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A TELEDYNE COMPANY

ISOTOPES
NUCLEAR SYSTEMS DIVISION
EASTERN BLVD AT MARTIN BLVD N. E.
P. O. BOX 4937
MIDDLE RIVER, MARYLAND 21220
(301) 682-5800 TWX (710) 239-9037

17 June 1969

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

Attention: Mr. Robert E. Brinkman
Subject: Abandonment of a Facility Formerly Used
for Nuclear Activities

Gentlemen:

Isotopes' Nuclear Systems Division has recently completed decontamination of the Martin Marietta Corporation's Radiochemistry Laboratory ("KJ" Building). This building was formerly used for those activities previously authorized under AEC Byproduct Material License No. 19-1398-33. Since we have no immediate need for this facility, we plan to relinquish control of the building so that it can be used by Martin Marietta for general use.

The resultant radioactive wastes have been packaged preparatory to shipment to an authorized disposal site and the results of the final radiological survey 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, Isotopes, a Teledyne Company, hereby requests release of the subject facility for future public use. Please note that the request contained herein does not involve any change in the currently authorized uses described in Isotopes' AEC Byproduct Material License No. 19-1398-33.

We would appreciate receiving approval of this request at your earliest convenience. Please contact me directly on (301) 682-5800, Ext. 2513 or 7817 if I can be of further assistance in this matter.

Very truly yours,

Peter J. Knapp
Licensing and Accountability
Representative

/ak

cc: R. G. Macaulay (Martin Marietta)
Attachments (3)

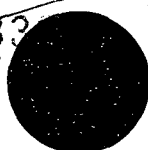
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"KJ" BUILDING SMEAR SURVEY DATA

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 U²³⁵ alphas and 45% efficiency when used for counting Sr⁹⁰ betas. The results of the smear survey are as follows:

<u>Location</u> *	<u>Smear Number</u>	<u>D/M/100 CM²</u>	
		<u>α</u>	<u>βγ</u>
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

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Location *	Smear Number	D/M/100 CM ²	
		α	B γ
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

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Location *	Smear Number	D/M/100 CM ²	
		α	B γ
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 Ra²²⁶ calibration source.

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UNDERGROUND LIQUID RETENTION TANK

FLOOR DRAIN

SINK

FILTER HOUSING EXHAUST

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OFFICE

MECHANICAL EQUIPMENT ROOM

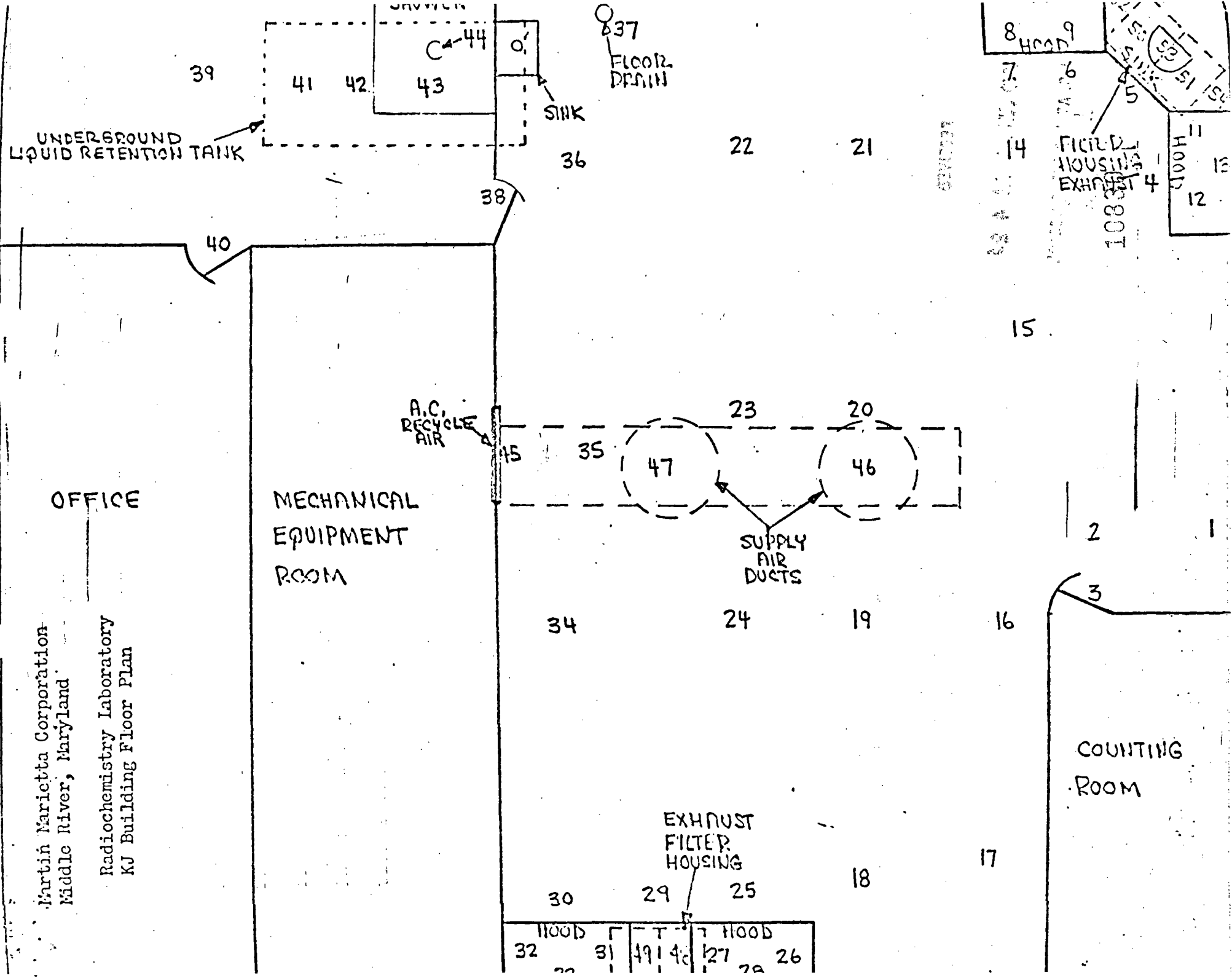
A.C. RECYCLE AIR

SUPPLY AIR DUCTS

COUNTING ROOM

EXHAUST FILTER HOUSING

Martin Marietta Corporation
Middle River, Maryland
Radiochemistry Laboratory
KJ Building Floor Plan



32	HOOD	31	30	29	28	HOOD	27	26
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