

40-29

Office Memorandum • UNITED STATES GOVERNMENT

TO : ~~Security Director,~~
~~Director of 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. Dwyer, 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 a copy 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.

S. R. Sapirio

Enclosure:
Inspection Reports as Listed (in dup.)

A. Plant use & value at harvest

Attention: Mr. C. F. Peterson

3. Date of instruction

APR 21 1992

2. Type of inspection: ☐ Visual inspection ☐ Detailed inspection

4. 10 CFR Part(s) applicable:

200 1500 1000

2. *Life history studies*—based on examining direct effects and conditions (including environment)

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

0-00000 0-00000 0-00000

Licensee obligated to transfer possession of all items to five thousand (5,000) pounds of refined uranium dioxide containing up to 10 percent by weight of plutonium for use in the production of electric power.

Licenses. Licensee permits to plant at Portsmouth, New Hampshire, licensed to transfer and deliver possession of and title to refined source material to the power licensed by the AEC, within the limits of his license. Required to maintain records of inventories, receipts and transfers of refined source material. Licensee is subject in 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 40. Neither this license nor any right under this license shall be subject to termination or expiration hereafter in violation of the provisions of the Atomic Energy Act of 1954.

6. Injection: sodium fused calcium carbonate

[illegible]

7. Date of last previous inspection:

March 28, 1994

8. Is "Company Confidential" information contained in this report? Yes ☐ No ☒
(Specify page(s) and paragraph(s))

(Specify page(s) and paragraph(s))

DISTRIBUTION:

1997

Abstract

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

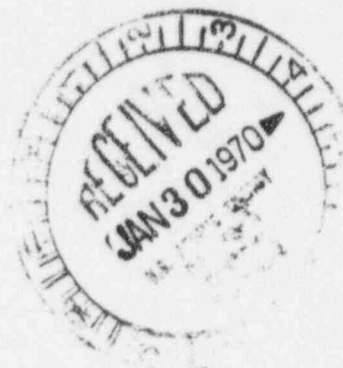
AEC-256-001

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

9608070/110

FEB 17 1970

DML:DPH
48-29

amend, 3

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

Attention: Mr. William L. Foster
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.

Licensee		3. License No. STB-49
1. Name McDonnell Douglas Corp.		4. Expiration Date February 28, 1975
2. Address P. O. Box 516 St. Louis, Missouri 63166		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.

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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:

Therium

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				

4608076269

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