

1. NAME OF LICENSEE (Person or firm proposing to conduct the activities described below)
 Northrop Grumman Mission Systems I&TS Division

INITIAL REVISION CLARIFICATION

3. ADDRESS OF LICENSEE (Mailing address or other location where licensee may be located)
 100 Sun Avenue NE
 Suite 300
 Albuquerque, NM 87109

4. LICENSEE CONTACT AND TITLE
 Dr. Christopher B. Wallace
 Technical Fellow and Associate Chief Scientist

5. TELEPHONE NUMBER (Include Area Code)
 (505) 998-8182

6. FACSIMILE NUMBER (Include Area Code)
 (505) 998-8112

7. ACTIVITIES TO BE CONDUCTED UNDER THE GENERAL LICENSE GIVEN IN 10 CFR 150.20

WELL LOGGING LEAK TESTING AND/OR CALIBRATIONS TELETHERAPY/IRRADIATOR SERVICE

PORTABLE GAUGES OTHER (Specify) ⇒ Additional R&D for Defense Threat Reduction Agency

RADIOGRAPHY ⇒ REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS)

8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE
 Defense Threat Reduction Agency
 CSNP
 6801 Telegraph Road
 Alexandria, VA 22310-3398

9. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION (Street and Number or other location. Give as complete an address or directions as possible.)
 Defense Threat Reduction Agency
 TOSI Site
 Kirtland AFB, NM

10. CLIENT TELEPHONE NUMBER (Include Area Code)
 (703) 325-7758

11. WORK LOCATION TELEPHONE NUMBER (Include Area Code)
 (505) 720-3555

*Excluding Weekends
 Per Cover sheet
 w/ C. Wallace
 3/5/04 JW*

12. DATES SCHEDULED		13. NUMBER OF WORK DAYS	14. ADD	15. DELETE	16. LOCATION REFERENCE NUMBER
FROM	TO				NUMBER TO BE ASSIGNED BY NRC
03/08/2004	09/08/2004	127			# 529

LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 9-16 ABOVE.

17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED (Include description of type and quantity of radioactive material, sealed sources, or devices to be used.)
 Sealed Source - Hydrogen 3 adsorbed in metal target (2 Ci)
 EMR Model 761 Neutron generator tube, Thermo MF Physics Corporation

18. AGREEMENT STATE SPECIFIC LICENSE WHICH AUTHORIZES THE UNDERSIGNED TO CONDUCT ACTIVITIES WHICH ARE THE SAME, EXCEPT FOR LOCATION OF USE, AS SPECIFIED IN ITEM 9. ABOVE. (Four copies of the specific license must accompany the initial NRC Form 241.)

LICENSE NUMBER: RD395-01 STATE: NM EXPIRATION DATE: December 31, 2007

19. CERTIFICATION (MUST BE COMPLETED BY APPLICANT)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT:

- a. All information in this report is true and complete.
- b. I have read and understand the provision of the general license 10 CFR 150.20 reprinted on the instructions of this form; and I understand that I am required to comply with these provisions as to all byproduct, source, or special nuclear material which I possess and use in non-Agreement States or offshore waters under the general license for which this report is filed with the U.S. Nuclear Regulatory Commission.
- c. I understand that activities, including storage, conducted in non-Agreement States under general license 10 CFR 150.20 are limited to a total of 180 days in calendar year. With the exception of work conducted in off-shore waters, which is authorized for an unlimited period of time in the calendar year.
- d. I understand that I may be inspected by NRC at the above listed work site locations and at the Licensee home office address for activities performed in non-Agreement States or offshore waters.
- e. I understand that conduct of any activities not described above, including conduct of activities on dates or locations different from those described above or without NRC authorization, may subject me to enforcement action, including civil or criminal penalties.

CERTIFYING OFFICER - RSO or Management Representative (Name and Title) SIGNATURE DATE

Dr. Christopher B. Wallace, Technical Fellow *Ch B. Wallace* 2/26/2004

WARNING: False statements in this certificate may be subject to civil and/or criminal penalties. NRC regulations require that submissions to the NRC be complete and accurate in all material respects. 18 U.S.C. Section 1001 makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

FOR NRC USE ONLY REVIEWING OFFICIAL (Typed/Printed Name and Title) SIGNATURE DATE TOTAL USAGE -- DAYS TO DATE

REVIEWING OFFICIAL: **Judith Walker** *J Walker* 3/5/04



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-4005

March 5, 2004

Northrop Grumman Mission Systems I&TS Division
ATTN: Christopher B. Wallace
Associate Chief Scientist
100 Sun Avenue Northeast, Suite 300
Albuquerque, New Mexico 87109

SUBJECT: INITIAL NRC FORM 241 FOR CALENDAR YEAR 2004

Mr. Wallace:

This acknowledges receipt of your initial NRC Form 241 dated February 26, 2004, and the \$1500 application fee, submitted to the NRC Region IV office to report proposed activities in NRC jurisdiction under the authority of the general license pursuant to 10 CFR 150.20.

Your Agreement State license is recognized as valid for the proposed use of licensed material at the locations listed on your NRC Form 241, and attachments, if any. Please be aware that working under reciprocity in NRC jurisdiction requires you to comply with NRC regulations, as described in 10 CFR 150.20. In part, the regulation in this section specifies that the general licensee shall not engage in those activities authorized under 10 CFR 150.20, for more than 180 days in any calendar year, except for those concerning activities in offshore waters, which are authorized for an unlimited period of time.

The calendar year 2004 RTS Reference number for your proposed location of work are is follows. Reference numbers for other locations will be assigned when the respective clarifications are received in this office. Once assigned, please refer to the appropriate RTS Reference number in any future communications.

RTS Reference Number	Proposed Location of Work
529	Defense Threat Reduction Agency, TOSI Site Kirtland AFB, New Mexico

You must submit an NRC Form 241 clarification report when you propose to add locations of work, add or delete dates of work, change work site contacts, use different radioactive materials, or elect to perform additional work activities within NRC jurisdiction, and subsequently provide those changes to this office. Please note, all notifications or clarifications of work activities or changes to the information submitted on the initial NRC Form 241 must include as a minimum, the following information: licensee name, agreement state license number, location of work, dates of work, and the signature of the RSO or designee.

Information submitted on NRC Form 241 must be specific regarding the location and dates of use. The regulations require you to notify this office three days prior to any proposed generally licensed activity. However, given the nature of your licensed activity, the time requirement specified in 10 CFR 150.20(b)(1) for filing an NRC Form 241 clarification report and any subsequent notifications have been waived, provided that you:

- A. Inform this office by telephone or facsimile of work activities or changes to the information submitted on the initial NRC Form 241, and
- B. Receive oral or written authorization for the activities from this office, and
- C. Submit written confirmation within 3 days after the notification.

Enclosed is an NRC signature copy of your NRC Form 241. We appreciate your cooperation. If you have questions concerning this letter or other aspects of working in NRC jurisdiction under reciprocity, please contact me at 817-860-8299.

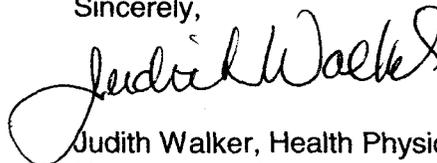
Please use one of the following FAX numbers for submitting NRC Form 241 clarifications.

817-860-8263

817-860-8188

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response, if you provide one, will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,



Judith Walker, Health Physicist
Nuclear Materials Licensing Branch

Enclosure: As stated

cc w/copy of NRC Form 241 and Materials License:
New Mexico Radiation Control Program Director



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-4005

March 5, 2004

MEMORANDUM TO: Brenda Brown
License Fee and Accounts Receivable Branch (T9 E10)

FROM: Judith Walker, Health Physicist
Nuclear Materials Licensing Branch, Region IV

SUBJECT: FEE TRANSMITTAL

A. Region IV

1. NRC FORM 241 ATTACHED:

Applicant/Licensee: Northrop Grumman Mission Systems I&TS Division
NRC Form 241 Dated: February 26, 2004
Agreement State License: RD395-02
Program Code(s): 3620

2. FEE ATTACHED:

Amount: \$1500 American Express

3. COMMENTS:

B. LICENSE FEE AND ACCOUNTS RECEIVABLE BRANCH

1. Fee Category and Amount: _____

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

General License _____

Signed _____ Date: _____



Radiation Control Bureau
State of New Mexico
Environment Department
1190 St. Francis Drive, 87505-4173
PO Box 26110



Santa Fe, New Mexico 87502-6110
Phone (505) 476-3236 Fax (505) 476-3232
<http://www.nmenv.state.nm.us/nmrcb/home.html>



RADIOACTIVE MATERIAL LICENSE

Pursuant to Sections 74-3-1 through 74-3-16 NMSA 1978, and 20 NMAC 3.1, Subpart 3, and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated in this license; and to use said radioactive material(s) for the purpose(s) and at the place(s) designated herein. This license is subject to all applicable rules, regulations, and orders now or hereafter in effect, of the New Mexico Environment Department and to any conditions specified herein.

1. License Name Northrop Grumman Mission Systems	2. License Number RD395-02
3a. Address 100 Sun Avenue, NE, Ste. 300 Albuquerque, NM 87109	3b. Actual Location of Operation Northrop Grumman Mission Systems, 2460 Alamo SE, Albuquerque, N. M., 87106, and temporary job sites throughout New Mexico not under exclusive Federal jurisdiction.
4. Telephone (505) 998-8182	5. Expiration Date December 31, 2007

Date: July 9, 2003

For the New Mexico Environment Department


 William M. Floyd, Manager (mr)
 Radiation Control Bureau

Attachments:

- 1) Radioactive Material Specifications
- 2) Authorized Use(s) and License Conditions

RD395-02

ATTACHMENT 1 - RADIOACTIVE MATERIAL SPECIFICATIONS



LICENSE NUMBER RD395-02

6. RADIOACTIVE MATERIALS
(element and mass number)

7. FORM
(chemical or physical)

8. MAXIMUM QUANTITY
(Licensee may possess at
any one time)

A. Hydrogen 3.

A. Adsorbed in metal target
(EMR Model 761 Neutron
generator tubes, MF
Physics Corporation).

A. Not to exceed 2 curies total.

END OF THIS SECTION



ATTACHMENT 2 - AUTHORIZED USE(S) AND LICENSE CONDITIONS



LICENSE NUMBER RD395-02

9. Authorized Use:

A. For use in EMR Photoelectronic neutron generator Model 761 and MF Physics Corporation Model A-325 LL Neutron Generator Acceleratory Head. For Research and Development as part of the defense demonstration program for proof of concept active interrogation system.

10. The licensee shall comply with the provisions of 20.3.3, 20.3.4, and 20.3.10 NMAC.

11. The Secretary of the Department or the Secretary's authorized representatives shall be allowed to enter the premises and inspect the radiation related activities at all reasonable times. Failure of the licensee to admit the Secretary or the Secretary's authorized representatives shall constitute grounds for issuance of an immediate cease and desist order.

12. Thirty (30) days before vacating or relinquishing possession or control of the premises, the licensee shall notify the Department in writing of the intent to vacate and the address of relocation.

13. The licensee shall, at intervals not to exceed 12 months, review the radiation protection program content and implementation. Records of the review shall be maintained for inspection by the Department.

14. Licensed material shall be used by Christopher Wallace, Ph.D., Radiation Safety Officer, or those individuals within the company who have been specifically trained and are listed in the authorized users of radioactive sources and accelerators training record. Names and evidence of training of individual users shall be kept on file for inspection by the Department.

15. All incidents shall be reported to the Department in accordance with 20.3.4.452 NMAC.

16. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee.

17. Maintenance, repair, replacement and disposal of foils, or dismantling of shielding shall be performed only by the manufacturer or by other persons specifically authorized by the Department to perform such services.

18. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. The records of the inventories shall be maintained for three years from the date of the inventory for inspection by the Department and shall include the quantities and kinds of radioactive material, location of sealed sources, the date of the inventory, the name of the individual making the inventory, the manufacturer, the model number, and the serial number.

19. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, Type A Packaging of Radioactive Material for Transportation Under Certain Conditions. A properly marked shipping container of the type supplied with the device shall be used whenever the device is shipped by



ATTACHMENT 2 - AUTHORIZED USE(S) AND LICENSE CONDITIONS



LICENSE NUMBER RD395-02

commercial carrier.

20. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6., 7., and 8., of the license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The most recent statements, representations, and procedures shall govern if they conflict with previously submitted documents. The New Mexico Radiation Protection Regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- * Application with attachments dated November 22, 2002, signed by Christopher B. Wallace, Ph.D., and March R. Fischer, UNWD Program Manager;
- * Application with attachments dated March 4, 2003, signed by Christopher B. Wallace and Mark R. Fischer, UNWD Program Manager;
- * Telefax dated June 27, 2003, signed by Christopher B. Wallace, Ph.D., Mission Systems Technical Fellow and Associate Chief Scientist.

