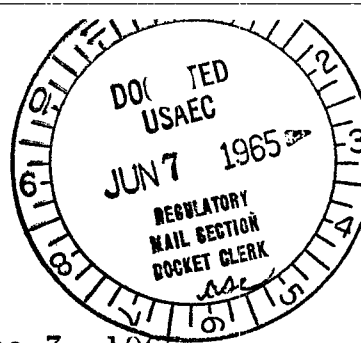


MARTIN COMPANY



NUCLEAR
DIVISION
Baltimore,
Maryland
21203

June 3, 1965

Refer to: ACC-402
Internal Mail No. 845

U. S. Atomic Energy Commission
Division of Material Licensing
Washington, D. C. 20545

DOCKET NO. 70-58

File Copy

Attention: Mr. Kenneth Lauterbach

Subject: Shipment of Excess Special Nuclear Material
from Martin Marietta Corporation (SNM-53)
to Uranium Reprocessing Facility

Reference: (a) Drop Test of Shipping Container Application
dated August 26, 1964
(b) Shoring Detail Application dated May 11, 1964

Gentlemen:

The Martin Marietta Corporation requests AEC approval for the shipment of excess special nuclear material inventory contained in solid and solution bearing material. We have attached a list of the containers, as presently packaged, which will comprise the shipment.

Solid type fuel is packaged in the Martin 55-gallon shipping container the integrity of which was defined in reference (a). Our nuclear safety analysis was performed in connection with our most recent license renewal application submitted January 28, 1965. Specific page references are Section IV-C1 through IV-C6.

Solutions are packaged in polyethylene lined 55-gallon drums which will be fixed during transit through use of shoring equal to that previously approved in connection with reference (b). The solutions have been analyzed and nuclear safety is based on an always safe mass of 350 gms U-235 per container.

Since AEC Oak Ridge Operations Office has just offered this fuel for commercial uranium recovery, the ultimate destination of the shipment is not known at this time. In any event however, shipment of all fuel listed on the attached list will be by exclusive use of van. It is planned that award of a reprocessing contract by AEC Oak Ridge will be made prior to June 30, 1965 and we will appreciate receiving approval by June 25, 1965.

AK87

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ACKNOWLEDGED

A DIVISION OF
MARTIN
MARIETTA 

Martin Company
Baltimore, Maryland

-2-

June 3, 1965
Refer to: ACC-402

Thank you for your cooperation in this matter.

Very truly yours,

MARTIN MARIETTA CORPORATION
MARTIN COMPANY, Nuclear Div.

C. W. Keller

C. W. Keller, Nuclear
Accountability & Licensing
Representative

/plm

U.S. ATOMIC ENERGY COMM.
REGULATORY
MAIL SECTION
1965 JUN 7 AM 11 04

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CONTAINER IDENTIFICATION

Container Identity	Material	Q-1	Q-2
MSL-6	H ₂ O ₂ Acid Solution	81	82
MSL-7	H ₂ O + HNO ₃ Solution	123	113
MSL-8	H ₂ O + HNO ₃ Solution	17	18
MSL-9	H ₂ O + HNO ₃ Solution	21	20
MSL-10	H ₂ SO ₄ + HNO ₃ + Hal Solution	100	101
MSL-11	Perchloric Acid	219	201
MSL-12	H ₂ O + HNO ₃ Solution	25	23
MSL-13	H ₂ O + HNO ₃ Solution	246	230
MSL-14	H ₂ O Solution	59	51
MSL-15	H ₂ O + HNO ₃ + H ₂ SO ₄ Solution	50	47
MSL-16	H ₂ O Solution	37	39
MSL-17	H ₂ O Solution	4	4
MSL-18	H ₂ O Solution	306	285
MSL-19	HNO ₃ Solution	19	17
MS-25	Old MSPP Element	1138	1100
MS-26	(GSI) Met. Samples	970	968
MS-28	Miscellaneous Samples	1091	1090
MS-31	Scrap Ball (19) Scrap Fuel Tubes	1131	1051
MS-34	Scrap Fuel Tubes	1082	1037
MS-35	Scrap Tubes & Samples	1010	1000
MS-36	Scrap Tubes Bottle	1123	1046
MS-37	Scrap from R-136	451	417
MS-38	Scrap Coated UO ₂	1559	1543
MS-39	Coated UO ₂ with 20% U ₂ O ₃	2010	2081
MS-34	Coated Scrap	1122	1109
MS-40	Coated UO ₂ Scrap	120	175
MS-40	Scrap UO ₂	1543	1551
MS-41	Scrap UO ₂	1543	1554
MS-42	Scrap UO ₂	1559	1599
MS-43	Scrap UO ₂	1551	1557
MS-44	Scrap UO ₂	1551	1551
MS-45	Scrap UO ₂ with 20% U ₂ O ₃	2135	2131
MS-46	Scrap UO ₂ with 20% U ₂ O ₃	144	1374
MS-47	Scrap UO ₂ with 20% U ₂ O ₃	1551	1551

Part Number	Description	Weight	Quantity
MS-1	Enriched UO_2 Fuel	810	122
MS-2	Enriched UO_2 Fuel	840	122
MS-3	Enriched UO_2 Fuel	881	122
MS-4	Enriched UO_2 Fuel	910	122
MS-5	Enriched UO_2 Fuel	940	122
MS-6	Enriched UO_2 Fuel	970	122
MS-7	Enriched UO_2 Fuel	1000	122
MS-81	Enriched UO_2 Fuel Tubes	1070	1004
MS-82	Enriched UO_2 Fuel Tubes	1081	1007
MS-83	Enriched UO_2 Fuel Tubes	1039	969
MS-84	Enriched UO_2 Fuel Tubes	1078	1004
MS-85	Enriched UO_2 Fuel Tubes	1040	969
MS-86	Enriched UO_2 Fuel Tubes	1433	1334
MS-87	Enriched UO_2 Fuel Tube	553	515