

Report No. 88-01

Docket No. 030-20405

License No. 50-19202-02

Materials Group ✓ Priority 4 Category 3121

Licensee: CTI, Inc

3512 International Way
Fairbanks, Alaska 99701

Facility Name: CTI, Inc

Inspection at: Fairbanks, Alaska

Inspection conducted: 9 Aug 88

Inspectors: Paul R. Zwickowski

1 Sept 88
Date

Date

Approved by: B.A. [Signature] for R.D. Thomas

9/28/88
Date

Summary: Inspection on Aug 9, 1988 (Report No 80-20405/88-01)

Areas Inspected: Module 30703, Management Meetings; Module 87100, Material Inspection Program; Module 87140 Transportation; Module 83822, Radiation Protection.

Results: of the areas inspected, two violations of NRC Regulations or License Conditions were identified. These involved a failure to maintain a proper record of transfer and Type A performance test record. Paragraphs [] should be consulted for more information.

AP9

initial inspection

NUCLEAR MATERIALS SAFETY SECTION
INDUSTRIAL - ACADEMIC INSPECTION REPORT

Inspection Report No. 88-01

Licensee (Name and Address)

CTI, Inc
3512 International Way
Fairbanks, Alaska 99701

Licensee Contact: Mr. S. d. Watson Telephone No. (907) 452-1188
License No. 50-14202-02 Docket No. 030-20405
Lic. Amendment No. 3 Date of Amendment: 18 Feb-58
Category: 3121 Priority: 4
Program Code: 3121

Date of Inspection: 9 Aug 58

Type of Inspection: Announced Initial
 Unannounced Special
 Reinspection

Next Inspection 1992 Normal Reduced Extended

Summary of Findings and Action:

No Noncompliance, Clear 591 issued Action on Previous N/C
 Noncompliance, 591 issued Regional Action
 Noncompliance, Appendix A HQ Action

Inspector: Paul R. Zwickowski
(Signature)

2 Sept 58
(Date Signed)

Approved: B.G. Redding for R.D. Thomas
(Signature)

9/28/58
(Date Signed)

4. INTERNAL AUDITS OR INSPECTIONS

Six more in inventory (conducted for Fowler Group)

a. Required by L/C or application: Yes No If "Yes":

- 1) By whom RSD
- 2) Frequency 6 months Announced: Unannounced:
- 3) Scope trexler gauge not last tested (in storage)
6 month inventory taken 2 Campbell Pacific
gauges sent to North Slope for 2 month job in 1987
and sent back for storage after job was done
- 4) Records maintained: Yes No
- 5) Records reviewed: Yes No
- 6) Period Reviewed: Records of Trexler not available for
2 Campbell Pacific Gauges stored by Campbell Pacific

b. Comments (responsibility of auditor or committee, management control):

since July 1987.

5. TRAINING, RETRAINING, AND INSTRUCTIONS TO WORKERS

a. Training program specified in L/C or application: Yes No

b. If training program is required, describe scope of program:

Sandy Watson was trained by Trexler Tech Rep
Sandy trained three people as operators

c. Retraining required: Yes No

If "Yes" is retraining: Complete N/A Incomplete

- 1) Are tests and/or examinations required: Yes No
- 2) If "Yes" are records available: Yes No
- 3) Reviewed test results: Yes No
- 4) Period reviewed: _____
- 5) Comments (per cent completed, test results, etc.): _____

d. Training provided, but not covered above: _____

e. Instructions to workers in accord with 10 CFR 19.12: Yes No

6. RADIOLOGICAL PROTECTION PROCEDURES

- a. Operating and Emergency Procedures
- 1) Required by L/C or application: Yes No
 - 2) Provided, but not required by L/C or application: Yes No
 - 3) Procedures reviewed: Yes No
 - 4) Appeared adequate: Yes No
 - 5) Comments (personnel's understanding of procedures):
Used procedures supplied by
manufacturer with the gauges & also used
during the training.
- b. Changes in procedures since last inspection: Yes No
- 1) Were changes authorized: Yes No
 - 2) Comments: N/A

7. INSTRUMENTATION

- a. Type(s) of radiation survey instruments on hand as per L/C, application or equivalent: Yes No N/A
- 1) If "No" list changes: _____

- b. Capability of radiation survey instruments adequate for program:
Yes No
- c. Calibration of instruments required: Yes No
- d. If "Yes", instruments calibrated in accord with requirements:
Yes No
- e. Comments: _____

8. MATERIALS

- a. Radioactive material secured to prevent unauthorized removal from:
1) Restricted area: Yes No
2) Unrestricted area (20.207): Yes No

b. Method of control appear adequate: Yes No

c. Comments: limited storage area in the building
is used for storage of radioactive
materials.

9. FACILITIES

a. Facilities described in letter or application: Yes No

b. Facilities inspected: Yes No

c. Comments: Traveler instrument in storage
in front of office in post office where
radioactive materials are stored.

10. POSTING AND LABELING

a. Posting and labeling in accord with 10 CFR 20.203: Yes No

b. Comments: _____

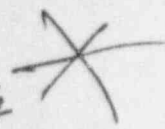
11. RECEIPT AND TRANSFER OF MATERIAL

a. Procedures for picking up and receiving packages (10 CFR 20.205[b][c]):
Yes No

- 1) Incoming shipments monitored: Yes No
2) Records of monitoring maintained (10 CFR 20.401[b]): Yes No
3) Records reviewed by NRC inspector: Yes No
4) Period reviewed: receipt of these groups

b. Procedures for opening packages (10 CFR 20.205[d]): Yes No

c. Comments: packages are opened in accordance with
receiving procedures as described in manual

- NCR: 
- d. Records of receipt and transfer of material available (30.51[a]; 40.61[a]; 70.51[b][1]): Yes No
 1) If "Yes", review of records was made by Inspector: Yes No
 2) Period reviewed: _____
 3) Comments: Review of transfer for fuel
Control Pacific Group S/N # 76702A 7669
- e. Packages on hand meet labeling requirements (49 CFR 173.399):
 Yes No
 Comments: _____
- f. Reports to commission required by L/C or regulation submitted:
 Yes No
 Comments: N/A

12. PERSONNEL RADIATION PROTECTION - EXTERNAL

- a. Film or TLD badge supplier Rad. Det Co Sunnyvale
- b. Badge exchange frequency monthly
- c. Reports reviewed by RSO
- d. Records reviewed for period June 87 to July 88 by NRC inspector
- e. NRC forms or equivalent
 1) NRC-4 (20.102[b]): Yes No Complete: Yes No
 2) NRC-5 (20.401[a]): Yes No Complete: Yes No
 Maximum whole body quarterly exposure: _____
 Maximum extremity quarterly exposure: _____
 3) Comments: no measurable exposure
from quarter
- f. Pocket dosimeters used: Yes No
 1) Type used: 0-200 (some used for Reducosity)
 2) Frequency of recharging: _____
 3) Frequency of reading: _____
 4) Comments: _____
- g. Direct radiation surveys of restricted and/or unrestricted areas being made: Yes No
 1) Records of surveys being maintained: Yes No
 2) Records of surveys reviewed: Yes No
 3) Period reviewed: however they do have survey
 4) Comments: instruments on hand for these radiography
work

- e. Period reviewed: through Feb 1988
- f. Records of leak tests appear adequate: Yes No
- g. Comments: Campbell Pacific re done
five leak tests show 20-40 ft. they
are in storage

15. RADIOACTIVE EFFLUENT CONTROL AND WASTE DISPOSAL N/A

- a. Byproduct material released to atmosphere and/or sewer (20.106 and 20.303):
Yes No
- b. Records of releases or radioactive effluents maintained (20.401):
Yes No
- 1) Period reviewed: _____
- 2) Records appear adequate: Yes No
- c. Solid waste disposal method: _____
- 1) Records of disposal maintained (30.51): Yes No
- 2) Surveys of waste prior to disposal made (20.201): Yes No
- 3) Period reviewed: _____
- 4) Records of surveys appear adequate (20.401): Yes No
- d. Comments: _____

INDUSTRIAL/ACADEMIC

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

Yes N/A Vio

- a. Licensee makes shipments of RAM?
Such shipments are:
() delivered to common carriers?
() transported in licensee's own vehicle as private carrier?
() both?

() () ()

If above is yes, complete items below:

- b. Are authorized packages used? [173.415-416] () () ()
Package types used:
() DOT-7A, Type A [173.415(a)]
performance test records on file? () () ()
() DOT-55 [173.416(a)]
licensee aware of 6/30/85 cutoff on use? () ()
() Excepted, Instruments/articles [173.421-424]
() LSA-strong tight [173.425(b)(1)]
() NRC-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? [71.17(b)]
NRC Q/A Approval No.: _____
() Other: _____

N/C: ~~X~~

- c. Special Form Material performance test records available for each source design? [173.476(a)] () () ()

- d. Packages Labeled as required? [172.403(a)] () () ()
() Excepted () MI () YII () YIII
Surveys performed to select correct label category and compliance with Rad. Limits? [173.475(1)] () () ()

- e. Packages Marked as required, i.e., proper shipping name, ID No., Spec. No., COC No., etc. [172.300]

- f. Shipping papers prepared for each shipment? [172.200] () () ()
Such papers contain required information? [172.203(d)]

- g. For Licensee private carrier shipments:
Vehicles placarded as required? [172.500] 172.60 N TABLE 1 () () ()
Cargo blocked, braced, tied down in vehicle? [177.842(d)] () () ()
Any incidents reported to DOT? [171.15-16] () () ()

- h. Does licensee ship any radwaste?
If yes, are shipments:
() tendered to common carriers by licensee? () () ()
() tendered through a Radwaste Broker?

- If yes, name of Broker _____
Is licensee aware of 10 CFR 61 waste generator requirements? [10 CFR 61] () () ()
Has licensee classified and characterized waste? [20.311(d)] () () ()

17. NOTIFICATIONS AND REPORTS

a. Licensee in compliance with 10 CFR 19.13 (reports to individuals):
Yes No

b. Licensee in compliance with 10 CFR 20.405 (over exposure):
Yes No

c. Licensee in compliance with 10 CFR 20.403 (incidents):
Yes No

d. Licensee in compliance with 10 CFR 20.402 (theft or loss):
Yes No

e. Comments _____

18. POSTING OF NOTICES

a. Licensee in compliance with 10 CFR 19.11(a) or (b): Yes No

b. Licensee in compliance with 10 CFR 19.11(c): Yes No

c. Comments: _____

19. ENVIRONMENTAL MONITORING PROGRAM

a. Environmental Monitoring Program required: Yes No

b. If "Yes" records reviewed: Yes No

c. Period reviewed: _____

d. Records appeared adequate: No

e. If Environmental Program is not required, briefly describe any existing program: N/A

20. CONFIRMATORY MEASUREMENTS

a. Independent measurements made by inspector: Yes No

b. Comments (describe type, results, comparison with licensee results):

*Measurements made in storage area
with Vetex 305B covered shell with
those made by the licensee*

21. INDEPENDENT INSPECTION EFFORT

a. Comment on type of independent inspection effort conducted:

*On basis of the facilities described no
general health program or security
measures*

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

Blank lined area for continuation of text.

Management (The Same)
Sandy Watson
↑

Authorized Users (Trainer)

1. Allan Wildfield
2. Don Black

APPENDIX A - DOCUMENTATION of NONCOMPLIANCE

Licensee: CTI, Inc

License no: 50-19202-02

Reference	Basis for noncompliance
Report item <u>16(b)</u>	
10 CFR <u>71.5</u>	10 CFR 71.5 states, in part, that each licensee who transports licensed material outside the confines of its plant or other place of use, or who delivers licensed material to a carrier for transport, shall comply with the applicable requirements
Lic Cond <u> </u>	of the regulations appropriate to the mode of transport of DOT in 49 CFR Parts 170 through 189. 49 CFR 173.415(a) states, in part, that each shipper of a specificatio
Type n/c <u>5</u>	7A package must maintain on file a complete documentation of tests and an engineer's evaluation or xxxxxx comparative data showing that the package is constructed in accordance with DOT design requirements.

Report item <u> </u>	Contrary to the above requirements, at the time of the inspection, the documentation related to the above mentioned performance test had not been
10 CFR <u> </u>	<u>maintained.</u>

Lic Cond

Type n/c

Report item <u>11(d)</u>	
10 CFR <u>31.51(a)</u>	Records of <u>transfer for two Campbell-Pacific gauges (S/N 7669 & 7670)</u> were not properly maintained
Lic Cond <u> </u>	10 CFR <u>30.51(a)</u> or License Condition Number <u> </u>

Type n/c 5

Report item

10 CFR

Lic Cond

Type n/c

Report item

10 CFR

Lic Cond

Type n/c