

INSPECTION REPORT NO. 80-01

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Union Carbide Corp.
Technical Center P.O. Box 8361
So. Charleston, West Virginia 25303

Attached

- Appendix A
- Appendix B
- Appendix C
- Memo

Licensee contact: J. Brubaker Telephone no.

License no. 47-00260-06 Last amendment and date:

Category: E (1-A) and Priority: IV, as of last amendment.

Inspection date(s): 4/8/80 Type of inspection: Routine - unannounced

SUMMARY OF FINDINGS AND ACTION

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

RECOMMENDATIONS

See basis fr. Appendix C or attached memo.

Change Category to: 1 Change Priority to:

Next inspection date: 3/83

PERSONS CONTACTED

<u>Fred Staccia</u>	<u> </u>
<u>Diane Allport</u>	<u> </u>
<u>R. Stief</u>	<u> </u>
<u>L. Garrison</u>	<u> </u>

Inspector: Robert G. Brown

4/14/80

Approved: [Signature]

4/19/80

A-2/2

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2.1.1

INSPECTION PLAN AND REPORT NUMBER 80-01

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Plan approved: - Date:

Licensee: Union Carbide Corp.

License no: 47-260-06

Inspection Items	Scheduled for inspection	Post-inspector status	Module no.	TEE Time Info
Management meeting - Entrance and Exit Interviews <i>(REQUIRED)</i>	✓		30703E	30 min
Initial Management Meeting				
Program requirements, MC 2E <i>(REQUIRED)</i>	✓		77710B	2 hr.
Licensee Event Followup			92702E	
Follow-up of Inspector-identified problems			92701E	
Followup on noncompliance and Deviations			92702E	
IE Bulletin/Immediate Action Letter Followup			92703E	
Followup on Headquarters Requests			92704E	
Followup on Regional Requests			92705E	
Independent Inspection Effort <i>(MODULE)</i>	✓		92706B	30 min.
Inspector Dispatched to Site			93700E	
Followup on Significant Event Occurring During Inspection			93701E	

Bob Stief - Director of Engineering

L. Garrison - associate Director

Mr. Jay Brubaker - RPO

Fred Straccia - asst RPO

Radioactive Materials Committee -

Committee reviews proposed ^{new} uses.

All new users have to go thru
at least 8 hours of training.

APPEALS INSPECTED AND FINDINGS

Licensee: Union Carbide Corp. License no: 47-260-6 Agency no:

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

NOTES & REMARKS:

See opposite page

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

*Radioactive Materials Committee
Meets annually - last meeting 3/10/80.
Minutes kept.*

NOTES & REMARKS:

3. <u>Training and instructions to employees</u>	Lic C	<u>OK</u>
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Training program, scope and frequency, retraining.

Lic Cond

Required tests administered; scores satisfactory.

Instructions to workers.

19.12

NOTES & REMARKS:

*All users trained prior to work.. Attend
8 hour course.*

4. <u>Radiation protection procedures</u>	Lic Cond <u> </u>	<u>OK</u>
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Operating & emergency procedures implemented.

Lic Cond

Security.

20.207

NOTES & REMARKS:

*All procedures covered in Radiological
Control Manual.*

Ni^{63} - GC sources

C^{14} - 637.343 M Ci. \rightarrow used in 4 labs

AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide Corp. License no: 47-260-6 Amendment no:

INSPECTION ITEM	CRITERIA	FINDINGS
<p><u>5. Materials, facilities and instruments</u></p> <p>Authorized uses and quantities. Restricted areas, posting requirements. Survey instruments & dosimeters; operable, properly calibrated.</p> <p>NOTES & REMARKS: <i>Inventory performed quarterly.</i></p>	<p>See opposite page</p> <p>Lic Cond <u> </u> 20.203 Lic Cond <u> </u></p>	<p><u>OK</u></p> <p>PAC 4-G, (for C-14)</p> <p>Calibrated by licensee every 6 months. Records kept</p>
<p><u>6. Receipt and transfer of materials</u></p> <p>Procedures implemented, adequate. Transfer of byproduct material. Labeling and packaging. Records of receipt, transfer, storage, survey, and monitoring</p> <p>NOTES & REMARKS: <i>all material ordered thru 2 project scientists.</i></p>	<p>20.205, 71.51 30.41 71.5, 49 CFR 170-125 30.51</p>	<p><u>OK</u></p> <p>Most material received from California BioNuclear</p>
<p><u>7. Personnel protection - external</u></p> <p>Personnel monitoring control; minimize exposures, control of accumulated dose. Surveys conducted, adequate. Records of monitoring, surveys, disposals. Levels in unrestricted areas.</p> <p>NOTES & REMARKS: <i>No film badges required under this license.</i></p>	<p>20.101, 20.102, 20.202 20.201 20.401, Lic Cond <u> </u> 20.1, 20.105</p>	<p><u>OK</u></p>
<p><u>8. Personnel protection - internal</u></p> <p>Airborne concentrations in restricted areas. Exposure of minors. Posting of airborne radioactivity areas. Survey, monitoring requirements; records. Leak tests of sealed sources.</p> <p>NOTES & REMARKS: <i>Monthly wipe tests - 500 DPM/100cm² limit - records kept. ~20 wipes taken per lab.</i></p>	<p>20.103 20.104 20.203 20.201, 20.401 Lic Cond <u> </u></p>	<p><u>OK</u></p> <p>⁶³Ni sources leak tested every 6 months.</p>

C¹⁴ → 637.343 MCi on hand on 11/1/80.

AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide Corp License no: 47-260-6 Amendment no:

INSPECTION ITEM	CRITERIA	FINDINGS
9. Effluent control, waste disposal		
Release of effluents.	20.10E	<u>OK</u>
Waste disposal.	20.301, 20.303, 20.304, 20.305	
Procedures, records.	20.401, Lic Cond	
NOTES & REMARKS:		
<i>All waste is currently held until disposal contractor is available. Waste is separated, liquid & solids scintillation vials. Waste Disposal in 5/79.</i>		
10. Shipping, shipping incidents		
Procedures for pickup, receipt, monitoring of packages.	20.205(b) & (c)	<u>OK</u>
Transportation of licensed material.	71.5	
Incidents, reports, corrective actions.	49CFR 170-185	
NOTES & REMARKS:		
<i>No incidents.</i>		
11. Notifications and reports		
To individuals.	19.13	<u>OK</u>
Overexposures, excessive levels & concentrations, incidents.	20.403, 20.405	
Personnel exposures and monitoring, termination reports.	20.407, 20.40E	
Theft or loss of licensed material.	20.402	
NOTES & REMARKS:		
<i>No reports required</i>		
12. Posting of notices		
Part 20, license & documents, procedures, notice of violations.	19.11(a)	<u>OK</u>
NRC-3.	19.11(e)	
NOTES & REMARKS:		
<i>All areas properly posted.</i>		

AREAS INSPECTED AND FINDINGS

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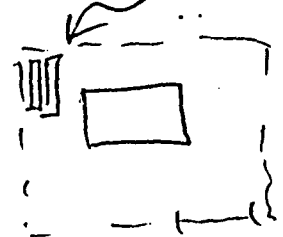
INSPECTION ITEM	CRITERIA	FINDING
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13. <u>Environmental monitoring program</u>	Lic Cond <u> </u>	<u>OK</u>
Implementation of program, scope and frequency as required. Records maintained, reviewed by management.		
NOTES & REMARKS: <u>None required</u>		

14. <u>Emergency preparedness</u>	Lic Cond <u> </u>	<u>OK</u>
Procedures available for incidents and accidents. Training for personnel; coordinator with supporting groups and agencies.		
NOTES & REMARKS: <u>Emergency squads have been trained to handle accidents concerning radioactive materials. Training done annually.</u>		

15. <u>Other license conditions</u>	Lic <u> </u>	<u> </u>
NOTES & REMARKS: <u> </u>		

16. <u>Confirmatory measurements</u>	<u> </u>	<u> </u>
Licensee's surveys verified on sampling basis.		
NOTES & REMARKS: <u>20.105, 20.201</u>		

17. <u>Independent inspection effort</u>	<u> </u>	<u>OK</u>
<p>max. 0.4 MR/hr. outside of fence.</p>  <p>Sealed Source Storage area. 8' fence with locked gate. Posted CRM</p>		
NOTES & REMARKS: <u> </u>		