USNRC, Region II Atlanta, GA

MATERIALS INSPECTION FIELD NOTES

	rage 01
INSPECTION REPORT NO. 85-01	Attached
Licensee: Union Carbide Assporation (Street: Kanawka Turnpike (City, State: South Charleston West Virginia () Appendix A) Appendix B) Appendix C) Memo
Licensee contact: Michael Z. Sneen, RSD Telephone N	o.:
License No.: 47-00260-02 Last amendment and da	te: <u>40 969/83</u>
Category:, and Priority:, as of la	st amendment.
Inspection date(s): 11-7-85 Type of inspec	tion:
SUMMARY OF FINDINGS AND ACTION	
No noncompliance, clear 591 issued () Noncompliance () Noncompliance, Appendix A* () Regional acti () Action on previous noncompliance, Appendix B**	591 issued onaction info, Appendix C***
RECOMMENDATIONS	
See Basis in Appendix C or attached memo.	•
() Change Category: () Change Priority	to:
() Next inspection date:	
PERSONS CONTACTED	·
Mike Dreen, RSD	· · ·
James Boggess, Rad, Safet Technician	<u> </u>
Inspector: Claude a. Rowe	11-12-85
Approved: Matalis	11/14/85
*Use current ROI 0915, Standard Forms **Use for actions not documented in a prior licensee respons ***Use for inspector evaluation or recommendations	e

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INSPECTION P	LAN AND	REPORT	NUMBER:	85-01

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Licensee: Union Carlide

License No.: 47-00260-02

Inspection Items	Scheduled for Inspection	Post-inspection status	Module No.	766 Time Info
Management meeting - Entrance and Exit Interviews (Required)			30703B	
Initial Management Meeting			1	
Program requirements, MC 28 (Required)			77710B	1
Licensee Event Followup			92700B	
Followup on Inspector-identified problems			 92701B 	
Followup on Noncompliance and Deviations			92703B	
IE Bulletin/Immediate Action Letter Followup			 92703B	
Followup on Head- quarters Requests			92704B	
Followup on Regional Requests			92705B	
Independent Inspection Effort (Required)			927068	
Inspector Dispatched to Site			93700B	
Followup on Significant Event Occurring During Inspection -		•	 93701B 	
Closeout Inspection and Survey		1	83890	
Inspection of I Transportation I Activities I	1		86740	•
Licensed Materials Programs			87100	
RadWaste Management/ Waste Generators			84850	

	ADELC INCOPPET	,	- Industri	al-Academic
	AREAS INSPECTE			115
Licensee: Union Carbide Lie	cense No.: <u>47-</u>	· Ame	nament No.:	40
INSPECTION ITEMS		CRITERIA		FINDING
1. Organization		Lic Cond _		OK
Management organization.				
Radiation protection organizat	ion. Mike	Dacen, RSO	only cha	nge
Radiation Safety Committee		last inapp		
Authorized Users ${\cal J}$. James	Boggess, La	1.5 of 12	L,
NOTES:				_
Done time experiment w	IR H-3 Comp	Lever,		
Only use now is seal	ed sources			
ong use now to	•			•
		•		•
		Lic Cond _	· · · · · · · · · · · · · · · · · · ·	
2. <u>Licensee internal audits</u>		Lic Cond		_ OX
2. <u>Licensee internal audits</u> Scope and frequency.		Lic Cond _		<u>0</u> X
2. <u>Licensee internal audits</u> Scope and frequency. Management controls.		Lic Cond _		_ O.X
2. <u>Licensee internal audits</u> Scope and frequency. Management controls. ALARA Audits	+inge	Lic Cond _		<u> 0X</u>
2. <u>Licensee internal audits</u> Scope and frequency. Management controls. ALARA Audits Radiation Safety Committee Mee Minutes Recorded				
2. Licensee internal audits Scope and frequency. Management controls. ALARA Audits Radiation Safety Committee Mee			1 Mine	

Industrial Hygiene will begin auditing Program in 1986

censee: Union Carbide	License No.:	47-00260-02	Amendment No	.: <u>40</u>
INSPECTION ITEMS		CRITERIA		FINDING
Training and instructions t	o employees	Lic Cond		OK
Training program, scope and retraining. Conducted by	frequency, who?	Lic Cond		
Required tests administered satisfactory.	; scores		·	
Instructions to workers.		§19.12 R.G. 8.1 R.G. 8.2 R.G. 8.2	.7 ·	
NOTES:	. ,	-n-t		
RSD. conducts trace	neng for a	ment in Jan	usig 1986	La
f.S.D. conducte teaining	g class, . Union &	nest in Jan Particle facilit	ties 36 hore	2 course
Radiation protection proced	g class, de Union G	nest in Jan Particle facilité	1	for course
f.S.D. conducte teaining	g class, de Union G	nest in Jan Particle facilité	1	2 course
Radiation protection proced	y class, Union Co ures dures implement	Lic Condented. Lic Cond	1	2 course
Radiation protection proced Operating & emergency proced Manufacturer's instructions Protective clothing used	ures dures implement for devices	Lic Condented. Lic Condented.	1	2 course
Radiation protection proced Operating & emergency proced Manufacturer's instructions Protective clothing used	ures dures implement for devices	Lic Condented. Lic Condented.	1	2 course
Radiation protection proced Operating & emergency proce Manufacturer's instructions	ures dures implement for devices More No	Lic Condented. Lic Condented.	1	2 course
Radiation protection proced Operating & emergency proce Manufacturer's instructions Protective clothing used Contamination control proce	ures dures implement for devices More No	Lic Condented. Lic Condented. Lic Condented. Lic Condented Lic Lic Condented Lic	1	2 course
Radiation protection proced Operating & emergency proced Manufacturer's instructions Protective clothing used Contamination control proced Access control "High Radiat Security NOTES.	ures dures implement for devices None No dures all ion Area"	Lic Condented. Lic Condented. Lic Condented. Lic Condented Lic Lic Condented Lic Lic Condented Lic Lic Condented Lic	1	2 course
Radiation protection proced Operating & emergency proced Manufacturer's instructions Protective clothing used Contamination control proced Access control "High Radiat	ures dures implement for devices More Mane Mane dures all ion Area"	Lic Condented. Lic Condented. Lic Condented Lic Lic Condented Lic Lic Condented Lic Lic Condented Lic	(c)	e course

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. INSPECTION REPORT NUMBER: (185-0)

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INSPECTION	REPORT	NUMBER:	85-01

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AREAS INSPECTED AND FINDINGS

INSPECTION ITEMS	CRITERIA	FINDING
Materials, facilities, and instruments	· · · · · · · · · · · · · · · · · · ·	OK
Authorized uses and quantities. $ u$	Lic Cond	
Restricted areas, posting requirements.	§20.203	
Survey instruments & dosimeters; operable properly calibrated.	e, Lic Cond	
Fixed monitors (operable and calibrated)	NA	
NOTES: dicensee rabilitates instru Current sealed sources in al	at the less	; / am-b
(9) Ni-63 dicerce also installa gaze	es at other Union a	drde famili
Receipt and transfer of materials		04
Procedures implemented, adequate.	§20.205, Lic Cond	<u> </u>
Transfer of byproduct material.	§30.41	
Labeling and packagining.	§71.5, (49CFR 170-	189)
Records of receipt, transfer, storage, survey, and monitoring	¶30.51, Lic Cond _	
Procurement procedures	Lic Cond	•
Inventory control	Lic Cond	•
NOTES: Computerized inventory average accountability.	6 smonths with he	ton.

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AREAS INSPECTED AND FINDINGS

Licensee: Mrion Carbide License No.: 3	47-00260-02 Amendment No.: 4	٥
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INSPECTION ITEMS	CRITERIA	FINDING
7. Personnel protection - external		OK
Personnel monitoring control; minimize exposures, control of accumulated dose	\$20.101, \$20.102, \$20.202, \$20.104	
Dosimetry supplier, frequency of exchange type dosimeters (W. B. or extremity)	e, Lic Cond_ lacendauer, monthly	
Avg. exposures (W.B. and extr.) 'm' in max exposures (W.B. and extr.) 70 mg	NB for year 1984	
Number of persons monitored ~ 20 m	nost for X-Ray work	
Surveys conducted semi-annual	§20.201, Lic Cond	
Frequency, results, records	§20.401	•
Levels in "Unrestricted Areas" D, /(.	§20.105	•
NOTES & REMARKS:		

8.	Personnel protection - internal	_ <i>n</i> /4_
	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
	Ventilation systems	Lic Cond
	Installation and Testing	
	Process or Engineering controls	§20.103(b)(1)
	NOTES:	

Only sealed sources in use

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	77710B - Industr	ial-Academic
AREA	S INSPECTED AND FINDINGS	
Licensee: Union Carbide License No	.: 47-00260-02 Amendment No.:	40
		:
INSPECTION ITEMS	CRITERIA	FINDING
9. <u>Leak tests</u>		DK
Performed by who?	Lic Cond	
Test frequency, Records of results ∠		
NOTES: Leake tests performed by	licenses on all source	ده دید
and the state of t		
use and in storage		•
10. Effluent control, waste disposal		DX
Release of effluents.	§20.106	•
•		
Procedures, monitoring of effluents	§20.401, Lic Cond	
Waste disposal	· · · · · · · · · · · · · · · · · · ·	
Transfer for final disposal	§20.311	
Release into sanitary sewage	§20.303	•
Disposal by incineration	§20.305, Lic Cond	<u> </u>
Disposal of specific waste	§20.306	•
Waste held for decay	Lic Cond	•
Labels obliterated		
Surveys conducted	820 202	•
Other specific disposal method(s)	§20.302 §30.51, §20.401(3)	
Records of disposal	. 330.31, 320.401(3)	

.NOTES:

Records of disposal

No waste disposal since previous inspection Some sealed source returned to manafactor for disposal

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AREAS INSPECTED AND FINDINGS

INSPECTION ITEMS	CRITERIA FINDI
. Shipping shipping incidents	_O.k
Procedures for pickup, receipt, monitoring packages.	of \$20.205(b) & (c) Lic Cond
Transporation of licensed material. $oldsymbol{\mathcal{U}}$	§71.5, Lic Cond
Incidents, reports, corrective actions.	49CFR 170-199
Compliance with DOT Regulations.	49CFR 170-199
QA Program (under General License)	§71.11
NOTES: Licensee has procedures for results are maintained,	receipt a monitoring, Revels.

Overexposures, excessive levels and 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:

No notifications required

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AREAS INSPECTED AND FINDINGS

· · ·	INSPECTION ITEMS	CRITERIA		FINDING
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13.	Posting of notices	• .		1) //
	Part 20, license and documents, procedures, notice of violations.	§19.11(a)		
	Form NRC-3.	§19.11(c)		
	NOTES:		· .	·
	Notices are posted			
			·	
14.	Environmental monitoring program	Lic Cond		NA
-	Implementation of program, scope and frequency as required.			
	Records maintained, reviewed by management.		•	
	Sealed sources only, Mone experiment with H-3	tou's perfor	med for	one
15.	Emergency preparedness	Lic Cond		OX
	Procedures available for incidents and accidents.			
	Training for personnel; coordination with supporting groups and agencies.			•
•	NOTES:	total file ,	lougal	a traini.

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	AREAS INSPECTED AND FINDINGS	
Licensee: Union Carbade Li	icense No.: 47-00260-02 Amendment No.:	110
<u> </u>		
INSPECTION ITEMS	CRITERIA	FINDIN
16. Other license conditions	Lic Cond	-8K
Reviewed with licensee repres	sentative	
NOTES: All license conde	tions were reviewed	
17. Confirmatory measurements	§20.105, §20.201	DX
Licensee's surveys verified o	on sampling	
NOTES: Survey of H.P. la Unestricted areas	l. and storage areas, < 0,5 mp/hr	
Meter used Calib. Date: 4-29-8	<u>'5</u>	
Serial #: <u>8206</u> Diagrams of areas surveyed	-	
18. Independent inspection effort	<u> </u>	01
Scope of program		:
NOTES: Dissussions of licen	ise regenierements	
Surveys (see al.	re)	

16.	TRANSPORTATION (10 CFR 71.5a and 49 CFR 171-178)	Yes N/A Vio
2.	Licensee makes shipments of RAM? Such shipments are: delivered to common carriers? transported in licensee's own vehicle as private carrier? both?	×)()()
	If above is yes, complete items below:	
t.	Are authorized packages used? [173.415-416] Package types used: DOT-7A, Type A [173.415(a) performance test records on file? DOT-55 [173.416(a)]	× () () ()
•	licensee aware of 6/30/85 cutoff on use: () Excepted, Instruments/articles [173.421-424] () LSA-strong tight [173.425(b)(1)] () NRC-Certified]173.416(b)] NRC COC's on file? [71.12(c)(1)]	
•	Registered with NRC as user? [71.12(c)(3) Documented NRC-Approved Q/A Program? [71.17(b)] NRC Q/A Approval No.: () Other:	
c.	Special Form Material performance test rectris available for each source design? [173.416(a)]	
Ċ.	Packages Labeled as required? [172.403(a)] () Excepted ()WI ()YII ()YIII Surveys performed to select correct label category and compliance with Rad. Limits? [173.474(i)]	
€.	Packages Marked as required, i.e., proper shipping name, ID No., Spec. No., COC No., etc. [172.300]	(x)
f.	Shipping papers prepared for each shipment? (172.200] Such papers contain required information? [172.203(d)]	₩ () ()
g. h.	For Licensee private carrier shipments: Vehicles placarded as required? [172.500] Cargo blocked, braced, tied down in vehicle? [172.842(d)] Any incidents reported to DOT? [171.15-16] Does Licensee ship any radwaste?	
	If yes, are shipments: () tendered to common carriers by licensee? () tendered through a Radwaste Broker? If yes, name of Broker Is licensee aware of 10 CFR 61 waste generator	()()()
. • ·	requirements? [10 CFR 61] Has licensee classified and characterized waste? [20.311(d)]	() () ()