

INSPECTION REPORT NO. 83-01

Page 1 of

Union Carbide
P.O. Box 8361
So. Charleston, WV 25303

- Attached
- Appendix A
- Appendix B
- Appendix C
- Memo

Licensee contact: J. Boggess Telephone no.

License no. 47-00260-02 Last amendment and date:

Category: E, and Priority: III, as of last amendment.

Inspection date(s): 2/17/83 Type of inspection: Routine - annual

SUMMARY OF FINDINGS AND ACTION

- No noncompliance, clear 591 issued
- Noncompliance, 591 issued
- Noncompliance, Appendix A
- Regional action Hq action
- Action on previous noncompliance, Appendix B
- Supplemental info, Appendix C

RECOMMENDATIONS

See basis in Appendix C or attached memo.

- Change Category to:
- Change Priority to:
- Next inspection date: 2/86

PERSONS CONTACTED

<u>J.A. Boggess</u>	<u> </u>
<u>Mike Green</u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

Inspector: Robert A. Brown 2/22/83

Approved: [Signature] 2/23/83

A-71

Plan approved: _____

Date: _____

Licensee: _____

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License no: _____

47-460-02

Inspection Items	Scheduled for Inspection	Post-Inspection status	Module no.	766 Time Info
Management meeting - Entrance and Exit Interviews [REQUIRED]	✓		30703B	1/4 hr
Initial Management Meeting				
Program requirements, MC 28 [REQUIRED]	✓		77710B	1 1/2 hr
Licensee Event Followup			92700B	
Followup on Inspector-identified problems			92701B	
Followup on Noncompliance and Deviations			92702B	
IE Bulletin/Immediate Action Letter Followup			92703B	
Followup on Headquarters Requests			92704B	
Followup on Regional Requests			92705B	
Independent Inspection Effort [REQUIRED]	✓		92706B	1/4 hr
Inspector Dispatched to Site			93700B	
Followup on Significant Event Occurring During Inspection			93701B	

Mr. D.L. Garrison Assoc. Dir of Engineering



Jay Brubaker - RPO
Group leader - Special Instrumentation



Mike Green
Section Leader

J.A. Boggess - Radiation Technician
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AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide License no: 47-260-02 Amendment no:

INSPECTION ITEMS	CRITERIA	FINDING
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<u>1. Organization</u> Management organization. Radiation protection organization.	Lic Cond <u> </u>	<u>OK</u>
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NOTES & REMARKS:

See opposite page.

<u>2. Licensee internal audits</u> Scope and frequency. Management controls.	Lic Cond <u> </u>	<u>OK</u>
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NOTES & REMARKS:

*Radiation Safety Committee -
meets annually - minutes recorded.*

<u>3. Training and instructions to employees</u> Training program, scope and frequency, retraining. Required tests administered; scores satisfactory. Instructions to workers.	Lic C Lic Cond <u> </u>	<u>OK</u>
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NOTES & REMARKS:

*5 day course for RPO'S - also
short courses for GG users etc.*

exams given → *Training records maintained*

<u>4. Radiation protection procedures</u> Operating & emergency procedures implemented. Security.	Lic Cond <u> </u> 20.207	<u>OK</u>
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NOTES & REMARKS:

*Radiation Control Manual
provided to all users*

2 - Sr^{90} - not in use

2 - Am^{241} → 2.39 Ci
1.3 Ci

59 - Cs^{137} process gauges - most in storage
used in pilot plants.
most are 200 mCi Texas Nuclear,
some up to 10 Curies.

9 - Ni^{63} foils

AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide License no: 47-260-2 Amendment no:

INSPECTION ITEM	CRITERIA	FINDING
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5. Materials, facilities and instruments

Authorized uses and quantities.	Lic Cond <u> </u>	<u>OK</u> Survey instruments calibrated every 6 months by licensee - uses Co 137 Records kept.
Restricted areas, posting requirements.	20.203	
Survey instruments & dosimeters; operable, properly calibrated.	Lic Cond <u> </u>	

NOTES & REMARKS: See opposite page: Eberline ES20'S
Victoren Meter, Cutie Pie's, Teletectors, neutron detectors, NaI'S.

6. Receipt and transfer of materials

Procedures implemented, adequate.	20.205, 71.51	<u>OK</u> Packages surveyed upon receipt.
Transfer of byproduct material.	30.41	
Labeling and packaging.	71.5, 49CFR 170-189	
Records of receipt, transfer, storage, survey, and monitoring	30.51	

NOTES & REMARKS: Transfers to Union Carbide locations licensed by NRC or agreement states, TX, LA, GA, NJ. Licenses kept on file.

7. Personnel protection - external

Personnel monitoring control; minimize exposures, control of accumulated dose.	20.101, 20.102, 20.202	<u>OK</u> Monthly lavender Film badges. -
Surveys conducted, adequate.	20.201	
Records of monitoring, surveys, disposals.	20.401, Lic Cond <u> </u>	All exposures are minimal except for an occasional reading of 20 to 30 mrem
Levels in unrestricted areas. -	20.1, 20.105	

NOTES & REMARKS: TLD rings available. Surveys of Nuclear Lab + storage area. Records kept.

8. Personnel protection - internal

Airborne concentrations in restricted areas.	20.103	<u>OK</u> All sources leak tested every 6 months - also provide leak test services for other locations
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 <u> </u>	

NOTES & REMARKS:

AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide License no: 47-260-2 Amendment no:

INSPECTION ITEM	CRITERIA	FINDING
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9. Effluent control, waste disposal

OK

Release of effluents.	20.106
Waste disposal.	20.301, 20.303, 20.304, 20.305
Procedures, records.	20.401, Lic Cond

NOTES & REMARKS:

*Sealed sources shipped to Chem-Nuclear
6/25/82 - 47 containers - mostly sealed sources,
< 50mCi C14 - records maintained.*

10. Shipping, shipping incidents

OK

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:

No shipping incidents

11. Notifications and reports

OK

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:

No reports required

12. Posting of notices

OK

Part 20, license & documents, procedures, notice of violations.	19.11(a)
NRC-3.	19.11(c)

NOTES & REMARKS:

All areas properly posted.

AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide License no: 47-260-02 Amendment no:

INSPECTION ITEM	CRITERIA	FINDING
<p>13. <u>Environmental monitoring program</u></p> <p>Implementation of program, scope and frequency as required.</p> <p>Records maintained, reviewed by management.</p> <p>NOTES & REMARKS:</p>	Lic Cond <u> </u>	<u> </u>
<p>14. <u>Emergency preparedness</u></p> <p>Procedures available for incidents and accidents.</p> <p>Training for personnel; coordination with supporting groups and agencies.</p> <p>NOTES & REMARKS:</p>	Lic Cond <u> </u>	<u> </u>
<p>15. <u>Other license conditions</u></p> <p>NOTES & REMARKS:</p>	Lic	<u> </u>
<p>16. <u>Confirmatory measurements</u></p> <p>Licensee's surveys verified on sampling basis.</p> <p>NOTES & REMARKS:</p>	20.105, 20.201	<u> </u>
<p>17. <u>Independent inspection effort</u></p> <p>NOTES & REMARKS:</p> <p>Radiation levels outside of source storage building < 0.6 mR/hr</p>	<u>OK</u>	<u> </u>