

SAFETY INSPECTION

1. LICENSEE

Anvil Corporation  
1675 W. Bakerview Road  
Bellingham, WA 98226

2. REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

OSO-20398

4. LICENSE NUMBER(S)

46-23236-01

5. DATE OF INSPECTION

March 13-14, 1989

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 \_\_\_\_\_ were not properly maintained. 10 CFR \_\_\_\_\_ or License Condition Number \_\_\_\_\_

E. Documents were not properly posted or otherwise made available. 10 CFR 19.11.

F. Reports or notifications of Personnel monitoring with 10 CFR 20.407 for the year 1987. were not made in accordance \_\_\_\_\_ or License Condition Number \_\_\_\_\_

H. A documented NRC approved Q/A program was not submitted in accordance with 10 CFR 71.12(b) xxxx prior to the first shipment of licensed material to an area where NRC has jurisdiction

I. \_\_\_\_\_

J. \_\_\_\_\_

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.

SIGNATURE - LICENSEE

DATE

SIGNATURE - NRC INSPECTOR

DATE

8906124125 XA

Paul R Zwickowski

23 Mar 89

Report No. 89-01Docket No. 030-20398License No. 46-23236-01Materials Group  Priority 1 Category 3320Licensee: Anv.1 Corp.  
1675 W. Bakerview Rd  
Bellingham, wa 98226Facility Name: Anv.1 CorpInspection at: Bellingham, waInspection conducted: 13 & 14 Mar 89Inspectors: Paul R Znakowski 23 Mar 89  
Date  
DateApproved by: [Signature]  
5/25/89  
DateSummary: Inspection of Mar 13 & 14, 1989 (Report No 30-20398/89-01)Areas Inspected: Module 30703, Management Meetings  
Module 87100, Materials Inspection Program; Module  
87100, Materials Inspection Program; Module 8674  
Transportation; Module 83822, Radiation ProtectionResults: of the areas inspected there were  
two violation of NRC regulations or license  
conditions Paragraphs 17b & 18e should be  
consulted for more info.

GUIDANCE FOR INSPECTION PROCEDURE 87100

INDUSTRIAL RADIOGRAPHY INSPECTION FIELD NOTES

Inspection Report No. 89-01 License No. 46-2323E-01  
 Licensee (name and address) Docket No. 3320  
Anvil Corp (Satellite Office)  
742 S- Spruce St  
Burlington, WA 98233  
 Licensee Contact. Ms Kathy Turner Telephone No. (206) 755-9350  
Burlington Office  
 Last Amendment No. 3 Date of Amendment. 12 Nov 86  
 Priority: I Program Code ( ) 03310 - Fixed (  ) 03320 - Temporary

Date of Inspection 13 & 14 Mar 89  
 Type of Inspection (  ) Announced (  ) Initial  
 (  ) Unannounced ( ) Special  
 ( ) Reinspection  
 Next Inspection Date Mar 90 (  ) Normal ( ) Extended ( ) Reduced

Summary of Findings and Action:

- ( ) No Noncompliance, Clear 591 issued
- (  ) Noncompliance, 591 issued
- ( ) HQ Action
- ( ) Action on Previous N/C
- ( ) Regional Action

Personnel Contacted

- \* Mrs Kathy Turner, Alt. RSO (Acting)
- \* Mr. Perry Mendeshall, RSO
- Mr. George Griffith, Herb NDE Dept
- \* Those present at exit interview.

Inspector Paul R Zmakowski 23 Mar 89  
 (Signature) (Date Signed)  
 Approved [Signature] 5/25/89  
 (Signature) (Date Signed)

1.

ORGANIZAT.

a. Management Structure

*see back*

Mrs Kathy Turner is the acting RSO at the Burlington Satellite Office even though she is not so named on the NRC license. She is the RSO for the State License.

b. Administrative structure meets license requirements.

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

Remarks.

Even though Burlington is not far from the Bellingham Office (~25 miles), since Kathy Turner has taken over the Radiography program, it would be better if she were named as RSO for the NRC license.

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

Remarks.

Perry Mendenhall is named as the RSO for the radiography license and is Kathy's technical supervisor. She reports on all technical work to him.

d. Radiography Personnel

Radiographers

Radiographer's Assistants

*see back*

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

2.

INSPECTION HISTORY

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

Corrected by letter dated \_\_\_\_\_

b. Requirement                      Severity                      Corrected                      Status

*N/A*

(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 PRACTICE

This license was used only once on Maui Hawaii for Shell Oil Co. in May 4 1988. They have a satellite office in Anchorage but have not used the license there yet.

4.

TRAINING, RETRAINING AND SUPERVISION OF RADIOGRAPHY PERSONNEL

a. Radiographers and Assistants named in license. ( ) Yes (X) No

b. Radiographer's Assistant under direct supervision of a Radiographer. (X) Yes ( ) No [34.44]  
Remarks.

c. Approved training program. (X) Yes ( ) No

d. Deficiencies noted. ( ) Yes ( ) No [L/C]  
Remarks.

e. Training provided by. Kathy Turner } Safety Trng  
Perry A Mendenhall }

f. Written tests. (X) Yes ( ) No

g. Oral tests. (X) Yes ( ) No

h. Radiographers completed field examination. [34.31)a)(4) and (b)(3)] (X) Yes ( ) No

i. Record of test results. (X) Yes ( ) No [34.31(c)]  
Remarks.

j. Test results reviewed by NRC inspector. (X) Yes ( ) No

k. Radiographer completed on-the-job training. [34.11(b)(3)]  
(X) Yes ( ) No  
Remarks.

l. Retraining program required by License Condition. (X) Yes ( ) No  
*have a monthly safety meeting*

m. Periodic training. (X) Yes ( ) No  
*Kathy attended trng given by Bill Morgan on Oct 19, ASOT Feb 25, 1989*

n. Retraining program implemented: (X) Yes ( ) No [L/C]  
Remarks.

o. Records of retraining reviewed. (X) Yes ( ) No

- p. Instruction to workers in accordance with 19.12.  
() Yes ( ) No  
Remarks.

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.
- 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.
- 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(a)(2)]  
Remarks.
- b. Operating and Emergency Procedures approved by NRC. [34.11(c)]  
() Yes ( ) No

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.

9. QUARTERLY INVENTORIES

- a. Quarterly physical inventories conducted. ( Yes ( ) No  
[34.26]  
Remarks.
- b. Quarterly inventories contain all information. ( Yes ( ) No  
[34.26]  
Remarks.
- c. Materials possessed authorized by the license. ( Yes ( ) No  
Remarks.

d. Byproduct material inventory on. 12/27/88

Source Changer Model #	Quantity	Isotope	Source S/N	Camera Model	S/N
<i>use Manufactures</i>	5.6 Ci	Ir-192	B 24	Gamma Counting Model 5	1670

- 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. *N/A*

- 1) As described in application dated \_\_\_\_\_, Report  
dated \_\_\_\_\_, or \_\_\_\_\_

N/A

(a). Cell(s) interlocked [20.203(c)(2)(i)] ( ) Yes ( ) No

(b). Cell(s) controlled in accordance with 20.203(c)(2)(ii) or (iii). [34.29(b)] ( ) Yes ( ) No  
Remarks.

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

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

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

(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.

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

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

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

b. Storage Area.

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

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

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

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.

d. Survey Meters

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

(2) Type and number available.

6 Victoreen 492      2 Gamma's 250 B  
4 Bicon "Radiograph"      5 Victoreen 592  
5 Eberline 130

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

(4) Calibrated by. B. H. Morgan & Don Olcott

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

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



e. Spec. Equipment (shields, collimator, etc.)

Remarks.

use W. collimator 5 most of the time

11. PERSONNEL MONITORING

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

b. Reports reviewed by: Aug et RSO RSO & R. M. J. / base Frequency: monthly

c. NRC inspector reviewed personnel monitoring records for period Jan 1988 to Mar 1989

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)]

f. Maximum quarterly exposure. 690 Average. < 150

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

h. Dosimeter type. Victor R B 300 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. Golf Nuclear

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 1988 to present.  
Remarks. Leak tests are done on a timely basis.

13. SURVEYS

a. Area of facility survey conducted to show compliance with 20.105. ( Yes ( ) No [20.201(b)])  
Remarks.

b. Area of facility survey recorded. ( Yes ( ) No [20.401(b)])  
Remarks.

c. NRC inspector reviewed records for period 1989 to present

d. Maximum radiation levels in unrestricted areas.  
Remarks. 5 mR/hr outside of vault at Burlington  
(4) of CO-60 no calibration  
(required my state of WA)

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

15. CONFIRMATORY MEASUREMENTS

P/A

- a. Confirmatory measurements made by inspector. ( ) Yes ( ) No
- b. Survey instrument. \_\_\_\_\_ NRC Serial No. \_\_\_\_\_  
Last date of calibration. \_\_\_\_\_
- c. Describe type and results of measurements and compare these with licensee's measurements. \_\_\_\_\_  
\_\_\_\_\_

16. RECEIVING AND SHIPPING OF RADIOACTIVE MATERIALS

- a. Procedures for picking up, receiving, and opening of packages.  
( Yes ( ) No [20.205])  
Remarks.

- b. Written procedures. () Yes ( ) No
- 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.
- f. Shipment of sources since last inspection. () Yes ( ) No
- (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.
- (3) Licensed material transferred in accordance with [30.41].  
( ) Yes () No  
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 RUM?<br>Such shipments are:<br>( <input checked="" type="checkbox"/> ) delivered to Common Carriers?<br>( <input checked="" type="checkbox"/> ) transported in licensee's own<br>vehicle as private carrier?<br>( <input checked="" type="checkbox"/> ) both? | ( <input checked="" type="checkbox"/> ) | ( )        | ( )         |
| If a. above is "Yes," complete following items:  |   |            |             |
| b. Are Authorized Packages used?<br>[173.415-416]<br>Types used:<br>DOT-7A, Type A [173.415]<br>Performance test records on file?<br>DOT-55 [173.415(a)]   | ( <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)]

NRC Q/A Approval No. none

( ) 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]

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.

439  
Lor Goad  
0782



c. Licensee in compliance with 20.403 (incidents).  
 Yes ( ) No [20.403]  
Remarks.

d. Licensee in compliance with 20.402 (theft or loss).  
 Yes ( ) No [20.402(a)] or [20.402(b)]  
Remarks.

\* e. Annual Report to Commission. ( ) Yes (  ) No [20.407]  
Remarks. *did not to send in for 1987. D. did not use their license that year. However, Reg report is required*

f. Termination Report to Commission. (  ) Yes ( ) No [20.408]  
Remarks.

19. LICENSE CONDITIONS

a. All License Conditions reviewed during inspection. (  ) Yes  
( ) No

b. Activities were conducted in accordance with License Condition 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

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

21. ITEMS OF NONCOMPLIANCE

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

APPENDIX A - DOCUMENTATION of NONCOMPLIANCE

Licensee: Anvil Corp

License no: 46-23236-

Reference	Basis for noncompliance
Report item <u>18(e)</u>	
10 CFR <u>20.407</u> ✓	
Lic Cond <u>Reports or notifications of Personnel monitoring</u>	_____ were not made in accordance
with 10 CFR 20.407 for the year 1987.	_____ or License Condition Number _____
Type n/c _____	
-----	
Report item <u>17(b)</u>	
10 CFR <u>17.12(b)</u> ✓	
Lic Cond <u>A documented NRC approved Q/A program was not submitted in accordance with</u>	_____
10 CFR 71.12(b) xxxx prior to the first shipment of licensed material to an area wh	_____
NRC has jurisdiction	
Type n/c _____	
-----	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	
-----	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	
-----	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	
-----	

INSPECTOR PORT  
Office of Inspection and Enforcement

ZAKOWSKI, PAUL R  
REVIEW

FACTORS  
451  
11/22/89

LICENSEE VENDOR	TRANSACTION TYPE	DOCKET NO (8 digits) OR LICENSE NO (BY PRODUCT) (13 digits)	REPORT				NEXT INSP DATE	
			NO	SEQ	MO	YR	MO	YR
Anvil Corp 1675 W Bakerview Rd Bellingham, WA 98226	<input checked="" type="checkbox"/> I - INSERT <input type="checkbox"/> M - MODIFY <input type="checkbox"/> D - DELETE <input type="checkbox"/> R - REPLACE	030-20398	8901	A	03	90		

PERIOD OF INVESTIGATION/INSPECTION						INSPECTION PERFORMED BY						ORGANIZATION CODE OF REGION/HQ CONDUCTING ACTIVITY (See IEMC 0530 "Manpower Reporting - Weekly Manpower Reporting" for code)					
FROM			TO			<input checked="" type="checkbox"/> 1 - REGIONAL OFFICE STAFF			OTHER			REGION		DIVISION		BRANCH	
DAY	YR.	MO.	DAY	YR.	MO.												
3	13	89	03	14	89							5	C	D			
		25	26		31	32			33			34		35			

REGIONAL ACTION (Check one box only)		TYPE OF ACTIVITY CONDUCTED (check one box only)														
<input type="checkbox"/> 1 - NRC FORM 501	<input type="checkbox"/> 2 - REGIONAL OFFICE LETTER	<input checked="" type="checkbox"/> 02 - SAFETY	<input type="checkbox"/> 03 - INCIDENT	<input type="checkbox"/> 04 - ENFORCEMENT	<input type="checkbox"/> 05 - MGMT. AUST	<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 2780 INFORMATION				LETTER OR REPORT TRANSMITTAL DATE								
B	C	D		A	B	C	D	A	B	C	D	A	B	C	D	NRC FORM 501 OR REG. LETTER ISSUED		REPORT SENT TO HQ FOR ACTION						
				0	2													03	28	89				
36				40-41				42				43				44		49 50 55						

MODULE INFORMATION												MODULE INFORMATION												
MODULE NUMBER INSP			LEVEL	SEC	PRIORITY	DIRECT INSP/ TECH EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED TO DATE	STATUS	MODULE REQ. FOLLOWUP			REC ORD	MODULE NUMBER INSP			LEVEL	SEC	PRIORITY	DIRECT INSP/ TECH EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED TO DATE	STATUS	MODULE REQ. FOLLOWUP		
PHASE	MANUAL CHAPTER	PROCEDURE NUMBER							PHASE	MANUAL CHAPTER	PROCEDURE NUMBER		PHASE	MANUAL CHAPTER	PROCEDURE NUMBER							PHASE	MANUAL CHAPTER	PROCEDURE NUMBER
5	9,2	7,0,2	A									B	5	8,3	8,2,2	A		002	1	00C				
Follow up on previous violations												Radiation Protection												
5	3,0	7,0,3	A		002							B	5	9,2	7,0,3	A								
Management pending entrance/Exit												Bulletin/IA Followup												
5	8,7	1,0,0	A		002	1	0,0C					B	5	8,6	7,4,0	A		001	1	0,0C				
Materials inspection program												Transportation												
6	8,3	8,9,0	A									B	5	8,4	8,5,0	A				1	0,0C			
House out inspection												10 CFR 61												

# INSPECTOR'S REPORT (Continuation)

Office of Inspection and Enforcement

DOCKET NO. (8 digits) OR LICENSE  
NO. (BY PRODUCT) (12 digits)

030-20398

REPORT

NO

SEC

8901

A

B

C

D

MODULE NUMBER

586740

VIOLATION SEVERITY OR DEVIATION

1 2 3 4 5 6

1 2 3 4 5 6

SITE  
RELATED

A C

B D

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 50 characters each.)

1 A documented NRC approved Q/A program was not submitted in accordance with  
2 10 CFR 71.12(b) xxxx prior to the first shipment of licensed material to an area where  
3 NRC has jurisdiction  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

INSPECTOR'S REPORT  
(Continuation)  
Office of Inspection and Enforcement

DOCKET NO. (8 digits) OR LICENSE NO. (BY PRODUCT) (13 digits)		REPORT NO.		MOON'S NUMBER		DATE RELATED
030-20398				587190		
		A		VIOLATION SEVERITY OF DEVIATION		
		B		1 2 3 4 5 6		
		C				A C
		D				

VIOLATION OR DEVIATION (Enter up to 2500 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 50 characters each.)

1	
2	
3	Reports or notifications of Personnel monitoring were not made in accordance with 10 CFR 20.407 for the year 1987. or License Condition Number
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	



SAFETY INSPECTION

1. LICENSEE <b>Anvil Corporation 1675 W. Bakerview Road Bellingham, WA 98226</b>		2. REGIONAL OFFICE <b>U. S. Nuclear Regulatory Commission Region V 1450 Maria Lane, Suite 210 Walnut Creek, CA 94596</b>	
3. DOCKET NUMBER(S) <b>030-20398</b>	4. LICENSE NUMBER(S) <b>46-23236-01</b>	5. DATE OF INSPECTION <b>March 13-14, 1989</b>	

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 \_\_\_\_\_ were not properly maintained. 10 CFR \_\_\_\_\_ or License Condition Number \_\_\_\_\_.

E. Documents were not properly posted or otherwise made available. 10 CFR 19.11.

F. Reports or notifications of **Personnel monitoring** were not made in accordance with 10 CFR **20.407 for the year 1987.** or License Condition Number \_\_\_\_\_.



H. **A documented NRC approved Q/A program was not submitted in accordance with 10 CFR 71.12(b) ~~max~~ prior to the first shipment of licensed material to an area where NRC has jurisdiction**

I. \_\_\_\_\_

J. \_\_\_\_\_

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.

	
SIGNATURE - LICENSEE	SIGNATURE - NRC INSPECTOR
<b>4/1/89</b>	<b>4/1/89</b>
DATE	DATE

Type of License: Industrial  
Licensee: Anvil Corp

License No.: 46-23236-01  
Docket No.: 3320

### PERFORMANCE EVALUATION FACTORS

- Failure of Isotope Committee (or certain key members thereof) to meet or discuss meaningful issues for a Broad Scope type license.
- RSO too busy with other assignments (RSO spending less than 25% of time).
- Excessive customer complaints from major manufacturers or distributors.
- Excessive allegations which have been substantiated.
- Significant number of diagnostic misadministrations (greater than  $10^{-3}$  per procedure).
- High man-rem levels (greater than 50% of workers requiring NRC Form 4).
- Frequent or excessive contamination within the restricted area (greater than 10 x NMSS guidance for release to unrestricted areas).
- Excessive missed surveillances (leak testing, inventory, surveys, etc., greater than 50% per year).
- Financial instability of licensee (shoe string operations, one or two-man operation such that cost of cleanup is significant to continued operations of the facility).
- Lack of involvement of senior management to oversee RSO performance (management unaware of operations).
- Inadequate consultant service (consultant not finding any problems but NRC does).
- Radiation Safety Committee (Broad Scope) gives "rubber stamp" approvals to users and/or issues user permits for indefinite periods of time.
- Insufficient technologist/authorized user/radiation safety staffing for licensed program workload.
- Excessive numbers of repeat violations (three or more).
- Frequent internal up-takes greater than 125 mrem, whole body equivalent but less than 520 MPC/hr limits.
- Failure to follow approved procedures.
- Program not being audited by management or the Radiation Safety Committee.
- Users not familiar with safety procedures or license conditions.

U. S. NUCLEAR REGULATORY COMMISSION  
REGION V

Report No. 89-01

Docket No. 030-30870

License No. 53-23288-01

Safeguards Group \_\_\_\_\_ Priority 1 Category \_\_\_\_\_

Licensee: Fawell Geotechnical Engineering, LTD  
96-1416 Wainana Place  
Pearl City, Hawaii 96782

Facility Name: same

Inspection at: same

Inspection conducted: Nov. 17, 1989

Inspectors: J. Frank Pang

12/1/89  
Date

\_\_\_\_\_

\_\_\_\_\_  
Date

Approved by: Beth A. Redinger, Acting

12/15/89  
Date

Summary:

- This is an initial inspection. No items of non-compliance were identified.

B/9.

GUIDANCE FOR INSPECTION PROCEDURE 87100

INDUSTRIAL RADIOGRAPHY INSPECTION FIELD NOTES

Inspection Report No. 8901

License No. 53-23288-01

Licensee (name and address)

Docket No. 03c-30870

Fewell Geotechnical Engineering, LTD  
96-1416 Waihana Place  
Pearl City, Hawaii - 96782

Licensee Contact. Gary Martin, RSO

Telephone No. (808) 456-7059

Last Amendment No. 1

Date of Amendment. 9/29/89

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

Date of Inspection Nov. 17, 1989

Type of Inspection (✓) Announced ( ) Unannounced (✓) Initial ( ) Special ( ) Reinspection  
Next Inspection Date Nov., 1990 (✓) Normal ( ) Extended ( ) Reduced

Summary of Findings and Action:

- (✓) No Noncompliance, Clear 591 issued
- ( ) Action on Previous N/C
- ( ) Noncompliance, 591 issued
- ( ) Regional Action
- ( ) HQ Action

Personnel Contacted:

\* Gary Martin, RSO

\* Those present at exit interview.

Inspector J. Frank Rand  
(Signature)

12/1/89  
(Date Signed)

Approved Beth A. Redford, RSO  
(Signature)

12/15/89  
(Date Signed)



1.

ORGANIZATION

a. Management Structure

Richard Fewell, President

Gary Martin, RSC

Tom E. Murray, Radiographer

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

Gary Martin

Thomas E. Murray

} Both are named on the license.

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

2.

INSPECTION HISTORY

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

Corrected by letter dated N.A.

b. Requirement                      Severity                      Corrected                      Status

This is an initial inspection.

(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

Since October to date, the licensee has conducted 16 radiography operations.

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.

N.A. - There are no radiographer's assistants.

c. Approved training program. () Yes ( ) No

d. Deficiencies noted. ( ) Yes () No [L/C]  
Remarks.

e. Training provided by. There has been no training conducted to date.  
The licensee has been active for only about two months.

f. Written tests. () Yes ( ) No The only radiographers are those

g. Oral tests. () Yes ( ) No named on the license.

h. Radiographers completed field examination. [34.31)a)(4) and (b)(3)] () Yes ( ) No

i. Record of test results. () Yes ( ) No [34.31(.1)]  
Remarks.

j. Test results reviewed by NRC inspector. () Yes ( ) No

k. Radiographer completed on-the-job training. [34.11(b)(3)]  
( ) Yes ( ) No N.A.  
Remarks.

The only radiographers are those named on the license.

l. Retraining program required by License Condition. () Yes ( ) No

m. Periodic training. ( ) Yes ( ) No N.A.

The licensee has been active for only about two months.

n. Retraining program implemented: ( ) Yes ( ) No [L/C] N.A.  
Remarks.

The licensee has been active for only two months.

o. Records of retraining reviewed. ( ) Yes ( ) No N.A.

- p. Instruction to workers in accordance with 19.12.  
() Yes ( ) No  
Remarks.

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.

*The license has been active for only about two months*

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

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

*The license has been active for only about two months*

- 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(a)(2)]  
Remarks.

- b. Operating and Emergency Procedures approved by NRC. [34.11(c)]  
() Yes ( ) No

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.

9. QUARTERLY INVENTORIES

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

*The license has been active only about two months.*

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

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

*Inventory not due yet.*

→ d. Byproduct Material inventory on. \_\_\_\_\_  
Source  
Changer  
Model #    Quantity    Isotope    Source S/N    Camera Model    S/N

*The licensee has received the radioactivity & Calibration  
powers possessed by Finlay substantiated from Roland Watson of CCR*

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

*According to Mr. Martin, they are in the process of  
purchasing the exposure devices from Finlay Laboratories.*

10. MATERIALS, FACILITIES AND EQUIPMENT

a. Fixed Facility.

1) As described in application dated \_\_\_\_\_, Report N.A.  
dated \_\_\_\_\_, or \_\_\_\_\_

- (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 *N.A.*  
Remarks.

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

(3) Exit in accordance with 20.203(c)(3). ( ) Yes ( ) No *N.A.*  
[20.203(c)(3)]  
Remarks.

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

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

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

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

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

b. Storage Area.

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

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

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

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 NA  
Remarks.

*No radiography operations were being conducted at the time of the inspection.*

d. Survey Meters

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

(2) Type and number available.  
*Two E-barlines*

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

(4) Calibrated by. *W. ...*

(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:

*yes.*

11. PERSONNEL MONITORING

*Next inspector please check:*

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

b. Reports reviewed by: RSC Frequency: monthly

c. NRC inspector reviewed personnel monitoring records for Badges had been turned in for October last licensee had not received the report back.  
period \_\_\_\_\_ to \_\_\_\_\_

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)] *see comments in U.C.*

f. Maximum quarterly exposure. \_\_\_\_\_ Average. \_\_\_\_\_ *See comment in U.C.*

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

h. Dosimeter type. \_\_\_\_\_ Range. 0-200 urem.

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

*The licensee has been active for only two months*

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. \_\_\_\_\_

c. Test at 6-month intervals. ( ) Yes ( ) No [34.25(b)]  
Remarks.

*The license has been active for only two months.*

d. Record of leak test results maintained. ( Yes ( ) No [34.25(c)])

e. Records reviewed by NRC inspector for period Oct, 1980 to present  
Remarks.

*The sources used have been leak tested and have not exceeded the six month period.*

13. SURVEYS

a. Area of facility survey conducted to show compliance with 20.105. ( Yes ( ) No [20.201(b)])  
Remarks.

*Read "facility survey" to read "temporary job sites"*

b. Area of facility survey recorded. ( Yes ( ) No [20.401(b)])  
Remarks.

c. NRC inspector reviewed records for period Oct, 1989 to present

d. Maximum radiation levels in unrestricted areas.  
Remarks.

*≤ 2 mR/hr*

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

15. CONFIRMATORY MEASUREMENTS

- a. Confirmatory measurements made by inspector. ( Yes ( ) No
- b. Survey instrument. Xitex 305B NRC Serial No. 8215 CA  
Last date of calibration. 10/6/89
- c. Describe type and results of measurements and compare these with licensee's measurements. No significant/abnormal radiation levels were detected.

16. RECEIVING AND SHIPPING OF RADIOACTIVE MATERIALS

- a. Procedures for picking up, receiving, and opening of packages.  
( Yes ( ) No [20.205])  
Remarks.

- b. Written procedures.  Yes ( ) No
- c. Shipping incidents since last inspection. ( ) Yes  No
- d. Survey of packages when received. ( ) Yes ( ) No [20.205(c)(1)] *N.A.*  
 Remarks.  
*The sources were transported & transferred to the licensee by Roland Watson of C&R Co.*
- e. Record of survey of packages. ( ) Yes ( ) No [20.401(b)] *N.A.*  
 Remarks.
- f. Shipment of sources since last inspection. ( ) Yes  No
- (1) Only container authorized by licensee has been used.  
 ( ) Yes ( ) No  
 Remarks. *N.A.*
- (2) Shipping papers and package labeling properly completed.  
 ( ) Yes ( ) No [71.5]  
 Remarks. *N.A.*
- (3) Licensed material transferred in accordance with [30.41].  
 ( ) Yes ( ) No  
 Remarks. *N.A.*
- (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?<br>Such shipments are:                                       | <input checked="" type="checkbox"/> | ( )                                 | ( )         |
| ( ) delivered to Common Carriers?  |                                     |                                     |             |
| <input checked="" type="checkbox"/> transported in licensee's own<br>vehicle as private carrier? |                                     |                                     |             |
| ( ) both?  |                                     |                                     |             |
| If a. above is "Yes," complete following items:  |                                     |                                     |             |
| b. Are Authorized Packages used?<br>[173.415-416]  | <input checked="" type="checkbox"/> | ( )                                 | ( )         |
| Types used:  |                                     |                                     |             |
| DOT-7A, Type A [173.415]   |                                     |                                     |             |
| Performance test records on file?  | ( )                                 | <input checked="" type="checkbox"/> | ( )         |
| DOT-55 [173.416(a)]  |                                     |                                     |             |

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)]     
 NRC Q/A Approval No. \_\_\_\_\_  
 ( ) 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 ( ) VII ( ) VIII  
 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]
- h. Licensee carries shipping papers that are readily accessible when transporting RAM.    \*

Next inspector note: 18.

NOTIFICATION AND REPORTS

\* The licensee was not aware of these requirements. The RSO stated that he will be in compliance ASAP. Since this was an initial inspection, these were not cited as violations.

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

N.A.

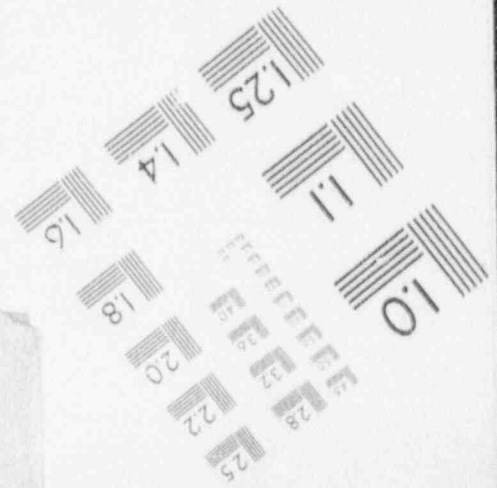
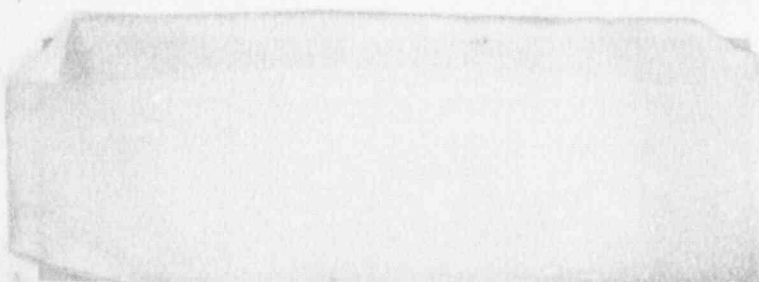
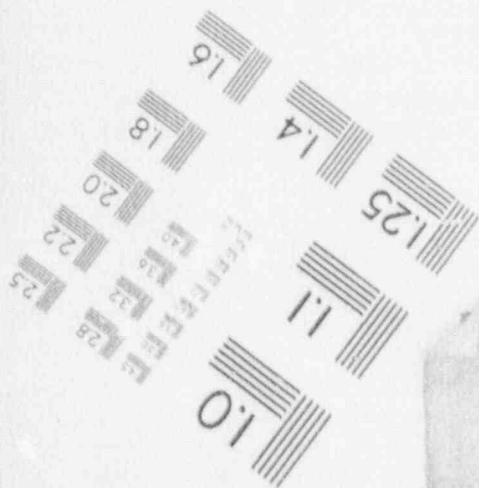
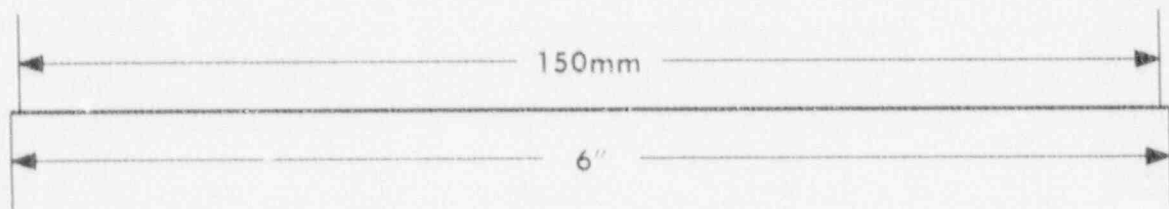
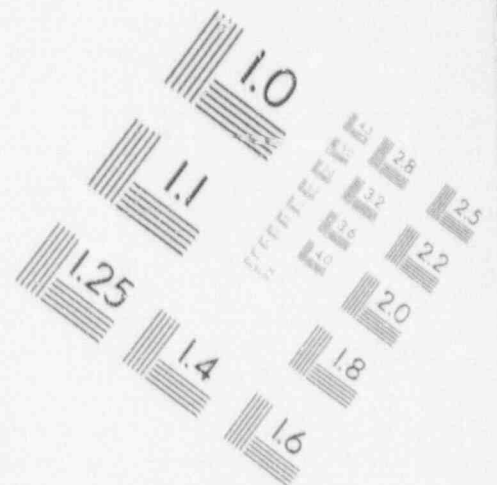
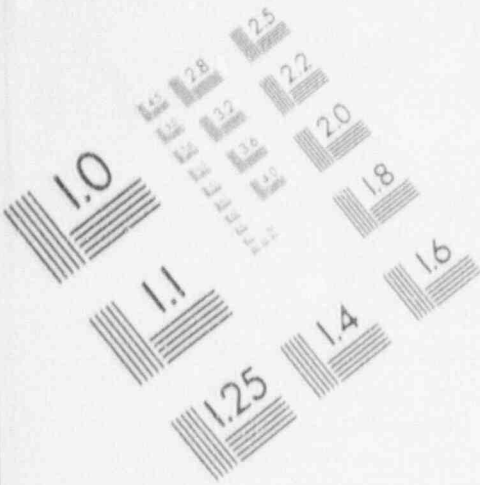
- b. Licensee in compliance with 20.405 (overexposures).  
 ( ) Yes ( ) No [20.405(a)]  
 Remarks.

N.A.



# 1

## IMAGE EVALUATION TEST TARGET (MT-3)



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.

N.A.

f. Termination Report to Commission. ( ) Yes ( ) No [20.408]  
Remarks.

N.A.

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

c. Licensee took appropriate action in response to Bulletins and  
Information Notices. (✓) Yes ( ) No  
Remarks.

21. ITEMS OF NONCOMPLIANCE

No violations were identified during this initial inspection

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

# INSPECTOR'S REPORT

Office of Inspection and Enforcement

PAANGIAP  
NEWER

INSPECTORS

LICENSEE/VENDOR				TRANSACTION TYPE	DOCKET NO. (8 digit) OR LICENSE NO. (BY PRODUCT) (13 digit)					REPORT			NYT BY DATE						
Fewell Geotechnical Engineering 170 96-1416 Waimanalo Place  Pearl City, Hawaii 96782				I - INSERT M - MODIFY O - DELETE R - REPLACE	030-30870					RPOV	-	11	9						

PERIOD OF INVESTIGATION/INSPECTION						INSPECTION PERFORMED BY						ORGANIZATION CODE OF REGION/NO. COM. AND ACTIVITY (SEE IEMC 05.30 "Manpower Reporting by Code")					
FROM		TO				R - REGIONAL OFFICE STAFF		OTHER ✓									
MO.	DAY	YR.	MO.	DAY	YR.												
11	17	89	11	17	89												

REGIONAL ACTION		TYPE OF ACTIVITY CONDUCTED (Check one box only)														
1 - NRC FORM #881 2 - REGIONAL OFFICE LETTER		<input checked="" type="checkbox"/> 02 - SAFETY <input type="checkbox"/> 03 - COMPLIANCE <input type="checkbox"/> 04 - ENFORCEMENT <input type="checkbox"/> 05 - MGMT. AUDIT	<input type="checkbox"/> 06 - MGMT. VENT <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 - EVENT. VEA. <input type="checkbox"/> 12 - SHIPMENT/EXPORT <input type="checkbox"/> 13 - IMPORT	<input type="checkbox"/> 14 - INQUIRY <input type="checkbox"/> 15 - INVESTIGATION											

INSPECTION/INVESTIGATION FINDINGS				TOTAL NUMBER OF VIOLATIONS AND DEVIATIONS				ENFORCEMENT CONFERENCE HELD				REPORT CONTAINS INFO				LETTER OR REPORT TRANSMITTAL DATE			
(Check one box only) 1 - VIOLATION 2 - DEVIATION 3 - VIOLATION & DEVIATION				A B C D 0 0 0 0				A B C D 1 - YES				A B C D 1 - YES				A B C D MO. DAY YR. MO. DAY 11 17 89 11 17 89			

MODULE INFORMATION										MODULE INFORMATION																
REC QAD	MODULE NUMBER	INSP	PHASE	MANUAL	CHAPTER	PROCEDURE NUMBER	LEVEL	SEC. #	PRIORITY	DIRECT REPORT	DIRECT REPORT	MANUAL	CHAPTER	PROCEDURE NUMBER	LEVEL	SEC. #	PRIORITY	DIRECT REPORT	DIRECT REPORT	MANUAL	CHAPTER	PROCEDURE NUMBER	LEVEL	SEC. #	PRIORITY	
	5	9	2	7	0	2																				
	Follow up on Previous Violations										Radiation Protection															
	5	3	0	7	0	3																				
	Management Meeting Entrance/Exit										Bulletin/IAP Followup															
	5	8	7	1	0	0																				
	Materials Inspection Program										Transportation															
	6	2	0	9	0																					
	Close out inspection										10 CFR 61															
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

\* CIRCLE SEQUENCE IF VIOLATION OR DEVIATION