

OFFICIAL RECORD COPY MATERIALS LICENSE

Amendment No. 21

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 I, Parts 30, 31, 32, 33, 34, 35, 36, 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 November 27, 1996	
1. Newport News Shipbuilding and Dry Dock Company		3. License Number	45-09428-03
2. Radiological Control Department 4101 Washington Avenue Newport News, Virginia 23607		is amended in its entirety to read as follows:	
		4. Expiration Date	February 28, 2004 (Extended)
		5. Docket or Reference No.	030-06586 (Supersedes SNM-602)
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. Cobalt 60	A. Sealed sources registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	A. Not to exceed 110 millicuries (4.07 GBq) per source	
B. Strontium 90	B. Sealed sources registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	B. Not to exceed 1 millicurie (37 MBq) per source	
C. Plutonium 238 (Note: this source also contains Pu-239, Pu-240, Pu-241, and Pu-242)	C. Sealed neutron sources registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	C. 2 sources not to exceed 3 curies (111 GBq) each	
D. Cesium 137	D. Any	D. 100 microcuries (3.7 MBq)	
E. Cobalt 60	E. Any	E. 500 microcuries (18.5 MBq)	
F. Europium 152	F. Any	F. 10 microcuries (370 kBq)	
G. Cobalt 60	G. Sealed source registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	G. Not to exceed 1 curie (37 GBq) per source	

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

45-09428-03

Docket or Reference Number

030-06586

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9. Authorized Use:

- A., B. and C. For calibration and testing of the licensee's radiation detection equipment and for calibration and testing of radiation detection equipment for customers in accordance with procedures submitted with letter dated February 17, 1994.
- B. Sealed internal check sources (not to exceed 1 microcurie each) in radiation detection equipment. Strontium 90 sealed source not to exceed 575 microcuries for calibration of a TLD reader system.
- D., E. and F. For preparation, testing and use of laboratory reference sources in accordance with procedures enclosed with letter dated June 16, 1993.
- G. For testing licensee and customer neutron instruments insensitivity to gamma radiation and performing calibration checks of licensee and customer pocket chamber dosimeters as described in the letters dated June 28, 1994, November 22, 1994, and February 27, 1996.

CONDITIONS

- 10. Licensed material may be used at the facilities of Newport News Shipbuilding and Dry Dock Company, Newport News, Virginia and licensed material in the form of sealed sources may also be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
- 11. The Radiation Safety Officer (RSO) for this license is C. T. Hill.
- 12. A. Licensed material shall be used by, or under the supervision of, C. T. Hill, (RSO), W. P. Bullock, M. S. Eshelman, M. P. Sites, A. C. Clendenin, M. W. Griffith, C. D. Truitt, J. L. Halstead, D. M. Krause, W. R. Mesiano, J. A. Gassler, or V. S. Eason; and
 - B. Excluding instrument check sources of less than 10 Microcuries each and notwithstanding the provisions of Condition No. 12.A, licensed materials at temporary job-sites shall be used by, or under the supervision, and in the physical presence of, C. T. Hill, (RSO), W. P. Bullock, M. S. Eshelman, M. P. Sites, A. C. Clendenin, M. W. Griffith, C. D. Truitt, J. L. Halstead, D. M. Krause, W. R. Mesiano, J. A. Gassler, or V. S. Eason.
- 13. Sealed sources containing licensed material shall not be opened by the licensee.
- 14. A. Sealed sources 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;

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(Continued)

CONDITIONS

14. B. 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 or detector cell received from another person shall not be put into use until tested;
- C. Sealed sources need not be leak tested if they contain not more than 100 microcuries of beta and/or gamma emitting material or 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination;
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source;
- 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 II, Division of Nuclear Materials Safety, Nuclear Materials Licensing/Inspection Branch, 101 Marietta Street, N.W., Suite 2900, Atlanta, Georgia 30323-0199. The report shall specify the source involved, the test results, and corrective action taken; and
- F. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
15. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
16. The licensee shall maintain records of information important to safe and effective decommissioning at the licensee's facilities located at the location specified in Condition 10 pursuant to the provisions of 10 CFR, Part 30.35(g) until this license is terminated by the Commission.
17. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
18. 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.

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(Continued)

CONDITIONS

19. 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 (letter dated June 29, 1993) with attached unsigned NRC FORM 313

B. Letters dated:

- (1) February 17, 1994 (FAX, containing information requested in NRC letter dated 2/9/94) and March 31, 1994 (request for clarification of Condition No. 12)
- (2) June 28, 1994 (add 1 curie source) and November 22, 1994 (ALARA evaluation)
- (3) February 27, 1996 (Change CO-60 calibration procedures and possession limits)
- (4) November 27, 1996 (Change instrument calibration frequency from 3 months to 6 months)

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

EARL G. WRIGHT

Date JAN 7 1997

By

Earl G. Wright

Region II, Division of Nuclear Materials Safety
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323-0199

N:\MLICENSE\45-09428.A21

12/16/96

TIME

~10:15

☒ A.M.
☐ P.M.

TELEPHONE OR VERBAL CONVERSATION RECORD

☐ INCOMING CALL

☒ OUTGOING CALL

☐ VISIT

PERSON CALLING

WADE T. LOO

OFFICE/ADDRESS

USNRC - RII ATLANTA, GA

PHONE NUMBER

EXTENSION

404-331-3932

PERSON CALLED

CURTIS HILL, RSO

OFFICE/ADDRESS

NEWPORT NEWS INVESTIGATING & ANALYSIS
NEWPORT NEWS, VA

PHONE NUMBER

EXTENSION

757-380-2369

CONVERSATION

SUBJECT

LIC. AMENDMENT REQUEST DATED 11/27/96

SUMMARY

- CALLED MR. HILL TO CLARIFY "ALL INSTRUMENTS" & NOT TO INCLUDE THE ONE'S USED UNDER RADIOGRAPHY LICENSE.

- NOT THERE, LEFT MESSAGE TO CALL ME BACK. (WTR)

- RETURNED CALL & LEFT MESSAGE (1/2/97) ON WTR'S MACHINE (WTR → OUT ON LEAVE)

RE

- CALLED BACK ON 1/7/97 (~8:40 AM) TO CLARIFY & MR. HILL STATED THAT THEY WERE TRYING TO GET THEIR CALIBRATION FREQUENTLY IN LINE WITH THE NAVY'S CYCLE, THEIR MAIN CUSTOMER. ALSO, THEIR INSTRUMENTS UNDER LICENSE ARE IN A SEPARATE POOL FROM OTHER INSTRUMENTS (i.e. - RADIOGRAPHY LICENSE) DUE TO FINANCIAL REASONS. NO ATTEMPT TO CHANGE SOMETHING ON ONE LICENSE & AFFECT OTHER ONE. (WTR)

☐ ADVISE ME OF ACTION TAKEN.

ACTION REQUESTED

INITIALS

DATE

ACTION TAKEN

INITIALS

DATE

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

: (FOR LFMS USE)
: INFORMATION FROM LTS
: -----
:
: Program Code: 03221
: Status Code: 0
: Fee Category: 3P
: Exp. Date: 20040228
: Fee Comments: 3P EFF 7/2/90 CAL
: Decom Fin Assur Req'd: N
:

1996 DEC -5 PM 4:02

LICENSE FEE TRANSMITTAL

A. REGION II

1. APPLICATION ATTACHED

Applicant/Licensee: NEWPORT NEWS SHIPBUILDING
Received Date: 961202
Docket No: 3006586
Control No.: 257299
License No.: 45-09428-03
Action Type: Amendment

2. FEE ATTACHED

Amount: 300.00
Check No.: 9251

3. COMMENTS

Signed diane heim
Date 12/3/96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /V/)

1. Fee Category and Amount: 3P \$300

2. Correct Fee Paid. Application may be processed for:

Amendment /V/
Renewal _____
License _____

3. OTHER _____

Signed Lita Messier
Date 12/6/96

Log	<u>Dec 2 II</u>
Remitter	
Check No.	<u>9251</u>
Amount	<u>\$300</u>
Fee Category	<u>3P</u>
Type of Fee	<u>Amnd</u>
Date Check Rec'd.	<u>12/6/96</u>
Date Completed	<u>12/6/96</u>
By:	<u>Rem</u>

TENNECO

R96-1061
November 27, 1996

**Newport News
Shipbuilding**

US Nuclear Regulatory Commission, Region II
Nuclear Materials Safety Section
Attn. Mr. Jay L. Henson
101 Marietta Street, Suite 2900
Atlanta, GA 30323

Subject: Amendment to Materials License 45-09428-03

References:

- (a) Letter to NRC, File no. R93-0781, dated June 29, 1993
- (b) Letter to NRC, File no. R93-740, dated June 16, 1993

Enclosure:

- (1) Check Number 9251 to U.S. Nuclear Regulatory Commission in the amount of \$300.00

Dear Sir:

NNS request an amendment to Materials License 45-09428-03 to remove the restriction "all instruments in use . . . at NNS" and decrease the frequency of calibrating instruments; to reduce the cost associated with calibrating radiation detection instrumentation. Operating experience at other facilities utilizing similar radiation detection instrumentation demonstrates that a six month interval between calibrations does not compromise the calibration of these instruments. NNS requests an amendment to the verbiage in Attachment 7 page 6, paragraph 17 of reference (a) and (b) as follows;

from: "All instruments in use (except Portal Monitors, Waste Curie Monitor, DRUM Counter, Laundry Monitor, and portable air samplers) at NNS are required to be calibrated at least every 90 days when in use and after each instrument repair. (Portal Monitor "Friskall" frisking booths, Waste Curie Monitor and portable air samplers are calibrated at least once every 6 months)."

to: "All radiation detection instruments used to monitor and maintain source materials under this license are required to be calibrated at least every 6 months when in use and after each instrument repair."

257299

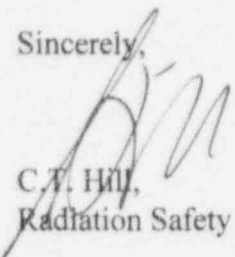
NNS provides calibration services for survey instruments used to control materials under Material License 45-09428-02. These instruments will continue to be calibrated by NNS every 90 days, when in use, in accordance with Material License 45-09428-02 and 10 CFR 34.24.

Enclosure (1) is forwarded as payment of the amendment fee.

Please note that the telephone area codes in our calling area are in the process of being changed from 804 to 757. Currently both area codes work in our area. The 804 area code is scheduled to be discontinued in February 1997.

If you have any question regarding this letter, please feel free to call me at (757) 380-2369.

Sincerely,


C.T. Hill,
Radiation Safety Officer

Copies:

- 1 - Mr. C.T. Hill
- 1 - Mr. C.E. Snyder -- for information
- 1 - Mr. W.P. Bullock
- 1 - Mr. J.E. Olmsted
- 1 - File