

Atomic Energy
of Canada Limited

L'Énergie Atomique
du Canada, Limitée

Commercial Products

Produits Commerciaux

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21

1105

1981 June 3

Mr. Paul R. Guinn
License Management Branch
Division of Fuel Cycle and Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C.
20555

JUN 12 AM 9 38

Subject: Radiation Survey Report as per condition 16 of USNRC
Lic. No. 54-00300-09, Category IV Irradiator

Dear Mr. Quinn,

Please find enclosed a copy of a Radiation Survey
performed May 26, 1981 as follows:

Site: Becton-Dickinson
Division of Becton-Dickinson and Company
Route 7 and Graceway
Canaan, Conn.
06018

Type Of Work: Rearrangement of source plaque.

Total Activity Remaining in IR-21 Irradiator:

1,307,273 - in source plaque
35,946 - in cage, stored at bottom of pool.

Authorized Technician - Gary Leeson

Yours very truly

M.L. McIndoo

M.L. McIndoo
Physics Department
Industrial Engineering & Service

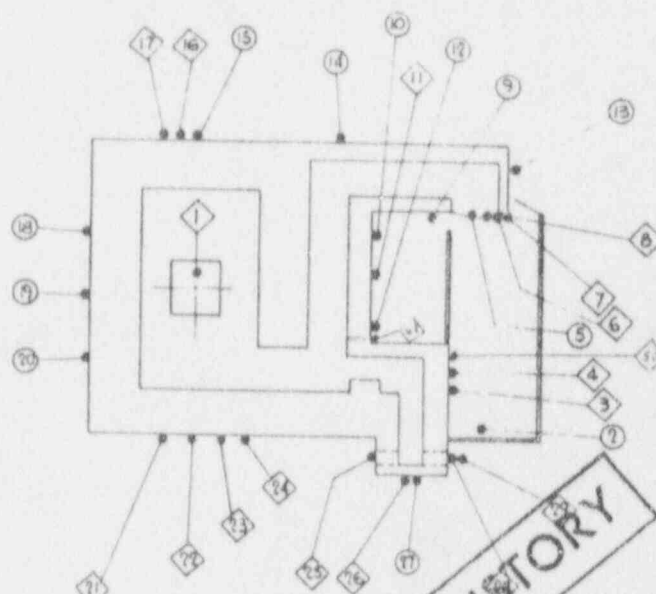
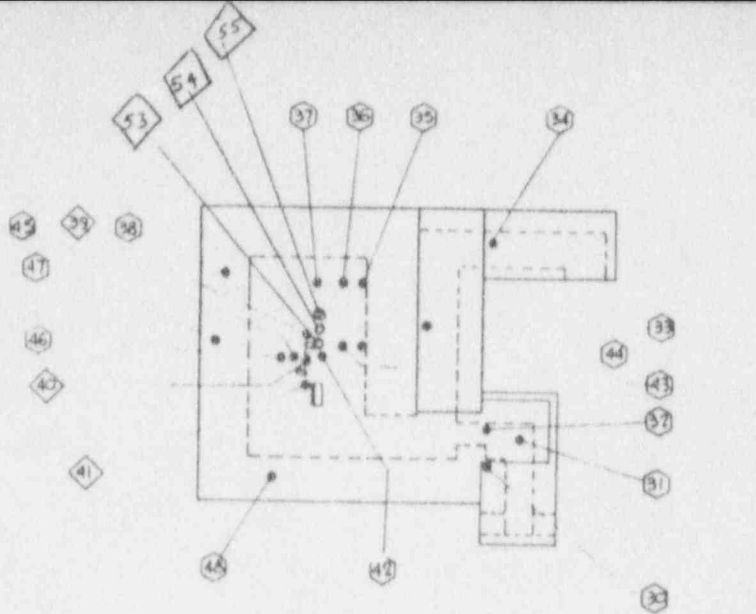
/dc
Encl.

cc: Dr. John Glen
U.S. Nuclear Regulatory Commission
Region 1
631 Park Avenue
King of Prussia, Pennsylvania
19406

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INSPECTION AND ENFORCEMENT

A-3

9403220223 930527
PDR FOIA
RAMSDEL93-176 PDR



FOR UNIT HISTORY

- AT 1m ABOVE FLOOR
- AT FLOOR OR ON ROOF
- ◇ ON NAMED FEATURE (SURVEYOR TO ADD AS NECESSARY)

MAXIMUM RADIATION DESIGN LEAKAGE SO THAT NO ONE SHALL RECEIVE MORE THAN 10 mrem IN A 40 HOUR WORK WEEK WITH 1.5×10^6 CURIES OF COBALT-60 INSTALLED

OCCUPANCY HOURS/WEEK	DOSE RATE IN mrem/h IN AREA	
	MAXIMUM	AVERAGE
40	2.0	0.25

SURVEY PERFORMED BY G. SEESAN
DATE MAY 26/81

SURVEY INSTRUMENT MODEL BXTR-RATO-F
SERIAL NO 37352L CALIBRATION DATE 81-370
SOURCE CONTENT 1499140 CURIES
ON DATE 80-8-1

ATOMIC ENERGY OF CANADA LIMITED
OTTAWA COMMERCIAL PRODUCTS CANADA

RADIATION SURVEY REPORT
AFTER SOURCE INSTALLATION NO 5
IN IR 21 BECTION - DICKINSON
CANAAN

HEADINGS LESS THAN 1000 SHOWN THUS

NO	HEADING	REMARKS
1	#	POOL SURFACE
2	0.3	CONSOLE
3	0.6	LOCAL SPOT
4	0.6	LOCAL SPOT
5	0.1	THROUGH DOOR
6	0.45	CRACK OVER DOOR
7	2.0	CRACK UNDER DOOR
8	1.2	DOOR SIDE CRACK
9	0.05	
10	0.05	DUCT
11	0.23	NEAR TOP OF WALL
12	0.0000	
13	0.0000	
14	0.03	
15	0.06	
16	4.5	BEHIND CINDER
17	3.3	BEHIND CINDER
18	*	
19	*	
20	*	
21	0.04	
22	0.2	
23	0.15	
24	0.2	
25	10.0	MAX AT DISCHARGE
26	0.35	PORT AT CONVEYER
27	0.15	
28	0.2	MAX AT ENTRY
29	1.3	PNEUM. CYLINDER
30	*	
31	0.2	
32	0.3	
33	0.3	
34	0.05	
35	*	
36	*	
37	*	
38	0.05	
39	2.8	GUIDE CABLE
40	3.0	HOIST CABLE
41	3.0	GUIDE CABLE
42	4.0	
43	2.0	
44	0.6	
45	4.0	
46	4.5	
47	0.05	
48	0.05	
49	1.8	TRENCH
50	*	PIPING AND HOIST
51		CENTRAL ROOM
52		
53	2.5	ALUMINUM PLUG
54	1.8	
55	2.0	
56		
57		
58		
59		
60		

NOTE:
ROOF (POSITION 30-48)
IS A RESTRICTED AREA