Veterans Administration

Site Name: Consolidated Hospital

Site Address: 300 East Roosevelt Road
Little Rock, Arkansas

Regional Contact: Robert Evans, PE, CHP, Health Physicist
Nuclear Materials Inspection Branch
Division of Nuclear Materials Safety

Status Summary:

On November 15, 1961, the AEC became aware that Consolidated Hospital had received a Pu-Be source from the National Bureau of Standards (NBS) although the hospital did not have a special nuclear material license to possess the source. NBS shipped the source to the licensee on October 25, 1961, by mistake. The hospital received the source on October 30, 1961. The hospital had expected to receive a radium-beryllium source from NBS. The hospital returned the source to NBS on November 16, 1961, and later claimed that it had not used the source while the source was in its possession.

Consolidated Hospital needed a neutron source for instrument calibration purposes, so the hospital subsequently submitted a license application to the AEC by letter dated December 19, 1961. The AEC issued Special Nuclear Material License SNM-00578 to Consolidated Hospital on March 2, 1962, for possession of a Pu-Be source containing 10 grams of plutonium. The license expired on March 31, 1963, without being renewed. By letter dated March 8, 1963, the hospital certified that it had not procured or possessed any special nuclear material under this license.

ORNL recently reviewed this docket file and concluded that "no information was provided on the certificate of disposition to support that the source was returned to the NBS." During November 2000, the NRC contacted the radiation safety officer (RSO) for the National Institute of Standards and Technology in Gaithersburg, Maryland. The RSO identified a record of the transfer of the Pu-Be source from NBS to Consolidated Hospital. The record indicates that the transfer was initiated on October 25, 1961. A hand-written note on the transfer record states that Consolidated Hospital was not authorized to receive the source, and the hospital was shipping the source back to NBS on November 16, 1961. The RSO also produced a copy of a March 1972, inventory which revealed that the source was in storage at NBS. Copies of these records were provided by the RSO to the NRC and were added to the docket file for this license.

In conclusion, **Region IV recommends the closure of this terminated sealed source file.** The source was improperly transferred to Consolidated Hospital during October 1961, but was returned to NBS during November 1961. A 1972 inventory confirmed that the source was in the possession of NBS. The docket file records also indicate that the licensee did not procure or possess radioactive material under License SNM-00578.

ATTACHMENT 5

Final ORNL Score: 1

Docket No. 030-90014

License No. 11-01416-02

Licensee Name: Eastern Idaho Construction Company
Technical Department
Inspection Section, Naval Reactor Facility
Idaho Falls, Idaho

Site Name: Naval Reactor Facility

Site Address: Idaho National Engineering and Environmental Laboratory
Idaho Falls, Idaho

Regional Contact: Robert Evans, PE, CHP, Health Physicist
Nuclear Materials Inspection Branch
Division of Nuclear Materials Safety
Region IV

Status Summary:

Byproduct Materials License 11-01416-02 was issued by the AEC to Eastern Idaho Construction Company (EICC) on November 15, 1957, for possession of cobalt-60 for use in industrial radiography cameras. Records provided in this docket file indicate that the licensee possessed two radiography cameras. The license was canceled by letter on December 8, 1958. This docket file was reviewed by Oak Ridge National Laboratory (ORNL), and ORNL subsequently concluded that the docket file had incomplete radioactive material disposition information.

In a letter dated October 25, 2000 (attached), provided by U.S. Department of Energy, Idaho Branch Office, it was revealed that the licensee was a subcontractor to Bettis Atomic Power Laboratory (Bettis) and was engaged in the construction of the A1W Prototype at the Naval Reactors Facility in 1958. EICC conducted radiography at A1W with a 50-curie and three 1-curie Co-60 sources. At the completion of their work, EICC transferred possession of the 50-curie source to Bettis on October 16, 1958, and the three 1-curie sources to Bettis on January 4, 1961.

The sources were subsequently used by Bettis at the Naval Reactor Facility until the mid-1960's when they were sent to the AEC's radioactive material disposal area at the National Reactor Testing Station (now the Radioactive Waste Management Complex, Idaho National Engineering and Environmental Laboratory, USDOE).

In conclusion, **Region IV recommends the closure of this terminated sealed source file.** Eastern Idaho Construction Company possessed four Co-60 sources which were eventually transferred to the Bettis Atomic Power Laboratory. All of the sources have been traced to the AEC's radioactive material disposal area at the National Reactor Testing Station (now the Radioactive Waste Management Complex, Idaho National Engineering and Environmental

Laboratory, USDOE). The Idaho National Engineering and Environmental Laboratory was not inspected or surveyed for radiological material because there was no evidence that the sealed sources had ever leaked and records indicate the sources had been properly disposed.

ATTACHMENT 6

Final ORNL Score: 2

Docket No. 030-08077

License No. 36-14803-01

Licensee Name: Department of the Army
U. S. Army Engineer District, Portland
P.O. Box 2946
Portland, Oregon 97208-2946

Site Name: Dredge Wahkiakum

Site Address: U. S. Government Mooring, Portland, Oregon (Original)
(Hailing Port) Seattle, Washington (Most Recent)

Regional Contact: Emilio M. Garcia, Radiation Specialist
Fuel Cycle/Decommissioning Branch
Division of Nuclear Materials Safety
Region IV

Status Summary:

The Atomic Energy Commission, predecessor to the NRC, issued License 36-14803-01 on December 22, 1971, to the Department of the Army, U. S. Army Engineer District, Portland. This license authorized the U. S. Army Engineer District, Portland, to possess one cesium-137 source of 2 curies to be used in a Nuclear Chicago Model 5174 source holder associated with Model 5130 density gauge system for measurement of dredged material flowing through pipes. This gauge system was to be used only on the Dredge Wahkiakum, on the Columbia and Lower Willamette Rivers. The Dredge Wahkiakum was based out of the U. S. Government Moorings, Portland, Oregon.

The record does not indicate if an AEC inspection was ever conducted. Records maintained by the NRC and the licensee have some ambiguities about dates when certain actions occurred, but what follows is most likely the proper sequence of events. On September 9, 1972, the Dredge Wahkiakum suffered a fire. A September 15, 1972, AEC Region V memorandum to file indicates that the fire burned for 10 hours and that David G. Wagstaff of the State of Oregon, Radiation Control Section, Health Division, Department of Human Resources, went to the site and remained until the fire was extinguished. When the fire was extinguished, Mr. Wagstaff conducted radiation surveys of the source holder. A letter from Mr. Wagstaff to Mr. Henry K. Clausen, of the licensee's staff, dated September 18, 1972, states that through visual examination of the gauge, it did not appear to have been exposed to extremely high temperatures. The letter also states that surveys conducted found the contact radiation levels were 7-8 milliRoentgen per hour at the side and right angles from the face plate window cover and 15-20 milliRoentgen per hour at the face plate end. The letter goes on to state that wipe tests were made of the gauging device both before and after the removal of the gauge and no removable contamination was detectable. This letter also states that the gauge and its detector

system were placed into a lead lined battery case, tagged, secured and posted with a Caution Radioactive Materials sign.

A letter from Nuclear-Chicago, Texas Nuclear Division, the gauge vendor, dated September 26, 1972, provided instructions to the licensee on the removal, packaging, and shipping of the gauge back to the vendor. A document maintained by the licensee titled "Record of Radioactive Material" indicates that the gauge and its associated source were transferred to the vendor on October 18, 1972.

On June 7, 1974, the licensee requested the cancellation of License 36-14803-01. License 36-14803-01 was terminated by the AEC on June 25, 1974.

The inspector contacted the radiation safety officer (RSO) and manager, regulatory affairs, TN Technologies, Inc., the successor company to Nuclear-Chicago, Texas Nuclear Division. This individual searched his company's records for any information regarding the receipt of the gauge and source, and any leak tests that may have been performed on receipt. He reported that after extensive records search he was not able to find any additional information regarding the gauge or source, but he had no reason to doubt that it had been received by his company.

The licensee's RSO contacted a number of current and previous employees and was able to establish that the Dredge Wahkiakum was sold to a Mr. Art Riediel sometime after the September 9, 1972, fire. Mr. Riediel referred the RSO to Mr. Ron Suslur, a former employee who was most likely to recall details regarding the Dredge Wahkiakum. Mr. Suslur recalled that when they received the vessel, most of the equipment had been removed including the dredge equipment. Mr. Riediel's company salvaged the rest and converted the vessel into a space barge. At first, Mr. Suslur remembered that the vessel had been sold to International Marine Incorporated, of Rainier, Oregon, but in a later conversation with the inspector he thought that it could have been the Manson Construction Company of Seattle, Washington. The inspector confirmed with Mr. Bruce Norris of International Marine Incorporated that they did not own the former Dredge Wahkiakum, but they owned the sister vessel Multnomah. The National Vessel Documentation Center records indicated that the managing owner of the vessel Wahkiakum was Manson Construction Company, of Seattle, Washington. Mr. Patrick McGarry of Manson Construction Company confirmed that they owned the vessel and that it was moored at the Port of Los Angeles, California.

Conclusions:

1. On September 9, 1972, a fire severally damaged the Dredge Wahkiakum.
2. Visual examination and radiation surveys conducted by a knowledgeable individual indicated that the gauge and source had not suffered severe damage.
3. Wipe tests were conducted on the gauging device after the fire and no removable contamination was detectable.
4. On October 18, 1972, the gauge and source were shipped to an authorized recipient, the vendor.

5. The dredging equipment was removed from the vessel before the vessel was sold.
6. There is no indication that the source leaked.

Therefore, Region IV recommends the closure of this terminated sealed source file.

ATTACHMENT 7

Final ORNL Score: 1

Docket No. 030-05174

License No. 25-08686-01

Licensee Name: Hoerner-Waldorf Paper Products Company
Drawer D
Missoula, Montana 59801

Site Name: Hoerner-Waldorf Paper Products Company

Site Address: 14377 Pulp Mill Road
Missoula, Montana 59806-4707

Regional Contact: Robert Evans, PE, CHP, Health Physicist
Nuclear Materials Inspection Branch
Division of Nuclear Materials Safety
Region IV

Status Summary:

Byproduct Materials License 25-08686-01 was issued by the Atomic Energy Commission to Hoerner-Waldorf Paper Products Company (Waldorf) on August 9, 1962, for possession of krypton-85 for use in quality assurance testing. Records provided in the docket file indicated that at the time of license issuance, Waldorf possessed one fixed nuclear gauge. The license was amended on August 31, 1964, to include cesium-137 sources in fixed gauges. This docket file was reviewed by Oak Ridge National Laboratory (ORNL), and ORNL subsequently concluded that the docket file had incomplete radioactive material disposition information.

Information provided in Docket File 030-09886 revealed that Waldorf filed a renewal application for NRC License 25-08686-01 by letters dated October 10 and 12, 1973. On November 9, 1973, the NRC issued Byproduct Material License 25-08686-02 to Waldorf because the initial license had already expired. Information provided in Docket File 030-09886 also indicated that the licensee possessed multiple gauges which it used until the second license was terminated on September 18, 1986.

A telephone conversation with Mr. Neal Marxer, Technical Services Manager, for the Stone Mill, and Mr. Ron Menga, Legal Department, for Stone Container Corporation (Stone), revealed that Waldorf was purchased in its entirety by Champion International Corporation (Champion) on or about 1977 and became known as the Hoerner-Waldorf Division of Champion. Mr. Menga indicated that records are no longer available to verify the exact date of transfer due to the nature of the acquisition. Champion was subsequently purchased by Stone on February 28, 1986. All assets, including any byproduct material contained in fixed gauges were transferred to Stone, and a Byproduct Material License was issued by the NRC to Stone.

Information provided in Docket File 030-29369 revealed that Stone Container Corporation (Stone) filed an initial license application on June 30, 1986. On September 18, 1986, the NRC issued Byproduct Material License 25-26842-01 to Stone. Stone is a current NRC licensee.

A review of the docket files for Waldorf, Champion, and Stone, and current inventory records possessed by Stone, did not reveal specific information about the actual disposition of the sources identified in the ORNL docket file review. Stone's inventory records include the same manufacturer and model of gauging devices; however, the inventory records included only sources obtained since 1979. Disposal records possessed by the original manufacturer of the gauging devices extend back to 1981; however, a records search conducted by the manufacturer failed to identify the return of the ORNL identified sources.

Each licensee has been on a routine NRC inspection schedule, and inventories have been verified through the inspection process. Docket file records indicate the licensees have a history of properly acquiring and disposing of sources. Improper receipt or disposal of any gauge would have been identified during the inspection process. Stone was last inspected on June 9, 1998, and no violations were identified.

In conclusion, the NRC docket file review was unable to substantiate the actual disposition of the sources identified by ORNL. However, based on each licensee's long history of proper acquisition and disposal of other sources, it is likely that the sources identified by ORNL were disposed of in an appropriate manner. **Region IV recommends the closure of this terminated sealed source file.**