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 RECIP. NAME: CRUTCHFIELD, D. RECIPIENT AFFILIATION: 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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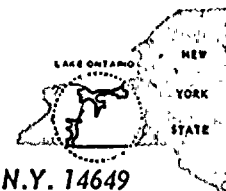
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JOHN E. MAIER
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March 30, 1981



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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% DIFFERENCE BETWEEN
MEASURED AND PREDICTED

MAP	BURNUP MWD/MTU	D BANK POSITION Steps	RELATIVE POWER			
			MOX ASSEMBLY POSITIONS		URANIUM ASSEMBLY POSITIONS	
			M7	G13	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

