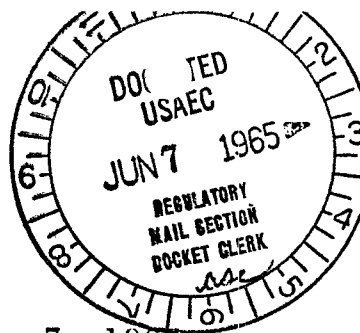


MARTIN COMPANY



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 (SNN-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.

AKR

ACKNOWLEDGED

A DIVISION OF
MARTIN
MARIETTA

1979



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

RECEIVED

CONTAINER AND CONTENTS

Container Identity	Material	QTY	Q-NO
M5L-6	H ₂ O ₂ Acid Solution	81	87
M5L-7	H ₂ O + HNO ₃ Solution	127	113
M5L-8	H ₂ O + HNO ₃ Solution	17	18
M5L-9	H ₂ O + HNO ₃ Solution	21	20
M5L-10	H ₂ SO ₄ + HNO ₃ + HCl Solution	100	101
M5L-11	Perchloric Acid	219	201
M5L-12	H ₂ O + HNO ₃ Solution	20	23
M5L-13	H ₂ O + HNO ₃ Solution	246	230
M5L-14	H ₂ O Solution	59	51
M5L-15	H ₂ O + HNO ₃ + H ₂ SO ₄ Solution	50	47
M5L-16	H ₂ O Solution	37	39
M5L-17	H ₂ O Solution	4	4
M5L-18	H ₂ O Solution	300	285
M5L-19	HNO ₃ Solution	19	27
M5-25	Old MSPP Element	1199	1100
M5-26	(GSI) Met. Samples	970	905
M5-28	Miscellaneous Samples	1090	1090
M5-31	From B-111 (19) Core Fuel Tubes	1131	1051
M5-32	Scrap Fuel Tubes	1322	1057
M5-33	Scrap Tubes & Components	1414	1000
M5-34	Scrap Tubes Bottle	1123	1046
M5-35	Scrap from R-120	451	417
M5-36	Scrap Coated UO ₂	1259	1543
M5-37	Coated UO ₂ with 20% U ₂ O ₈	2210	2080
M5-38	Coated Scrap	1322	1109
M5-39	Coated UO ₂ Scrap	120	375
M5-40	Scrap UO ₂	2243	1891
M5-41	Scrap UO ₂	1410	1004
M5-42	Scrap UO ₂	1239	1298
M5-43	Scrap UO ₂	1201	1057
M5-44	Scrap UO ₂	121	1011
M5-45	Scrap UO ₂ with 20% U ₂ O ₈	2125	1731
M5-46	Scrap UO ₂ with 20% U ₂ O ₈	140	1312
M5-47	Scrap UO ₂ with 20% U ₂ O ₈	15	1012

Item No.	Description	Quantity	Weight
MS-1	Enriched UO_2 Pellets	800	128
MS-2	Enriched UO_2 Pellets	800	128
MS-3	Enriched UO_2 Pellets	801	128
MS-4	Enriched UO_2 Pellets	800	128
MS-5	Enriched UO_2 Pellets	800	128
MS-6	Enriched UO_2 Pellets	800	128
MS-51	Enriched UO_2 Fuel Tubes	1070	1004
MS-52	Enriched UO_2 Fuel Tubes	1081	1007
MS-53	Enriched UO_2 Fuel Tubes	1039	969
MS-54	Enriched UO_2 Fuel Tubes	1078	1004
MS-55	Enriched UO_2 Fuel Tubes	1040	969
MS-56	Enriched UO_2 Fuel Tubes	1433	1334
MS-57	Enriched UO_2 Fuel Tube	553	515