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FACSIMILE

April 10, 1996

From: F.J. Homan

To: Gary Riner (fax: 6-5333)

Subject: Radiological Survey for MVST Pipe Tunnel

Attached.

These are the data Chris Scott referred to at the February workshop. As indicated, the surveys were taken on September 25, 1995. The first page indicates gamma readings taken at the locations shown. The second page shows smear data taken at the 14 locations in the pipe tunnel labeled on the diagram on the first page. The smear data are in D/M (disintegrations per minute) unless labeled otherwise.

As shown, the highest radiation levels are in the center of the diagram, in contact with the pipes (about 5 R/h).

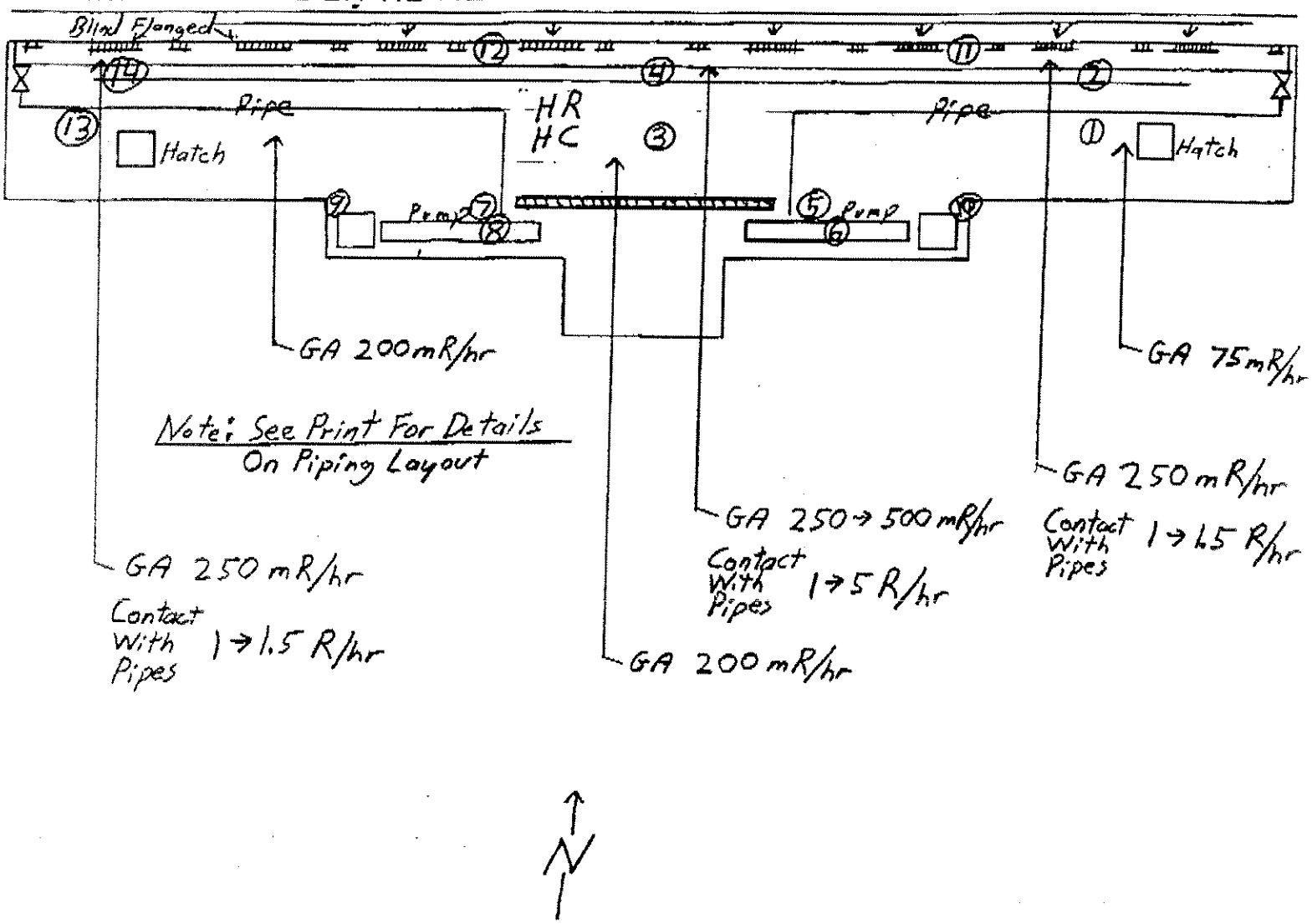
ORNL RADIOLOGICAL SURVEY

BLDG 7830 Pipe Tunnel	RCT DR Anderson	DATE 9-25-95

INSTRUMENTS CTA-060 CTB-064 2652-28B 2652-20P 2652-14I

TYPE OF SURVEY: ROUTINE ☐ SPECIAL ☑ RWP# HAZWL-95-0036

COMPLEX LEADER REVIEW



(#) - Smear Location	Boundary Designations	
(#)∧∨(#) - Large Area Smear	RA - Radiation Area	BA - Radiological Buffer Area
# - Contact Dose Rate	HR - High Radiation Area	CA - Contamination Area
# - 30 cm Dose Rate	VR - Very High Radiation Area	HC - High Contamination Area
# - General Area Dose Rate	AR - Airborne Radioactivity Area	FC - Fixed Contamination Area
SOP - Step-off Pad	RM - Radioactive Materials Area	SC - Soil Contamination Area
AS - Air Sample Location	UM - Underground Radioactive Material Area	

Default units are in mR/hr and are for open window beta/gamma readings. Letter suffixes with the number indicate specific radiations: B - Beta(mRad/hr), G - Gamma(mR/hr), N - Neutron(mRem/hr) Boundary designations are looking in the direction the arrow points.

NAME (HP&S)	PHONE	BLDG. NO. (HP&S)	LOCATION (SMEARS TAKEN)	DATE
DR Anderson	6-7603	3105	7830 Pipe Tunnel	9-25-95

SMEARS NUMBERED:	RESULTS REQUIRED:	DATE COUNTED	COUNTER OPERATOR
From 1 To 14	Date Time	9-25-95	ORA

GIVE D/M ONLY ON SMEARS OVER:
20 d/m α
200 d/m β

REMARKS:
CTA-060 2652-28B
CTB-064 2652-20P 2652-14I

	α	β	LOCATION (*)		α	β	LOCATION (*)		α	β	LOCATION (*)
1	<20	10mR	Floor E. End	34				67			
2	<20	4000	Pipes E. End	35				68			
3	<20	4mR	Floor Midway	36				69			
4	<20	150,000	Pipes Midway	37				70			
5	<20	400,000	Pump Rm Floor	38				71			
6	<20	450	Pump	39				72			
7	<20	400,000	Pump Rm Floor	40				73			
8	<20	500	Pump	41				74			
9	<20	300	Pump Rm Walls	42				75			
10	<20	350	Pump Rm Walls	43				76			
11	<20	300	Tunnel Walls	44				77			
12	<20	300	Tunnel Walls	45				78			
13	<20	15mR	Floor W End	46				79			
14	<20	40,000	Pipes W End	47				80			
15				48				81			
16				49				82			
17				50				83			
18				51				84			
19				52				85			
20				53				86			
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26				59				92			
27				60				93			
28				61				94			
29				62				95			
30				63				96			
31				64				97			
32				65				98			
33				66				99			

CN-1632 (7-67) (*) Give only if required.