



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 FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollections.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

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 _____



C. RENEWAL OF LICENSE NUMBER _____

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

U.S. Alloy dba Washington Alloy Co.
7010-G Reames Road
Charlotte, NC 28216

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Washington Alloy Co. Washington Alloy Co.
7010-G Reames Road 4755 Alpine Drive Unit 100A
Charlotte, NC 28216 Stafford, TX 77477

Washington Alloy Co.
8535 Utica Ave
Rancho Cucamonga, CA 91730

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Sonny An

BUSINESS TELEPHONE NUMBER

9092914580

BUSINESS CELLULAR TELEPHONE NUMBER

BUSINESS EMAIL ADDRESS

san@washingtonalloy.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.

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

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

10. RADIATION SAFETY PROGRAM.

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

2C

AMOUNT
ENCLOSED \$

2700

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

Sonny An

Manager

SIGNATURE

DATE

1/6/17

FOR NRC USE ONLY

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

WASHINGTON ALLOY CO.

Application for Material Licensing

NRC Form 313

5. RADIOACTIVE MATERIAL

- Thorium (atomic number 90) a trace quantity as Thorium oxide (ThO₂) typically ranging between 1.7 – 2.2% in tungsten welding electrode used in TIG welding process.
- Washington Alloy does not manufacture but resell/distribute this product which are imported from China.
- Tungsten welding electrodes are sold in packages of 10 pieces ranging from sizes .040 – 1/4" x 7 inches long encased and protected in plastic cartons. All tungsten electrodes will be segregated, marked and properly stored in designated area restricted to radiation safety trained personnel.
- At any one time, Washington Alloy may stock up to 2,000 packages of 2% Thoriated Tungsten properly stored in specially designated area for distribution.

6. PURPOSE FOR USE

- Used in TIG welding process in joining metals.
-

7. INDIVIDUALS RESPONSIBLE FOR SAFETY TRAINING

- Wade Valentine, QA Manager oversees ISO 9001, internal audits, MSDS and all training requirements for Washington Alloy Co. Wade will designate and work with each appointed individual from each locations to train and implement a radioactive material safety program.

8. TRAINING FOR INDIVIDUAL WORKING IN RESTRICTED AREA

- According to the studies on Thorium tungsten, the material is non-hazardous in its free form, but during the grinding process prior to use, the dust particles generate a radioactive dust with the risk of inhalation of the hazardous material. Washington Alloy neither use nor grind tungsten electrodes however all precaution and safety training will strictly be enforced.
- We will assign and train one primary and one secondary personnel who will be qualified to enter the restricted area where the Thoriated tungsten will be stored. They will be instructed of the potential hazards of the thoriated electrode, how to handle and how to properly package and check for radiation levels per DOT regulation of maximum of 0.5mR/hr of external service prior to shipping and labeled according.

WASHINGTON ALLOY CO.

All 2% Thoriated tungsten will be packed in a single or double walled cartons protected with bubble wrapping and filler paper for further protection.

- QA Manager and the warehouse manager will meet and discuss any training or safety needs at minimal twice per year. In the event, there are any concerns or issues arise at any time, the warehouse manager can address those concerns with the QA manager to resolve those concerns immediately.

9. FACILITIES AND EQUIPMENT

- Each of the Washington Alloy three locations are approximately between 28,000 and 30,000 SF. The 2% Thoriated Tungstens will be stored in areas where there are minimal traffic and taped off limits to ensure the safety of all employees.
- Each location will be equipped with SE International, Monitor 4 Radiation Detector or similar. Prior to shipping, each package will be monitored to ensure the readings are within the DOT radiation level limits.
- Further diagrams and layout can be supplied once approved for licensing and all equipment and final layouts are in place.

10. RADIATION SAFETY PROGRAM

- Concerns for radiation in the electrode form is very minimal as noted by AWS and OSHA.
- Washington Alloy does not use or grind 2% Thoriated tungsten where the concern for health hazards lay through the inhalation of the dust particles.
- Radiation safety program will focus on monitoring, handling and proper packaging and labeling to meet DOT shipping requirements.

11. WASTE MANAGEMENT

- All 2% thoriated tungstens are imported prepackaged and labeled for direct sales. Therefore, we anticipate very minimal scraps if any at all.
- In the event of any scrap materials, all scrap materials will be separated from radioactive and non-radioactive materials and disposed properly with third party waste management.
- All records of scrap and quantities will be maintained per NRC and ISO 9001.

WASHINGTON ALLOY CO.