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CONTROLLED TEMP. TENSILE CAPSULE - TISR-243

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W. E. Korpi

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W. E. Korpi

December 6, 1968

DOUGLAS UNITED NUCLEAR, INC.
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As of 12/23/68 (date) this document consists of 2 pages
As of 12-31-68 (date) this document consists of 3 pages
As of 1-8-69 (date) this document consists of 4 pages
As of 1-17-69 (date) this document consists of 5 pages
As of 1-22-69 (date) this document consists of 6 pages
As of 2-6-69 (date) this document consists of 7 pages
As of 2-11-69 (date) this document consists of 8 pages
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TISR - 243		After Fill In						DUN- 5187	PAGE 1
		CONTROLLED TEMP. TENSILE CAPSULE						VOL- 1	
DATE		12-15	12-15	12-16					
TIME		1355	2100	1150					
TECHNICIAN		HAR	HAR	Kub					
POINT	FUNCTION	TEMPERATURE							
1	TC 1	236	348	347					
2	TC 3	232	350	355					
3	TC 4	235	227	445					
4	TC 6	237	228	455					
5	TC 7	237	392	398					
6	TC 9	242	402	402					
TEMPERATURE CONTROL									
GEMAC #1 TC# 2		228	348	350					
% OUTPUT		0	79	72					
VOLTS #1		0	97	94					
AMPS #1		0	7.5	7.2					
GEMAC #2 TC# 5		232		450					
% OUTPUT		0		79					
VOLTS #3		0		126					
AMPS #3		0		10.2					
GEMAC #3 TC# 9		240	400	400					
% OUTPUT		0	75	109					
VOLTS #5		0	110	105					
AMPS #5		0	8	7.9					
REMARKS:									
Reactor up 1st Indication 12-14-68 2349 12-15-68 0406 12-15-68 0641 Reactor 1/2 down — 0315 0530 Capsules up to temp. 1500 12-15-68 Varac settings #1-98 #2-137 #3-103 12-15-68 1545 #2 Electrical blew 50A fuse. Controller also shot. Bybass and left #1 & #3 up. Varac #1-105 & 5-113 12-16-68-1100 - STARTED RAISING TEMP. ON HAR#2									
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		After Fill In							DUN-5187 VOL-1	PAGE 2
TISR - 243		CONTROLLED TEMP. TENSILE CAPSULE								
DATE		12-16-68	12-17	12-18	12-19	12-20	12-21	12-22		
TIME		1645	1930	1700	1830	1650	1330	1320		
TECHNICIAN		MR. H. H.	MR. H. H.	MR. H. H.	MR. H. H.	MR. H. H.	MR. H. H.	MR. H. H.		
POINT	FUNCTION	TEMPERATURE								
1	TC-1	347	348	347	347	348	347	348		
2	TC-3	355	356	357	356	356	355	355		
3	TC-4	445	445	445	445	444	445	444		
4	TC-6	455	453	453	453	453	452	452		
5	TC-7	400	397	397	395	396	396	395		
6	TC-9	404	402	402	402	403	404	405		
TEMPERATURE CONTROL										
GEMAC #1 TC#	2	350	348	348	348	348	350	350		
% OUTPUT		82	81	72	70	74	73	73		
VOLTS # 1		97	97	95	93	93	94	94		
AMPS # 1		7.5	7.5	7.0	7	7	7.2	7.2		
GEMAC #2 TC#	5	450	448	450	450	450	450	450		
% OUTPUT		83	83	83	83	84	84	84		
VOLTS # 6		128	130	128	127	130	130	130		
AMPS # 6		11	11	11	11	11	11	11		
GEMAC #3 TC#	8	400	400	400	400	400	400	400		
% OUTPUT		64	70	70	65	67	67	66		
VOLTS # 5		110	110	108	106	107	107	107		
AMPS # 5		8	8	8	8	8	8	8		
<div style="display: flex; justify-content: space-between;"> <div> <p>12-16-68</p> <p>Varac 1 - 105</p> <p>5 - 115</p> <p>6 - 170</p> </div> <div> <p>12-17-68</p> <p>105</p> <p>115</p> <p>170</p> </div> <div> <p>REMARKS:</p> <p>12-19-68</p> <p>105</p> <p>117</p> <p>170</p> </div> <div> <p>12-21-68</p> <p>105</p> <p>117</p> <p>170</p> </div> </div>										
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TISR - 243		<div style="border: 1px solid black; display: inline-block; padding: 2px;">After Fill In</div>							DUN- <u>5187</u>	PAGE
									VOL- <u>1</u>	<u>3</u>
		CONTROLLED TEMP. TENSILE CAPSULE								
DATE		12-23-68	12-24-68	12-25	12-26	12-27	12-28	12-29		
TIME		1431	0840	1030	2235	2144	0900	0840		
TECHNICIAN		K. Owen	J. B.	J. B.	K. D.	K. D.	J. R. H.	J. R. H.		
POINT	FUNCTION	TEMPERATURE								
1		347	347	347	348	348	349	349		
2		355	355	355	358	354	354	356		
3		444	443	443	444	444	445	447		
4		451	450	450	452	452	454	453		
5		394	395	395	396	395	395	395		
6		403	403	404	405	405	405	404		
TEMPERATURE CONTROL										
GEMAC #1 TC#	<u>2</u>	350	350	350	350	350	350	350		
% OUTPUT		72	73	71	73	73	74	73		
VOLTS		94	92	92	93	93	93	94		
AMPS		7.1	7.0	7	7	7	7.2	7.3		
GEMAC #2 TC#	<u>5</u>	450	450	450	450	450	450	450		
% OUTPUT		85	85	85	85	86	86	85		
VOLTS		130	130	130	130	130	130	130		
AMPS		11	11	11	11	11	11	11		
GEMAC #3 TC#	<u>8</u>	400	400	400	400	400	400	400		
% OUTPUT		67	67	66	68	68	68	67		
VOLTS		106	106	106	107	107	107	107		
AMPS		7.9	7.9	7.8	7.9	7.8	8	8		
<div style="display: flex; justify-content: space-between;"> <div> REMARKS: 12-25-68 Data #1 106 #6 170 #5 115 </div> <div style="text-align: right; font-size: 2em; font-weight: bold; margin-top: 50px;">DECLASSIFIED</div> </div>										
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TISR - 243		<div style="border: 1px solid black; padding: 2px; display: inline-block;">After Fill In</div>							DUN- <u>5187</u> VOL- <u>1</u>		PAGE <u>11</u>	
		CONTROLLED TEMP. TENSILE CAPSULE										
DATE		12-30-67	12-31-67	1-1-68	1-2-68	1-3-68	1-4-68	1-5-68				
TIME		1810	1745	1000	1730	1820	1140	1015				
TECHNICIAN		JRH	JRH	JRH	JRH	JRH	Kup	Kup				
POINT	FUNCTION	TEMPERATURE										
1		348	348	348	348	348	347	348				
2		358	357	358	358	358	358	358				
3		445	444	445	444	444	445	445				
4		455	454	454	455	453	454	454				
5		393	392	395	396	395	396	397				
6		405	405	405	404	405	407	406				
TEMPERATURE CONTROL												
GEMAC #1 TC# <u>2</u>		350	350	350	350	350	350	350				
% OUTPUT		70	71	70	68	66	66	70				
VOLTS		93	93	92	92	90	90	92				
AMPS <u>sys 4</u>		7.5	7.3	7.3	7.2	7.5	7.3	7.3				
GEMAC #2 TC# <u>5</u>		450	450	450	450	450	450	450				
% OUTPUT		84	84	84	82	82	82	83				
VOLTS		130	130	130	129	128	128	129				
AMPS <u>sys 6</u>		81	11	11	11	10.8	10.8	11.0				
GEMAC #3 TC# <u>8</u>		400	400	400	400	400	400	400				
% OUTPUT		68	66	65	66	61	61	65				
VOLTS		108	110	106	106	110	104	107				
AMPS <u>sys 5</u>		8	8	7.8	8.0	7.8	7.9	8.0				
REMARKS:												
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TISR - 243		After Fill In						DUN- 5187 VOL- 1	PAGE 5
		CONTROLLED TEMP. TENSILE CAPSULE							
DATE		1-6-69	1-7-69	1-8-69	1-9-69	1-10-69	1-11		
TIME		1800	1820	1750	1715	1630	1010		
TECHNICIAN		Kus	Kus	Kus	Kus	Kus	Kus		
POINT	FUNCTION	TEMPERATURE							
1	TEMP	350	350	350	349	350	350		
2	"	360	359	358	360	359	359		
3	"	445	445	445	445	445	445		
4	"	453	452	453	453	453	452		
5	"	396	396	395	396	396	396		
6	"	406	406	406	405	405	406		
TEMPERATURE CONTROL									
GEMAC #1 TC# 2		350	350	350	350	350	350		
% OUTPUT		72	70	71	70	66	65		
VOLTS SYST. 1		92	92	92	90	90	89		
AMPS		7.2	7.1	7.0	7.0	7.0	7.0		
GEMAC #2 TC# 5		450	450	450	450	450	450		
% OUTPUT		82	81	82	80	80	80		
VOLTS SYST. 6		128	127	127	125	125	124		
AMPS		10.9	10.8	10.9	10.7	10.6	10.5		
GEMAC #3 TC# 8		400	400	400	400	400	400		
% OUTPUT		63	61	63	60	59	59		
VOLTS SYST. 5		105	104	104	102	102	102		
AMPS		7.8	7.7	7.7	7.5	7.5	7.5		
REMARKS:									
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		After Fill In						DUN- 5187 VOL- 1	PAGE 6
TISR - 243		CONTROLLED TEMP. TENSILE CAPSULE							
DATE		1-14-69	1-15-69	1-16-69	1-17	1-18	1-19		
TIME		2315	1730	1640	1530	1110	1045		
TECHNICIAN		MLL	MLL	MLL	MLL	MLL	MLL		
POINT	FUNCTION	TEMPERATURE							
1	TC 1	347	348	349	349	349	349		
2	3	359	360	358	360	360	360		
3	4	444	444	444	443	444	444		
4	6	452	453	453	453	453	453		
5	7	402	399	398	397	398	398		
6	9	407	407	406	407	407	407		
TEMPERATURE CONTROL									
GEMAC #1 TC#	2	350	350	350	350	350	350		
% OUTPUT		64	64	67	67	60	63		
VOLTS		90	90	90	90	86	87		
AMPS		7.2	7.2	7.0	7	7	6.5		
GEMAC #2 TC#	5	450	450	450	450	450	450		
% OUTPUT		78	78	80	80	78	78		
VOLTS		134	134	124	124	122	122		
AMPS		10.5	10.5	10.5	10.2	10.2	10.1		
GEMAC #3 TC#	8	400	400	400	400	400	400		
% OUTPUT		60	60	58	60	55	57		
VOLTS		104	104	102	102	98	100		
AMPS		7.5	7.5	7.5	7.2	7.2	7.0		
REMARKS:									
<p>Reactor down @ 2220 1-11-69</p> <p>Reactor up @ 1400 1-14-69</p> <p>1-14-69-2245 Started capsules up to temp</p>									
<div style="text-align: right; font-weight: bold; font-size: 1.2em;">DECLASSIFIED</div> <div style="text-align: center;"> <div>SECRET</div> <div>After Fill In</div> </div>									

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TISR - 243		CONTROLLED TEMP. TENSILE CAPSULE								
DATE		1-26-69	1-27-69	1-28	1-29	1-30	1-31	2-1	2-2	
TIME		1230	1655	1700	1640	1630	1653	1045	1110	
TECHNICIAN		JRH	JRH	JRH	JRH	JRH	JRH	Kus	Kus	
POINT	FUNCTION	TEMPERATURE								
1	TC- 1	349	350	350	350	350	348	350	350	
2	3	358	360	359	358	359	358	360	360	
3	4	443	443	445	445	445	443	445	445	
4	6	455	455	456	454	455	455	456	456	
5	7	397	400	400	400	398	400	400	400	
6	9	400	405	407	405	407	403	407	407	
TEMPERATURE CONTROL										
GEMAC #1 TC#	2	350	350	350	350	350	350	350	350	
% OUTPUT		66	59	57	58	58	58	58	59	
VOLTS		91	87	85	86	80	80	85	86	
AMPS		7	7	6.5	7.0	7.0	7.0	7.0	7.0	
GEMAC #2 TC#	5	450	450	450	450	450	450	450	450	
% OUTPUT		77	76	70	74	70	71	74	75	
VOLTS		125	120	119	120	120	120	120	120	
AMPS		10.5	10	10	10	10	10	10	10	
GEMAC #3 TC#	8	400	400	400	400	400	400	400	400	
% OUTPUT		570	53	51	52	52	52	51	52	
VOLTS		100	98	95	92	92	95	96	97	
AMPS		7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	
REMARKS:										
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TISR - 243

CONTROLLED TEMP. TENSILE CAPSULE

DATE	2-3-69	2-4-69	2-5	2-6	2-7	2-8	2-9		
TIME	1745	1745	1751	1711	1820	0955	1330		
TECHNICIAN	Kus	Kus	Kus	Kus	Kus	Kus	Kus		
POINT	FUNCTION	TEMPERATURE							
1	TC-1	350	348	349	348	348	349	348	
2	3	360	360	360	360	360	360	358	
3	4	445	445	445	445	445	445	445	
4	6	457	456	455	457	457	457	456	
5	7	400	400	400	400	400	400	400	
6	9	407	407	407	407	407	407	407	

TEMPERATURE CONTROL

GEMAC #1 TC# 2	350	350	350	350	350	350	350		
% OUTPUT	60	59	57	57	57	58	57		
VOLTS	86	85	85	85	84	85	84		
AMPS	6.5	6.7	6.8	6.8	6.9	6.9	6.9		
GEMAC #2 TC# 5	450	450	450	450	450	450	450		
% OUTPUT	77	76	75	75	75	76	75		
VOLTS	120	120	120	120	119	120	119		
AMPS	10	10	10	10	10	10	10		
GEMAC #3 TC# 8	400	400	400	400	400	400	400		
% OUTPUT	53	52	52	53	52	52	50		
VOLTS	96	94	96	96	96	96	95		
AMPS	7.0	7.0	7.0	7.0	7.0	7.0	7.0		

REMARKS:

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