

GENERAL ELECTRIC

NUCLEAR ENERGY
DIVISION

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December 7, 1977

Mr. Fred Burger
Division of Operating Reactors
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Burger:

Attached is information on GETR fuel element decay heat which I thought you might be interested in. The numbers shown represent the decay heat levels as of 11/30/77.

Sincerely,

G. D. Hoggatt

G. D. Hoggatt
Manager
GETR License Renewal

Encl:

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FUEL ELEMENT DECAY HEAT
AS OF 11/30/77
TANK No. 1

28 elements, $\overline{P} = 375.6 \text{ Watts}$
 $P_{\text{max}} = 1213 \text{ Watts}$
 $P_{\text{total}} = 10.5 \text{ Kw}$

11/30/77

TANK No. 2

ELEMENT No.	DECAY TIME	DECAY HEAT	ELEMENT No.	DECAY TIME	DECAY HEAT
F-582	486	56	F-577	96	174
F-615	446	68	F-608	486	56
F-517	643	36	F-6108	148	222
F-673	109	311	F-619	75	345
F-516	726	32	F-018	75	303
F-566	589	41	F-587	535	50
F-699	33	629	C-009	75	177
F-694	75	364	F-017	75	302
F-618	466	63	F-6216	239	135
F-548	672	40	F-509	33	660
F-509	54	354	F-6162	75	202
F-035	33	466	F-571	610	46
F-524	726	36	F-644	290	124
F-666	129	236	F-551	404	76
F-683	96	364	F-628	349	93
F-029	33	807	F-632	349	95
F-036	33	424	F-656	75	213
F-681	129	309	F-019	33	1030
F-025	75	293	F-032	33	504
F-639	290	122	F-645	290	107
F-031	54	530			

41 elements,

$$\overline{P} = 256.0 \text{ watts}$$

$$P_{\text{MAX}} = 1030 \text{ watts}$$

$$P_{\text{TOTAL}} = 10.5 \text{ Kw}$$

TANK No. 3

[illegible]

13 elements,

$$\bar{P} = 208.2 \text{ Watts}$$

$$P_{\max} = 432 \text{ watts}$$

$$P_{TOTAL} = 2.7 \text{ kW}$$

TANK No. 4

25 elements, $\bar{P} = 263.3 \text{ watts}$
 $P_{\text{max}} = 691 \text{ watts}$
 $P_{\text{TOTAL}} = 6.6 \text{ Kw}$

TANK No. 5

ELEMENT No.	DECAY TIME	DECAY HEAT	ELEMENT No.	DECAY TIME	DECAY HEAT
F 631	310	103	F 687	79	503
F 572	535	55	F 023	33	847
F 634	367	93	F 021	33	1059
F 672	79	393	F 614	432	75
F 559	661	37	F 621	404	74
F 586	535	54	F 685	79	502
C 012	75	237	F 623	404	77
F 689	79	526	F 653	75	196
F 611	79	337	F 581	486	57
F 588	521	57	F 525	521	55
F 594	521	52	F 606	79	294
F 564	661	36	F 622	75	124
F 032	33	531	F 574	521	52
F 596	535	56	F 592	569	48
F 506	33	547	F 562	583	40
F 499	687	38	F 625	79	258
F 014	79	440	F 575	597	44
F 599	500	57	F 630	276	120
F 613	446	68	F 543	466	61
F 016	33	1370	F 567	610	48
F 674	178	217	F 603	500	63
F 541	239	128			

43 elements, $\bar{P} = 233.2$ watts
 $P_{max} = 1370$ watts
 $P_{total} = 10.0$ KW

TANK No. 6

ELEMENT No.	DECAY TIME	DECAY. HEAT	ELEMENT No.	DECAY TIME	DECAY HEAT
F 026	54	381	F 609	117	172
C 148	253	64	F 544	397	67
F 570	363	53	F 030	54	583
F 652	253	153	F 659	198	177
F 020	75	361	F 675	198	154
F 625	367	79	F 661	198	179
F 641	54	412	C 149	253	65
F 553	397	76	F 011	129	210
F 684	96	415	F 700	54	903
F 627	363	80	F 669	117	263
F 602	486	57			
F 010	54	535			
F 642	310	108			
F 587	367	74			
F 649	143	156			
F 670	198	183			
F 022	54	529			
F 643	253	124			
F 657	54	520			

29 elements, $\bar{P} = 247.0$ watts
 $P_{\max} = 903$ watts
 $P_{\text{total}} = 7.2$ kW