

SAFETY INSPECTION

1. LICENSEE

Valley Industrial X-Ray
6732 Fruitvale Ext., Bay #7
Bakersfield, CA 93312

2. REGIONAL OFFICE

U. S. Nuclear Regulatory Commission
Region V
1450 Maria Lane, Suite 210
Walnut Creek, CA 94596

3. DOCKET NUMBER(S)

15-000004

4. LICENSE NUMBER(S)

4182-15 (Calif.)

5. DATE OF INSPECTION

May 21, 1990

Licensee:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission's (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews, with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:

- 1. Within the scope of this inspection, no violations were observed.
- 2. The inspector also verified the steps you have taken to correct the violations identified during the last inspection. We have no further questions on those actions at this time.
- 3. During this inspection certain of your activities, as checked below, were in violation of NRC requirements. THIS IS A NOTICE OF VIOLATION which is required to be posted in accordance with 10 CFR 19.11.
 - A. _____ was not properly posted to indicate the presence of a _____, 10 CFR 20.203(b), (c), (d), (e) or 34.42.
 - B. Containers located in _____ were not properly labeled to indicate the presence of radioactive material. 10 CFR 20.203(f)(1), or (f)(2).
 - C. _____ of sealed sources were not performed at the proper frequencies. 10 CFR _____ License Condition Number _____
 - D. Records of Survey meter calibration, film badges, quarterly maintenance & audits were not properly maintained. 10 CFR 34.24, 34.33, 34.28 and 34.11 or License Condition Number _____
 - E. Documents were not properly posted or otherwise made available. 10 CFR 19.11.
 - F. Reports or notifications of _____ were not made in accordance with 10 CFR _____ or License Condition Number _____
 - H. FAILURE TO NOTIFY THE NRC IN ACCORDANCE WITH 10CFR PART 150 OF ACTIVITIES OF AGREEMENT STATE LICENSEE AT EDWARDS AIR FORCE BASE ON 3/24/89 & 10/26/89.
 - I. _____
 - J. FAILURE TO RECORD UTILIZATION LOG INFORMATION AT 10/26/89 JOB SITE (EDWARDS AIR FORCE BASE) IN ACCORDANCE WITH 10 CFR 34.27
 - K. _____

I hereby state that within 30 days the actions described by me to the inspector will be taken to correct the violations identified in the items checked above. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201. No further response will be submitted unless required by the NRC.

Laura Williams
SIGNATURE - LICENSEE

5-21-90
DATE

James J. Montgomery
SIGNATURE - NRC INSPECTOR

5/21/90
DATE

9006140375 XA

APR 23 1990 13:56

5500 RBW-MSIAC BITS

P02

P.1



Valley Industrial X-Ray
& INSPECTION SERVICES INC.
(805) 825-VIXR

6732 Fruitvale Ext. Bay #07, Bakerfield, CA 93311

FACSIMILE TRANSMISSION

TRANSMITTED TO FACSIMILE #: 205-258-1636 or 1655

DATE: 10-26-89 TO: _____

ATTN: Timothy Stjard SLPB

FROM: Vixr

SUBJECT: License # 4182-15 Amendment # 2 + 3

NOTE: Sending full copy of license with
memo today.

TOTAL NUMBER OF PAGES (including this cover sheet): 2

IF YOU DO NOT RECEIVE ALL PAGES PLEASE CALL:

NAME: Haru PHONE: 325-8497

Our facsimile telephone number is (805) 325-599
Transmitting Equipment: RICO FAX10

Sender: _____

cc: _____

APR 23 '90 13:57
OCT 28 '89 11:38 VALLEY INDUSTRIAL X-RAY
State of California--Health and Welfare Agency

6500 ABW-MSIAC BITS

VALLEY INDUSTRIAL X-RAY

P83

P. 2

Department of Health Services

Page 1 of 1

License Number 4182-15

Amendment Number 2

RADIOACTIVE MATERIAL LICENSE

Supplementary Sheet

Valley Industrial X-Ray
9527 Langley Road
Bakersfield, CA 93312

Attention: Larry Williams
Radiation Safety Officer

In response to the letters with attachments dated August 1, 1989 and September 1, 1989, both signed by Larry Williams, License Number 4182-15 is hereby amended in part as follows:

To add:

- 11. (z) Allen J. Jones
- (aa) Aaron Campbell

For the State Department of Health Services

Date September 29 1989

by


Radiation Health Branch

RADIOACTIVE MATERIAL LICENSE

Supplementary Sheet

Valley Industrial X-Ray and
Inspection Services, Inc.
9521 Langley Road
Essexfield, CA 93312

Attention: Larry Williams
Radiation Safety Officer

In response to the letter dated April 1, 1987, signed by Larry Williams,
License No. 4182-15 is hereby amended in part as follows:

To read:

11. The individuals listed below are the only persons authorized to act as
radiographer under this license:

- | | |
|--------------------|-----------------------|
| (a) Ken Pratt | (e) Dan Esby |
| (b) Wayne Pratt | (f) Steve Williams |
| (c) James L. White | (g) Larry Williams |
| (d) John Barnes | (h) Isaac J. Bertrant |

To add:

21. (c) The letter dated February 20, 1987, signed by Ken W. Pratt.

For the State Department of Health Services

Date April 23, 1987

[Signature]

FORM APPROVED BY
3140 D-3
EXPIRES 10-31-83

U.S. NUCLEAR REGULATORY COMMISSION

REPORT OF PROPOSED ACTIVITIES IN NON-AGREEMENT STATES

(Please read the instructions on the cover sheet before completing this form)

1. NAME OF LICENSEE (Person or firm proposing to conduct the activities described below) VALLEY INDUSTRIAL X-RAY	2. ADDRESS OF LICENSEE (Mailing address if different from where licensed may be used) 6732 FRUITVALE EXT BAKERSFIELD CA 93308
--	---

3. NAME OF PERSON AUTHORIZED BY LICENSEE TO PERFORM ACTIVITY
JEFF BAY

4. DESCRIPTION OF ACTIVITIES TO BE CONDUCTED IN NON-AGREEMENT STATES UNDER THE GENERAL LICENSE GIVEN IN 10 CFR 140.20
X-RAY INSPECTION ON 1/2 SOCKET WELDING

5. LOCATIONS AT WHICH THESE ACTIVITIES WILL BE CONDUCTED AND DATES SCHEDULED

STREET AND NUMBER OR OTHER LOCATION (Give full number or address if possible)	CITY AND STATE	DATES SCHEDULED
EDWARDS AFB	CALIF	

6. LIST ALL SOURCE OR DEVICES CONTAINING SEALED SOURCES WHICH WILL BE POSSESSED, USED, INITIAL, OR TESTED IN NON-AGREEMENT STATES (Include description of type and quantity of rad active material contained therein)

500MAKENTURY IR192 25 SOURCES

7. NUMBER OF SPECIFIC LICENSE AND NAME OF STATE ISSUING SUCH SPECIFIC LICENSE WHICH AUTHORIZES YOU TO CONDUCT ACTIVITIES WHICH ARE THE SAME, EXCEPT FOR LOCATION OF USE, AS THOSE SPECIFIED IN ITEM 4 AND 5 OF THIS REPORT (If specific license filed accompany this report)
CALIFORNIA 4182-5

CERTIFICATE

8. I, THE UNDERSIGNED, HEREBY CERTIFY THAT:

8.1 The information furnished is true and complete.

8.2 I understand the provisions of the general license 10 CFR 140.20 reproduced on the cover sheet of this form set, and I understand that I am required to comply with these provisions as to all byproduct, source, or special nuclear material which I possess, store, use, or transport in non-agreement states under the general license for which this report is filed with the U.S. Nuclear Regulatory Commission.

8.3 I understand that activities, including storage, conducted in non-agreement states under general license 10 CFR 140.20 are limited to a total of 180 days in any calendar year.

DATE
10-25-89

LICENSEE'S NAME (TYPE OR RA)
LARRY L. ...

SIGNATURE
[Signature]

TITLE
RSC

STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES

3
Page 1 of _____ pages

RADIOACTIVE MATERIAL LICENSE

Pursuant to the California Administrative Code, Title 17, Chapter 5, Subchapter 4, Group 2, Licensing of Radioactive Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, use, possess, transfer or dispose of radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations, and orders of the Department of Health Services now or hereafter in effect and to any conditions specified in this license.

1. Licensee Valley X-Ray Services-Bakersfield 360 South Union Ave., Suite B 2. Address Bakersfield, CA 93307 Attn: Ken W. Pratt Radiation Safety Officer		3. License No. 4182-56 Amendment no. 4. Expiration date May 5, 1990 5. Inspection agency Div. of Occupational Safety & Health - S
6. Nuclides	7. Form	8. Possession limit
A. Iridium-192	A. Sealed sources (Gamma Industries Model A-1-A, A-2-A)	A. and B. - 3 sources not to exceed 100 Curies each.
B. Iridium-192	B. Sealed sources (Gulf Nuclear Model RG-13, RGSA-13)	
9. Authorized use		
A. To be used in Gamma Industries projectors Model Century S or SA (compatible with A-2-A only) for industrial radiography and in Gamma Industries Model C-10 source changers for storage and replacement of sources.		
B. To be used in Gulf Nuclear projectors Model 20V for industrial radiography and Gulf Nuclear Model U-110 source changers for storage and replacement of sources.		
10. Radioactive material may be used only at the following locations:		
(a) the licensee's address stated in Item 2 above, for storage only.		
(b) Temporary job sites of the licensee throughout the State of California, except areas under exclusive Federal jurisdiction.		
11. The individuals listed below are the only persons authorized to act as radiographers under this license:		
(a) Ken Pratt		
(b) Wayne Pratt		
12. The radiation safety officer in this program shall be Ken Pratt.		

(cont'd)

State of California—Health and Welfare Agency

Department of Health Services

Page 2 of 3 pagesLicense Number 4182-56

Amendment Number _____

RADIOACTIVE MATERIAL LICENSE

Supplementary Sheet

This license is subject to all numbered conditions below.
Conditions to which this license is not subject are marked N/A.

13. This license is subject to an annual fee of four hundred twenty (420) dollars due and payable on the anniversary of the date of issue of this license, MAY 5, 1983.
14. Tests for leakage and/or contamination of sealed sources shall be performed only by persons specifically authorized to perform that service.
15. The following individuals are authorized to collect wipe test samples of sealed sources possessed under this license using leak test kits acceptable to the State Department of Health Services:
- (a) The radiation safety officer or qualified radiographer designated by the radiation safety officer.
16. Pursuant to California Radiation Control Regulations, the licensee is authorized to possess up to 899 kilograms (2203 pounds) of natural or depleted uranium used for purposes of shielding or collimation in radiographic exposure devices listed in Item 9 of this license.
17. At any time the licensee is engaged in the performance of industrial radiography by authority of this license, at either a permanent or a temporary job site, he shall have a current copy of each of the following documents available for inspection at the site:
- (a) California Radiation Control Regulations
(b) This license
(c) The licensee's operating and emergency procedures
18. The licensee shall not authorize any radiographer to use any model of a radiographic exposure device, related handling tool, or radiation survey instrument until the radiographer has been trained in the use of such equipment, and has demonstrated competence in its use. For each radiographer, the licensee shall maintain the following records available for inspection:
- (a) Training received by the radiographer in the use of such equipment, including dates, duration, and name of instructor.
(b) Each model of radiographic exposure device for which the radiographer has demonstrated competence in its use, including date of demonstration of competence.
19. (a) The licensee shall conduct refresher training for all radiographers and radiographers' assistants at intervals not to exceed six months. Such training shall include, but not be limited to:
- (1) California Radiation Control Regulations, with emphasis on Sections 30330-30334.
 - (2) Subject matter listed in Section 30335 of California Radiation Control Regulations.
 - (3) This license.
 - (4) The licensee's operating and emergency procedures, with emphasis on any changes which have been made within one year.
 - (5) Equipment used under this license for performance of industrial radiography with emphasis on equipment which has been used by the licensee for less than one year.
 - (6) Prevention of overexposures of personnel, with emphasis on prevention of actions and circumstances within the past year which have caused, or threatened to cause, overexposures.
- (b) The licensee shall maintain available for inspection records of refresher training described in (a) above, including:
- (1) Names of instructors
 - (2) Names of individuals trained
 - (3) Dates and duration of training
20. Sources of radioactive material shall be changed in each radiographic projector only in accordance with instructions of the distributor of the source changer. The individuals listed below are the only ones authorized by this license to change sources in radiographic projectors:
- (a) The radiation safety officer or qualified radiographer designated by the radiation safety officer.
21. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in the following documents:
- (a) The letter with attached application dated January 31, 1983, signed by Ken W. Pratt.

(cont'd)

State of California—Health and Welfare Agency

Department of Health Services

Page 3 of 3 pages

License Number 4182-56

Amendment Number _____

RADIOACTIVE MATERIAL LICENSE

Supplementary Sheet

continued

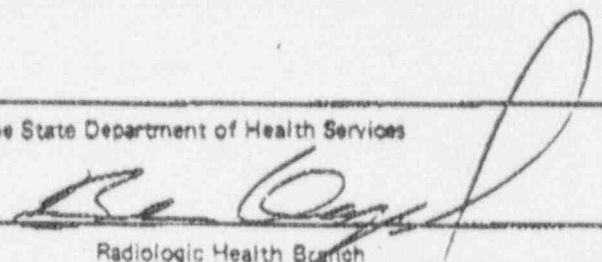
21, (documents) cont'd

(b) The letter with attachments dated April 19, 1983, signed by Ken W. Pratt.

For the State Department of Health Services

Date May 5, 1983

by



Radiologic Health Branch
714 P Street, Sacramento, CA 95814

RADIOACTIVE MATERIAL LICENSE

Supplementary Sheet

Valley Industrial X-Ray and
 Inspection Services, Inc.
 9527 Langley Road
 Bakersfield, CA 93312

Attention: Larry Williams
 Radiation Safety Officer

In response to the letter dated April 1, 1987, signed by Larry Williams,
 License No. 4182-15 is hereby amended in part as follows:

To read:

11. The individuals listed below are the only persons authorized to act as
 radiographer under this license:

- | | |
|--------------------|-----------------------|
| (a) Ken Pratt | (e) Dan Essy |
| (b) Wayne Pratt | (f) Steve Williams |
| (c) James L. White | (g) Larry Williams |
| (d) John Barnes | (h) Isaac J. Bertrant |

To add:

21. (c) The letter dated February 20, 1987, signed by Ken W. Pratt.

For the State Department of Health Services

Date April 23, 1987

by Quard-Coxe

Radiologic Health Branch

RADIOACTIVE MATERIAL LICENSE

Supplementary Sheet

Valley Industrial X-Ray
9527 Langley Road
Bakersfield, CA 93312

Attention: Larry Williams
Radiation Safety Officer

In response to the letters with attachments dated August 1, 1989 and September 5, 1989, both signed by Larry Williams, License Number 4182-15 is hereby amended in part as follows:

To add:

- 11. (z) Allen J. Jones
- (aa) Aaron Campbell

For the State Department of Health Services

Date September 19, 1989

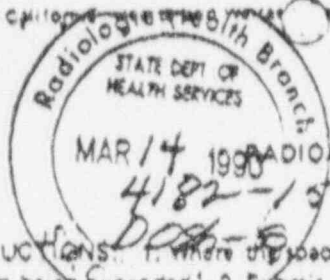
by  1

Radiologic Health Branch

RENEWAL

State of California Department of Health Services

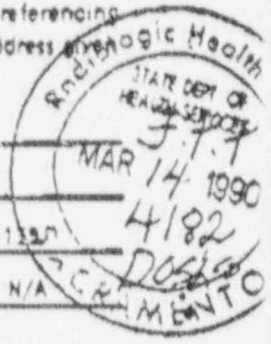
Radiologic Health Branch
766 P Street
Sacramento, California 95814



Timely - Consider

RADIOACTIVE MATERIAL LICENSE APPLICATION
Use of Sealed Sources in Radiography*

INSTRUCTIONS: 1. Where the space provided on this form is insufficient, attach supplemental sheets referencing the part being expanded. 2. Submit all material in duplicate to the Radiologic Health Branch at the address above. 3. See APPLICANT'S GUIDE-INDUSTRIAL RADIOGRAPHY for additional information.

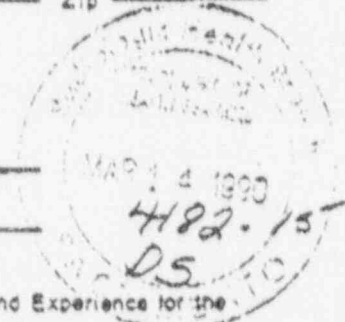


1. a. Name of applicant VALLEY INDUSTRIAL X-RAY & INSPECTION SERVICES INC.
 b. Mailing address Number and Street P.O. BOX 81135
 City and State Bakersfield, CA Zip 93380-1135
 c. Telephone number Area Code (805) Number 325-8497 Extension N/A
 2. a. Type of organization: Individual Partnership Corporation
 Unincorporated Association Other

- b. List all addresses at which sealed sources will be used and/or stored.
 Sealed sources will be used at temporary job sites in California Yes No
 Street address 6732 Fruitvale Ext. Bay #7 City Bakersfield, CA Zip 93308
 Street address _____ City _____ Zip _____
 Street address _____ City _____ Zip _____

- c. This is an application for:
 A new radioactive material license

RENEWAL Renewal of radioactive material license No. 4182-15
 Amendment to radioactive material license No. _____



3. Radiation safety officer and individual users:
 List radiation safety officer below, Attach Form RH 2050-RA, Statement of Training and Experience for the radiation safety officer and each radiographer.

4. SEALED SOURCES TO BE USED IN RADIOGRAPHY

BYPRODUCT MATERIAL (Element & Mass. No.)	SOURCE MODEL NUMBER	NAME OF MANUFACTURER	MAXIMUM ACTIVITY PER SOURCE	NUMBER OF SOURCES
A. IRIIDIUM 192	A. ROSA 13 RS 13	A. AMERSHAM	A.100 Curies	A. 12
B. IRIIDIUM 192	B. 2, B	B. INDUSTRIAL NUCLEAR	B.100 Curies	B. 12
C. IRIIDIUM 192	C. G1, G3	C. SPEC	C.100 Curies	C. 12

5. RADIOGRAPHIC EXPOSURE DEVICES AND/OR STORAGE CONTAINERS TO BE USED WITH SOURCES LISTED ABOVE Per Use At/In

MODEL NUMBER	NAME OF MANUFACTURER <small>(If design made, attach complete design and specification)</small>	Temporary Site	Fixed Facility
A. Century S or SA	A. GAMMA INDUSTRIES	YES	YES
B. 2T	B. SPEC	YES	YES
C. 20V	C. GULF NUCLEAR	YES	YES

*NOTE: ITEMS ITALICIZED DENOTE MATERIAL (ATTACHED SUPPLEMENTAL SHEETS INCLUDED) WHICH WILL BE MADE CONDITIONS OF ANY LICENSE ISSUED SUBSEQUENT TO THIS APPLICATION. LICENSE CONDITIONS ARE BINDING AND MAY NOT BE MODIFIED EXCEPT BY LICENSE AMENDMENT.

6. THE FOLLOWING INFORMATION IS ATTACHED AS A PART OF THIS APPLICATION: (Check appropriate blocks and attach information called for in the instructions with this form.)

	Not Applicable	Attached	If previously submitted, supply the date and attach readable copy
(a) Description of radiographic facilities (Instruction 6-a)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> on AMENDMENT 24
(b) Description of radiation detection instruments to be used	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> on
(c) Instrument calibration procedures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> on
(d) Personnel monitoring equipment. Specify badge change frequency	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> on
(e) Operating and emergency procedures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> on
(f) Training program	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> on
(g) Internal inspection system or other management control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> on
(h) Overall organizational structure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> on
(i) Leak testing procedures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> on

(date)

7. LEGAL STRUCTURE OF APPLICANT

If applicant is a corporation, complete items a through c; if applicant is a partnership, complete items d through f; if applicant is an unincorporated association or a legal entity other than a partnership or corporation, complete items g and h. Attach separate sheets where space provided proves inadequate.

(a) Is applicant corporation directly or indirectly controlled by another corporation or other legal entity? Yes No
If answer is "YES" give name and address of other corporation or other legal entity and describe how such control exists and the extent thereof.

(b) (1) Identify by name and address any individual, corporation, or other legal entity (i) owning 10 percent or more of the stock of applicant corporation issued and outstanding or (ii) subscribing to 10 percent or more of the authorized but unissued stock of the corporation.
(2) Identify by name and address all officers and directors of the corporation.

LARRY WILLIAMS
1917 Renfro Road
Bakersfield, CA. 93312

TERRY CAMPBELL
7009 Saddlebeck
Bakersfield, CA. 93309

(c) Identify the state, district, territory, or possession under the laws of which the applicant is incorporated.
CALIFORNIA

PARTNERSHIP

(d) Name and address of each individual or legal entity owning a partnership interest in the applicant.

(e) State the percent of ownership of the applicant partnership held by each of the individuals or legal entities listed in item d.

(f) Identify the state, district, territory, or possession under the laws of which the applicant partnership is organized.

OTHER

(g) Describe the nature of the applicant and identify the state, district, territory, or possession under the laws of which it is organized.

(h) State the total number of members or persons holding an ownership in the applicant, identify each by name and address, and indicate the ownership thereof.

8. Certificate

The applicant and any official executing this certificate on behalf of the applicant named in Item 1 certify that all information furnished herein, including any supplements attached hereto, is true and correct.

VALLEY INDUSTRIAL X-RAY & INSPECTION SERVICES INC.

Applicant named in Item 1

Date 03/01/90

By

Larry Williams

Larry Williams

President/ RSO

Title of Certifying Official

VIXR - LICENSE RENEWAL 05/01/90
OPERATION & EMERGENCY PROCEDURES

PURPOSE

The purpose of this manual is to set forth radiation protection and operating procedures for Valley Industrial X-Ray & Inspection Services Inc. Compliance with procedures and instructions shall assure compliance with the rules and regulations of the State of California and the Nuclear Regulatory Commission.

This manual has been prepared for your protection and the protection of others. Follow all rules and regulations of this manual at all times.

All management and radiograph personnel must read this manual and periodically review its contents in order to maintain familiarity with current provisions herein. Each job site or radiographic unit shall have a copy of this manual available. All personnel shall be given a copy of this manual to retain and must strictly perform every requirement as set forth in this manual.



Valley Industrial X-Ray
& INSPECTION SERVICES INC.
(805) 325-VIXR Fax: (805) 325-8590

6732 Fruitvale Ext. Bay #07, Bakersfield, CA 93308

RADIATION SAFETY ORGANIZATIONAL CHART

RADIATION SAFETY OFFICER
LARRY WILLIAMS

ALTERNATE R.S.O.
TERRY CAMPBELL

TECHNICIANS & ASSISTANTS

VIXR - LICENSE RENEWAL 05/01/90
OPERATION & EMERGENCY PROCEDURES

Attachment B

1. Emergency Procedures
2. Radiographic Review & Interpretation (Form 002)
3. Radiographer Quarterly Check Off List (Form 003)
4. Leak Test (Form 004)
5. Instructions For Removing Spent Source (Form 005)
6. Gamma Industries C-10 Source Changer (Form 006)
Industrial Nuclear IR-50 Source Changer (Form 006A)
Spec C-1 Source Exchanger Operating Instructions (Form 006B)
Exchanging Source from Exposure Device to C-1 (Form 006C)
Model Spec 2-5 Operating Manual (Form 006D)
Spec-Check Model II Operating Manual (Form 006E)
Safety Inspection & Maintenance Procedures/Spec 2-5 (Form 006F)
Safety Inspection & Maintenance Procedures Spec-Check (Form 006G)
6. Quarterly Inspection Report (Form 007)
7. Gamma Industrial, Gamma Century S & SA
Description, Operation & Maintenance (Form 008)
8. Model 773 Cesium Calibration Device (Form 009)

Attachment C

Procedure for Shielded Room Facilities

VIXR - LICENSE RENEVAL 05/01/90
OPERATION & EMERGENCY PROCEDURES

VALLEY INDUSTRIAL X-RAY AND
INSPECTION SERVICES INCORPORATED
OPERATION & EMERGENCY PROCEDURES

VIXR - LICENSE RENEWAL 05/01/90
OPERATION & EMERGENCY PROCEDURES

- 3.8 "Dose"; radiation energy absorbed per unit mass, when this regulation specifies a dose to the whole body or major portion thereof, head and trunk, gonads, lens of the eye, or active blood forming organs.
- 3.9 "High Radiation Area"; any area, accessible to individuals in which there exists radiation at such levels that an individual could receive in any one hour a dose to the whole body in excess of 100 millirem.

4. RADIOGRAPHER QUALIFICATIONS

- 4.1 To qualify as a Radiographer with VIXR, a radiographer must demonstrate a knowledge of the fundamentals of radiation safety, including each of the following points:
- A. Characteristics of gamma radiation.
 - B. Units of radiation dose (mrem) and quantity of radioactivity (curie).
 - C. Hazards of excessive exposure of radiation.
 - D. Levels of radiation from licensed dose.
 - E. Methods of controlling radiation dose.
- 4.2 A Radiographer must demonstrate their ability to properly utilize radiation survey instruments, personnel monitoring equipment and demonstrate a thorough understanding of the survey techniques involved. He must be aware of the correct operation of such instruments, the calibration requirements, and the limitations of the instruments used. He must have a working knowledge of the primary mathematics involved in basic radiation calculations (see Form 001).

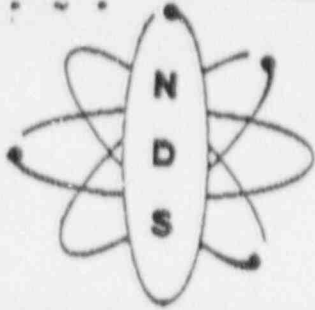
EMPLOYMENT EXAM - FORM 001

Before any Radiographer is employed by Valley X-Ray, Bakersfield, the questions on this form must be answered to the satisfaction of the Radiation Safety Officer (Larry Williams).

1. What is a Radiographer?
2. What is an Assistant Radiographer?
3. What is a survey meter, and when should it be used?
4. How often should a survey meter be calibrated?
5. Is it permissible to perform radiographic work without a survey meter?
6. What would you do if you broke your survey meter on a job site?
7. What is a film badge, and how is it used?
8. What is a dosimeter, and how is it used?
9. When should you recharge your dosimeter?
10. What would you do if your dosimeter went off scale?
11. Describe a sealed source.
12. A restricted area includes all areas where the survey meter indicates a count per hour of _____ mr.
13. What is meant by "HIGH RADIATION AREA"?
14. What is meant by "RADIATION AREA"?
15. Give three fundamental ways of avoiding damage from x-ray or gamma ray source.
16. How often should a pocket dosimeter be calibrated?
17. If an exposure time of 60 seconds and a source-to-film distance of 4 feet is necessary for a particular exposure, an exposure time of _____ seconds would be needed for an equivalent exposure if the source-to-film distance is changed to 6 feet.
18. The dose rate is 100 mr/hr at 12 feet from a source. The dose rate at _____ feet from this source is _____ mr/hr.

VIXR - LICENSE RENEVAL 05/01/90
OPERATION & EMERGENCY PROCEDURES

- 4.3 A Radiographer shall not be authorized to use any model of a radiographic exposure device or related handling tool until the Radiographer has been trained in the use of such equipment, and has demonstrated competence in its use (See Paragraph 15.1).
 - 4.4 To maintain the qualifications of a Radiographer, he must follow in detail, the instructions contained in these Administrative and Operating Procedures and permit no deviation from same. He must frequently study the requirements of the State of California and the Federal regulations pertaining to the use of By-Product Materials.
 - 4.5 This formal orientation is to instruct our personnel who are training to become Radiographers, in all of the subjects of the California Radiation Control Regulations, Title 17, Section 30250-230298. A written examination is required at the end of the course. Each Radiographer will be required to successfully complete a state approved radiation safety class of not less than forty (40) hours.
 - 4.6 Each Radiographer must satisfactorily complete the formal training course outlined in Paragraph 9.5.
 - 4.7 (Exceptions) Radiographers who have attended and satisfactorily completed a former accredited training course approved by the State of California, or have been qualified and named on a previous license by the State of California.
 - 4.8 All Radiographers and Assistants will receive instructions in practical aspects of radiography by Larry Williams.
 - 4.9 Our firm encourages attendance of various seminars on all phases of Radiography and Safety Procedures.
 - 4.10 On the job training is a continuous process whereby the Radiographer's Assistant is under the direct supervision and tutelage of a qualified Radiographer for at least four (4) months. During this time period the radiation safety officer will conduct on the job inspections of all Radiographer Assistants to determine their progress in radiation safety.
 - 4.11 A Radiographer must be listed on VIXR Services license prior to performing duties of radiographer.
5. RADIATION SURVEY INSTRUMENTS AND METHODS
- 5.1 A calibrated and operable radiation survey instrument must be used by the Radiographer to make the necessary physical radiation survey. Each instrument shall be calibrated at intervals not to exceed three (3) months and after each servicing these instruments shall have range such that two (2) milliroentgens per hour through one roentgen per hour can be measured. Calibration records are maintained for inspection.



NDS PRODUCTS

P.O. Box 1896
Pasadena, TX 77501

Off. 713 / 475-2986

OPERATION MANUAL
MODEL ND-2000C
RADIOGRAPHIC SURVEY METER
WITH DOSIMETER CHARGER

CONTENTS

PARAGRAPH		PAGE
1.0	USER CAUTION AND WARNINGS	1
2.0	WARRANTY	2
3.0	MECHANICAL SPECIFICATIONS	3
4.0	ELECTRICAL SPECIFICATIONS	3
4.1	POWER SUPPLY	3
4.2	MONOSTABLE MULTIVIBRATOR	4
4.3	METER AND TIME CONSTANT CIRCUIT	4
4.4	DETECTOR	4
5.0	SURVEY METER LIMITATIONS (SATURATION)	5
6.0	INSTRUMENT OPERATION	5
6.1	CHECKOUT	5
6.2	RANGE SELECTION	5
6.3	TO CHARGE (ZERO) DOSIMETER	6
7.0	MAINTENANCE	6
8.0	CALIBRATION PROCEDURE	7
9.0	CURRENT ADJUSTMENT PROCEDURE	8
10.0	BATTERY CHECK ADJUSTMENT PROCEDURE	8
11.0	SERVICING AND TROUBLE-SHOOTING	9
11.1	SURVEY METER	9
11.2	DOSIMETER CHARGER	10
12.0	PARTS LIST	11
13.0	CIRCUIT DIAGRAM	12

NOTE:

DUE TO NDS PRODUCTS' CONTINUING PROGRAM OF RESEARCH AND DEVELOPMENT, ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AND MAY BE VARIED AT OUR DISCRETION.



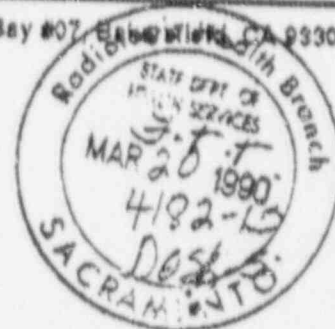
Valley Industrial X-Ray
& INSPECTION SERVICES INC.
(805) 325-VIXR Fax: (805) 325-8599

6732 Fruitvale Ext. Bay #07 Sacramento, CA 95308

March 5, 1990

State of California
Radiologic Health Branch
744 P Street
Sacramento, California 95814

Re: Adding Terry Campbell to license 4182-15
Alternating RSO - Terry L. Campbell



I would like at this time to amend our license 4182-15 to include Terry Campbell. I am including for your review a Statement of Training and Experience on Mr. Campbell with the certificate of completion from the Health & Safety course completed on April 30, 1989.

Terry Campbell is also fifty percent (50%) owner of Valley Industrial X-Ray & Inspection Services Inc. (VIXR). Terry has approximately five thousand (5000) hours of on the job training. Terry has been working with myself for the last three years. At this time I feel Terry is capable of all responsibilities of being the alternate RSO for VIXR.

Terry has received copies of, been instructed in and demonstrates an understanding of the California Radiation Control Regulations. Copies of the license, the operating emergency and radiation safety procedures have been issued. A booklet on case histories is part of the employee package. The booklets that are a part of the employee package are on file.

If you have any further questions you may contact me at the following number: (805) 325-8497.

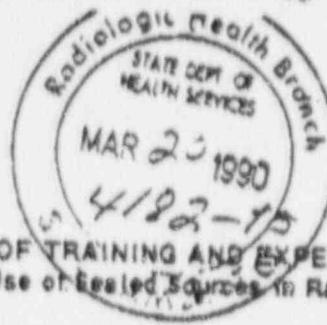
Respectfully submitted,

Larry Williams

Larry Williams / President-R.S.O.
Valley Industrial X-Ray &
Inspection Services Inc.

LW/kdy

State of California
Department of Health



Radiologic Health Section
744 P Street
Sacramento, California 95814

STATEMENT OF TRAINING AND EXPERIENCE
Application For Use of Sealed Sources in Radiography

[Handwritten signatures]

This form should be used only by persons who wish to perform radiography under a "Limited Radiography License" as described in Section 3 of Applicant's Guide - Industrial Radiography, Form RH 2051-R.

INSTRUCTIONS: 1. Use separate form for each individual. 2. Additional pages may be attached. 3. Submit all material in duplicate to the Radiologic Health Section at the address given above. 4. See Applicant's Guide - Industrial Radiography, Appendix A, Section 3 for additional information.

1. a. Name of proposed radiographer: TERRY L. CAMPBELL
b. To be included on Lic. No. 4182-15 in name of Valley Industrial X-Ray & Inspection Services Inc.

2. Experience:

List experience as a (1) Radiographer or (2) Radiographer's Assistant

a. Dates: From December '87 to Present

Position Held: (1) Assistant (2) _____

Type of Equipment Used: Gamma Industrial & Gulf Nuclear
(Make & Model No.)

Type and Amount of Activity: Iridium 192 100 Ci and less
(Isotope and Curies)

Employer: Valley Industrial X-Ray & Inspection Services Inc. Address: P.O. BOX 81135 Bakersfield, CA.

License No. (Agreement State or U.S. NRC) 4182-15

b. Dates: From 1980 to 1989

Position Held: (1) Inspector, R.S.O. (2) _____

Type of Equipment Used: Texas Nuclear Alloy Analyzer 9266 - General License
(Make & Model No.) Ohmart Level Detectors.

Type and Amount of Activity: Cesium 137 @ 60 MCI
(Isotope and Curies) CD 109 @ 5 MCI
FE 55 @ 45 MCI

Employer: Texaco Address: 6451 Rosedale Hwy Bakersfield, CA.

License No. (Agreement State or U.S. NRC) Texaco 4873-15
Getty CL6-1105

c. Dates: From _____ to _____

Position Held: (1) _____ (2) _____

Type of Equipment Used:
(Make & Model No.)Type and Amount of Activity:
(Isotope and Curies)

Employer: _____ Address: _____

License No. (Agreement State or U.S. NRC) _____

d. Dates: From _____ to _____

Position Held: (1) _____ (2) _____

Type of Equipment Used:
(Make & Model No.)Type and Amount of Activity:
(Isotope and Curies)

Employer: _____ Address: _____

License No. (Agreement State or U.S. NRC) _____

3. Training:

a. High School Graduate: Yes Nob. College or University: Name and location Bakersfield Junior College, Bakersfield, CA.Years completed 2 Degree AA Course of study Mechanical Engineering & AA in Tech. Drawing.c. Training specific to use of sealed sources in industrial radiography (Name instructor and/or school and specify dates):
Ohmart technical training school 11/87 Paul S. (certificate enclosed)
Tom Cuthbertson 4/89d. Larry Williams determined compliance with 17 CAC 30333(a) [10CFR 34.31]for the person named above by Terry L. Campbell

(Briefly describe test, or the job evaluation, etc. Written test copy may be attached)

see attached cover letter

4. CERTIFICATE

The proposed radiographer and any official executing this certificate on behalf of the licensee named in Item 1.b., certify that all information contained herein, including any supplements attached hereto, is true and correct.

Terry L. Campbell
Proposed Radiographer named in Item 1.a.3/16/90
DateLarry Williams
Radiation Safety Officer3-16-90
Date

APR-25-1990 18:18 FROM RAD HEALTH BRANCH TO 91415943388 P.23

CERTIFICATE OF PROFICIENCY

THIS IS TO CERTIFY THAT

TERRY CAMPBELL

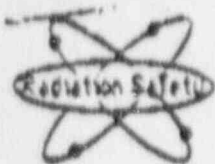
HAS SUCCESSFULLY COMPLETED AN OHMART TRAINING COURSE INCLUDING:
PRINCIPLES AND PRACTICES OF RADIATION PROTECTION, RADIOACTIVITY
MEASUREMENT AND MONITORING, MATHEMATICS AND CALCULATIONS, BIOLOGICAL
EFFECTS OF RADIATION, COMMON U.S.N.R.C. REGULATIONS, WASTE DISPOSAL
AND EMERGENCY PROCEDURES.



A handwritten signature in cursive script, appearing to read "Paul A. ...".

TRAINING DIRECTOR

Date: 11-11-87



TOM W. CUTHBERTSON
R. S. CONSULTANT

RADIATION SAFETY EXAMINATION

RADIOGRAPHER

CERTIFICATION NUMBER: 124

CANDIDATE (PRINT): TERRY L. CAMPBELL DATE: 4/30/89

SOCIAL SECURITY NO.: 557-80-4981

LOCATION: BAKERSEFIELD, CA - VALLEY INDUSTRIAL X-RAY

SIGNATURE OF CANDIDATE: Terry L. Campbell

GENERAL EXAMINATION
TEST No. 97%
PERCENTAGE GRADE
31

SPECIFIC EXAMINATION
TEST No. 100%
PERCENTAGE GRADE

PRACTICAL EXAMINATION
89%
POINT GRADE

Note: Passing grade for the General and Specific examinations will be 70 percent or greater. Passing grade for the Practical examination will be 80 points or greater.

EXAMINATION ADMINISTERED BY: [Signature]

EXAMINATION GRADED BY: [Signature] DATE: 5-3-89

CERTIFICATION APPROVED BY: [Signature] DATE: 5-3-89

APR-25-1990 10:12 PM RAD HEALTH BRANCH TO 914159433866 P.25



TOM W. CUTHBERTSON
R. S. CONSULTANT

Certification No. 124

Certificate of Training

THIS CERTIFIES THAT

TERRY L. CAMPBELL

HAS SUCCESSFULLY COMPLETED A COURSE IN

INDUSTRIAL RADIOGRAPHY

TRAINING IN RADIATION SAFETY

RADIOGRAPHER 40 HOUR COURSE

STATE OF CALIFORNIA APPROVED

FORTY (40) HOURS

HOURS
April 15 - 16 & 29 - 30, 1989

DATE

TOM W. CUTHBERTSON

INSTRUCTOR

(916) 445-0931

ADDRESS ONLY TX

1232 Q Street
Sacramento, CA 95814

PLEASE DELIVER THE FOLLOWING DOCUMENT(S) TO:

NAME: NRC FRANCES BROWN

FAX NO: 415-943-3888 VERIFYING N°: _____

OFFICE: NRC

FROM: BOB REYES
Radiologic Health Branch - Sacramento

DATE: 25 APRIL 1990 TIME: _____ A.M. / P.M.

The number of pages being transmitted including this cover sheet are: 25.

After transmission is completed:

Return original to sender.

Discard original

Fax Number: (916) 324-3610, ATSS 8-454-3610
Verification Number: (916) 445-0931, ATSS 8-485-0931

INSPECTOR'S REPORT

Office of Inspection and Enforcement

MOX. GOMERY, JAMES L.

REVIEWER
H Chaney

INSPECTOR
H. DEAN CHANEY

LICENSEE/VENDOR	TRANSACTION TYPE	DOCKET NO. (8 digits) OR LICENSE NO. (BY PRODUCT) (13 digits)	REPORT				NEXT INSPEC DATE	
			MO	SEC	MO	YR		
CONSTRUCTION MATERIALS TESTING INC. (CALIF. LICENSE) CONCORD, CA	<input checked="" type="checkbox"/> I - INSERT <input type="checkbox"/> M - MODIFY <input type="checkbox"/> D - DELETE <input type="checkbox"/> R - REPLACE	15-000004	9	05	A			

PERIOD OF INVESTIGATION/INSPECTION						INSPECTION PERFORMED BY		ORGANIZATION CODE OF REGION/HQ CONDUCTING ACTIVITY (See NRC DSJ3 "Manpower Reporting - Weekly Manpower Reporting" for code)		
FROM		TO				1 - REGIONAL OFFICE STAFF	OTHER	REGION	DIVISION	BRANCH
MO	DAY	MO	DAY	YR						
4	24	9	0	04	25	9	0	V	C	D

REGIONAL ACTION (Check one box only)		TYPE OF ACTIVITY CONDUCTED (Check one box only)													
<input type="checkbox"/> 1 - NRC FORM 801	<input type="checkbox"/> 2 - REGIONAL OFFICE LETTER	<input type="checkbox"/> 02 - SAFETY	<input type="checkbox"/> 03 - INCIDENT	<input type="checkbox"/> 04 - ENFORCEMENT	<input type="checkbox"/> 05 - MGMT. AUDIT	<input type="checkbox"/> 06 - MGMT. VISIT	<input type="checkbox"/> 07 - SPECIAL	<input type="checkbox"/> 08 - VENDOR	<input type="checkbox"/> 09 - MAT. ACCT.	<input type="checkbox"/> 10 - PLANT SEC.	<input type="checkbox"/> 11 - INVENT. VER.	<input type="checkbox"/> 12 - SHIPMENT/EXPORT	<input type="checkbox"/> 13 - IMPORT	<input type="checkbox"/> 14 - INQUIRY	<input type="checkbox"/> 15 - INVESTIGATION

INSPECTION/INVESTIGATION FINDINGS (Check one box only)				TOTAL NUMBER OF VIOLATIONS AND DEVIATIONS				ENFORCEMENT CONFERENCE HELD				REPORT CONTAIN 2,700 INFORMATION				LETTER OR REPORT TRANSMITTAL DATE					
B	C	D		A	B	C	D	A	B	C	D	A	B	C	D	MO	DAY	YR	MO	DAY	YR
			1 - CLEAR	0	0																

MODULE INFORMATION												MODULE INFORMATION														
MODULE NUMBER	PHASE	MANUAL	CHAPTER	PROCEDURE NUMBER	LEVEL	SEC. #	PRIORITY	DIRECT INSPEC. TIME EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED TO DATE	STATUS	MODULE REG FOLLOWUP	REC. DTD	MODULE NUMBER	PHASE	MANUAL	CHAPTER	PROCEDURE NUMBER	LEVEL	SEC. #	PRIORITY	DIRECT INSPEC. TIME EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED TO DATE	STATUS	MODULE REG FOLLOWUP		
																									PHASE	MANUAL
592702												B	583822													
Follow up on previous violations												Radiation Protection														
530703							0,0,2	1,0,0				B	592703													
Management meeting entrance/Exit												Bulletin/IAP Followup														
587100							0,0,2	1,0,0	C			B	586740													
Materials inspection program												Transportation														
683890												B	584850													
Close out inspection												10 CFR 61														

GUIDANCE FOR INSPECTION PROCEDURE 87100
NRC REGION V
INDUSTRIAL RADIOGRAPHY INSPECTION FIELD NOTES

Inspection Report No. 90-05 License No. 0799-60 (Calif.)
Licensee (name and address) Docket No. 15000007
Construction Materials Testing, Inc.
1000 W. Detroit Ave.
Concord, CA 94518
Licensee Contact. R. Magoon, RSO Telephone No. 415-825-2840
Last Amendment No. 36 Date of Amendment. 3/19/90

(Inspection conducted at this address on 4/25 & at the U.S. P. Office, Livermore, Calif. on 4/24).

Priority: I Program Code () 03310 - Fixed 03320 - Temporary

Date of Inspection 4/24 - 25/90

Type of Inspection () Announced () Initial of a Calif. licensee
 Unannounced () Special who submitted NRC Form 241
Next Inspection Date () Normal () Extended () Reduced
Reinspection

Summary of Findings and Action: NRC MANUAL CHAPTERS USED: 30703, 87100, 83822, AND 86740.

- No Noncompliance, Clear 591 issued () Action on Previous W/C
- () Noncompliance, 591 issued () Regional Action
- () HQ Action D. Martin (U.S. Postal Service) *

Personnel Contacted R. Magoon (RSO) *
D. Dickinson (Radiographer) *
D. Marnier (") *
R. Maxwell (alternate RSO) *

* Those present at exit interview.

Inspector James J. Montgomery 4/26/90
(Signature) (Date Signed)
Approved [Signature] 5/3/90
(Signature) (Date Signed)

1. ORGANIZATION

a. Management Structure

See previous page ("personnel contacted")

b. Administrative structure meets license requirements.

Yes () No [L/C] [34.11(e)]

Remarks.

c. Individuals identified in the license as being responsible for the programs still hold those positions. Yes () No

Remarks.

d. Radiography Personnel

Radiographers

Radiographer's Assistants

See previous page; other radiography personnel are listed in the Calif. license but they were not involved in this reciprocity inspection.

(continue d., if needed, on paragraph 22.)

2. INSPECTION HISTORY

a. Item(s) of noncompliance or deviations noted during last inspection conducted on _____ Yes () No

Corrected by letter dated *N/A* *prior inspections were conducted by the State of Calif.*

b. Requirement Severity Corrected Status

(continue b., if needed, on paragraph 22.)

c. If any item(s) of noncompliance or deviations noted during last inspection were not corrected, explain.

N/A

(continue c., if needed, on paragraph 22.)

3. SCOPE OF PROGRAM *The licensee conducts frequent radiograph work. This inspection involved licensed activities at a U.S. Government facility.*
4. TRAINING, RETRAINING AND SUPERVISION OF RADIOGRAPHY PERSONNEL
- a. Radiographers and Assistants named in license. () Yes () No
- b. Radiographer's Assistant under direct supervision of a Radiographer. () Yes () No [34.44]
Remarks.
- c. Approved training program. () Yes () No
- d. Deficiencies noted. () Yes () No [L/C]
Remarks.
- e. Training provided by. Lisa Burns, Health Physics Consultant
- f. Written tests. () Yes () No
- g. Oral tests. () Yes () No
- h. Radiographers completed field examination. [34.31)a)(4) and (b)(3)] () Yes () No
- i. Record of test results. () Yes () No [34.31(c)]
Remarks.
- j. Test results reviewed by NRC inspector. () Yes () No
- k. Radiographer completed on-the-job training. [34.11(b)(3)]
() Yes () No
Remarks.
- l. Retraining program required by License Condition. () Yes () No
- m. Periodic training. () Yes () No
at 6 month intervals. Licensee conducts in house training which alternates w/ outside consultant training.
- n. Retraining program implemented: () Yes () No [L/C]
Remarks.
- o. Records of retraining reviewed. () Yes () No

p. Instruction to workers in accordance with 19.12.

Yes () No

Remarks.

Licensee did not possess an NRC "notice to Employee Form 3. A copy will be mailed w/ Form 591

5. INTERNAL AUDITS OR INSPECTIONS

a. Audits or inspections conducted at 3-month intervals in accordance with 34.11(d). Yes () No [L/C]

Remarks.

Radiographer was audited by the alternate RSO during the inspection on 4/24.

b. Records maintained. Yes () No [L/C]

Remarks.

6. INSPECTION AND MAINTENANCE OF DEVICES, CONTAINERS, AND CHANGERS

a. Included in Operating and Emergency Procedures.

Yes () No [34.32(j)]

Remarks.

b. Equipment check prior to use each day. Yes () No [34.28(a)]

Remarks.

The daily check list is contained on the utilization log & had been completed by the radiographer at the beginning of the 4/24 inspection.

c. Equipment check at 3-month intervals. Yes () No [34.28(b)]

Remarks.

d. Record of results maintained. Yes () No [34.28(b)]

Remarks.

7. NRC REGULATIONS, LICENSE AND OPERATING AND EMERGENCY PROCEDURES

a. Parts 19, 20, and 34; the license; and Operating and Emergency Procedures furnished to all radiographers and radiographer's assistants. Yes () No [34.31(u)(2)]

Remarks.

Equivalent California regulations were in possession of the radiographers

b. Operating and Emergency Procedures approved by NRC. [34.11(c)]

Yes () No

N/A ; were approved by the state of California.

8. UTILIZATION LOG

a. Utilization log maintained. (Yes () No [34.27]
Remarks.

b. Utilization log contains all required information. (Yes () No [34.27(a),(b),(c)]
Remarks.

Log also contained DOT shipping & packaging information.

9. QUARTERLY INVENTORIES

a. Quarterly physical inventories conducted. (Yes () No [34.26]
Remarks.

b. Quarterly inventories contain all information. (Yes () No [34.26]
Remarks.

Records were on file at the licensee's Concord, Calif. office & were reviewed by the inspectors on 4/25.

c. Materials possessed authorized by the license. (Yes () No
Remarks.

d. Byproduct Material inventory on. Conducted once each calendar quarter

Source Changer Model #	Quantity	Isotope	Source S/N	Camera Model	S/N
<i>Gamma Century</i>	<i>1</i>	<i>Ir-192</i>	<i>104G</i>	<i>2932</i>	<i>2932</i>
<i>" "</i>	<i>1</i>	<i>" "</i>	<i>20 Ci</i>		<i>2933</i>

e. Procurement and use of byproduct material in accordance with license requirements. (Yes () No [L/C]
Remarks.

10. MATERIALS, FACILITIES AND EQUIPMENT

a. Fixed Facility. *Licensee had a radiography "cell" at the Concord office. This was not inspected since it was not part of the*
1) As described in application dated _____, Report *of the*
dated _____, or _____ *inspector's work at the Post Office*

- (a). Cell(s) interlocked [20.203(c)(2)(i)] () Yes () No *N/A*
(b). Cell(s) controlled in accordance with 20.203(c)(2)(ii) or (iii). [34.29(b)] () Yes () No
Remarks.

N/A

- (2) Entrance controlled in accordance with 20.203(c)(2).
() Yes () No [20.203(c)(2)]
Remarks.

N/A

- (3) Exit in accordance with 20.203(c)(3). () Yes () No
[20.203(c)(3)]
Remarks.

N/A

- (4) Surveillance or locked to prevent unauthorized entry.
() Yes () No [20.203(c)(4), 34.41]
Remarks.

N/A

- (5) Visible and audible signals to warn of the presence of radiation: () Yes () No [34.29(b)]
(a) Alarms operated correctly; i.e., visible due to radiation; audible when entrance attempted during source exposure. [34.29(b)]
Remarks.

N/A

- (6) Alarm system tested at 3 month intervals. () Yes () No
[34.29(c)]
Remarks.

N/A

- (7) Record of alarm system test. () Yes () No [34.29(c)]
Remarks.

N/A

- (8) Radiographic exposure devices and storage containers meet radiation level limits of 34.21. () Yes () No [34.21]
Remarks.

N/A

b. Storage Area.

- (1) Sources locked in device. () Yes () No [34.22(a)]
Remarks.

N/A

(2) Storage devices meet radiation levels () Yes () No
[34.21]
Remarks.

N/A

(3) Devices secured to prevent unauthorized removal from an
unrestricted area. () Yes () No [20.207]
Remarks.

N/A

c. Field Location

(1) Field work authorized. () Yes () No [L/C]
Remarks.

(2) Field inspection conducted. () Yes () No

(3) Proper postings (signs) ropes, etc., available as required
by regulations or license. () Yes () No
Remarks.

Post office doors were locked except for public access
(P.O. Boxes) door to outside. P.O. Box door leading to
restricted area was locked.

d. Survey Meters

(1) Calibrated and operable meters available and used:
() Yes () No [34.43(c)]
Remarks.

(2) Type and number available. 3 meters 0.1 m - 1 R/hr.
range. Victoreen model 492

(3) 2 mR/hr through 1 R/hr can be measured. () Yes () No
[34.24]
Remarks.

(4) Calibrated by. QC/NDT, last calib. on 2/20/90

(5) Calibration method authorized. () Yes () No [L/C]
Remarks.

(6) Calibrated at 3-month intervals. () Yes () No [34.24]
Remarks.

e. Special equipment (shields, collimators, etc.)

Remarks.

a tungsten collimator & hydraulic lift were used during the three exposures observed by the inspectors.

11. PERSONNEL MONITORING

a. Film or TLD badge supplier. Jordan Frequency monthly [L/C]

b. Reports reviewed by: RSO, R. Magom Frequency: monthly

c. NRC inspector reviewed personnel monitoring records for period June 1989 to Mar. 1990

d. License exposure limit. 1.25 R/Quarter 3 R/Quarter

e. NRC forms or equivalent.

(1) NRC-4. Yes () No Complete.* () Yes () No
* Must be completed before individuals receive more than 1.25 rems per calendar quarter.

(2) NRC-5. Yes () No Complete. Yes () No
[20.401(a)] ^{equivalent}

f. Maximum quarterly exposure. 600 mrem Average. 250 mrem

g. Each individual assigned film badge and dosimeter. Yes
() No [34.33(a)]
Remarks.

h. Dosimeter type. Dosimeter Corp. 608 Range. 0 - 200 mrem

i. Annual check of dosimeter for correct response. Yes () No
[34.33(c)]
Remarks.

j. Dosimeter recharged at start of each shift. Yes () No
[34.33(a)]
Remarks.

k. Dosimeter dose recorded daily. Yes () No [34.33(b)]
Remarks.

12.

LEAK TESTS

- a. Leak test method approved. () Yes () No [34.25(c)]
Remarks.
- b. Model of leak test kit. SPEC Model I
- c. Test at 6-month intervals. () Yes () No [34.25(b)]
Remarks.
- d. Record of leak test results maintained. () Yes () No [34.25(c)]
- e. Records reviewed by NRC inspector for period 6/89 to 3/90.
Remarks.

13.

SURVEYS

- a. Area of facility survey conducted to show compliance with 20.105. () Yes () No [20.201(b)]
Remarks. *Restricted area boundary (outer perimeter of the Post office building) was surveyed.*
- b. Area of facility survey recorded. () Yes () No [20.401(b)]
Remarks.
- c. NRC inspector reviewed records for period 4/24/90 to 4/24/90
- d. Maximum radiation levels in unrestricted areas.
Remarks. *2-3 mR/hr. during the 2-3 minute exposure times. In one hour the licensee exposed the source for approximately 5 minutes which would equal approximately 0.25 mR in one hour at the P.O. Box Room door.*
- e. Survey after each exposure () Yes () No [34.43(b)]
Remarks.
- f. Survey includes guide tube. () Yes () No [34.43(b)]
Remarks.
- g. Record of final survey before securing device at place-of-storage. () Yes () No
Remarks.

14. POSTING AND LABELING

a. ~~High Radiation~~ Area posted as required. () Yes () No
[20.203(c)(1)]
Remarks.

b. Radiation Area posted as required. () Yes () No [20.203(b)]
Remarks.

c. Use or storage area posted "Caution - Radioactive Material".
() Yes () No [20.203(e)(1)]
Remarks.

d. Containers or devices properly labeled. () Yes () No
[20.203(f)]
Remarks.

e. Posting of "Notice to Workers". () Yes () No [19.11(a) or (b)]
Remarks.

NRC Form 3 was not available to the licensee but the equivalent State of Calif. form was used

f. Posting of "Notice to Employees". () Yes () No [19.11(c)]
Remarks.

State of Calif. form

15. CONFIRMATORY MEASUREMENTS

a. Confirmatory measurements made by inspector. () Yes () No

b. Survey instrument. ^{E-520} ~~Xetex 305B~~ NRC Serial No. 020206

Last date of calibration. _____

c. Describe type and results of measurements and compare these with licensee's measurements. E-520 w/ G.M. probe was

Compared to licensee's Victoreen 492 in gamma field emitted by Ir-192 source in camera. Readings compared favorably within $\pm 20\%$. Same results were obtained in comparison w/ the Xetex.

16. RECEIVING AND SHIPPING OF RADIOACTIVE MATERIALS

a. Procedures for picking up, receiving, and opening of packages.
() Yes () No [20.205] *N/A*

Remarks. *not reviewed.*

- b. Written procedures. () Yes () No *N/A*
- c. Shipping incidents since last inspection. () Yes () No
- d. Survey of packages when received. () Yes () No [20.205(c)(1)]
Remarks.
- e. Record of survey of packages. () Yes () No [20.401(b)]
Remarks. *Not reviewed.*
- f. Shipment of sources since last inspection. () Yes () No *unknown, not reviewed.*
 - (1) Only container authorized by licensee has been used.
() Yes () No
Remarks.
 - (2) Shipping papers and package labeling properly completed.
() Yes () No [71.5]
Remarks. *For transport of cameras contained in the radiographer's vehicle.*
 - (3) Licensed material transferred in accordance with [30.41].
() Yes () No *N/A*
Remarks.
 - (4) Record of receipt and transfer. () Yes () No [30.51]
Remarks. *N/A*

17. TRANSPORTATION (10 CFR 71.5a and 49 CFR 171-178)

	<u>Yes</u>	<u>N/A</u>	<u>Vio.</u>
a. Licensee makes shipments of RAM? Such shipments are: () delivered to Common Carriers? () transported in licensee's own vehicle as private carrier? (<input checked="" type="checkbox"/>) both?	<input checked="" type="checkbox"/>	()	()
If a. above is "Yes," complete following items:			
b. Are Authorized Packages used? [173.415-416] Types used: DOT-7A, Type A [173.415] Performance test records on file? DOT-55 [173.416(a)]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	()
	<input checked="" type="checkbox"/>	()	()

Licensee aware of 6/30/85 Cutoff on use?

- (*) Certified [173.416(b)] () ()
NRC COC's on file? [71.12(c)(1)] () ()
Registered with NRC as user? [71.12(c)(3)] () ()
Documented NRC-Approved Q/A program? [71.12(b)] *Amersham documents this* () ()
NRC Q/A Approval No. 0040 *the licensee isn't aware of it.* () () *NOTE*
() Other _____

- c. Special Form Material Performance test records available for each source design [173.476(a)] () ()
- d. Packages labeled as required? [172.403(a)(b)(c)(e)(f)] () ()
() Excepted () WI YII () YIII () ()
Surveys performed to select correct label category and compliance with radiation limits? (175.475(i)). () ()
- e. Packages marked with required, i.e., proper shipping name, Spec. No., COC No., etc. [172.300 thru 172.310)] () ()
- f. Shipping papers prepared for each shipments? [172.200] () ()
Such papers contain required information [172.203(d)] () ()
- g. For licensee Private Carrier Shipments:
Vehicles placarded as required? [172.500, 172.504] () ()
Cargo blocked, braced, tied down in vehicle? [177.842(d)] () ()
Any incidents reported to DOT? [171.15-16] () none ()
- h. Licensee carries shipping papers that are readily accessible when transporting RAM. () ()

18. NOTIFICATION AND REPORTS

a. Licensee in compliance with 19.13 (reports to individuals).
(*) Yes () No [19.13]
Remarks.

b. Licensee in compliance with 20.405 (overexposures).
(*) Yes () No [20.405(a)]
Remarks.

none have occurred during time period reviewed (i.e. 6/89 - 3/90).

c. Licensee in compliance with 20.403 (incidents).

Yes No [20.403]

Remarks.

N/A

d. Licensee in compliance with 20.402 (theft or loss).

Yes No [20.402(a)] or [20.402(b)]

Remarks.

N/A

e. Annual Report to Commission. Yes No [20.407]

Remarks.

Unknown - not inspected

f. Termination Report to Commission. Yes No [20.408]

Remarks.

Unknown - not inspected

19. LICENSE CONDITIONS

a. All License Conditions reviewed during inspection. Yes

No

b. Activities were conducted in accordance with License Conditions except as noted elsewhere in this report. Yes No

Remarks.

20. BULLETINS AND INFORMATION NOTICES

a. Bulletins and Information Notices issued during current year.

Yes No

b. Bulletins and Information Notices received by licensee. Yes

No although the notices are sent to the agreement states, the licensee had not received any.

c. Licensee took appropriate action in response to Bulletins and Information Notices. Yes No

Remarks.

N/A

21. ITEMS OF NONCOMPLIANCE

none

22. CONTINUATION OF PREVIOUS PARAGRAPHS - USE BACK OF PAGE IF NECESSARY