

INSPECTION REPORT NO. 80-01

Page 1 of

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

Attached

Appendix A

Appendix B

Appendix C

Memo

Licensee contact: Fred Staccia Telephone no.

License no. 47-260-09 Last amendment and date: #11 10/20/78

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

Inspection date(s): 8/6/80 Type of inspection: Letter unannounced

SUMMARY OF FINDINGS AND ACTION.

~~20~~ Noncompliance, Clear 59: issued

Noncompliance, 59: issued

Noncompliance, Appendix A

Regional action No action

Action on previous noncompliance, Appendix B

Supplemental info, Appendix C

RECOMMENDATION

See basis in Appendix C or attached memo.

Change Category to: Change Priority to:

Next inspection date: 2/83

PERSONS CONTACTED

<u>B. Becker</u>	<u> </u>
<u>F. Staccia</u>	<u> </u>
<u>D. Allport</u>	<u> </u>
<u>J. Burbaker</u>	<u> </u>

Inspector: Robert G. Brown 8/12/80

Approved: J.H. Peltier 8/18/80

A-155

Plan approved: _____ - Date: _____

Licensee: Union Carbide

License no: 47-260-9

Inspection Items	Scheduled for Inspector	Post-Inspector Status	Module no.	TEE Time Info
Management meeting - Entrance and Exit Interviews <i>(REQUIRED)</i>	✓		92702E	30 min
Initial Management Meeting				
Program requirements, MC 2E <i>(REQUIRED)</i>	✓		77710B	1 1/2 hr.
Licensee Event Followup			92702E	
Followup on 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>(REQUIRED)</i>	✓		92706B	1 hr.
Inspector Dispatched to Site			92700E	
Followup on Significant Event Occurring During Inspection			92701E	

R.D. Stief - Director of Engineering

|
J.H. Brubaker - RPO

F.P. Straccia - Rad. Protection Engineer

D.G. Allpat - Rad. Prot. Tech.

W.K. Becher - Nuclear Applications Tech.

J.A. Boggess - " " "

M.L. Green - " " "

C.R. Landfried - Group leader

AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide Corp License no: 017-269-9 Agency no: 11

INSPECTION ITEMS	CRITERIA	FINDINGS
<p><u>1. Organization</u></p> <p>Management organization. Radiation protection organization.</p> <p>NOTES & REMARKS:</p>	<p>Lic Cond <u> </u></p> <p>See opposite page.</p>	<p><u>OK</u></p>
<p><u>2. Licensee internal audits</u></p> <p>Scope and frequency. Management controls.</p> <p>NOTES & REMARKS:</p>	<p>Lic Cond <u> </u></p> <p>Radiation Safety Comm. meets every 6 months - minutes recorded.</p>	<p><u>OK</u></p>
<p><u>3. Training and instructions to employees</u></p> <p>Training program, scope and frequency, retraining. Required tests administered; scores satisfactory. Instructions to workers.</p> <p>NOTES & REMARKS:</p>	<p>Lic C <u> </u></p> <p>Lic Cond <u> </u></p> <p>10.12</p> <p>All users have a number of years of training at various places. Union Carbide also has periodic rad. safety classes. See application.</p>	<p><u>OK</u></p>
<p><u>4. Radiation protection procedures</u></p> <p>Operating & emergency procedures implemented. Security.</p> <p>NOTES & REMARKS:</p>	<p>Lic Cond <u> </u></p> <p>20.207</p> <p>"Tech. Center Radiological Control Manual"</p>	<p><u>OK</u></p>

Union Carbide
plants { Seadrift Plant, Port La Vaca, TX
Notify states {
before sending {
sources { Hannville, La.
Ponce, P. R.

Ethylene Oxide reactors,
test for carbon build-up

AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide License no: 17-260-2 Agreement no: 11

INSPECTION ITEM	CRITERIA	FINDING
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5. Materials, facilities and instruments OK

- Authorized uses and quantities. Ltc Cond
- Restricted areas, posting requirements. 20.203
- Survey instruments & dosimeters; operable, properly calibrated. Ltc Cond

See opposite page for places of use.
use in 300 or lives a year

NOTES & REMARKS: Lea 2.39 Ci Au²⁴¹
Lea 1.93 Ci "
Lea 0.1 Ci "

6. Receipt and transfer of materials OK

- Procedures implemented, adequate. 20.205, 71.51
- Transfer of byproduct material. 30.41
- Labeling and packaging. 71.5, 49CFR 170-125
- Records of receipt, transfer, storage, survey, and monitoring. 30.51

NOTES & REMARKS: Receipt records on hand, Transfer records on hand, state notifications.

7. Personnel protection - external OK

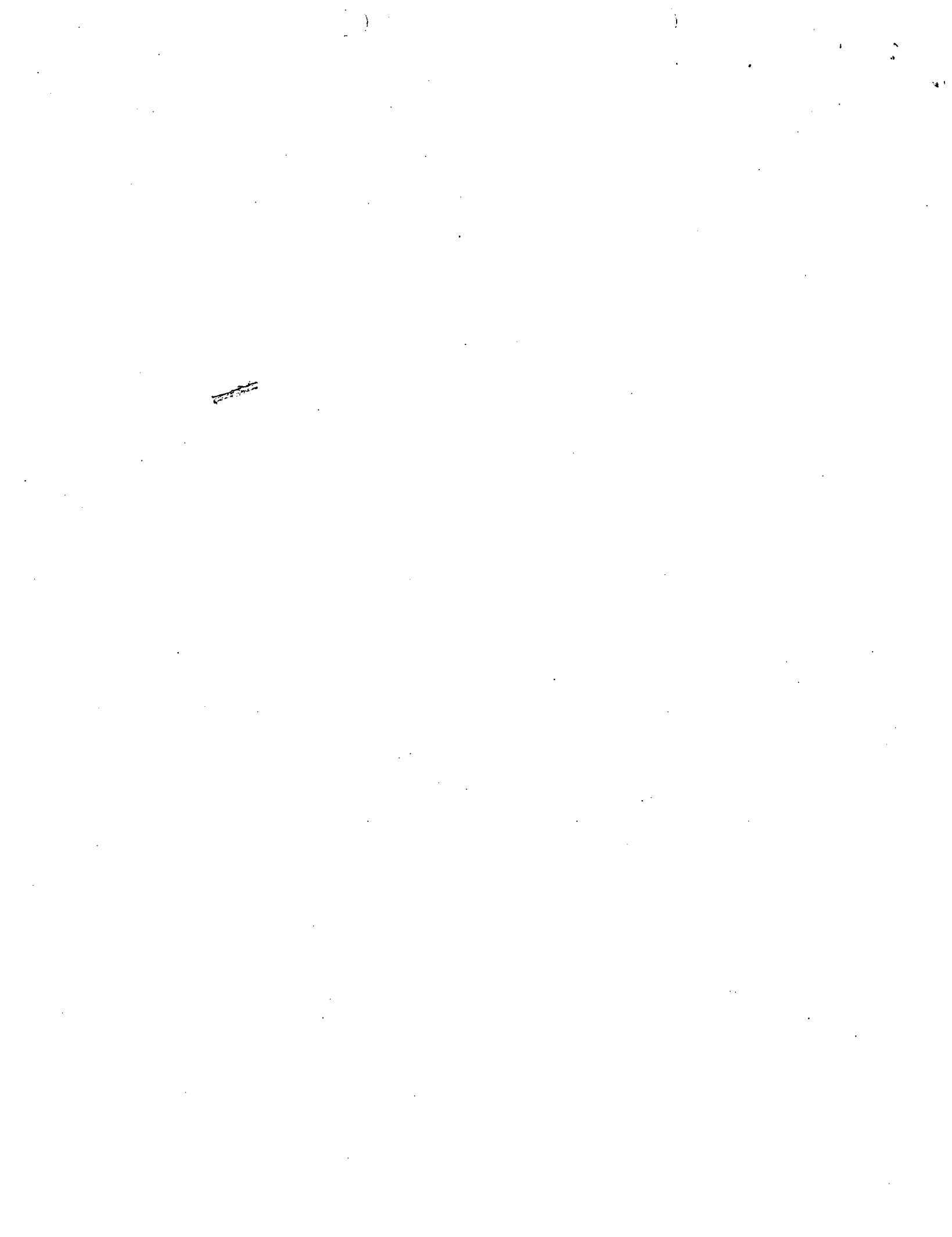
- Personnel monitoring control; minimize exposures, control of accumulated dose. 20.101, 20.102, 20.202
- Surveys conducted; adequate. 20.201
- Records of monitoring, surveys, disposals. 20.401, Ltc Cond
- Levels in unrestricted areas. 20.1, 20.105

1 on each badge → monthly past 1 1/2 yrs, no mention exposure, gamma; max. = 60 mrem.

8. Personnel protection - internal OK

- 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. Ltc Cond

Sources leak tested before being sent in job. When in Charleston, they're in storage. Records kept.



AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide License no: 47-260-9 Amendment no: 11

INSPECTION ITEM	CATEGORY	FINDING
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9. Effluent control, waste disposal

Release of effluents.	20.102	<u>OK</u>
Waste disposal.	20.301, 20.303, 20.304, 20.305	
Procedure, records.	20.401, Lic Cond	

NOTES & REMARKS:

No waste produced

10. Shipping, shipping incidents

Procedures for pickup, receipt, monitoring of receipts.	20.205(b) & (c)	<u>OK</u>
Transportation of licensed material.	71.5	
Incidents, reports, corrective actions.	49CFR 170-185	

NOTES & REMARKS:

No incidents during transportation.

11. Notifications and records

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

NOTES & REMARKS:

None required

12. Posting of notices

Part 20, license & documents, procedures, notice of violations.	19.11(a)	<u>OK</u>
SEC-2.	19.11(c)	

NOTES & REMARKS:

All areas properly posted.



AREAS INSPECTED AND FINDINGS

Licensee: Union Carbide License no: 417-260-9 Amendment no: 11

INSPECTION ITEM CRITERIA FINDING

13. Environmental monitoring program

Lic Cond _____

Implementation of program, scope and frequency as required.
Records maintained, reviewed by management.

NOTES & REMARKS:

14. Emergency preparedness

Lic Cond _____

Procedures available for incidents and accidents.
Training for personnel; coordination with supporting groups and agencies.

NOTES & REMARKS:

15. Other license conditions

Lic _____

NOTES & REMARKS:

16. Confirmatory measurements

Licensee's surveys verified on sampling basis.

20.105, 20.201

NOTES & REMARKS:

17. Independent inspection effort

OK

NOTES & REMARKS:

work. 35 members at surface of shipping container:
with Cubino PNR-4 (licences)
Also discussed DOT requirements.