

ISR & Space Systems

UTC Aerospace Systems
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Christopher Ullathorne
Director, GM, ISR & Space Systems



UTC Aerospace Systems

Br. 2

May 30, 2018

Licensing Assistance Team
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region I
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713

REC RG 1 06 06 18 AM 09:55

RE: Amendments to NRC License Number 06-20581-01 03019941
Goodrich Corporation, Danbury, CT

Dear NRC Representative:

We are requesting amendments to our NRC License regarding the authorized users and the Radiation Safety Officer (RSO). Specifically, the requested amendments are detailed below.

Condition # 11 – Licensed material shall be used by or under the supervision of Ryan Hannan.

Condition # 12 – The Radiation Safety Officer for this license is Ryan Hannan.

Copies of the RSO qualifications are enclosed along with a completed NRC Form 313.

If you have any questions regarding this report, please contact John Baron, Operations Manager, at 203-797-5375.

Very truly yours,
GOODRICH CORPORATION

Christopher Ullathorne
Director, GM, ISR & SPACE SYSTEMS

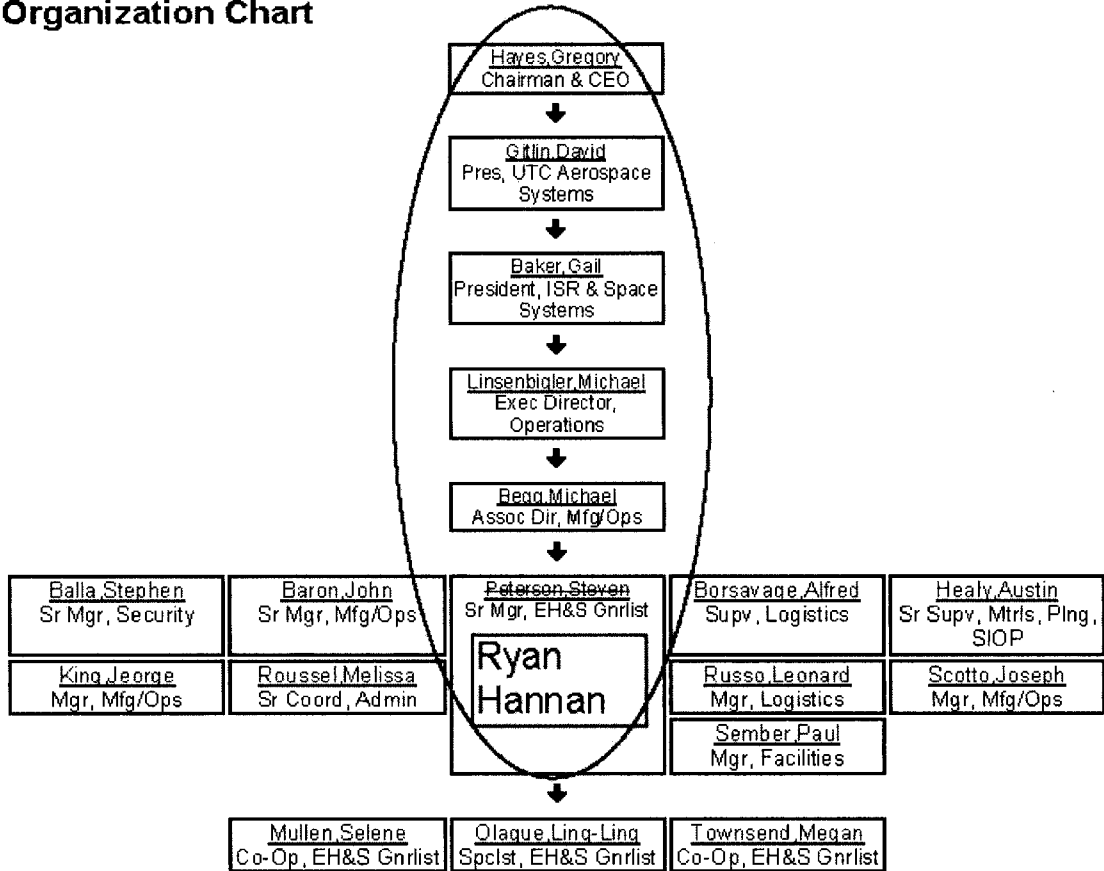
Enclosures

609026
NMSS/RGN1 MATERIALS-C02

**NRC License Number 06-20581-01
 Goodrich Corporation
 100 Wooster Heights Road
 Danbury, CT 06810**

Radiation Safety Office Qualifications for Ryan Hannan

< **Organization Chart**



Education:

- Bachelor: Sustainable Product Design & Innovation
- Masters of Science: Safety & Occupational Health

Radiation Safety Program Experience:

- Managed Radiation Safety Program at the United Technologies Research Center (UTRC) for 2.5 years
- UTRC only possess and uses devices covered under a general license or other exemptions listed in Title 10 of the Code of Federal Regulations.
- Responsible for:
 - Semi-annual leak tests
 - Quarterly dosimetry and exposure reports
 - Procurement/ Disposal/ Inventory
 - Record maintenance and retention
 - Program maintenance and retention
 - 600 Employee Site
 - 15 Analytic Equipment for examination
 - 5 Sealed Sources
 - Employee training
 - Annual registration of Radioactive Material and Industrial X-Ray Devices with the CT Department of Energy and Environmental Protection

INSTRUCTIONS: SEE THE CURRENT VOLUMES OF THE NUREG-1686 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>. SEND TWO COPIES OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

MATERIALS SAFETY LICENSING BRANCH
 DIVISION OF MATERIAL SAFETY, STATE, TRIBAL AND RULEMAKING PROGRAMS
 OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
 U.S. NUCLEAR REGULATORY COMMISSION
 WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,

SEND APPLICATIONS TO:
 LICENSING ASSISTANCE TEAM
 DIVISION OF NUCLEAR MATERIALS SAFETY
 U.S. NUCLEAR REGULATORY COMMISSION, REGION I
 2100 RENAISSANCE BOULEVARD, SUITE 100
 KING OF PRUSSIA, PA 19406-2713

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH
 U.S. NUCLEAR REGULATORY COMMISSION, REGION III
 2443 WARRENVILLE ROAD, SUITE 210
 LISLE, IL 60532-4352

IF YOU ARE LOCATED IN:

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING,

SEND APPLICATIONS TO:
 NUCLEAR MATERIALS LICENSING BRANCH
 U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
 1600 E. LAMAR BOULEVARD
 ARLINGTON, TX 76011-4511

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER 06-20581-01

C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (include zip code)

Goodrich Corporation
 100 Wooster Heights Road
 Danbury, Connecticut 06810

3. ADDRESS WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED

Goodrich Corporation
 100 Wooster Heights Road
 Danbury, Connecticut 06810

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

John Baron

BUSINESS TELEPHONE NUMBER	BUSINESS CELLULAR TELEPHONE NUMBER
203-797-5375	203-917-0823

BUSINESS E-MAIL ADDRESS
 john.baron@utas.utc.com

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

10. RADIATION SAFETY PROGRAM.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

9. FACILITIES AND EQUIPMENT.

11. WASTE MANAGEMENT.

12. LICENSE FEES (Fees required only for new applications, with few exceptions*)
 (See 10 CFR 170 and Section 170.31)
 *Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.


FEE CATEGORY	AMOUNT ENCLOSED \$
	0.00

PER THE DEBT COLLECTION IMPROVEMENT ACT OF 1996 (PUBLIC LAW 104-134), YOU ARE REQUIRED TO PROVIDE YOUR TAXPAYER IDENTIFICATION NUMBER. PROVIDE THIS INFORMATION BY COMPLETING NRC FORM 631: <https://www.nrc.gov/reading-rm/doc-collections/forms/nrc631info.html>.

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 37, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 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.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE	SIGNATURE	DATE
Christopher Ullathorne, Director, GM		5/31/2018

FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

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 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.

<p style="text-align: center;">Licensee</p> <p>1. Goodrich Corporation</p> <p>2. 100 Wooster Heights Road Danbury, Connecticut 06810</p>	<p>In accordance with the application dated August 12, 2014,</p> <p>3. License number 06-20581-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date January 31, 2025</p> <hr/> <p>5. Docket No. 03019941 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cadmium 109</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed Sources (Isotope Products Laboratories Model XFB-5 or PHI-109-10)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 10 millicuries per source; not to exceed 15 millicuries total</p>
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9. Authorized use:
- A. For measurement of charge transfer efficiency in a charge coupled device (CCD) for testing subassemblies for products manufactured for customers.

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at 100 Wooster Heights Road, Danbury, Connecticut.
11. Licensed material shall be used by, or under the supervision of, Steven W. Peterson or, individuals who have received the training described in the letter dated November 21, 2014 and have been designated, in writing, by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
12. The Radiation Safety Officer for this license is Steven W. Peterson.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
06-20581-01Docket or Reference Number
03019941

Amendment No. 12

13. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
14. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- C. Sealed sources need not be tested if they 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. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- E. Tests for leakage and/or contamination, limited to leak test sample collection, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
15. Sealed sources containing licensed material shall not be opened or sources removed or detached from source rods or gauges by the licensee.
16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
06-20581-01

Docket or Reference Number
03019941

Amendment No. 12

17. 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 U.S. 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. Letter dated November 21, 2014 with attachments (ML14343A653)



For the U.S. Nuclear Regulatory Commission

Date January 6, 2015

By _____

Original signed by Kathy Modes

Kathy Modes
Decommissioning and Technical Support
Division of Nuclear Materials Safety
Region I

King of Prussia, Pennsylvania 19406

Tuesday, January 6, 2015 08:59:29



ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE

Name and Address of Applicant and/or Licensee Andreas L. Nonnenmacher Vice President and General Manager Goodrich Corporation 100 Wooster Heights Road Danbury, Connecticut 06810	Date June 12, 2018
	License Number(s) 06-20581-01
	Mail Control Number(s) 609026
	Licensing and/or Technical Reviewer or Branch Commercial, Industrial, R&D, and Academic Branch

This is to acknowledge receipt of your: Letter and/or Application Dated: May 30, 2018

The initial processing, which included an administrative review, has been performed.

Amendment Termination New License Renewal

There were no administrative omissions identified during our initial review.

This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

Your application for a new NRC license did not include your taxpayer identification number. Please complete and submit NRC Form 531, Request for Taxpayer Identification Number, located at the following link: <http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>
Follow the instructions on the form for submission.

The following administrative omissions have been identified:

Your application has been assigned the above listed MAIL CONTROL NUMBER. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region I
U. S. Nuclear Regulatory Commission
Division of Nuclear Materials Safety
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713
(610) 337-5260, (610) 337-5313,
(610) 337-5398, (610) 337-5239