

**Northrop Grumman Corporation
Defense Systems Sector
Alliant Techsystems Operations LLC
Allegany Ballistics Laboratory
210 State Route 956
Rocket Center WV 26726**

May 17, 2020

U.S. Nuclear Regulatory Commission, Region I
Commercial, Industrial, R&D, and Academic Branch
Division of Nuclear Materials Safety
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713

Attention: License Assistance Team, Region I

Request for Amendment to Materials License Number SUB-1440 Docket No. 040-08850

This letter is a request to amend the subject materials license. The following modifications should be made to the license as a result of the following changes: **Addition of new 30/50 mm DU projectile assembly operation in building 376.**

1. Personnel Changes

Item 11 of SUB-1440 lists the users and supervisors of the licensed material. The group should be updated to add the following supervisors:

- Rob Thomassy, Jim Denice, Seth Whitacre, Seth Logsdon, Jonathan Strickland, Jeff Spencer, Chris Miltenberger, Scotty White.

As required in Regulatory Guide 10.4 section 3, Contents of an Application, the sections of Form 313 (sections 5-11) that are changing as a result of this requested amendment follow according to the section numbers of Form 313.

Form 313 Section 5. There is no change of RAM used or total allowed quantity. Request is for addition of DU 30mm penetrator (149 grams) and 50mm penetrator (427 grams).

REC RG 1 05 29 * 20 PM 12 06

Form 313 Section 6. - The following program and process is requested to be added to current licensed operations.

Armor Piercing Sabot Subassembly (Sabot, Penetrator, Nose, No Traced Fin Assembly) for use in 30x173mm APFSDS-T (XM1170) cartridges and 50mm x 228 (XM1203) cartridges. Process at ABL include: Assembling Sabot petals around Penetrator (DU), securing with Obturator and affixing a Nose piece. 30mm penetrator is 149 grams and 50mm penetrator is 427 grams. Subassemblies will then ship to our facility in Radford for assembly completion.

Form 313 Section 7. No change in Radiation Safety Officer. The Radiation Safety Officer is George Sherman, telephone number 304-726-7585 and email address george.sherman@ngc.com. The following names should be added to list of authorized users:

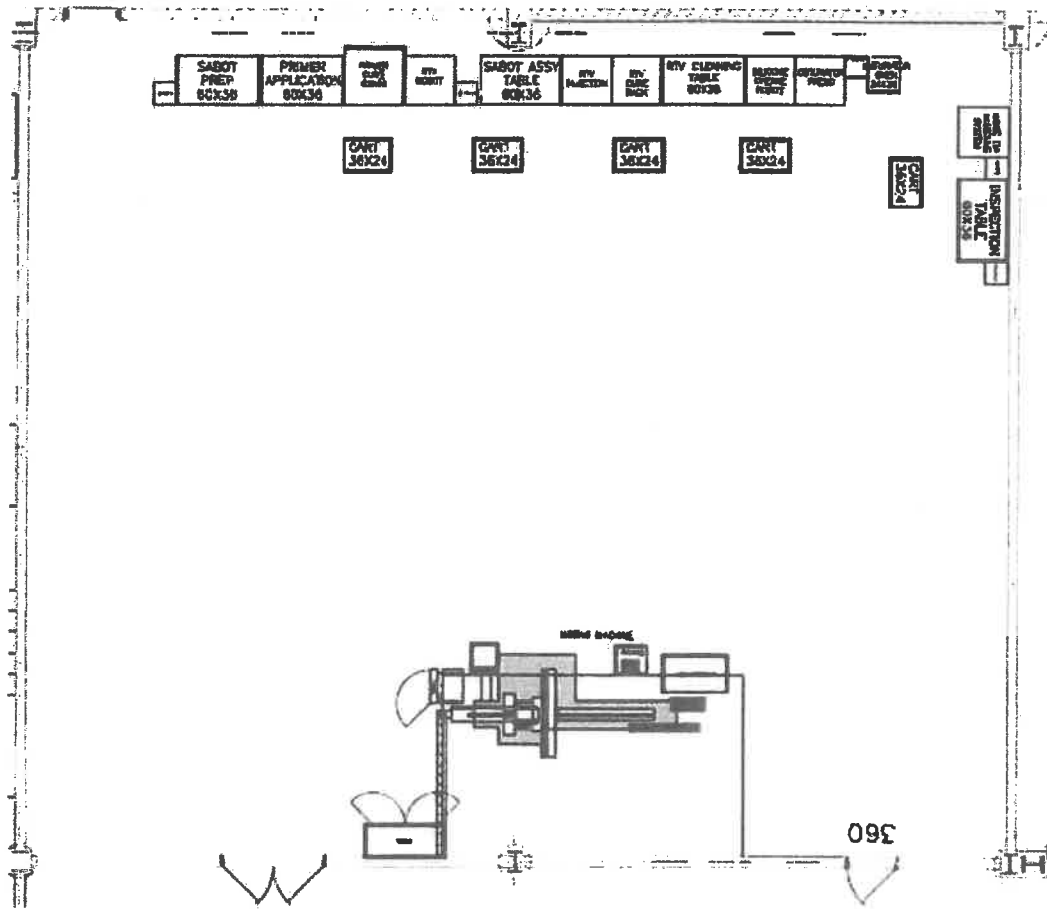
- Rob Thomassy, Jim Denice, Seth Whitacre, Seth Logsdon, Jonathan Strickland, Jeff Spencer, Chris Miltenberger, Scotty White.

Form 313 Section 8. There is no change to the Radiation Safety Training Program.

Form 313 Section 9. Building 376 is requested to be added as location of authorized, licensed operations.

The addition of this building is to support the Armor Piercing Sabot Subassembly for use in 30x173mm APFSDS-T (XM1170) cartridges and 50mm x 228 (XM1203) cartridges. The Alliant Techsystems Operations (ATO) site-wide maximum amount of authorized RAM will not change. Authorized uses requested are possession, storage, distribution, manufacturing and assembly into military munitions, quality assurance testing, and disassembly of munitions. Prohibitions include depleted uranium cutting, grinding, machining, and test firing of depleted uranium munitions.

Building 376 Med. Cal.



*Equipment locations found within each building floor layout are REFERENCE ONLY and can be physically moved, altered, relocated, or removed.

Form 313 Section 10. There is no change in the Radiation Safety Program (other than the addition of building 376 and the new DU penetrator assembly operation).

Form 313 Section 11. There is no change in Waste Management.

Form 313 Section 12. There is no fee enclosed.

Should you have any questions, or need additional information, please contact George Sherman at the telephone number 304-726-7585 or george.sherman@ngc.com.

Sincerely,

CHRISTOPHER P. FRITZ, Director ABL Operations Support
Northrop Grumman Corporation, Defense Systems Sector

(01-2020)
10 CFR 30, 32,
33, 34, 35, 36,
37, 39, and 40



APPLICATION FOR MATERIALS LICENSE

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Information Services Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

INSTRUCTIONS: SEE THE CURRENT VOLUMES OF THE NUREG-1556 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 SUB-1440
- C. RENEWAL OF LICENSE NUMBER _____

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

Alliant Techsystems Operations, LLC
Allegheny Ballistics Laboratory
210 State Route 956
Rocket Center, WV 26726

3. ADDRESS WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED

Alliant Techsystems Operations, LLC
Allegheny Ballistics Laboratory
210 State Route 956
Rocket Center, WV 26726

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

George Sherman

BUSINESS TELEPHONE NUMBER
304-726-7585

BUSINESS CELLULAR TELEPHONE NUMBER
304-790-0827

BUSINESS E-MAIL ADDRESS
george.sherman@ngc.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.

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

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

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

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

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
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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 531: <http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531info.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

Christopher P. Fritz, Director ABL Operations Support

SIGNATURE

DATE

05/24/2024

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	