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IRRADIATION TEST DATA FOR HOLDER NO. 2. DEVELOPMENT TEST IP-295-D
THE IRRADIATION OF CANDIDATE PRTG GAS LOOP MATERIALS
IAPO 237

by

R. K. Marshall

October 13, 1960

Classification Cancelled and Changed To

DECLASSIFIED

By Authority of CG-PR-2

W.A. Snyder, 1-26-94

By Shirley Maley, 4-20-94

Verified By DK Hanson, 4-20-94

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IRRADIATION TEST DATA FOR HOLDER NO. 2. DEVELOPMENT TEST IP-295-D. THE
IRRADIATION OF CANDIDATE FETR GAS LOOP MATERIALS-HAFO-237

Location of Test: D Test Hole, C Reactor.

Date charged: March 18, 1960.

Date discharged: July 26, 1960.

Operating time of reactor during test: 2549 hours (based on time interval from half power at startup to half power at shutdown).

The volume average thermal neutron flux in the uranium adjacent to the holder location was 3.20×10^{13} n/cm²/sec.

Reactor Atmosphere Analyses:

Date sampled	CO ₂	A	O ₂	N ₂	Per Cent by Volume			H ₂
					CO	H ₂	H ₂	
3/21/60	21.9	.04	.07	3.63	<.01	74.4	.01	
3/28/60	26.7	.03	.06	3.37	<.01	69.8	<.01	
4/5/60	24.2	.03	.06	2.4	<.01	73.2	<.01	
4/18/60	23.6	.05	.15	5.91	.43	69.8	<.01	
5/2/60	24.7	.05	.16	3.91	.01	71.2	.31	
5/9/60	22.7	.05	.12	5.10	<.01	72.0	.01	
5/16/60	23.6	.04	.05	3.95	<.01	72.4	.01	
5/23/60	28.4	.02	.03	2.36	<.01	69.2	.01	
5/31/60	23.2	.02	.04	1.66	<.01	75.1	<.01	
6/6/60	26.7	.01	.04	1.51	<.01	71.7	<.01	
6/13/60	36.3	.02	.05	3.00	.05	58.6	.01	
6/27/60	31.3	.02	.06	2.62	.22	64.8	.01	
7/5/60	33.5	.03	.12	1.96	1.11	63.3	.01	
7/18/60	42.0	.03	.19	3.43	.35	54.0	.01	

The temperature of the graphite near the location of the holder was approximately 500 C at equilibrium operation.

Irradiation Testing

R. K. Marshall/rch

**DATE
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7 / 01 / 94

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