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 polyethlene 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.

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ACKNOWLEDGED

A DIVISION OF MARTIN MARIETTA

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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

[illegible]

Container Identity	Material	[illegible]	[illegible]
MGL-6	H_2O+ Acid Solution	81	57
MGL-7	H_2O + HNO_3 Solution	[illegible]	113
MGL-8	H_2O + HNO_3 Solution	[illegible]	18
MGL-9	H_2O + HNO_3 Solution	21	20
MGL-10	H_2SO_4 + HNO_3 + HCl Solution	100	101
MGL-11	Perchloric Acid	219	203
MGL-12	H_2O + HNO_3 Solution	24	23
MGL-13	H_2O + HNO_3 Solution	246	230
MGL-14	H_2O Solution	59	53
MGL-15	H_2O + HNO_3 + H_2SO_4 Solution	50	47
MGL-16	H_2O Solution	31	29
MGL-17	H_2O Solution	4	4
MGL-18	H_2O Solution	306	285
MGL-19	HNO_3 Solution	[illegible]	[illegible]
MB-28	Old MSPP Element	1199	1160
MB-29	(321) Mat. Samples	970	903
MB-30	Miscellaneous Samples	1091	1097
MB-31	From B-111 (19) Loose Fuel Tubes	1131	1054
MB-32	Scrap Fuel Tubes	1082	1037
MB-33	Scrap Tubes & Samples	[illegible]	[illegible]
MB-34	Scrap Tubes Pellets	1193	1040
MB-35	Samples From B-111	451	417
MB-36	Scrap Coated UO_2	1519	1543
MB-37	Coated UO_2 [illegible]	2110	2050
MB-38	Coated Scrap	1158	1109
MB-39	Coated UO_2 Scrap	120	070
MB-40	Sugar UO_2	[illegible]	1861
MB-41	Sugar UO_2	[illegible]	1704
MB-42	Sugar UO_2	[illegible]	1799
MB-43	Sugar UO_2	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

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[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] UO_2 [illegible]	[illegible]	[illegible]
[illegible] 2	[illegible] UO_2 [illegible]	[illegible]	[illegible]
[illegible]	[illegible] UO_2 [illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] UO_2 [illegible]	[illegible]	[illegible]
[illegible]	Enriched UO_2 Fuel Tubes	1075	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	1006
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	513