

40-29

AUG 12 1959

McDonnell Aircraft
Box 916
St. Louis 66, Missouri

Attention: Mr. G. F. Eversen

Gentlemen:

This refers to the inspection conducted on April 15, 1959 of your activities authorized under AEC Source Material License No. C-2210.

No items of noncompliance have been noted as a result of the inspection.

We appreciate the cooperation given the AEC representative.

Very truly yours,

Lyall Johnson, Chief
Licensing Branch
Division of Licensing
and Regulation

cc: Division of Inspection, Wash.
Division of Inspection, OROO
Public Document Room

A/242

OFFICE ▶	DLR:R3B	DLR:RSB	DLR:LE			
SURNAME ▶	Lane:hka	Rogers	Johnson			
DATE ▶	8-7-59	8/10/59	8/11			

Form AEC-E16 (Rev. 9-52)

U. S. GOVERNMENT PRINTING OFFICE 16-62761-8

9702270256 970106
PDR FOIA
NEITZEL96-314 PDR

UNITED STATES ATOMIC ENERGY COMMISSION
COMPLIANCE INSPECTION REPORT

1. Name and address of licensee McDonnell Aircraft Box 138 St. Louis 56, Missouri Attention: Mr. S. F. Swenson	2. Date of inspection April 15, 1959
	3. Type of inspection Surveillance (B)
	4. 10 CFR Part(s) applicable 20 and 40

5. License number(s), issue and expiration dates, scope and conditions (including amendments)

<u>License No.</u>	<u>Issue</u>	<u>Expiration</u>	<u>Scope and Conditions</u>
4-4710	1-22-59	1-30-60	License to produce components of jet engine for the engine which will be used in the production of aircraft parts. This license pertains to plant at St. Louis, Missouri.

6. Inspection findings (and items of noncompliance)

The last previous inspection of this source activity program on April 11, 1958, found no items of noncompliance. This inspection showed that the program continues to be in a competent manner. Since the last inspection the size of the program has increased considerably and some experimental attempts at welding the magnesium turbine case have been made. A well ventilated facility is used for welding with complete welding procedures strictly followed. The procurement records indicate that on the date of the inspection 17,667 lbs. had been ordered and 12,405 lbs. received, of which 7,000 lbs. had been issued. Of the material received 1,000 lbs. had been issued.

REMARKS: (This section is for the use of the licensee and the Commission. It is not to be used for the purpose of making a record of the inspection.)

DISCUSSION: (This section is for the use of the licensee and the Commission. It is not to be used for the purpose of making a record of the inspection.)

REMARKS: (This section is for the use of the licensee and the Commission. It is not to be used for the purpose of making a record of the inspection.)

DISCUSSION: (This section is for the use of the licensee and the Commission. It is not to be used for the purpose of making a record of the inspection.)

REMARKS: (This section is for the use of the licensee and the Commission. It is not to be used for the purpose of making a record of the inspection.)

DISCUSSION: (This section is for the use of the licensee and the Commission. It is not to be used for the purpose of making a record of the inspection.)

LRL:ND
40-29

APR 5 1960

McDonnell Aircraft Corporation
P. O. Box 516
St. Louis 3, Missouri

Attention: Mr. G. F. Everson
Purchasing Agent

Gentlemen:

This refers to your letter of March 28, 1960, requesting renewal of your License No. C-2210.

Enclosed is a copy of AEC Regulation 10 CFR 20, entitled, "Standards for Protection Against Radiation." Compliance with Part 20 is made a condition of all source material licenses issued by the Commission. Before we may further consider your request for renewal, we require the following information:

1. The quantity of material to be licensed.
2. A detailed description of your use of thorium-magnesium alloy.
3. The method you use in controlling dust or fumes during the grinding, welding or chemical operations.
4. The type of surveys to be conducted to determine that the air-borne radioactivity is within the limits of 10 CFR 20, including the types of instruments used.
5. The type of waste generated, and the method of disposal.

DISTRIBUTION
Div. of INS, w/3/28/60 submittal
Doc. Rm.1
Formal
Suppl.
L&R - LRL Readings

Very truly yours,

J. C. Delaney
Chief, Nuclear Materials Section
Licensing Branch
Division of Licensing and Regulation

A1244

Enclosure OFF 10 CFR Part 20	✓ LRL	IRL			
SIGNATURE VIA AIR MAIL	NDouglas/rh	Delaney			
DATE	4/4/60	4/5/60			

9608000130

MCDONNELL *Aircraft Corporation*
Lambert-Saint Louis MUNICIPAL AIRPORT • BOX 516, ST. LOUIS 3, MO.

29 APR 1960

USAEC-764-31

DOCKET NO. 40-29

U. S. Atomic Energy Commission
Division of Licensing and Regulation
Washington 25, D. C.

Attention: J. C. Delaney, Chief, Nuclear Materials Section

Subject: Renewal of AEC License to Receive Source Material

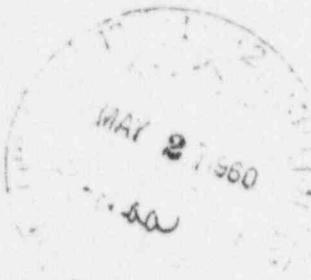
Reference: (a) J. C. Delaney letter LRL:ND 40-29 dated 5 April 60
(b) O. F. Everson letter USAEC-764-24 dated 28 Mar 60

1. This is in reply to the questions submitted in Reference (a) in the order in which they appear.
 - (1) The quantity of material to be licensed is approximately 20,000 pounds per year.
 - (2) As to a detailed description of the use of thorium-magnesium alloy, we are presently using this material for wing skins and fuselage skins on both aircraft and missiles.
 - (3) At the present time we are doing no grinding, welding, or chemical operations on this material, but in the future we propose to do automatic spot welding which will be done under a hood and will be ventilated.
 - (4) Surveys are conducted once each month to determine the air-borne radioactivity within the storage and manufacturing areas and the instruments used for these surveys is a tracer lab SU14 with a G.M. Gamma Beta Tube and an Alpha Tube, and also the Victoreen Model 740A Ionization Chamber.
 - (5) Type of waste generated is sheared sheet remnants and clippings, and method of disposal of this waste is to resell it to the producer.

MCDONNELL AIRCRAFT CORPORATION

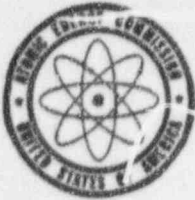
O. F. Everson, Purchasing Agent

OFE/adh



9608060135 1P

A1245



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON 25, D. C.

IN REPLY REFER TO:

45-27
LAL:HD

SOURCE MATERIAL LICENSE

License No. C-2210

Dated: May 1, 1960.

McDonnell Aircraft Corporation
Box 516
St. Louis 3, Missouri

Attention: Mr. C. F. Ferguson

Gentlemen:

Pursuant to the Atomic Energy Act of 1954 and Section 40.21 of the Code of Federal Regulations, Title 10 - Atomic Energy, Chapter 1, Part 40 - Control of Source Material, you are hereby licensed to receive possession of and title to ~~twenty thousand (20,000) pounds of thorium magnesium alloy~~ containing not more than 4% thorium for use in the production of aircraft parts. This license extends to your plant at Robertson, Missouri, in accordance with your procedures described in your application of April 29, 1960.

You are further licensed to transfer and deliver possession of and title to refined source material to any person licensed by the Atomic Energy Commission, within the limits of his license.

As a condition of this license, you are required to maintain records of your inventories, receipts and transfers of refined source material.

This license is subject to all the provisions of the Atomic Energy Act of 1954 now or hereafter in effect and to all valid rules and regulations of the U. S. Atomic Energy Commission, including 10 CFR 20, "Standards For Protection Against Radiation."

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954.

This license shall expire April 30, 1961.

CC: Docket Officer
Document Room
S/H
Insp. w/c appl

C. M. F.

FOR THE ATOMIC ENERGY COMMISSION

J. C. Delaney
Chief, Nuclear Materials Section
Licensing Branch
Division of Licensing & Regulation

Dictator

Approved

MAY 4 1960

9608060144 IP

MCDONNELL *Aircraft Corporation*
Lambert-Saint Louis MUNICIPAL AIRPORT • BOX 516 • ST. LOUIS 66, MO.

5 OCT 1960

Ref: USAEC-764-1060-1

U. S. Atomic Energy Commission
Division of Licensing and Regulation
Washington, 25, D. C.

Attention: J. C. Delaney, Chief, Nuclear Materials Section.

Subject: Increase in Quantity Licensed to Receive

Reference: (a) Source Material License No. C-2210,
dated 1 May 1960
J. C. Delaney letter LRL:ND 40-29,
dated 1 May 1960

1. Application is herewith made for an increase of 15,000 Lbs. to a total of 35,000 Lbs. of Thorium-Magnesium Alloy which McDonnell Aircraft Corporation may receive under Reference (a).
2. This increase is necessitated by a design change which must be incorporated in test articles and production to meet delivery schedules.
3. Your prompt consideration and reply will be greatly appreciated.

MCDONNELL AIRCRAFT CORPORATION

O. F. Everson
O. F. Everson, Purchasing Agent

OFE:llm

9608060160

AP247

MCDONNELL *Aircraft Corporation*
Lambert Saint Louis MUNICIPAL AIRPORT • BOX 516, ST. LOUIS 3, MO.

28 March 1960
Ref: USAEC-764-24

DOCKET NO. 40-29

U. S. Atomic Energy Commission
Division of Licensing and Regulation
Washington 25, D. C.

Attention: Licensing Branch

Subject: Renewal of AEC License to Receive Source Material

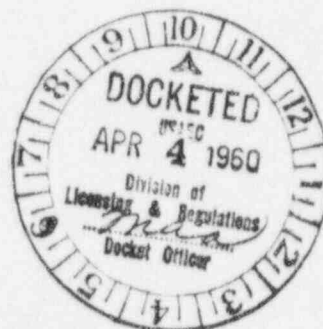
Reference: (a) Source Material License No. C-2210

1. Application is herewith made for renewal of AEC Source Material License to authorize McDonnell Aircraft Corporation to receive Magnesium Thorium Alloys from authorized licensees for the production of aircraft parts in our plant at Robertson, Missouri.
2. Your prompt consideration and reply will be greatly appreciated.

MCDONNELL AIRCRAFT CORPORATION

(Signature)
O. F. Everson, Purchasing Agent

OFE:llm

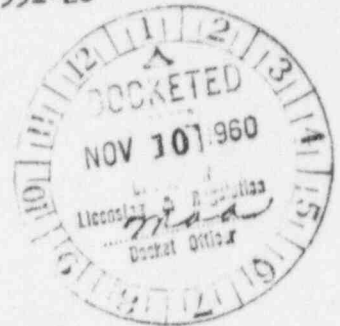


MCDONNELL *Aircraft Corporation*
Lambert Saint Louis MUNICIPAL AIRPORT • BOX 516, ST. LOUIS 66, MO.

DOCKET NO. 40-291

7 November 1960
Ref: AEC-551-28

U. S. Atomic Energy Commission
Division of Licensing and Regulation
Washington 25, D. C.



Gentlemen:

At present McDonnell Aircraft Corporation disposes of approximately 75 pounds of Thorium annually. The element, in the form of scrap from HMZIA Magnesium-Thorium alloys, is routinely returned to the vendor, Dow Chemical Company, for disposal.

We would prefer to dispose of this material by burial in one of the sanitary landfills in St. Louis County. These landfills are approved by the St. Louis County Health Department and comply with Section 20.304 of 10 CFR Part 20.

We wish to bury a maximum of 150 pounds in any one landfill. This would occur at a rate of about 75 pounds per year.

In addition, some of this scrap exists as sludge from a chemical milling operation. Since this sludge is dispersible in water and since the rate of release would be considerably less than the limits set forth in Section 20.303 of 10 CFR Part 20, we wish to know if it is possible to dispose of this sludge in the sanitary sewerage system.

If you should require any further information, please contact me.

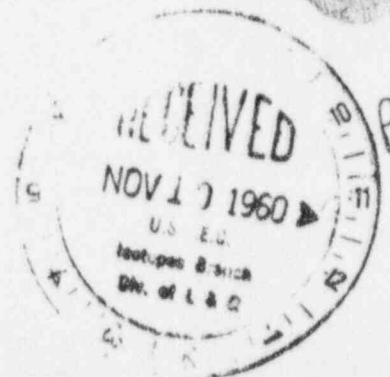
Yours very truly,

William L. Kester

William L. Kester
Scientist
Research Department

TO
DOW
IN 1960

9608060167 2R:



A1249



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON 25, D. C.

IN REPLY REFER TO:

40-29
LH:MD

SOURCE MATERIAL LICENSE

McDonnell Aircraft Corporation
Box 936
St. Louis 3, Missouri

License No. G-2210
Amendment # 1
Dated:

Attention: Mr. O. F. Everson
Purchasing Agent

Gentlemen:

Pursuant to the Atomic Energy Act of 1954 and Section 40.21 of the Code of Federal Regulations, Title 10 - Atomic Energy, Chapter 1, Part 40 - Control of Source Material, you are hereby licensed to receive possession of and title to thirty-five (35,000) thousand pounds of thorium as an alloy containing not more than 4% thorium for use in the production of aircraft parts in accordance with the procedures as cited in your application of April 29, 1960. This license extends to your plant at Petersen, Missouri.

You are further licensed to transfer and deliver possession of and title to refined source material to any person licensed by the Atomic Energy Commission, within the limits of his license.

As a condition of this license, you are required to maintain records of your inventories, receipts and transfers of refined source material.

This license is subject to all the provisions of the Atomic Energy Act of 1954 now or hereafter in effect and to all valid rules and regulations of the U. S. Atomic Energy Commission, including 10 CFR 20, "Standards For Protection Against Radiation."

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954.

This license shall expire April 30, 1961.

CC: Docket Officer
Doc. Room
S/H
Compl. w/c appl

FOR THE ATOMIC ENERGY COMMISSION

J. C. Delaney
Chief, Nuclear Materials Branch
Division of Licensing & Regulation

AP248

UNITED STATES GOVERNMENT

Memorandum

TO : Chief, Radiation Safety Branch

DATE: NOV 16 1960

FROM : J. C. Delaney *J. C. Delaney*
Chief, Nuclear Materials Branch

SUBJECT: McDONNELL AIRCRAFT CORPORATION LETTER DATED NOVEMBER 7, 1960
REGARDING DISPOSAL OF THORIUM - DOCKET NO. 40-29

L&R:ND

Please review the subject request and advise us of your recommendations as to the action we should take.

Please return the enclosed docket with your comments.

Enclosure:
Docket No. 40-29

~~9608060170 1P~~

A/250