

APPENDIX

U. S. NUCLEAR REGULATORY COMMISSION
REGION IV

NRC Inspection Report 30-5958/83-01

License: 35-13214-01

Docket: 30-5958

Licensee: Jetco, Incorporated
P. O. Box 94670
Oklahoma City, OK 73109

Inspection At: Oklahoma City and Woodward, OK

Inspection Conducted: February 14-15, 1983

Inspector:

R. J. Everett for
C. L. Cain, Radiation Specialist

2/24/83
Date

Approved By:

R. J. Everett
R. J. Everett, Chief, Materials Radiation
Protection Section

2/24/83
Date

Inspection Summary

Inspection conducted on February 14-15, 1983 (Report: 30-5958/83-01)

Areas Inspected: Unannounced special inspection of well logging operations stemming from allegations by two former licensee employees. Areas reviewed included organization, management, and training; sealed source operations; tracer and fluid flow operations; and allegations review. The inspection involved 7 hours onsite by one NRC inspector.

Results: No violations or deviations were identified.

REASON FOR SPECIAL INSPECTION

On December 13, 1982, a former employee of the licensee telephoned the NRC Region IV office to allege that he had been required by the licensee's Oklahoma City office to use an americium-beryllium sealed source without radiation safety training or proper dosimetry equipment (Allegation No. 4-82-A-72).

On January 19, 1983, a second former employee telephoned the office to make similar allegations in regard to his work at the licensee's Woodward, Oklahoma, office (Allegation No. 4-83-A-3). This second allexer also stated that radioactive material storage bunkers at Woodward were subject to flooding, placards were not used on trucks when radioactive material was transported, radioactive material was buried on the licensee's premises, and a pregnant woman was allowed in a restricted area where radioactive material was being used.

SCOPE OF INSPECTION

On February 14, 1983, an NRC inspector performed a special inspection of licensed activities at the Oklahoma City office of the licensee. On February 15, 1983, a similar inspection was performed at the licensee's facilities in Woodward, Oklahoma.

CONCLUSIONS

The inspection failed to identify any evidence that would support the allegations. Also, no violations of NRC regulations or license conditions were identified.

DETAILS

1. Persons Contacted

- Joe P. Shoffstall, President
*Stan Kittrell, Vice President and Radiation Safety Officer (RSO)
Robert Trosper, District Manager, Oklahoma City
Fred Kunselman, District Manager, Woodward
**Alleger A, former employee at the Oklahoma City facility

*present at exit briefing
**interviewed by telephone

The inspector also interviewed two technicians employed by the licensee.

2. Licensee Action on Previous Inspection Findings

(Closed) Violation (30-5958/82-01): Use of licensed material by unauthorized individuals. The licensee had amended the license to include all qualified users. The inspector verified that all users were authorized by license.

(Closed) Violation (30-5958/82-01): Failure to post regulations and license. The inspector verified that the licensee had taken action to assure that such documents are posted.

(Closed) Violation (30-5958/82-01): Failure to post Form NRC-3. The inspector verified that the licensee had taken action to assure that this document is posted.

3. Organization, Management, and Training

The inspector found that the management staff was identical to that identified in the previous inspection on January 8, 1982, and to that described in the license application. The licensee stated, and the use logs confirmed, that all personnel who have used radioactive materials are listed as authorized users in License Condition 12. Records indicated that each user had completed radiation safety training conducted by a licensee consultant.

The inspector also reviewed records of monthly management inspections of licensed material storage areas which have included an instrument survey. All documents referenced by 10 CFR 19.11 were observed to be posted, or available for employee review, including operating and emergency procedures and film badge results. The licensee stated that there had been no theft or loss of radioactive material including downhole losses of sealed sources. The licensee has been responsive to requests for exposure data by former employees per 10 CFR 19.13 as evidenced by a request from Alleger A dated December 1, 1982. The licensee's written response to the individual dated December 8, 1982, stated that the individual had not worked with radioactive materials and no exposure had been received.

The inspector reviewed monthly film badge data for personnel at both of the licensee's facilities and found the highest recorded annual whole body exposure to be 55 millirems for 1982. At the Woodward facility all employees had been issued film badges, although only two persons used licensed material.

No well logging operations utilizing licensed material were in progress at either facility at the time of the inspection; therefore, the inspector was unable to review the licensee's material handling capabilities.

4. Sealed Source Operations

The licensee was found to possess a 3-curie americium-241 source at the Oklahoma City facility and a 125-millicurie cesium-137 source at the Woodward facility. The latter, according to the licensee, had not been used in many years and was in storage status per License Condition 13.A(2). Thus, all sealed source activities were performed by the Oklahoma City office.

The inspector noted that the Am-241 source was of the design specified by the license and had been leak tested at 6-month intervals. The wipe tests had been performed by the licensee and analyzed by the source manufacturer. All results had been less than the 0.005 microcurie limit.

The licensee's storage facilities were as described in the license and consisted of a capped underground pipe located within a fenced compound. The inspector initially found the pipe cap to be latched and padlocked. The inspector performed an instrument survey of the pipe before and after source removal and found this facility to adequately secure and shield the radioactive material. The area was found to be properly posted per 10 CFR 20.203, and the licensee's two portable survey instruments were found to be operable. Instrumentation had been subject to two-point calibration semiannually by the sealed source vendor, the records of which were reviewed by the inspector.

The inspector reviewed the radioactive material use logs and found that the source had been used on 17 occasions during 1982. These records also documented results of surveys performed during source removal, transport, use, and storage. The licensee had neither received, transferred, or disposed of licensed material since the last inspection.

The licensee was found to possess a DOT Specification 7A container for the sealed source, although package and sealed source test certificates had not been obtained. All trucks were equipped with hinged placards. The inspector found package labeling and shipping papers to be absent, but no material was being transported at the time of the inspection.

5. Tracer and Fluid Flow Operations

Whereas all sealed source operations were performed by the Oklahoma City office, all tracer and fluid flow operations were performed by personnel at the Woodward office. Use of iodine-131 for fluid flow analyses had

been performed on numerous occasions, approximately 100, during the past 2 years; however, tracer studies using iridium-192 sand had been performed on only two occasions. Licensee records of receipt, use, and disposal of licensed material showed no evidence of possession limits being exceeded. The licensee also maintained records of radiation surveys performed upon material receipt, transport, use, and storage. The licensee stated that radioactive material is disposed downhole or is held for decay.

The licensee's radioactive material storage facilities were similar to those in Oklahoma City and were found by the inspector to be padlocked, well shielded, and properly posted. The inspector tested one of two survey instruments maintained at the Woodward facility and found it to be operable. Calibration records were found to be orderly and similar in format to those maintained at the Oklahoma City office. Licensee status in regard to DOT requirements also was similar to that of the Oklahoma City office.

6. Allegations Review

Having found no violations during the inspection, the inspector outlined the content of the former employees' allegations and asked for the licensee's response. The licensee stated his belief that the allegers were only reacting to their recent firings. The licensee denied all of the stated allegations.

The inspector found no evidence to support the allegations, although some of the conditions described by the allegers, such as use of material without proper dosimetry, were impossible to evaluate. The inspector observed no evidence of storage receptacle flooding and noted the licensee's issuance of film badges to nonusers to be a sign of good faith on the part of the licensee. The licensee stated that although a pregnant secretary had worked at the Woodward facility, she had not been exposed to radioactive material. The licensee also stated that although certain materials had been buried on the licensee's premises, radioactive material had not been so discarded. Finally, the licensee stated that all radioactive materials had been used only in the presence of authorized users and that proper dosimetry had been used in each instance.

The inspector telephoned Allegor A on February 15, 1983, informed him of the inspection results, and asked for any other evidence of wrongdoing that could be reviewed by the inspector. None was proffered by the allegor. An attempt to contact the allegor formerly employed at Woodward failed. His telephone had been disconnected. The licensee stated that he had received documentation regarding unemployment compensation for this individual which indicated that he was now residing in California.

7. Exit Interview

The inspector met with the Vice President on February 15, 1983, and summarized the purpose, scope, and findings of the inspection.

Cain, Charles L.

REVIEWER

INSPECTOR'S REPORT
Office of Inspection and Enforcement

INSPECTORS

LICENSEE/VENDOR

TRANSACTION
TYPEDOCKET NO. (8 digit) OR LICENSE
NO. (BY PRODUCT) (13 digit)

REPORT

NEXT INSP. DATE

NO

SEQ

MO

YR

Jetco, Inc.

I - INSERT

M - MODIFY

D - DELETE

R - REPLACE

03005958

8301

A

02

86

PERIOD OF INVESTIGATION/INSPECTION

INSPECTION PERFORMED BY

ORGANIZATION CODE OF REGION/HQ CONDUCT-
ING ACTIVITY (See IEMC 0530 "Manpower Report-
ing-Weekly Manpower Reporting" for code)

REGION

DIVISION

BRANCH

FROM

TO

1 - REGIONAL OFFICE STAFF

OTHER

MO

DAY

YR

MO

DAY

YR

2 - RESIDENT INSPECTOR

3 - PERFORMANCE APPRAISAL TEAM

021483021583

4

8

A

REGIONAL ACTION
(Check one box only)

TYPE OF ACTIVITY CONDUCTED (Check one box only)

1 - NRC FORM 591

2 - REGIONAL OFFICE LETTER

02 - SAFETY

03 - INCIDENT

04 - ENFORCEMENT

05 - MGMT. AUDIT

06 - MGMT. VISIT

07 - SPECIAL

08 - VENDOR

09 - MAT. ACCT.

10 - PLANT SEC.

11 - INVENT. VER.

12 - SHIPMENT/EXPORT

13 - IMPORT

14 - INQUIRY

15 - INVESTIGATION

INSPECTION/INVESTIGATION FINDINGS
(Check one box only)TOTAL NUMBER
OF VIOLATIONS AND
DEVIATIONSENFORCEMENT CONFERENCE
HELDREPORT CONTAIN 2,790
INFORMATION

LETTER OR REPORT TRANSMITTAL DATE

A B C D

1 - CLEAR

2 - VIOLATION

3 - DEVIATION

4 - VIOLATION & DEVIATION

A

B

C

D

A

B

C

D

A

B

C

D

MO

DAY

YR

MO

DAY

YR

030183

1 - YES

1 - YES

MODULE INFORMATION

MODULE INFORMATION

REC ORD	MODULE NUMBER INSP	PRIORITY	DIRECT INSPEC- TION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED	TO DATE	STATUS	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL	REC ORD	MODULE NUMBER INSP	PRIORITY	DIRECT INSPEC- TION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED	TO DATE	STATUS	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL
B	5777103	B	001								B										
		B																			
		C																			
		D																			
B	5777103	B	004	100	C						B										
		B																			
		C																			
		D																			
B	5867403	B	001	100	C						B										
		B																			
		C																			
		D																			
B	592706	B	001								B										
		B																			
		C																			
		D																			

* CIRCLE SEQUENCE IF
VIOLATION OR DEVIATION