Internal Letter

Rockwell International

Date May 10, 1976

No

TO W. F. Heine
Address 713, 071-NB02

FROM L. Johnson
Address 779, 071-TI43

Phone 6503

Subject Final Radiation Survey - Building T-028

A final radiation survey has been conducted at the T-028 complex, to include all interior spaces and external areas (Figure 1), with the Technical Associates PUG-1 and Eberline E-510 with the 7 mg/cm^2 absorber probe. A final radiation survey summary is attached and the maximum radiation level detected with the 7 mg/cm^2 absorber probe was 0.08 mrad/hr at 1 cm. (General background was 0.02-0.04 mr/hr.) The maximum removable contamination level is 0 dpm/100cm^2 α and $<$60 dpm/100 cm^2 β - γ.

The T-028 complex is hereby certified to be clean of all contamination and activation as set forth by D&D Program Document SRR-704-900-001 of December 9, 1974, Revision B and released for unrestricted use.

RJ Tuttle for
L. Johnson
Radiation and Nuclear Safety

nht:1/2

Enclosures

cc w/o enclosures:

J. M. Harris TO34
W. R. McCurnin TO20

cc w/enclosures:

L. Johnson TI43
R. K. Owen TI43
R. J. Tuttle NB13
B. F. Ureda NB02

T-028 STIR

FINAL RADIOLOGICAL SURVEY SUMMARY

LOCATION		SURVEY TYPE	TOTAL SMEARS	MAXIMUM REMOVABLE CONTAMINATION LEVEL	MAXIMUM RADIATION LEVEL
1.	Office Area	A&B	250	0 dpm/100 cm^2 α <30 dpm/100 cm^2 β-γ	0.04 mrad/hr[a]
2.	Control Room	A&B	270	0 dpm/100 cm^2 α <30 dpm/100 cm^2 β-γ	0.04 mrad/hr[a]
3.	Change Room	A&B	160	0 dpm/100 cm^2 α <30 dpm/100 cm^2 β-γ	0.04 mrad/hr[a]
4.	Darkroom	A&B	120	0 dpm/100 cm^2 α <30 dpm/100 cm^2 β-γ	0.03 mrad/hr[a]
5.	Laboratory	A&B	265	0 dpm/100 cm^2 α <30 dpm/100 cm^2 β-γ	0.04 mrad/hr[a]
6.	Reactor Room	A&B	280	0 dpm/100 cm^2 α <60 dpm/100 cm^2 β-γ	0.04 mrad/hr[a]
7.	Stairway & Tunnel	A&B	95	0 dpm/100 cm^2 α <30 dpm/100 cm^2 β-γ	0.04 mrad/hr[a]
8.	Test Vault	A&B	760	0 dpm/100 cm^2 α <50 dpm/100 cm^2 β-γ	0.07 mrad/hr[a]
9.	Exhaust System	A&B	100	0 dpm/100 cm^2 α <30 dpm/100 cm^2 β-γ	0.04 mrad/hr[a]
10.	Cooling System Area	B			0.04 mrad/hr[a]
111	Blacktop Surfaces	B			0.04 mrad/hr[a]
12.	Stairway	B			0.08 mrad/hr[a]
13,	Reactor Cavity & Thermal Column	C	23.7 ± 2.6 ρCi/gm Beta (Soil) 19.0 ρCi/gm Beta (Concrete)		

A-Smear
B-Survey Meter (PUG-1)
C-Radiometric-BETA(LB)
a-Total radiation reading with E-510 and 7 mg/cm^2 absorber probe

NOTE: General background level - 0.02-0.04 mrad/hr

T-028 STIR

INTERNAL AND EXTERNAL SURVEY

LOCATIONS

TABLE 1

mrad/hr.

1.	0.03	21.	0.06	41.	0.04	61.	0.03
2.	0.03	22.	0.05	42.	0.04	62.	0.03
3.	0.03	23.	0.05	43.	0.04	63.	0.03
4.	0.02	24.	0.04	44.	0.04	64.	0.04
5.	0.02	25.	0.04	45.	0.04	65.	0.04
6.	0.02	26.	0.04	46.	0.03	66.	0.04
7.	0.02	27.	0.04	47.	0.03	67.	0.04
8.	0.02	28.	0.04	48.	0.03	68.	0.03
9.	0.02	29.	0.04	49.	0.03	69.	0.03
10.	0.02	30.	0.03	50.	0.04	70.	0.04
11.	0.03	31.	0.04	51.	0.04	71.	0.04
12.	0.03	32.	0.04	52.	0.04	72.	0.04
13.	0.03	33.	0.03	53.	0.03	73.	0.04
14.	0.02	34.	0.03	54.	0.03	74.	0.04
15.	0.02	35.	0.03	55.	0.04	75.	0.04
16.	0.03	36.	0.03	56.	0.04	76.	0.04
17.	0.03	37.	0.03	57.	0.04	77.	0.04
18.	0.04	38.	0.03	58.	0.04	78.	0.03
19.	0.04	39.	0.03	59.	0.03	79.	0.04
20.	0.08	40.	0.04	60.	0.03	80.	0.04

NOTE: Background - 0.02 - 0.04 mrad/hr.

TABLE 2

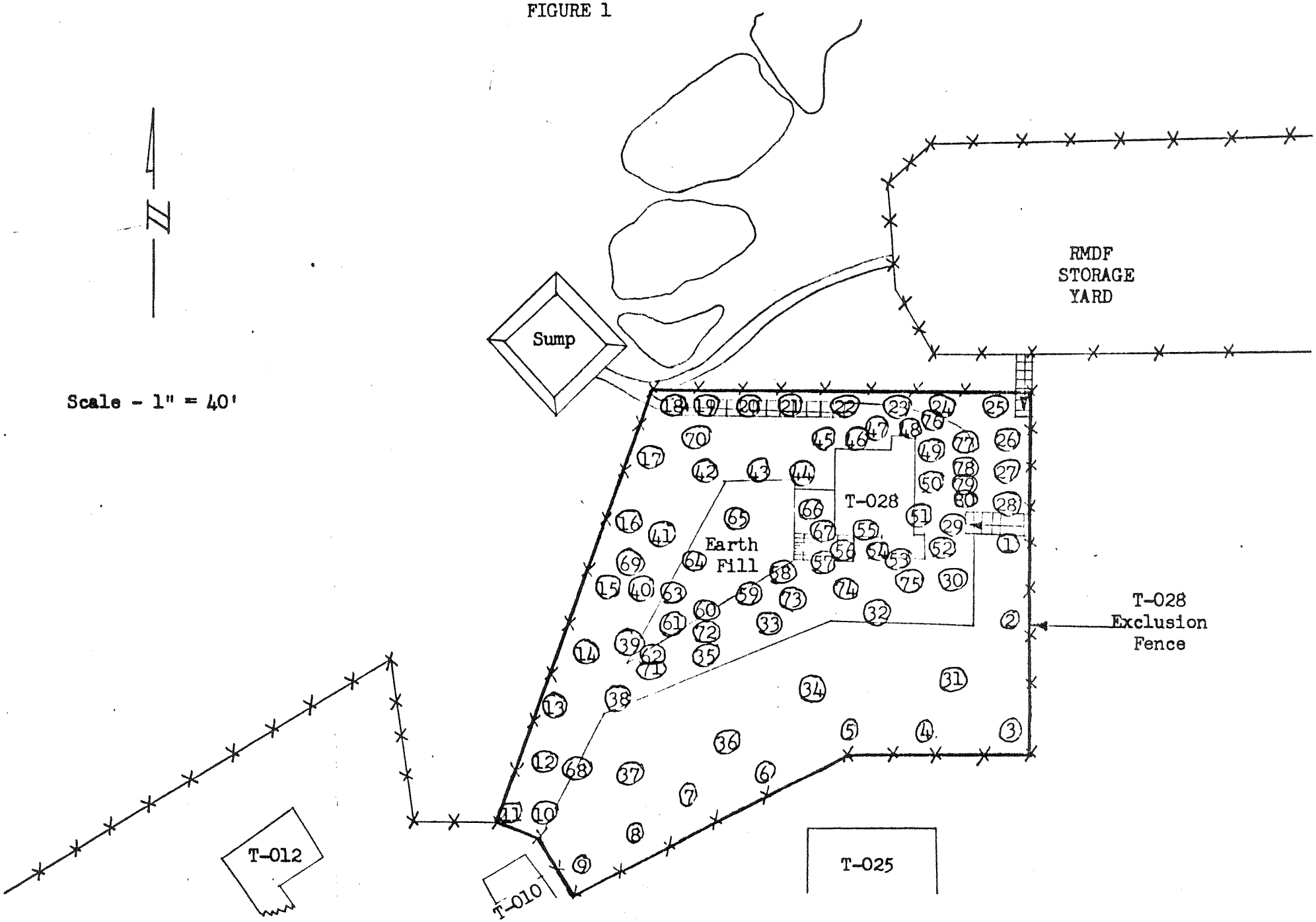
mrad/hr.

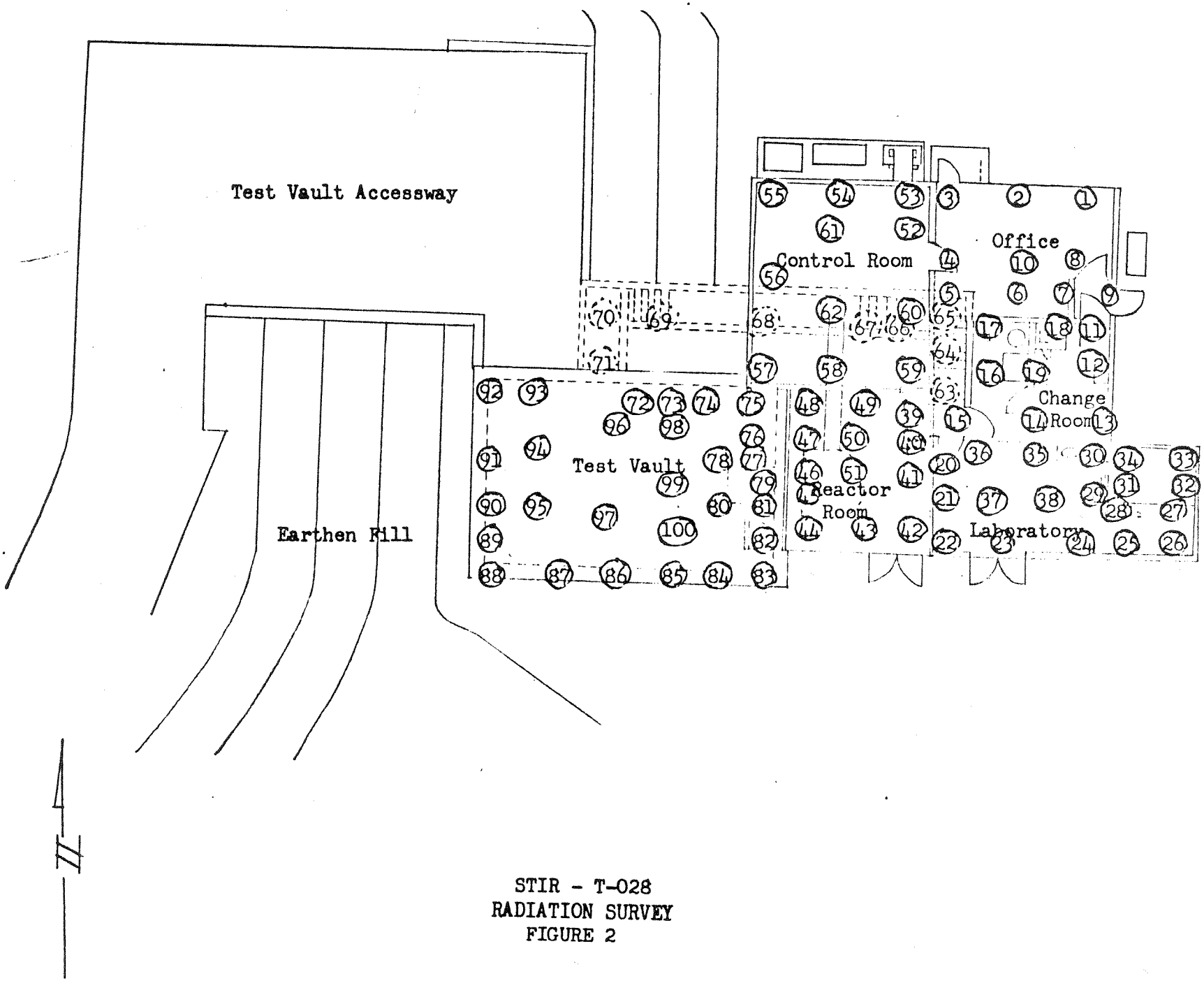
1.	0.03	17.	0.03	33.	0.03	49.	0.03	65.	0.03
2.	0.04	18.	0.04	34.	0.03	50.	0.03	66.	0.04
3.	0.03	19.	0.04	35.	0.03	51.	0.03	67.	0.04
4.	0.03	20.	0.04	36.	0.03	52.	0.04	68.	0.04
5.	0.04	21.	0.03	37.	0.03	53.	0.03	69.	0.03
6.	0.03	22.	0.03	38.	0.03	54.	0.03	70.	0.03
7.	0.04	23.	0.03	39.	0.03	55.	0.04	71.	0.03
8.	0.03	24.	0.04	40.	0.04	56.	0.04	72.	0.04
9.	0.03	25.	0.04	41.	0.03	57.	0.04	73.	0.04
10.	0.04	26.	0.04	42.	0.03	58.	0.03	75.	0.04
11.	0.03	27.	0.04	43.	0.03	59.	0.03	76.	0.04
12.	0.03	28.	0.03	44.	0.03	60.	0.03	77.	0.07
13.	0.04	29.	0.04	45.	0.04	61.	0.04	78.	0.05
14.	0.04	30.	0.04	46.	0.04	62.	0.04	79.	0.04
15.	0.04	31.	0.03	47.	0.03	63.	0.03	80.	0.05
16.	0.04	32.	0.03	48.	0.03	64.	0.03	81.	0.07

82.	0.04	92.	0.04
83.	0.04	93.	0.04
84.	0.04	94.	0.04
85.	0.04	95.	0.04
86.	0.04	96.	0.04
87.	0.04	97.	0.04
88.	0.04	98.	0.04
89.	0.04	99.	0.04
90.	0.04	100.	0.04
91.	0.04		

NOTE: Background - 0.03 - 0.04 mrad/hr.

STIR - T-028
RADIATION SURVEY
FIGURE 1





STIR - T-028
RADIATION SURVEY
FIGURE 2