

Page 1 of    INSPECTION REPORT NO. SR-01

Attached

☐ Appendix A☐ Appendix B☐ Appendix C☐ MemoLicensee contact: George Dietz Telephone no. 201-887-4700License no. 29-15364-01 Last amendment and date:                     Category: E #, and Priority: 4, as of last amendment.Inspection date(s): June 22, 1982 Type of inspection: Special (Unscheduled)Announced

## SUMMARY OF FINDINGS AND ACTION

☒ No noncompliance, clear SPT issued letter☐ Noncompliance, Appendix A☐ Action on previous noncompliance, Appendix B☐ Noncompliance, SPT issued☐ Regional action      Hq action☐ Supplemental info, Appendix C

## RECOMMENDATIONS

See basis in Appendix C or attached memo.

☐ Change Category to:                     ☐ Change Priority to:                     ☒ Next inspection date: no change

## PERSONS CONTACTED

George Dietz - PresidentCarl Wilson - MaintenanceGeorge Baker - Group General ManagerFrank Constantine - General ManagerAlberto Santiago - Maintenance AssistantBill McKinnon - Maintenance AdaptorInspector:                     Approved:                     6/23/826/24/82

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INSPECTION PLAN AND REPORT NUMBER \_\_\_\_\_

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Plan Approved: \_\_\_\_\_ Date: \_\_\_\_\_

Licensee: \_\_\_\_\_

License No: \_\_\_\_\_

Inspection Items	Scheduled for Inspection	Post-Inspection Status	Module No.	766 Time Info
Management Meeting - Entrance and Exit Interviews (Required)			30703B	<i>4/2</i>
Program Requirements, MC 2850 (Required)			77710B	
Followup on Noncompliance and Deviations			92702B	
Independent Inspection Effort (Required)			92706B	
Transportation			86740B	
Licensee Event Followup	<i>/</i>	<i>Completed</i>	92700B	<i>4/2</i>
Followup on Inspector-Identified Problems			92701B	
IE Bulletin/Immediate Action Letter Followup			92703B	
Followup on Headquarters Requests			92704B	
Followup on Regional Requests			92705B	
Inspector Dispatched to Site			93700B	
Followup on Significant Event Occurring During Inspection			93701B	
Initial Management Meeting			38800B	

## AREAS INSPECTED AND FINDINGS

777102 - Industrial-Academic

Licensee: \_\_\_\_\_ License no: \_\_\_\_\_ Amendment no: \_\_\_\_\_

INSPECTION ITEMS	CRITERIA	FINDING
1. <u>Organization</u>	Lic Cond _____	_____
Management organization.		
Radiation protection organization.		

NOTES & REMARKS:

2. <u>Licensee internal audits</u>	Lic Cond _____	_____
Scope and frequency.		
Management controls.		

NOTES & REMARKS:

3. <u>Training and instructions to employees</u>	Lic C	<u>C</u>
Training program, scope and frequency, retraining.	Lic Cond _____	
Required tests administered; scores satisfactory.		
Instructions to workers.	19.12	

NOTES & REMARKS:

Employee had been given instruction as required by license condition - as per conversation with employee and management.

4. <u>Radiation protection procedures</u>		<u>C</u>
Operating & emergency procedures implemented.	Lic Cond _____	
Security.	20.207	

NOTES & REMARKS:

Reviewed procedures for entering hot cell - in compliance with license condition

## AREAS INSPECTED AND FINDINGS

777108 - Industrial-Academic

Licensee: \_\_\_\_\_ License no: \_\_\_\_\_ Amendment no: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
<u>5. Materials, facilities and instruments</u>		
Authorized uses and quantities.	Lic Cond _____	
Restricted areas, posting requirements.	20.203	
Survey instruments & dosimeters; operable, properly calibrated.	Lic Cond _____	
NOTES & REMARKS:		
<u>6. Receipt and transfer of materials</u>		
Procedures implemented, adequate.	20.205, 71.57	
Transfer of byproduct material.	30.47	
Labeling and packaging.	71.5, 49CFR 170-189	
Records of receipt, transfer, storage, survey, and monitoring	30.57	
NOTES & REMARKS:		
<u>7. Personnel protection - external</u>		
Personnel monitoring control; minimize exposures, control of accumulated dose.	20.101, 20.102, 20.202	
Surveys conducted, adequate.	20.207	
Records of monitoring, surveys, disposals.	20.401, Lic Cond _____	
Levels in unrestricted areas.	20.1, 20.105	
NOTES & REMARKS:		
<u>8. Personnel protection - internal</u>		
Airborne concentrations in restricted areas.	20.103	
Exposure of minors.	20.104	
Posting of airborne radioactivity areas.	20.203	
Survey, monitoring requirements; records.	20.201, 20.401	
Leak tests of sealed sources.	Lic Cond _____	
NOTES & REMARKS:		

## AREAS INSPECTED AND FINDINGS

777102 - Industrial-Academic

Licensee: \_\_\_\_\_ License no: \_\_\_\_\_ Amendment no: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
9. <u>Effluent control, waste disposal</u>		_____
Release of effluents.	20.106	
Waste disposal.	20.301, 20.303, 20.304, 20.305	
Procedures, records.	20.407, Lic Cond _____	

NOTES & REMARKS:

10. <u>Shipping, shipping incidents</u>		_____
Procedures for pickup, receipt, monitoring of packages.	20.205(b) & (c)	
Transportation of licensed material.	71.5	
Incidents, reports, corrective actions.	49CFR 170-189	

NOTES & REMARKS:

11. <u>Notifications and reports</u>		_____
To individuals.	19.13	
Overexposures, excessive levels & concentrations, incidents.	20.403, 20.405	
Personnel exposures and monitoring, termination reports.	20.407, 20.408	
Theft or loss of licensed material.	20.402	

NOTES & REMARKS:

12. <u>Posting of notices</u>		_____
Part 20, license & documents, procedures, notice of violations.	19.11(a)	
NRC-3.	19.11(c)	

NOTES & REMARKS:



## AREAS INSPECTED AND FINDINGS

777108 - Industrial-Academic

Licensee: \_\_\_\_\_ License no: \_\_\_\_\_ Amendment no: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
13. <u>Environmental monitoring program</u>	Lic Cond _____	_____
Implementation of program, scope and frequency as required. Records maintained, reviewed by management. NOTES & REMARKS:		
14. <u>Emergency preparedness</u>	Lic Cond _____	_____
Procedures available for incidents and accidents. Training for personnel; coordination with supporting groups and agencies. NOTES & REMARKS:		
15. <u>Other license conditions</u>	Lic _____	_____
NOTES & REMARKS:		
16. <u>Confirmatory measurements</u>	20.105, 20.201	<u>C</u>
Licensee's surveys verified on sampling basis. NOTES & REMARKS: g/m survey of facility with sources in "UP" position		
17. <u>Independent inspection effort</u>		_____
NOTES & REMARKS:		

## APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Licensee: \_\_\_\_\_

License no: \_\_\_\_\_

Reference	Basis for noncompliance
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 _____	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	

## APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

Licensee: \_\_\_\_\_

License no: \_\_\_\_\_

Identification and summary of action taken

Status

Report no: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe: \_\_\_\_\_

Action taken:

OPEN

CLOSED

Not reviewed on this inspection

Report no: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe: \_\_\_\_\_

Action taken:

OPEN

CLOSED

Report no: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe: \_\_\_\_\_

Action taken:

OPEN

CLOSED

Report no: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe: \_\_\_\_\_

Action taken:

OPEN

CLOSED

Report no: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe: \_\_\_\_\_

Action taken:

OPEN

CLOSED



## APPENDIX C - SUPPLEMENTARY INFO

Licensee: \_\_\_\_\_

License no: \_\_\_\_\_

☐ Uncorrected/repeated noncompliance☐ Unresolved items☒ Unusual occurrence, conditions, etc☒ Inspector's comments☐ Basis for change of Category or Priority

Inspection limited to a review of circumstances surrounding report of 48 rem on <sup>TLD</sup> film badge of license employee (May 1982)

Interviews with personnel detailed on first page revealed the following:

1. there were no unusual incidents during May 1982
2. the employee denied taking the film badge home
3. the employee performed no ~~unusual~~ unusual activity or worked in any ~~unusual~~ unusual locations during May 1982

Licensee representatives stated that the employee <sup>occasionally</sup> entered the hot cell only after it had been surveyed by authorized operator. He performed routine maintenance on pistons and manual manual equipment.

The employee spends 75% in the assembly area for gamma sources (category I irradiators). The units are loaded at CRNL with multi-curie quantities of Cs-137. A review of work conditions <sup>in this area</sup> indicated no significant hazard. Radiation levels at the surface of the gamma source ranged in the order of 10-20 ~~mr~~ <sup>mr</sup>/hour. A 200,000 cc (20-60) storage cask is located in the same area and is surrounded by high density brick. Maximum readings were < 0.5 mR/hr. Surveys around the hot cell with the source in the "up" position were ~~not~~ made. These measurements confirmed the licensee's submitted survey (letter July 31, 1981).

~~All~~ <sup>TLD</sup> film badges are stored by the timeclock <sup>at the end of each shift</sup> so there is no restricted access to these badges. Licensee representatives stated they did not believe that the badge was deliberately exposed.

Jack Davis  
Phone Conversation

6/18/82  
145 PM

Iso medix -  
Geo Dietz

201-887-4700

For month of May  
48,000 when on TLD

Teledyne Bodge -

- New employee started 4/14/82
- Ass't maint man who works with 2 other maintenance men
- In Training, Always works with other maintenance men.

17 person on report -

15 C 0 when

1 e 30 "

1 e 48000 "

TLD on each by time clock  
No controls

Spoke with man  
no record, did nothing  
out of the ordinary -

Wore jacket down for last 4 weeks  
never zero it -  
HAS 40 m. H. riv.

Teddy - reconfirmed  
reading - Hi Engong &

Two other men  
were jacket down. sign  
in dosimeter log. Ditty  
had no record in other  
part of plant

At plant there is a conflict  
Union can win by one vote  
been work. no down  
refusal of overtime etc.

## Suggested:

- ① Get CBC on man.
- ② Get Kero typing
- ③ Get written statement  
from each maintenance man
- ④ Record investigation  
results -
- ⑤ Send copy of report  
to NRC.