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AEROSPACE AMERICA, INC.

P.O. BOX 189
BAY CITY, MICHIGAN 48706



February 12, 1968

MICHIGAN AEROSPACE PRODUCTS DIV.
900 PATTERSON AVENUE
BAY CITY, MICHIGAN 48706
TELEPHONE 517-684-2121

DOCKET NO. 40-6897

Regulatory Suppl File Gy.

Mr. Donald A. Nussbaumen, Chief
Source and Special Nuclear Materials Branch
Division of Materials Licensing
United States Atomic Energy Commission
Washington, D. C. 20545

Reference: DML:ND 40-6897

Subject: RENEWAL OF LICENSE NO. STB-821

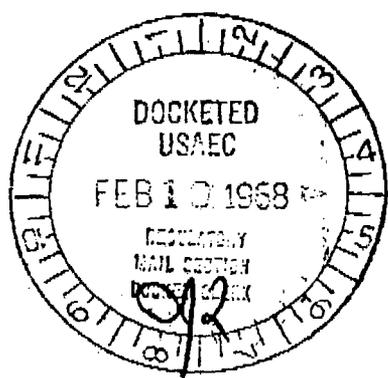
Gentlemen:

Thank you for your letter dated January 26, 1968 notifying us that our Source Material License expires on March 31, 1968. In compliance with your request, we are enclosing the completed original and three (3) copies of Form AEC-2 and the original and three (3) copies of "Certification of Status of Source Material Activities".

If additional data is needed, please do not hesitate to contact us.

Sincerely,

I. Carl Mattson
President



ICM/jsb

Encl.

COPY PROVIDED
COMPLIANCE on
3-6-68 ATW

A-14
ACKNOWLEDGED

MAGNESIUM • ALUMINUM • TITANIUM • FABRICATED PRODUCTS
CLASSIFIED AS A SMALL BUSINESS CONCERN

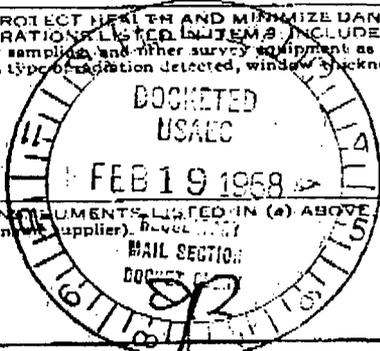
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APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

Regulatory Suppl. File Cy.

<p>1. (Check one)</p> <p><input type="checkbox"/> (a) New license</p> <p><input type="checkbox"/> (b) Amendment to License No. _____</p> <p><input checked="" type="checkbox"/> (c) Renewal of License No. <u>STB-821</u></p> <p><input type="checkbox"/> (d) Previous License No. _____</p>	<p>2. NAME OF APPLICANT</p> <p style="text-align: center;">AEROSPACE AMERICA, INC.</p> <p>3. PRINCIPAL BUSINESS ADDRESS</p> <p style="text-align: center;">900 Patterson Avenue Bay City, Michigan 48706</p>																		
<p>4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED</p> <p style="text-align: center;">900 Patterson Avenue, Bay City, Michigan</p>																			
<p>5. BUSINESS OR OCCUPATION</p> <p style="text-align: center;">Metal Fabrication</p>	<p>6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP</p> <p style="text-align: center;">--</p> <p>(b) AGE</p> <p style="text-align: center;">--</p>																		
<p>7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED</p> <p style="text-align: center;">Fabrication of metal components of HM21A Magnesium Thorium sheet metal and forgings.</p>																			
<p>8. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE, POSSESS, USE, OR TRANSFER UNDER THE LICENSE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">(a) TYPE</th> <th style="width: 25%;">(b) CHEMICAL FORM</th> <th style="width: 25%;">(c) PHYSICAL FORM (Including % U or Th.)</th> <th style="width: 30%;">(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)</th> </tr> </thead> <tbody> <tr> <td>NATURAL URANIUM</td> <td></td> <td></td> <td></td> </tr> <tr> <td>URANIUM DEPLETED IN THE U-235 ISOTOPE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>THORIUM (ISOTOPE)</td> <td>2.0% th; 98.0% Mg.</td> <td>Sheet Metal) -2% Th Forgings)</td> <td>15 lbs.</td> </tr> </tbody> </table> <p>(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds)</p> <p style="text-align: center;">15 lbs.</p>				(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)	NATURAL URANIUM				URANIUM DEPLETED IN THE U-235 ISOTOPE				THORIUM (ISOTOPE)	2.0% th; 98.0% Mg.	Sheet Metal) -2% Th Forgings)	15 lbs.
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<p>9. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME AND PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL RADIATION HAZARDS ASSOCIATED WITH EACH STEP OF THOSE PROCESSES.</p> <p>Sheet metal and forgings will be formed, cut, machined, ground, spot welded, and TIG arc welded. Finished components will be given Dow-17 chemical treatment. Amount of radioactive material involved in this alloy is so small that no particular hazards exist in any of these manufacturing steps.</p>																			
<p>10. DESCRIBE THE MINIMUM TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE THAT WILL BE REQUIRED OF APPLICANT'S SUPERVISORY PERSONNEL INCLUDING PERSON RESPONSIBLE FOR RADIATION SAFETY PROGRAM (OR OF APPLICANT IF APPLICANT IS AN INDIVIDUAL).</p> <p>Due to small amount of radioactive material in this alloy, radiation hazards negligible. Supervisory personnel charged with safety inspections have 10 years experience in fabrication of HM21 Magnesium Thorium alloy materials.</p>																			
<p>11. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 8. INCLUDE: (a) RADIATION DETECTION AND RELATED INSTRUMENTS (including film badges, dosimeters, counters, air samplers, and other survey equipment as appropriate. The description of radiation detection instruments should include the instrument characteristics such as type of radiation detected, window thickness, and the range(s) of each instrument).</p> <p style="text-align: center;">Not applicable.</p>																			
<p>(b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN (a) ABOVE INCLUDING AIR SAMPLING EQUIPMENT (for film badges, specify method of calibrating and processing, or name of supplier).</p> <p style="text-align: center;">Not applicable.</p>																			



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11(c) VENTILATION EQUIPMENT WHICH WILL BE USED IN OPERATIONS WHICH PRODUCE DUST, FUMES, MISTS, OR GASES, INCLUDING PLAN VIEW SHOWING TYPE AND LOCATION OF HOOD AND FILTERS; MINIMUM VELOCITIES MAINTAINED AT HOOD OPENINGS AND PROCEDURES FOR TESTING SUCH EQUIPMENT.

Positive suction water-wash dust collectors are installed on all machinery and equipment which produces any dust or gas.

12. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELATE THESE PROCEDURES TO THE OPERATIONS LISTED IN ITEM 9. INCLUDE: (a) SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS, SUCH AS FIRE, EXPLOSION, ETC., IN SOURCE MATERIAL STORAGE AND PROCESSING AREAS.

Not applicable

(b) EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL.

Not applicable

(c) DETAILED DESCRIPTION OF RADIATION SURVEY PROGRAM AND PROCEDURES.

Not applicable

RECEIVED
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U.S. ATOMIC ENERGY COMMISSION
GENERAL INVESTIGATIVE
MAIL & RECORDS SECTION

13. WASTE PRODUCTS: If none will be generated, state "None" opposite (a), below. If waste products will be generated, check here and explain on a supplemental sheet:

(a) Quantity and type of radioactive waste that will be generated. Scrap Metal

(b) Detailed procedures for waste disposal. Sell to Licensed Dealer

14. IF PRODUCTS FOR DISTRIBUTION TO THE GENERAL PUBLIC UNDER AN EXEMPTION CONTAINED IN 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING:

(a) PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.

(b) PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS, IF ANY, THAT WILL PREVENT INHALATION OR INGESTION OF SOURCE MATERIAL THAT MIGHT BE SEPARATED FROM THE PRODUCT.

(c) BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify instrument used; date of calibration and calibration technique used) AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES.

(d) METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MANUFACTURED PRODUCT.

Not applicable

CERTIFICATE

(This item must be completed by applicant)

15. The applicant, and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

AEROSPACE AMERICA, INC.

(Applicant named in Item 2)

Dated February 12, 1968

BY:

I. Carl Mattson
(Print or type name under signature)

President

(Title of certifying official authorized to act on behalf of the applicant)

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.



UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

140-6897
Regulatory Suppl File on