

40-29

## Office Memorandum • UNITED STATES GOVERNMENT

TO : ~~Security Director,~~  
~~Director of the Federal Bureau of Investigation~~  
FROM : *cel* ~~Division of Licensing and Regulation~~  
Assistant Director for Compliance  
Division of Inspection

DATE: JUN 25 1958

SUBJECT: INSPECTION REPORT CONCERNING LICENSE ACTIVITIES OF  
MCDONNELL AIRCRAFT CORPORATION, LICENSE NO. C-2210, 10 CFR 40.

SYMBOL: INS:LDL

☒ A copy of subject report is forwarded for your retention.

☐ Your attention is invited to paragraphs

☒ No recommendations are submitted  
It is suggested that you inform the licensee that  
he is in compliance with commission regulations.

Enclosure  
Cpy Inspection Rpt dtd 5/26/58  
Trans memo fm S.R. Sapirie, OROO  
to CANelson dtd 6/3/58

A1231

# Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. J. E. Hays, Director, Division of  
Inspection, Washington, D. C.

DATE:

FROM : S. R. Sapir, Manager  
Oak Ridge Operations Office

SUBJECT: COMPLIANCE INSPECTION REPORTS

SYMBOL: MILD

Enclosed are compliance inspection reports covering the activities under three licenses issued to McDonnell Aircraft Corporation, St. Louis, Missouri. The licenses are as follows:

Byproduct Material License No. 24-2261-1

This is a reinspection report and is considered a "clear" case.

Byproduct Material License No. 24-2261-2

During the initial inspection of the activities conducted under this license, three items of noncompliance were noted in that although surveys had been made no records were available of the findings; personnel had been monitored for exposure to radiation with dosimeters but no record of the dosimeter readings was available; and no record was available showing receipt of the licensed material.

The investigation and training program authorized by these licenses was conducted by Nuclear Consultants, Inc., St. Louis, Missouri. Mr. Jack A. McQuinn, stated that surveys and personnel monitoring programs were carried out by Nuclear Consultants and that the results were reported to the Division of Inspection and Regulation. The results for their files. The Division of Inspection and Regulation has received the results of receipt of the licensed material. The results of the inspection at the business offices of McDonnell Aircraft Corporation were available at the plant. It is recommended that a letter be sent to the Division of Inspection and Regulation stating that the results of the inspection and personnel monitoring programs were reported to the Division of Inspection and Regulation. The results of the inspection at the business offices of McDonnell Aircraft Corporation were available at the plant. It is recommended that a letter be sent to the Division of Inspection and Regulation stating that the results of the inspection and personnel monitoring programs were reported to the Division of Inspection and Regulation.

Curis A. Nelson

- 2 -

June 2, 1950

Source Material License No. C-2220

The reinspection report of the activities conducted under this license is considered a "clear" case.

We would again like to emphasize that any letter or letters sent to this licensee should make clear that the items of noncompliance involve only one of the licenses.

R. E. Sapirio

Enclosure:  
Inspection Reports as Listed (in dup.)



UNITED STATES ATOMIC ENERGY COMMISSION  
COMPLIANCE INSPECTION REPORT

1. Name and address of licensee <b>Edwards Aircraft Corporation</b> Post Office Box 516 St. Louis 3, Missouri	2. Date of inspection <b>April 21, 1955</b>
3. Name of representative <b>Mr. G. F. Brown</b>	3. Type of inspection: <b>Reinspection</b>
	4. 10 CFR Part(s) applicable <b>20 and 50</b>

5. License and status, time and location of visit, scope and conditions (including amendments)

License No.	Time	Location	Scope and Conditions
0-0000	1-1-55	1-21-55	<p>Licensee is authorized to receive possession of and title to five thousand (5,000) pounds of refined source material containing up to 10 percent by weight in the production of aircraft parts.</p> <p>Licensee is authorized to place at historic, Missouri, Missouri, Missouri to transfer and deliver possession of and title to refined source material to any person licensed by the AEC, within the limits of his license. Required to maintain records of inventory, receipts and transfers of refined source material. Licensee 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 AEC, including 10 CFR 20. 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.</p>

6. Inspection findings (and items of noncompliance)

The use of the licensed source material in the licensee's program was found to be in the same manner as that noted in the initial inspection findings. The most significant change observed during the reinspection of the program was the increased amount of the licensed material in the licensee's possession. The initial inspection of the program, the amount of the licensed material was increased from approximately 100 lbs. to the amount of the initial inspection to approximately 500 lbs. as of January 1, 1955. Records provided and maintained by licensee indicate that the "loss" of material in the increased amount of material in the licensee's possession was due to the fact that the licensee had not yet received the material to be used in the production of aircraft parts. The source material in the licensee's possession is subject to regulation under 10 CFR 20. No items of noncompliance were observed or otherwise noted during the course of this inspection.

7. Date of last previous inspection <b>March 18, 1954</b>	8. Is "Company Confidential" information contained in this report? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (Specify page(s) and paragraph(s))
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DISTRIBUTION:

1. Original - **Mr. G. F. Brown**

2. Copy - **Mr. G. F. Brown**

3. Copy - **Mr. G. F. Brown**

4. Copy - **Mr. G. F. Brown**

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10. Copy - **Mr. G. F. Brown**

DETAILS

I. GENERAL INFORMATION

9. On April 21, 1958, a reinspection was made of the source material program being conducted under License No. C-2210 by the McDonnell Aircraft Corporation, St. Louis, Missouri.
10. The inspection was conducted by W. W. Peery, Inspection Division, ORDC, accompanied by Mr. Leven E. Gray, Missouri State Department of Health.
11. Messrs. J. E. Shultz and E. V. Sisul were interviewed and furnished information during the inspection.
12. The initial inspection of this program was conducted on March 19, 1957. This report covers only the significant changes that have occurred in the program since that time as reflected in the initial inspection report.

II. ORGANIZATION AND PROCEDURES

13. The use of the licensed material in the program continues to be limited to research in aircraft materials and it is still not known when the material may be used for production purposes. The only significant change noted in the program is the amount of Th-Mg alloy currently in the licensee's possession. The processed amount has increased from the reported 300 - 400 lbs. of the material noted in the initial inspection to approximately 1700 lbs. of the Th-Mg alloy as of January 1, 1958. The alloy is still being used in the form of sheets, welding rods and small castings; however, sheets of the alloy in varying sizes were observed to be the major form in which the material is used. The sheets of Th-Mg alloy contain 3% Th and Mr. Shultz stated that the Dow Chemical Company, Midland, Michigan, supplied this material.

III. STORAGE AND WASTE DISPOSAL

14. The source material is stored in supply racks in the plant machine shop and a large, posted wooden box has been provided for the storage of scrap, waste and small pieces of the alloy which have been used in experimental work. Mr. Shultz stated that several chemical processing companies have inquired as to the possibility of processing the wastes from the McDonnell program involving the Th-Mg; however, no firm commitments have been made since the amounts of waste from the experimental program are too small to be of interest to the chemical companies.

Each of the sheets of Th-Mg alloy is tagged with appropriate wording to indicate the radioactive content of the material and the waste storage box is similarly posted. The radiation symbol does not appear with the words of caution and Messrs. Shultz and Sisul indicated that the symbol would be added to the posting.

DOCKET NO. 40-29

Regulatory

File Cy.

MCDONNELL DOUGLAS

CORPORATION

28 JAN 1970

AEC-256-001

United States Atomic Energy Commission  
Washington, D. C. 20545

Attention: Director  
Division of Materials Licensing

Subject: Application for Source Material License

Enclosures: (1) Form AEC-2 (4 copies)  
(2) Supplemental Sheets to Encl. (1)



1. Enclosed herewith are forms AEC-2 in application for renewal of Source Material License STB-49 issued to the McDonnell Douglas Corporation.
2. Upcoming programs will require that we use the indicated quantities of both magnesium-thorium alloys and thoria.
3. Should you require any further information do not hesitate to contact us.

Very truly yours,

MCDONNELL DOUGLAS CORPORATION

*William L. Kester*

William L. Kester  
Chairman, Isotope Committee

WLK:je

CC: Master File (2) w/encl.  
W. L. Kester (2) 256/102



-2/279

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FEB 17 1970

DML:DPH  
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*amend, 3*

McDannell Douglas Corporation  
P. O. Box 516  
St. Louis, Missouri 63166

Attention: Mr. William L. Easter  
Chairman, Isotope Committee

Gentlemen:

Enclosed is AEC Source Material License No. STB-49, as renewed.

Sincerely,

Original signed by  
Don. F. Harmon

Don F. Harmon  
Source and Special Nuclear  
Materials Branch  
Division of Materials Licensing

Enclosure:  
As stated

DISTRIBUTION: (w/encs.)  
PDR  
State Health (license only)  
Docket file  
Branch R/F  
Division R/F, w/o encl.  
Harmon's R/F  
CO, Region III  
M. A. Dean, DML, w/3 cys

*A1280*

OFFICE ▶	DML					
SURNAME ▶	DFHarmon/dmb					
DATE ▶	2/16/70					

*9608070260*

COPY

Form AEC-410  
(1-61)

UNITED STATES  
ATOMIC ENERGY COMMISSION

SOURCE MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954, and Title 10, Code of Federal Regulations, Chapter 1, Part 40, "Licensing of Source Material," and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, possess and import the source material designated below; to use such material for the purpose(s) and at the place(s) designated below; and to deliver or transfer such material to persons authorized to receive it in accordance with the regulations in said Part. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954 and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission, now or hereafter in effect, including Title 10, Code of Federal Regulations, Chapter 1, Part 20, "Standards for Protection Against Radiation," and to any conditions specified below.

<b>Licensee</b>  1. Name      McDonnell Douglas Corp.  2. Address    P. O. Box 516 St. Louis, Missouri 63166		3. License No. STB-49
		4. Expiration Date February 28, 1975
		5. Docket No. 40-29
6. Source Material  Thorium	7. Maximum quantity of source material which licensee may possess at any one time under this license  500 pounds	

CONDITIONS

8. Authorized use (Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.)

For use in accordance with the procedures described in the licensee's application dated January 16, 1970.

9. Authorized Place of Use: The licensee's Municipal Airport facility,  
St. Louis, Missouri.

154  
2/16/70

For the U. S. ATOMIC ENERGY COMMISSION

Original signed by  
Don. F. Harmon

Date of issuance

PRINTING OFFICE: 1962 O-632985

Don F. Harmon  
Division of Materials Licensing

B

COPY

960807 6266

This says the



DML:RTW

40-29

STB-49, Amendment No. 2

MAY 3 1968

McDonnell Douglas Corporation  
Post Office Box 516  
St. Louis, Missouri 63166

Attention: Mr. W. L. Koster  
Scientist, Research Division

Gentlemen:

Pursuant to your letter dated April 23, 1968, Item No. 1  
of AEC Source Material License No. STB-49 is hereby amended  
to read:

"1. McDonnell Douglas Corporation."

All other conditions of this license shall remain the same.

FOR THE ATOMIC ENERGY COMMISSION

DISTRIBUTION:  
Document Room  
State Health  
Subject File  
Compliance, Reg. III  
N. Doulos, DML (3)  
Br. Reading File  
Div. Reading File

Don F. Harmon  
Source & Special Nuclear Materials  
Branch  
Division of Materials Licensing

OFFICE ▶	DML RTW	DML DH			
SURNAME ▶	RTWoolsey:jf	DFH			
DATE ▶	5-2-68	5/2/68			

4608060336

DML:RTW  
40-20  
STE-49

APR 15 1968

*Amendment No. I*

McDonnell Company  
Post Office Box 516  
St. Louis, Missouri 63166

Attention: Mr. W. L. Kester  
Chairman, Isotope Committee

Gentlemen:

Pursuant to Title 10, Code of Federal Regulations, Part 40, AEC Source Material License No. STE-49, as renewed March 23, 1967, is hereby amended to increase the maximum quantity of source material which you may possess at any one time in accordance with procedures submitted with your letter dated March 14, 1968. Accordingly, Item 7 is hereby amended as follows:

"7. 500 pounds"

Item 8 is hereby amended to add the following date:

"8. March 14, 1968"

All other conditions of this license shall remain the same.

We note from your letterhead that an organizational change has taken place since your license was renewed on March 23, 1967. Would you please furnish us with the details of this change so that we may determine whether your license will require an additional amendment.

DISTRIBUTION:  
Document Room  
State Health  
Subject File  
Compliance, Reg. III  
N. Douglas, DML (3)  
Br. Reading File  
Div. Reading File

FOR THE ATOMIC ENERGY COMMISSION

Don F. Harmon  
Source & Special Nuclear Materials  
Branch  
Division of Materials Licensing

OFFICE	DML RTW	DML DFH			
SURNAME	RTWpalsey:jf	DFHarm			
DATE	4-15-68	4/15/68			

9608060333

Docket No. 40-29

FEB 25 1971

McDonnell Douglas Corporation  
ATTN: D. J. Laumstein  
P.O. Box 516  
St. Louis, Missouri 63166

Gentlemen:

This responds to your recent inquiry regarding your receipt of Invoice L-1724-71, dated February 5, 1971, covering fees for facilities and materials licenses.

The invoice specifies the annual fee charged for your AEC license pursuant to Part 170 of the Commission's regulations. (A copy of an explanatory letter dated January 19, 1971, which was sent to all licensees affected by the revised fee schedule, is attached.)

The invoice pertains to the following license issued to you:

License No. STB-49 (Docket No. 40-29)

User and Address:

W. L. Kaster, Chairman, Isotope Committee

Material Covered or Activity Authorized:

Thorium

Please note that the fee schedule is not related to the expiration date specified in the license, nor does it affect renewal of your license.

We trust that the above provides you with the necessary information to identify the activity to which the fee is applicable.

DISTRIBUTION:

File  
RLeith, OC  
Lic. File No. STB-49  
WOMiller, SLR R (2)  
SLR R/F  
DR R/F

Sincerely,

Original Signed by  
Wm. O. Miller

*for* Eber R. Price, Director  
Division of State and  
Licensee Relations

Enclosures:

1. Notice to AEC Licensees on  
License Fees dtd 1/19/71
2. Invoice and Card

CRESS OFFICE ▶	SLR	SLR:DIR				
T18 SURNAME ▶	WOMiller:mlm	ERPrice				
(R)C1 DATE ▶	2/24/71	2/ /71				

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**MCDONNELL DOUGLAS**

**CORPORATION**

DATE: 9 Feb 71

TO: U. S. Atomic Energy Comm.  
Central Accounts Branch  
Washington D. C. 20545

NOTE: WE RESERVE THE RIGHT TO  
TAKE CASH DISCOUNT BASED  
ON DATE YOUR INVOICE IS  
RETURNED TO US.

ATTENTION: ACCOUNTS RECEIVABLE DEPARTMENT

( ☒ ) YOUR INVOICE NO. 41724-71  
41732-71 IS RETURNED TO YOU BECAUSE:

( ) INDICATE MCDONNELL UNIT OF MEASURE

( ) NEED COPY OF FREIGHT BILL

( ) IDENTIFY MCDONNELL PURCHASE ORDER ITEM NO.(S)

( ☒ ) OUR PURCHASE ORDER NUMBER IS OMITTED OR INCORRECT

( ) INVOICE COVERS MORE THAN ONE PURCHASE ORDER. PLEASE INVOICE SEPARATELY.

( ) NEED GOVERNMENT INSPECTORS SIGNATURE ON DD250.

( ) NON-COMPLIANCE WITH SPECIAL CONDITIONS, MAC 1703 PARA. 111.A.2. (NEED COPY DD250)

( ) ERROR IN YOUR COMPUTATION

( ☒ ) OTHER (EXPLAIN) no person ordering the service

( ) A COPY OF YOUR INVOICE NO. \_\_\_\_\_ IS FORWARDED TO YOU BECAUSE OF ERROR IN  
COMPUTATION.

1. ENCLOSURE (1) HAS BEEN CORRECTED AS INDICATED AND PLACED IN LINE FOR PAYMENT. PLEASE ADJUST YOUR RECORDS ACCORDINGLY.
2. IF THE ERROR WAS A RESULT OF INCORRECT QUANTITY SHIPPED, PLEASE REINVOICE FOR THE ADDITIONAL QUANTITY.

**MCDONNELL DOUGLAS**

D. J. Lauenstein

D. J. LAUENSTEIN  
SUPERVISOR, ACCOUNTS PAYABLE

9608 070275