REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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AUTH.NAME AUTHOR AFFILIATION
UTLEY,E.E. Carolina Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Operating Reactors Branch 1

SUBJECT: Forwards flux Maps 318 & 328 from cycle 7 startup,in response to NRC 791220 request.

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Carolina Power & Light Company

January 8, 1980

FILE: NG-3514(R) SERIAL NO.: NO-80-035

Office of Nuclear Reactor Regulation
Attention: Mr. Albert Schwencer, Chief
Operating Reactors Branch No. 1
United States Nuclear Regulatory Commission
Washington, D.C. 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
CYCLE 7 FLUX MAPS

Dear Mr. Schwencer:

As requested by your staff in a December 20, 1979 phone conversation, two flux maps (maps 318 and 328) from Robinson's Cycle 7 startup are attached. We trust this information will be suitable for your use.

Yours very truly,

E. E. Utley
Executive Vice President
Power Supply & Customer Services

JJS/jcb

Attachments

411 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

A001
S. 11

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COMPARISON OF ASSEMBLY POWER DISTRIBUTIONS

H.B.ROBINSON--UNIT 2

MAP 318 CYC7 31% POW 18 MWD/MTU D-180

	H	G	F	E	D	C	B	A
	0.833	1.125	0.972	1.099	0.947	1.085	0.752	0.730
08	0.833	1.091	0.955	1.100	0.967	1.088	0.772	0.760
	0.0	3.12	1.78	-0.14	-2.07	-0.32	-2.53	-3.95
	1.108	0.993	1.201	0.971	1.194	1.026	1.165	0.624
09	1.085	0.967	1.177	0.962	1.187	1.024	1.186	0.649
	2.17	2.74	2.04	0.90	0.59	0.20	-1.73	-3.78
	0.966	1.198	1.068	1.233	1.031	1.153	1.042	
10	0.951	1.173	1.045	1.217	1.019	1.146	1.041	
	1.63	2.13	2.15	1.36	1.18	0.59	0.07	
	1.101	0.968	1.225	1.121	0.913	1.202	0.728	
11	1.099	0.962	1.214	1.108	0.913	1.204	0.730	
	0.18	0.62	0.88	1.15	-0.03	-0.19	-0.27	
	0.941	1.176	1.020	0.914	0.889	0.719		
12	0.969	1.184	1.017	0.913	0.899	0.723		
	-2.94	-0.66	0.31	0.05	-1.09	-0.53		
	1.052	1.008	1.144	1.201	0.717			
13	1.081	1.019	1.140	1.202	0.723			
	-2.73	-1.08	0.39	-0.04	-0.80			
	0.738	1.148	1.034	0.729	(A)			
14	0.761	1.177	1.035	0.728	(B)			
	-2.96	-2.46	-0.13	0.07	% DIFF=100*(A-B)/B			
	0.716	0.618						
15	0.750	0.643						
	-4.47	-3.81						

A = MEASURED (EXXON'S PDQ)

B = EXXON'S PREDICTED

CORE WEIGHTED STD.DEV. = 1.7%

COMPARISON OF ASSEMBLY POWER DISTRIBUTIONS

H.B.ROBINSON--UNIT 2

MAP 328 CYC7 100% POW 170 MWD/MTU D-219

	H	G	F	E	D	C	B	A
	0.984	1.217	1.021	1.159	1.045	1.095	0.753	0.729
08	0.932	1.148	0.983	1.148	1.066	1.116	0.763	0.740
	5.58	6.01	3.87	0.96	-1.92	-1.84	-1.25	-1.55
	1.209	1.059	1.249	1.005	1.212	1.011	1.142	0.620
09	1.142	1.002	1.202	0.984	1.221	1.029	1.164	0.632
	5.87	5.69	3.93	2.08	-0.72	-1.73	-1.93	-1.90
	1.031	1.253	1.099	1.243	0.999	1.103	0.992	
10	0.979	1.197	1.053	1.215	1.012	1.124	1.012	
	5.26	4.72	4.35	2.32	-1.24	-1.85	-1.96	
	1.168	1.003	1.236	1.116	0.877	1.143	0.692	
11	1.147	0.984	1.213	1.092	0.891	1.164	0.704	
	1.83	1.93	1.90	2.23	-1.60	-1.83	-1.75	
	1.026	1.198	1.012	0.892	0.861	0.688		
12	1.068	1.218	1.010	0.891	0.869	0.695		
	-3.93	-1.60	0.22	0.08	-0.90	-0.98		
	1.062	0.997	1.106	1.151	0.690			
13	1.110	1.024	1.119	1.162	0.695			
	-4.32	-2.62	-1.12	-0.99	-0.76			
	0.722	1.114	0.984	0.691	(A)			
14	0.753	1.155	1.006	0.702	(B)			
	-4.12	-3.55	-2.19	-1.57	% DIFF=100*(A-B)/B			
	0.696	0.597						
15	0.731	0.626						
	-4.79	-4.60						

A = MEASURED (EXXON'S PDQ)

B = EXXON'S PREDICTED

CORE WEIGHTED STD.DEV. = 2.8%