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AUTH.NAME AUTHOR AFFILIATION
MAIER,J.E. Rochester Gas & Electric Corp.
RECIP.NAME RECIPIENT AFFILIATION
CRUTCHFIELD,D. Operating Reactors Branch 5

SUBJECT: Forwards INCORE data comparing differences in measured & predicted power between mixed oxide & U assemblies, in response to Amend 32 to Provisional License DPR-18.

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JOHN E. MAIER
VICE PRESIDENT

TELEPHONE
AREA CODE 716 546-2700

March 30, 1981

Director of Nuclear Reactor Regulation
Attention: Mr. Dennis M. Crutchfield, Chief
Operating Reactors Branch No. 5
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Comparison of Predicted versus Measured Power Levels Differences for MOX and Uranium Assemblies
R. E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Crutchfield:

In accordance with Amendment No. 32 to Provisional Operating License No. DPR-18 for the R.E. Ginna Nuclear Power Station, the attached INCORE data comparing differences in measured and predicted power between MOX and uranium assemblies is presented.

This data is from four peripheral core positions where measurements were taken during Cycle 10. With the exception of startup, the power levels of the MOX assemblies are consistently overpredicted by a small amount. The difference between the measured and predicted power for the mixed oxide assemblies, as represented by the mean, is within the range of differences for uranium assemblies located in similar regions of the core. The level of uncertainty in the prediction as measured by the standard deviation is approximately 1.5 percent greater for the MOX assemblies. The MOX assemblies will remain on the core periphery at less than core average power for Cycle 11.

Very truly yours,

John E. Maier

J. E. Maier

Attachment

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MAP	BURNUP MWD/MTU	D BANK POSITION Steps	% DIFFERENCE BETWEEN MEASURED AND PREDICTED RELATIVE POWER MOX ASSEMBLY POSITIONS M7	G13	URANIUM ASSEMBLY POSITIONS A8	H1
X-1	HZP*	ARO	-4.603	-8.887	.130	-1.785
X-2	HZP*	0	-6.317	-7.525	-1.321	-2.459
X-3	25% Power*	88	6.367	4.231	2.178	- .255
X-4	50% Power*	117	4.875	3.879	4.203	2.070
X-5	70% Power*	145	3.772	3.753	2.326	1.344
X-6	70% Power*	128	5.746	4.378	1.204	1.020
X-7	70% Power*	150	3.171	2.693	4.220	1.394
X-8	100%Power*	219	- .814	-2.730	3.974	-1.369
X-9	586	205	.149	-2.960	.063	- .308
X-10	983	217	.140	2.138	4.643	-1.205
X-11	1442	216	- .606	-2.211	3.839	-2.591
X-12	1903	214	-1.374	-1.829	4.656	-2.268
X-13	2603	212	-2.190	-2.662	2.447	-3.184
X-14	3029	223	-2.985	-2.113	3.142	-2.867
X-15	3029	196	-2.051	-1.761	3.903	-3.263
X-16	3029	224	-3.278	-2.542	4.564	-2.801
X-17R	3500	215	-1.169	-1.093	3.331	-2.669
X-18	4223	217	-5.210	-4.039	4.024	-2.519
X-19	4919	224	-3.289	-4.702	3.425	-3.968
X-20	4919	200	-2.770	-3.688	3.487	-3.214
X-21	4919	225	-4.846	-3.700	3.309	-3.641
X-22	5535	224	-2.890	-3.846	5.234	-3.725
X-23	5931	221	-2.173	-3.719	5.340	-3.013
X-24	6394	219	-2.338	-2.814	1.823	-3.058
X-25	7100	224	-2.969	-4.369	1.021	-3.675
X-26	7100	200	-2.972	-3.738	2.118	-3.324
X-27	7100	225	-3.200	-4.585	1.521	-4.193
X-28	7500	224	-2.874	-3.804	1.035	-4.345
X-29	7700	220	-3.046	-4.011	1.316	-3.902
X-30	8100	221	-2.839	-4.011	5.099	-3.900
MEAN			-1.418	-2.209	2.875	-2.256
SDEV			3.196	3.306	1.707	1.804

* Initial startup testing with burnup less than 200 MWD/MTU