

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.

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> <i>See opposite page</i> <u>OK</u></p>		
Authorized uses and quantities.	Lic Cond <u> </u>	<p>PAC 4-G, (for C-14)</p> <p>Calibrated by licensee every 6 months. Records kept <u>OK</u></p>
Restricted areas, posting requirements.	20.203	
Survey instruments & dosimeters; operable, properly calibrated.	Lic Cond <u> </u>	
<p>NOTES & REMARKS: <i>Inventory performed quarterly.</i></p>		
<p><i>C¹⁴ → 637.343 MCi on hand on 11/1/80.</i></p>		
<p><u>6. Receipt and transfer of materials</u> <u>OK</u></p>		
Procedures implemented, adequate.	20.205, 71.51	<p>Most material received from California BioNuclear</p>
Transfer of byproduct material.	30.41	
Labeling and packaging.	71.5, 49CFR 170-125	
Records of receipt, transfer, storage, survey, and monitoring	30.51	
<p>NOTES & REMARKS: <i>all material ordered thru 2 project scientists.</i></p>		
<p><i>All C¹⁴ packages smeared upon receipt by Rad-Safety Office. Records kept <u>OK</u></i></p>		
<p><u>7. Personnel protection - external</u> <u>OK</u></p>		
Personnel monitoring control; minimize exposures, control of accumulated dose.	20.101, 20.102, 20.202	
Surveys conducted, adequate.	20.201	
Records of monitoring, surveys, disposals.	20.401, Lic Cond <u> </u>	
Levels in unrestricted areas.	20.1, 20.105	
<p>NOTES & REMARKS: <i>No film badges required under this license.</i></p>		
<p><u>8. Personnel protection - internal</u> <u>OK</u></p>		
Airborne concentrations in restricted areas.	20.103	<p><i>Ni⁶³ sources leak - tested every 6 months.</i></p>
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>	
<p>NOTES & REMARKS: <i>Monthly wipe tests - 500 DPM/100cm² limit - records kept. ~20 wipes taken per lab.</i></p>		

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>
MRC-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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<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>	<p>Lic Cond <u> </u></p>	<p><u>OK</u></p>
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None required

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

<p>15. <u>Other license conditions</u></p> <p>NOTES & REMARKS:</p>	<p>Lic <u> </u></p>	<p><u> </u></p>
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<p>16. <u>Confirmatory measurements</u></p> <p>Licensee's surveys verified on sampling basis.</p> <p>NOTES & REMARKS:</p>	<p>20.105, 20.201</p>	<p><u> </u></p>
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<p>17. <u>Independent inspection effort</u></p> <p>max. 0.4 MR/hr. outside of fence.</p> <p>NOTES & REMARKS:</p>		<p>Sealed Source Storage area.</p> <p>8' fence with locked gate.</p> <p>Posted CRM</p> <p><u>OK</u></p>
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