

Inspection Report

SPECIAL LICENSED INSPECTION

1. Name and address of licensee  
Union Carbide Corporation  
Chemicals and Plastics Division  
Technical Center, P.O. Box 8361  
South Charleston, West Va. 25303
2. Date of inspection  
9/24/70
3. Type of inspection  
Initial
4. License number(s), docket number(s), number and date of last amendment for each license. Category and Priority of each license

47-00260-09      no amendments

E, ~~II~~ III

5. Date of previous inspection      none
6. Is "Company Confidential", or proprietary, or classified information contained in report?  
Yes \_\_\_\_\_ No
- (Specify paragraphs)

7. Scope of inspection

Covered all aspects of the licensee's program

8. Paul R. Quinn  
Inspector

10/23/70  
Date of Report

A.J. Littlewood  
Reviewer

10/23/70  
Date of Review

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Summary Personnel exposure to external radiation have been negligible. No exposure to concentrations of licensed materials have occurred. No effluents have been released to unrestricted areas. Radiation levels in unrestricted areas have not exceeded 10 CFR 20 limits. No high radiation levels have been encountered. No signs have been made.

Noncompliance and Safety Items

None

Unusual Occurrences

None

Status of Previously Reported Noncompliance or Safety Items

No previous inspection

Management Interview

Reviewed inspection results with H. R. Guest, Asst. Director Research + Development. Informed him that no items of noncompliance or safety items had been noted during the inspection.

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DETAILS

A. Participants

R.V. Sealey, Senior Engineer  
Fred Williams, RSD  
C.R. Sandfield, Nuclear Engineer

accompanied by Robert  
Morton, West Va. Bureau of  
Industrial Hygiene.

B. Scope of License Program

Will be performing 210 and American 251 in  
running tests on steel vessels to check on Carbon  
build up. program is just getting underway. most  
of the work will be field type work at various  
plants owned by Union Carbide.

C. Organization

S.H. Rose Jr, Director, Engineering  
F.A. Wooley, Assoc. " "  
R.V. Sealey, Senior Engineer  
Fred Williams, RSD

D. Administrative Control

used by one or more of authorized users - wear film badge  
containing beta-gamma & neutron films. Have written  
procedures covering use & control.

E. Use of Material

See ~~attached~~ inventory sheet in -7 folder  
Have 950 mCi of Am-Be source on hand. merely  
running tests at present time - program is just  
now getting underway - last leak test on 6/6/70  
no leakage above 0.001  $\mu$ ci. also have a 0.1  $\mu$ ci  
source on hand for calibration use.

F. Facilities

Use in Bldg 777 - also store in this location -  
Have shipping list from which is used for storage.

G. Equipment

Have numerous radiation detectors - beta-gamma, &  
neutron detector. Have low monitor which is on  
at all times in lab - Health physicist also has  
additional survey equipment.

H. Radiological Safety Procedures

Survey made during use & storage - Daily survey  
made when source is in use by the chemist  
user - More detailed survey made by RSO  
including the lead test. All personnel using the  
AM-22 source wear film badges containing beta-gamma  
and neutron film.

I. Personnel Monitoring and Exposure to External Radiation

nuclear change film badges worn by all personnel  
on a monthly service basis. All results kept on  
form AF-5's - Record showed highest exposure  
to date was 17 mrem for any one month period.

J. Exposure of Employees to Concentrations of Radioactive Materials

None

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K. Effluents to Unrestricted Areas

None

L. Disposals

no disposals to date

M. Miscellaneous Surveys, Evaluations, and Records

Have made runway ground Aug - see source + have conducted leak tests. Keep records of results on hand.

N. Special License Conditions

Lic bond 13 Leak tests being conducted as required

O. Posting and Labeling

as required by 10CFR 20.203

Form AEC-3's posted in accordance with 10CFR 20.206(c).

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P. Independent Measurements

*none*

Q. Operations Observed

*none*

R. Incidents, Overexposures, Theft or Loss, Equipment Malfunction

*none*

S. Other Information or Continuation from Previous Paragraphs

*none*

October 23, 1940

20 J. H. H. T. Switzerland  
Union Carbide Inspection  
Region II Division of Compliance

Subject: Inspection Opinion and Evaluation  
Union Carbide Corporation  
South Charleston, West Va.  
License Nos: 47-260-2, -6, and -9

Inspection of the activities under the three  
licenses revealed that good control and reasonable  
safety practices are being followed during the use of  
licensed materials. Personnel are well-trained  
in handling techniques. The licensee has a good  
check payroll staff of highly trained people  
who have up to 20 years experience in radiation  
safety. Licensed materials are adequately secured  
against unauthorized removal.

Paul R. Green  
Inspection Specialist

JH  
10/23/40