

## MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with letter dated April 11, 1997	
1. Sun Company, Inc.		3. License number 35-01755-02 is amended in its entirety to read as follows:	
2. P.O. Box 2039 1700 S. Union Tulsa, Oklahoma 74102		4. Expiration date November 30, 2004	
		5. Docket or Reference No 030-05904	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Cesium-137	A. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license	A. See Condition 9.A.	
B. Americium-241	B. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license	B. See Condition 9.A.	

180281



OFFICIAL RECORD COPY

9706190176 970515  
PDR ADOCK 03005904  
C PDR

ML40

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

35-01755-02

Docket or Reference Number

030-05904

Amendment No. 21

CORRECTED COPY

9. Authorized use

A. and B. To be used, for evaluated and approved licensing purposes, in compatible Ohmart Corporation, and Industrial Dynamics Company, Ltd. fixed gauging devices and compatible TN Technologies, Inc. and Fisher Controls portable gauging devices that have been registered either with NRC under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with an NRC or Agreement State specific license authorizing distribution to persons specifically authorized by an NRC or Agreement State license to receive, possess, and use the devices.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 1700 South Union, Tulsa, Oklahoma.
11. A. Licensed material shall be used by, or under the supervision of, Thomas L. Mefford and Robert L. Martinez.  
B. The Radiation Safety Officer for this license is Robert L. Martinez.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
13. A. Sealed sources or detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.  
B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.  
C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source received from another person shall not be put into use until tested.  
D. Sealed sources need not be leak tested if:
  - (i) they contain only hydrogen-3; or
  - (ii) they contain only a radioactive gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

35-01755-02

Docket or Reference Number

030-05904

Amendment No. 21

CORRECTED COPY

- (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Radiation Safety and Safeguards. The report shall specify the source involved, the test results, and corrective action taken.
- F. The licensee is authorized to collect leak test samples for analysis by TN Technologies (formerly Texas Nuclear). Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than 6-month intervals or at such longer intervals as specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.
15. Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of devices containing sealed sources shall be performed by Robert L. Martinez, Thomas L. Mefford, or by persons specifically licensed by the Commission or an Agreement State to perform such services. Installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
16. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons authorized to perform such services by the Commission or an Agreement State.
17. The licensee shall operate each gauge within the manufacturer's specified temperature and/or environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

35-01755-02

Docket or Reference Number

030-05904

Amendment No. 21

CORRECTED COPY

18. The licensee shall assure that the shutter mechanism is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify as appropriate its "lock-out" procedures whenever a new gauge is obtained to incorporate the device manufacturer's recommendations.
19. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
20. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
21. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage, or when not under the direct surveillance of an authorized user.
22. Any cleaning, maintenance, or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.



MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number  
35-01755-02

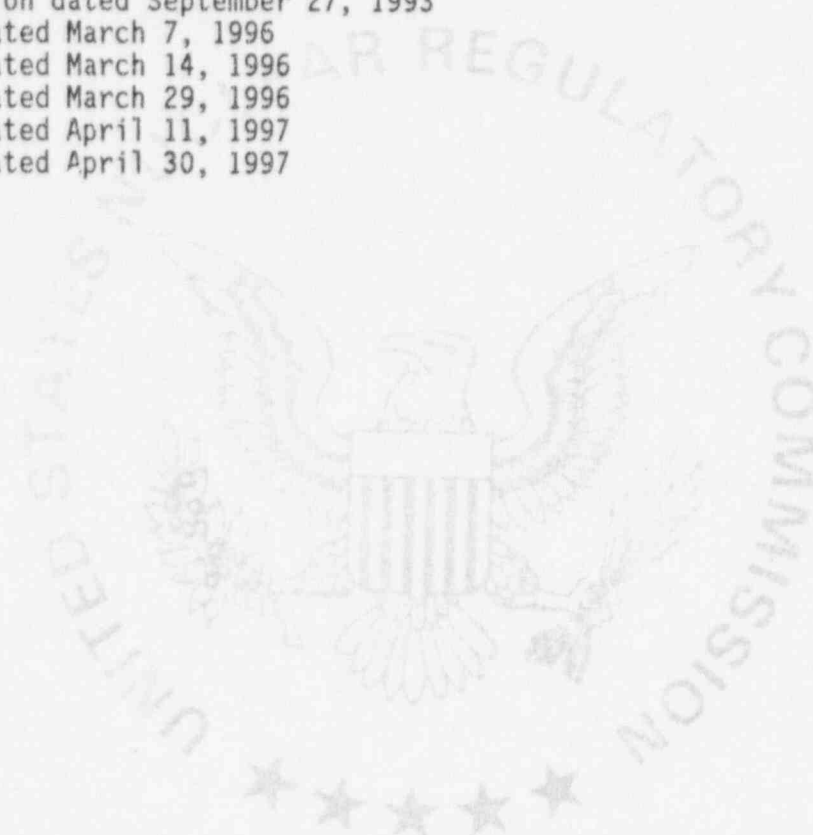
Docket or Reference Number  
030-05904

Amendment No. 21

CORRECTED COPY

23. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated September 27, 1993
- B. Letter dated March 7, 1996
- C. Letter dated March 14, 1996
- D. Letter dated March 29, 1996
- E. Letter dated April 11, 1997
- F. Letter dated April 30, 1997



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

MAY 15 1997  
Date \_\_\_\_\_

By Jacqueline D. Cook  
Jacqueline D. Cook  
Nuclear Materials Licensing Branch  
Region IV  
Arlington, Texas 76011



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

May 15, 1997

Sun Company, Inc.  
ATTN: Robert L. Martinez  
Radiation Safety Officer  
P.O. Box 2039  
1700 S. Union  
Tulsa, OK 74102

SUBJECT: LICENSE AMENDMENT - CORRECTED COPY

Enclosed is corrected copy to License No. 35-01755-02, Amendment No. 21, dated May 2, 1997, changing Item 9. You should review this document for correctness and completeness.

Because your specific license includes some generally licensed gauges, any labeling that indicates the device is being possessed or used under a general license must be removed or modified. The generally licensed device still needs to include labeling that indicates the model and serial number of the device, the isotope and activity of the source, the standard radiation trefoil symbol, and the words "CAUTION - RADIOACTIVE MATERIAL," as required by 10 CFR Part 20. In addition, Sun Company, Inc. must comply with all other specific license requirements as found in 10 CFR Parts 19, 20, 30, and 71 and the terms and conditions of the specific license, for all gauges received under a specific license.

License Condition 15 authorizes installation, initial survey, relocation or removal of devices. If the intent of this authorization is to include generally licensed devices, Sun Company, Inc. is responsible for determining compliance with the dose criteria in 10 CFR 32.51(a)(2)ii [that it is unlikely that any person will receive in 1 year a dose in excess of 10 percent of the annual limits specified in 10 CFR 20.1201(a)].

If you have questions concerning this action, please feel free to contact us at 817-860-8132.

Sincerely,

A handwritten signature in cursive script that reads "Jacqueline D. Cook".

Jacqueline D. Cook  
Health Physicist  
Nuclear Materials Licensing Branch

License: 35-01755-02  
Docket: 030-05904

Sun Company, Inc.

-2-

MAY 15 1997

DOCUMENT NAME: P:\MLCOVER\LETTER\SUNCOMP.CC

To receive a copy of this document, indicate in the box "C" - Copy without attachment/enclosure "E" - Copy with attachment/enclosure "N" - No Copy

RIV:NMLB	N						
JDCook	<i>JDCook</i>						
05/15/97							