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MARTIN MARIETTA CORPORATION

AEROSPACE HEADQUARTERS, FRIENDSHIP INTERNATIONAL AIRPORT, MARYLAND 21240

June 11, 1969

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

Attention: Dr. J. A. McBride, Director
Division of Material Licensing

Gentlemen:

Re: Request for Release for Public Use of a Facility Formerly Used for Nuclear Activities by the Martin Marietta Corporation

Isotopes' Nuclear Systems Division has recently completed decontamination of the Martin Marietta Corporation Radiochemistry Laboratory ("KJ" Building). This building was formerly used by Martin Marietta for those activities previously authorized under AEC Byproduct Material License Nos. 19-1398-32 and 19-1398-33.

The resultant radioactive wastes have been packaged preparatory to shipment to an authorized disposal site, and the results of the final radiological survey conducted by the Isotopes' health physics staff are transmitted herewith for your information.

Review of the attached survey data indicates that the proposed AEC guides governing the abandonment of nuclear facilities have been met, therefore, the Martin Marietta Corporation hereby requests release of the subject building for future public use.

We would appreciate receiving approval of this request at your earliest convenience. Please contact me directly on 301/761-5200, extension 340 if I can be of assistance in this matter.

Sincerely,

Ross G. Macaulay
Director - Contracts

att.

A1262

"KJ" BUILDING SMEAR SURVEY DATA

The smears were counted in an NMC thin-window gas flow proportional counter. The average alpha background was 1 cpm whereas the average beta-gamma background was 53 cpm. This counting system exhibits 30% efficiency when used for U^{235} alphas and 45% efficiency when used for counting Sr^{90} betas. The results of the smear survey are as follows:

Location*	Smear Number	D/M/100 CM^2	
		α	$\beta\gamma$
Chemistry Lab.	1	< 50	145
Floor	2	< 50	64
Floor	3	< 50	< 50
Floor	4	< 50	468
Floor	5	< 50	280
Floor	6	< 50	< 50
Floor	7	< 50	84
Exhaust Hood	8	< 50	< 50
Exhaust Hood	9	< 50	< 50
Exhaust Hood	10	< 50	108
Exhaust Hood	11	< 50	< 50
Exhaust Hood	12	< 50	< 50
Exhaust Hood	13	< 50	< 50
Floor	14	< 50	< 50
Floor	15	< 50	< 50
Floor	16	< 50	< 50
Floor	17	< 50	240

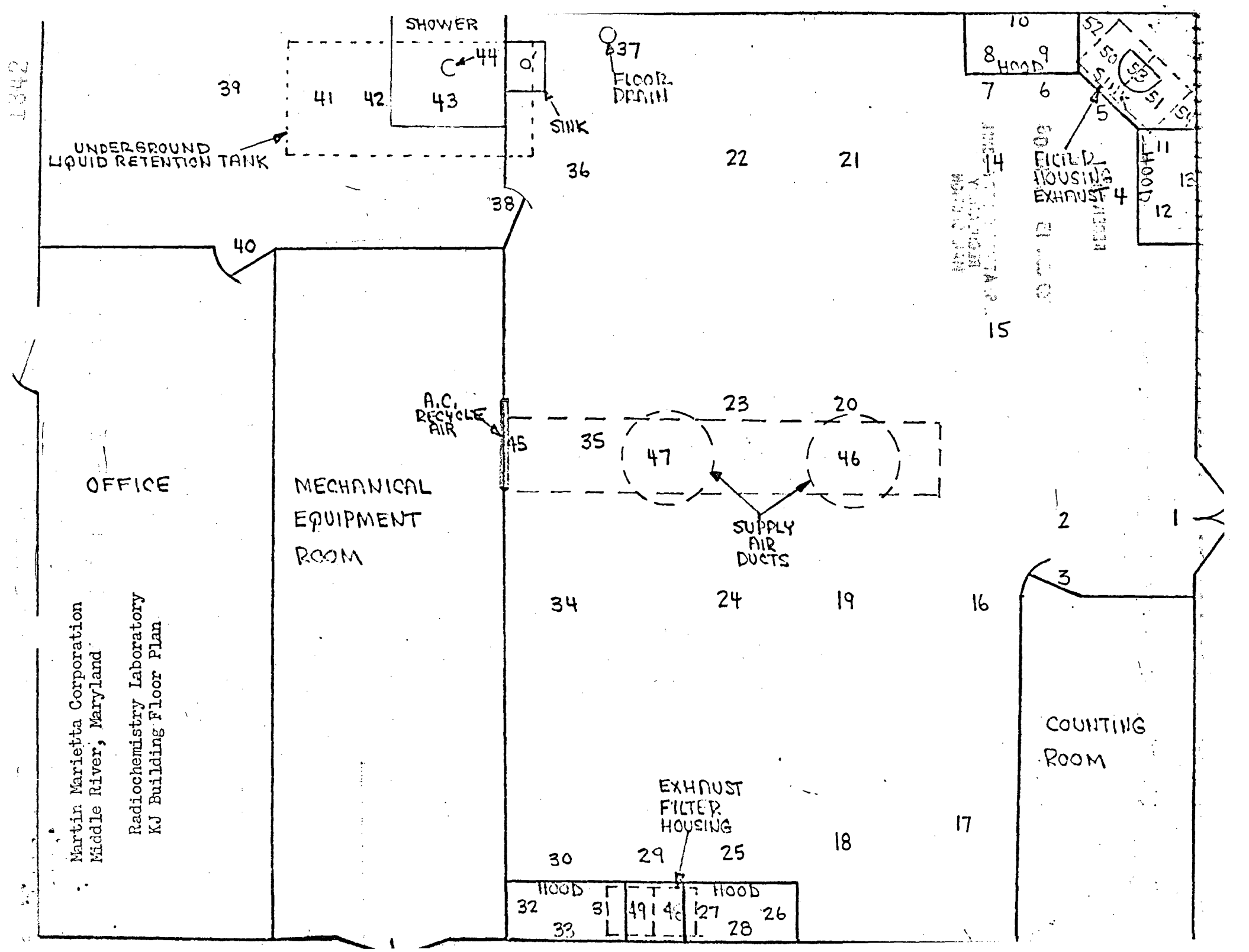
Location *	Smear Number	D/M/100 CM^2 α	D/M/100 CM^2 $B\gamma$
Floor	18	< 50	120
Floor	19	< 50	120
Floor	20	< 50	< 50
Floor	21	< 50	< 50
Floor	22	< 50	< 50
Floor	23	< 50	< 50
Floor	24	< 50	60
Floor	25	< 50	240
Exhaust Hood	26	< 50	48
Exhaust Hood	27	< 50	< 50
Exhaust Hood	28	< 50	< 50
Floor	29	< 50	60
Floor	30	< 50	< 50
Exhaust Hood	31	< 50	240
Exhaust Hood	32	< 50	96
Exhaust Hood	33	< 50	240
Floor	34	< 50	< 50
Floor	35	< 50	< 50
Floor	36	< 50	120
Floor	37	< 50	< 50
Floor	38	< 50	< 50
Floor	39	< 50	252
Floor	40	< 50	< 50
Liquid Waste Hold Tank	41	< 50	< 50

Location*	Smear Number	D/M/100 CM^2 α	D/M/100 CM^2 $B\gamma$
Liquid Waste Hold Tank	42	< 50	< 50
Liquid Waste Hold Tank	43	< 50	< 50
Shower Base	44	< 50	< 50
A. C. Duct	45	< 50	< 50
Anemostat	46	< 50	< 50
Anemostat	47	< 50	< 50
Filter Box	48	< 50	< 50
Filter Box	49	< 50	684
Filter Box	50	< 50	420
Filter Box	51	< 50	672
Sink, S.E. Corner	52	< 50	180
Sink, S.E. Corner	53	< 50	< 50
Sink, S.E. Corner	54	< 50	< 50

* Refer to "KJ" Building floor plan for better orientation.

"KJ" BUILDING INSTRUMENT SURVEY DATA

Fixed contamination-radiation levels were measured employing a modified Eberline PAC-3G adjusted to measure alpha-beta-gamma radiations. Survey of the areas depicted on the "KJ" Building floor plan indicated radiation levels below 0.2 Mrads/hour. The instrument used was standardized employing a Ra^{226} calibration source.


SHOWER
44
37
FLOOR DRAIN
39
41
42
43
SINK
UNDERGROUND LIQUID RETENTION TANK
36
22
21
38
40
10
8
HOOD
9
7
6
5
52
50
SINK
53
51
49
14
FILTER HOUSING EXHAUST
4
11
HOOD
13
12
15
A.C. RECYCLE AIR
45
35
23
20
47
46
OFFICE
MECHANICAL EQUIPMENT ROOM
SUPPLY AIR DUCTS
2
1
3
34
24
19
16
COUNTING ROOM
EXHAUST FILTER HOUSING
30
29
25
18
17
HOOD
32
31
33
HOOD
27
26
28
Martin Marietta Corporation
Middle River, Maryland
Radiochemistry Laboratory
KJ Building Floor Plan