Brought up to date for M.A. Rogers 1-3-77

1495 General 1-3-77

TABLE G-XVIII

WASTE COMPOSITION IN MONITORED DRUMS IN ^{238}Pu RETRIEVABLE STORAGE COMPLEX

I.D. Tag No.	Drum No.	$^{238}Pu^{b}$ g	Average Concentration mCi/g	Waste Description	Monitoring
857	215[a]	10.7	19.6	Oxide trash	Temperature, moisture
	219	34.7	36.8	Oxide trash	
858	182[a]	2.0	1.2	Metal	Temperature, moisture
	218	22.9	36.6	Combustibles	
859	192[a]	31.7	46.7	Combustibles	Temperature, moisture
	220	38.6	62.7	Oxide trash	
868	233[a]	17.0	20.4	Trash	Temperature, gas
	225	2.4	2.9	CWS filter	
869	232[a]	29.4	50.2	Combination	Temperature, gas
	227	6.7	7.2	CWS filter	
870	223[a]	14.9	14.8	Combustibles	Temperature, gas
	221	0.4	0.5	Trash	
871	224[a]	22.1	26.5	Combustibles	Temperature, gas
	228	4.3	4.9	CWS filter	

[a]Drum containing monitoring

[b]One gram ^{238}Pu generates approximately 0.5 watt of heat.

Ref: 179

885	255	19.9	13.9	CWS filters, oxide trash	Temperature, gas
886	260	20.2	20.8	oxide trash	Temperature, gas
986	281	19.7	25.3	mixed combustibles	Temperature, gas
985	301	18.7	31.9	mixed combustibles	Temperature, gas
1926	323	16.7	14.3	Plastic Vials & Mounts	Temperature, gas
1927	330	17.4	22.4	mixed combustibles	Temperature, gas

12119

TABLE G-XVII

DESCRIPTION OF MONITORING IN ^{238}Pu RETRIEVABLE STORAGE COMPLEX[179]

Sensor	Designation	Array No.	Proximate to Cask No. (TAG) (CASK)	Function
isture	M-1	A-1	857 (2)	
lls	M-2	A-1	858 (1)	
	M-3	B-5	859 (81)	Measures soil moisture and temperature beneath casks
	M-4	B-4	928 ~~a~~ (61)	
	M-5	B-3	1926 ~~a~~ (41)	
	M-6	B-2	1954 ~~a~~ (21)	
-Con	T-1	A-1	857	Measures temperature inside Drum 215
ermocouples	T-2	A-2	~~858~~ 858	Measures temperature inside Drum 218
	T-3	A-5	859	Measures temperature inside Drums 192
	T-4	B-4	928 ~~a~~ 61	
	T-5	B-3	1926 a 41	Measures temperature beneath casks
	T-6	B-2	1954 a 21	
	T-7	B-1	* a 01	
	T-8	A-1	871	Measures temperature inside Drum 224
	T-9	A-1	871	Measures temperature inside Cask, outside drums[b]
	T-10	A-1	870	Measures temperature inside Drum 223
	T-11	A-1	870	Measures temperature inside Cask, outside drums[b]
	T-12	A-1	869	Measures temperature inside Drum 232
	T-13	A-1	869	Measures temperature inside Cask, outside drums[b]
	T-14	A-1	868	Measures temperature inside Drum 233
	T-15	A-1	868	Measures temperature inside Cask, outside drums[b]
s Sampling	G-1	A-1	871	Samples gas inside Drum 224
ibes	G-2	A-1	871	Samples gas inside Cask, outside drums
	G-3	A-1	870	Samples gas inside Drum 223
	G-4	A-1	870	Samples gas inside cask, outside drums
	G-5	A-1	869	Samples gas inside Drum 232
	G-6	A-1	869	Samples gas inside Cask, outside drums
	G-7	A-1	868	Samples gas inside Drum 233
	G-8	A-1	868	Samples gas inside Cask, outside drums
	G-9, G-10	A-1		
	G-11, G-12	A-2		
	G-13, G-14	A-3		Samples gas in air space above cells
	G-15, G-16	A-4		
	G-17, G-18	A-5		
	G-19, G-20	A-6		
eutron	N-1	A-1		
cess	N-2	B-4, B-5		
ipes	N-3	B-3, B-4		
	N-4	B-2, B-3		
	N-5	B-1, B-2		

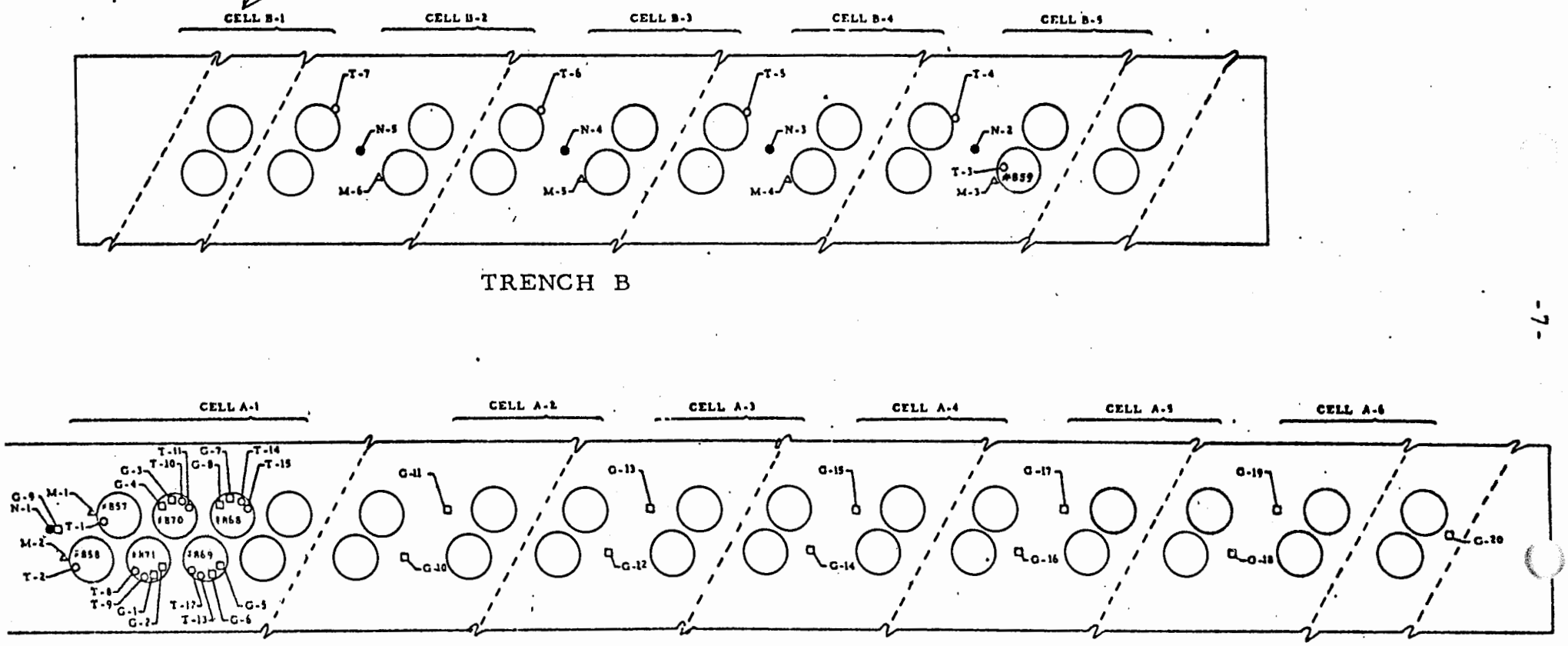
No cask designation to date.

* no tag number because this cask is unfilled as of the date of this report.

TC [thermocouple] fastened to outside of drum, midway on side.

see Merle ...

change cell to array 3-3-74



G-11

Figure 2. Location of monitoring within storage complex

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