

Inventory Record Report for 47-00260-06

License Number: 47-00260-06 Docket Number: 30-06653 Part: 30 Job/Box: 1532 / 11 Accession Number:

Licensee: UNION CARBIDE CORP TECHNICAL CENTER

Address: KANAWHA TURNPIKE

City: S. CHARLESTON

State: WV

Zip Code: 25303

Site Information

Description of Site of Operation: TECHNICAL CENTER, KANAWHA TURNPIKE, SOUTH CHARLESON, WV

Primary State of Operation: WV NRC Region: II Facility: LABORATORY - RESEARCH - GENERAL

License Information (Termination/Expiration)

Original License Missing from File? No License Originally Issued on 3/11/59

License Expired? No Expiration Date:

License Terminated? Yes Termination Date: 8/2/84

Termination Amendment Issued? Yes NRC Letter Indicating Termination? No Licensee Requested Termination? No

Civil Defense License? No Import Only License? No Export Only License? No No Authorization to Possess OR For Distribution Only? No

License Application Information

Application with Info on Intended Use? No Waste Generation or Disposal? No Other Important Information? No

Supporting Information on Application:

License Transfer Information (Superseded/Agreement State)

Transferred to General License? No Transferred to Agreement State? No Agreement State Code:

Covered or Superseded? Yes Superseding License Number: 47-00260-02

Additional Notes on License Transfer:

License Closeout Information

Telephone Contact Regarding Closeout? No NRC Verification Letter? No NRC Closeout Inspection? No Noted Problems on Inspection Report? No

Closeout Survey Performed? No By NRC/AEC or Gov't Contractor? No By Licensee? No By Licensee Contractor? No

Licensed Materials Disposition Information

Certificate of Disposition or Status? No

Licensee Letter on Disposition? No Contents:

Other Document with Disposition Info? No Description:

No Possession Indicated? No Disposal by Decay Indicated? No Disposal by Incineration Indicated? No

Mat'l Transferred or Sold? No To: License Number:

Sent Offsite for Disposal? No To:

Other Means:

Disposal Information

Was 10 CFR 20 Disposal Mentioned? Yes Other Onsite Disposal (Burial, Sewer, Dumping) Mentioned? No

Comments/Other Information

Other Licenses Contained in the File:

General Comments:

Inventory Record Comments:

Additional sites of use: Union Carbide labs in any state; temporary job sites anywhere in US. Additional uses: in gas chromatographs; to detect variations in mass flow rate of textile fibers; instrument calibration; development of gas transfer and loading techniques and transfer to specially licensed persons. Previous address: 437 MacCorkle Ave, South Charleson, WV.

Reviewer: EBL

Listed On Form 35? Yes

Record Entered: 7/17/96

Record Last Updated: 8/9/96

A-217

**THIS SITE AND LICENSE WERE REMOVED FROM EVALUATION
REASON FOR REMOVAL: LICENSE TRANSFER**

INVENTORY SYSTEM REPORT

FIRST INVENTORY RECORD FOR LICENSE

Master identifier for license: 47-00260-06 153211

Docket Number : 30-06653

LISTED FILE LOCATION: JOB NUMBER: 1532

BOX NUMBER: 11

Licensee: UNION CARBIDE CORP TECHNICAL CENTER

Address: KANAWHA TURNPIKE WV

S. CHARLESTON State(adrs): WV Zip: 25303

Facility type: LABORATORY - RESEARCH - GENERAL

SITES: TECHNICAL CENTER ;

ADMINISTRATIVE INFORMATION REGARDING LICENSE

■ This license was listed as SUPERCEDED BY ANOTHER LICENSE
Contents of the new license field 47-00260-02

SITE INFORMATION IN INVENTORY RECORD

Principal state of operation: WEST VIRGINIA REGION II

Site info in inventory record:

TECHNICAL CENTER, KANAWHA TURNPIKE, SOUTH CHARLESON, WV

INFORMATION ON DISPOSITION OF LICENSED MATERIALS

Disposition information present: NO DISPOSITION INFORMATION GIVEN

CLOSEOUT INFORMATION IN INVENTORY RECORD

There was no Closeout information (surveys, cleanup, inspection reports, etc) in the file

APPLICATION INFORMATION IN INVENTORY RECORD

There was no application information recorded in the inventory record

ISSUANCE AND TERMINATION DATES

The listed date of issuance for this license is: 03/11/59

License listed as TERMINATED on 08/02/84

This license WAS listed on NRC'S form 35 listing for the box.

End of Inventory record for 1532/11

END OF INVENTORY SYSTEM REPORT

Materials AUTHORIZATIONS -- Materials With HALF-LIFE ABOVE 3 MONTHS

Material	Unit	Act./Amt	Slid/Loose	Spec Form	SLD Accted?	Matl.Score
H-3	CI	25.0	LOOSE	UNK/ANY	Not appl.	1.2
C-14	CI	2.0	LOOSE	UNK/ANY	Not appl.	2.9
Cl-36	CI	0.100	LOOSE	UNK/ANY	Not appl.	2.1
Ca-45	CI	0.100	LOOSE	UNK/ANY	Not appl.	0.0
Cs-137	CI	0.150	LOOSE	UNK/ANY	Not appl.	3.5
Ni-63	CI	0.250	LOOSE	UNK/ANY	Not appl.	1.2
Any Byproduct Mat	CI	2.0	LOOSE	UNK/ANY	Not appl.	97.5
Sr-90 (Strontium)	CI	0.010	SEALED	-NA-	DROPPED	0.400
Sr-90 (Strontium)	CI	0.010	SEALED	-NA-	DROPPED	0.400
Sr-90 (Strontium)	CI	0.010	SEALED	-NA-	DROPPED	0.400
Sr-90 (Strontium)	CI	0.020	SEALED	-NA-	DROPPED	0.600
Sr-90 (Strontium)	CI	0.020	SEALED	-NA-	DROPPED	0.600
Sr-90 (Strontium)	CI	0.020	SEALED	-NA-	DROPPED	0.600
Sr-90 (Strontium)	CI	0.020	SEALED	-NA-	DROPPED	0.600
Sr-90 (Strontium)	CI	0.500	SEALED	-NA-	DROPPED	2.7
Sr-90 (Strontium)	CI	0.00000030	SEALED	-NA-	DROPPED	0.0
Sr-90 (Strontium)	CI	0.00000030	SEALED	-NA-	DROPPED	0.0
Sr-90 (Strontium)	CI	0.020	SEALED	-NA-	DROPPED	0.600

>Entry of matls with half-life>3 months is required. Entry of short-lived matls elective

--- End of the Materials Possession Report ----

---The evaluator included the following memo for materials possession: *Other authorized short lived isotopes: P-32, S-35, I-131, Au-198, K-42, Kr-79, Xe-133, Cs-131, Tc-99m, Ar-37, Rb-86, & Kr-85.*

LOOSE MATERIAL (SITE) SCORING REPORT

Because there were LOOSE materials authorized, the report will include information available leading to the calculation of the FINAL SITE SCORE. The SITE EVALUATION routine BEGINS WITH THE LOOSE MATERIAL hazard score.

- It proceeds UNTIL
- the OVERALL site score becomes very low,
 - OR
 - the detailed evaluation is complete and all sites are assigned specific scores.

■ THERE WAS AN INITIAL SITE SCORE OF 108
 ■ THERE WAS A FINAL SITE SCORE OF 0.0

CHARACTERISTICS OF THE SITE: TECHNICAL CENTER
THERE WERE OPERATIONS CONDUCTED IN BUILDINGS
NO ACTUAL OUTDOOR OPERATIONS were noted
Possibly Significant Releases or disposal occurred ONSITE - OUTDOORS
NO use of transportation equipment at site was noted
NO use of machinery or equipment was noted
There was information regarding WASTE generation at site
NO information about MEANINGFUL ONSITE DISPOSAL at site was noted
NO information noted regarding CLEANUP OR DECOMMISSIONING

This site was NOT CLOSED OUT DURING THE PERIOD OF THE LICENSE.

Detailed information regarding site(s) was not required for this evaluation

SEALED SOURCES SCORING REPORT

Because there were SEALED SOURCES authorized, the report will include information available leading to the calculation of the FINAL SEALED SCORE. The SEALED SOURCE routine begins with the individual SEALED SOURCE hazard scores, and examines the disposition of each source (or source grouping) entered.

ONLY SOURCES OR SOURCE GROUPINGS NOT ACCOUNTED FOR AT LICENSE TERMINATION CONTRIBUTE TO THE FINAL SEALED SOURCE SCORE.

- -- FOR THIS LICENSE, AN INITIAL OVERALL SEALED SOURCE HAZARD SCORE OF 6.9
- -- together with a FINAL SEALED SOURCE SUMMARY SCORE of 3.5
- -- indicate that a detailed accounting for SEALED SOURCES was conducted.
- ■ THIS LICENSE DID RECEIVE A FINAL SEALED SOURCE SUMMARY HAZARD SCORE
- ■ SUFFICIENTLY HIGH TO FLAG THE LICENSE FOR FURTHER SEALED SOURCE REVIEW.

The INITIAL SEALED SOURCE SUMMARY HAZARD SCORE is: 6.9
The FINAL SEALED SOURCE SUMMARY SCORE is: 3.5

**THE SEALED SOURCE FINAL SUMMARY SCORE INDICATES SOME CURRENT HAZARD.
THERE IS A NEED TO RE-EXAMINE SEALED SOURCE ACCOUNTING.**

EVALUATION CONCLUSIONS SECTION

-- BASIC CONCLUSIONS ABOUT LICENSE and MATERIALS SCORING --

1. The use of tritium (H-3) under this license was judged to involve either spread within the facility, lack of containment, or some nonstandard environmental release. THE CONTAMINATION variable (flag) has been set to TRUE, and further questions will be asked regarding the contamination.

 2. Use of 'any byproduct material' on this license was for RESEARCH AND DEVELOPMENT ACTIVITIES. Must assume possible hazard.

 3. The evaluator included the following memo for materials possession: *Other authorized short lived isotopes: P-32, S-35, I-131, Au-198, K-42, Kr-79, Xe-133, Cs-131, Tc-99m, Ar-37, Rb-86, & Kr-85.*

 4. There was some evidence in the information that led the evaluator to believe there was onsite INCINERATION (if more than one site, then information not yet specific to site). This will be clarified and expanded in the subsequent evaluation.

 5. The loose material H-3 would have decayed significantly during the time between license termination and the present. The MATERIAL SCORE listed for this material does take decay into account, and the score is computed on the basis of the activity or amount of material presently remaining.

 6. The loose material Ca-45 would have decayed significantly during the time between license termination and the present. The MATERIAL SCORE listed for this material does take decay into account, and the score is computed on the basis of the activity or amount of material presently remaining.

 7. In the LOOSE materials authorizations the form of the material H-3 was specified as ANY, This is presumed to be loose material.(Alternatively, there were no specification of authorized form available). No change in score for H-3 was made on the basis of this specification.

 8. In the LOOSE materials authorizations the form of the material C-14 was specified as ANY, This is presumed to be loose material.(Alternatively, there were no specification of authorized form available). No change in score for C-14 was made on the basis of this specification.

 9. In the LOOSE materials authorizations the form of the material CL-36 was specified as ANY, This is presumed to be loose material.(Alternatively, there were no specification of authorized form available). No change in score for CL-36 was made on the basis of this specification.

 10. In the LOOSE materials authorizations the form of the material CA-45 was specified as ANY, This is presumed to be loose material.(Alternatively, there were no specification of authorized form available). No change in score for CA-45 was made on the basis of this specification.

 11. In the LOOSE materials authorizations the form of the material CS-137 was specified as ANY, This is presumed to be loose material.(Alternatively, there were no specification of authorized form available). No change in score for CS-137 was made on the basis of this specification.

 12. In the LOOSE materials authorizations the form of the material NI-63 was specified as ANY, This is presumed to be loose material.(Alternatively, there were no specification of authorized form available). No change in score for NI-63 was made on the basis of this specification.
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13. In the LOOSE materials authorizations the form of the material ANY BYPRODUCT MATL was specified as ANY, This is presumed to be loose material. (Alternatively, there were no specification of authorized form available). No change in score for ANY BYPRODUCT MATL was made on the basis of this specification.

14. This license had an initial site materials score above 100. However, according to the inventory information, it was classified as NOT HAVING MATERIAL POSSESSION. This means that the allowed or actual activities under the license did not involve actual USE of material. The evaluator was willing to state that there was a VERY HIGH likelihood that the activities under the license did NOT INCLUDE ACTUAL USE OF MATERIAL. For the following reason, the license has been removed from further consideration: Evaluator certified license superseded.

15. There was at least one sealed source authorized under this license that was not accounted for by the disposition information, or by license transfer.

NO EVALUATION CONCLUSIONS WERE RECORDED DURING REVIEW OF SITE TECHNICAL CENTER

EVALUATOR'S COMMENTS

EVALUATOR'S DESCRIPTION OF THE SITE OR SITES

Technical Center, Kanawha Turnpike, South Charleston, West Virginia.

Description of LICENSEE'S ACTIVITY

The Technical Center is located on several hundred acres of land on a mountain above the city of South Charleston, WV. The complex contains six major multi-story structures.

GENERAL COMMENTS ABOUT THIS LICENSE

- Licensee was authorized sealed sources on this license. Amendments 17 and 21 removed the sealed sources from the license. No explanation was found in the file. The sources may have been covered under the -02 license which the licensee characterized as their broad scope license for use of sealed sources.
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- All other sites and materials were assumed to have been covered by 47-00260-02 as indicated in the file.
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- The file did not contain any background information for the file (i.e. correspondence, applications). Inspection reports were found but did not provide enough information to allow a detailed evaluation.