

● A 04/27/78 ●

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)  
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REC: ZIEMANN D L  
NRC

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ROCHESTER GAS & ELEC

DOC DATE: 04/18/78  
DATE RCVD: 04/26/78

DOCTYPE: LETTER NOTARIZED: NO  
SUBJECT:

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LTR 1 ENCL 1

FORWARDING RESPONSE TO NRC REQUEST CONSISTING OF INFO CONCERNING DATA TAKEN DURING THE STARTUP OF CYCLE 7 AT SUBJECT FACILITY... W/ATT TABLE PRESENTING PREDICTED ROD WORTH AND THE MEASURED ROD WORTHS WITH AND WITHOUT CONTROL RODS L8 & K7 SWAPPED.

PLANT NAME: RE GINNA - UNIT 1

REVIEWER INITIAL: XJM  
DISTRIBUTOR INITIAL: *[Signature]*

\*\*\*\*\* DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS \*\*\*\*\*

ANNUAL ENVIRONMENTAL RPTS (OL STAGE).  
(DISTRIBUTION CODE A007)

FOR ACTION: ~~BR CHIEF~~ ZIEMANN\*\*W/7 ENCL

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DISTRIBUTION: LTR 20 ENCL 20  
SIZE: 1P+3P

CONTROL NBR: 781160178

\*\*\*\*\* THE END \*\*\*\*\*

*[Handwritten signature]*



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ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649

LEON D. WHITE, JR.  
VICE PRESIDENT

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AREA CODE 716 546-2700



April 18, 1978

50-244

US NRC  
DISTRIBUTION SERVICES  
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1978 APR 25 AM 10 32

RECEIVED DISTRIBUTION  
SERVICES UNIT

Director of Nuclear Reactor Regulation  
Attention: Mr. Dennis Ziemann, Chief  
Operating Reactors Branch No. 2  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

REGULATORY DOCKET FILE COPY

Dear Mr. Ziemann:

During conversations with members of the NRC staff, a request was made for data taken during the startup of Cycle 7 at the R. E. Ginna Plant. This data reflects measurements taken with control rod L8 operating as a D bank rod and rod K7 operating as an A bank rod. Figure 1 illustrates the  $F_{\Delta H}^N$  obtained from the Incore reduction of Flux Map VII-3 which was taken with the rods as described above. Figure 2 illustrates the  $F_{\Delta H}^N$ 's with the rod swap corrected.

Also attached is a table which presents the predicted rod worth and the measured rod worths with and without control rods L8 and K7 swapped.

Very truly yours,

*L. D. White, Jr.*

L. D. White, Jr.

781160178

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S  
+  
|||

Cycle - 7 Flux Map VII-3

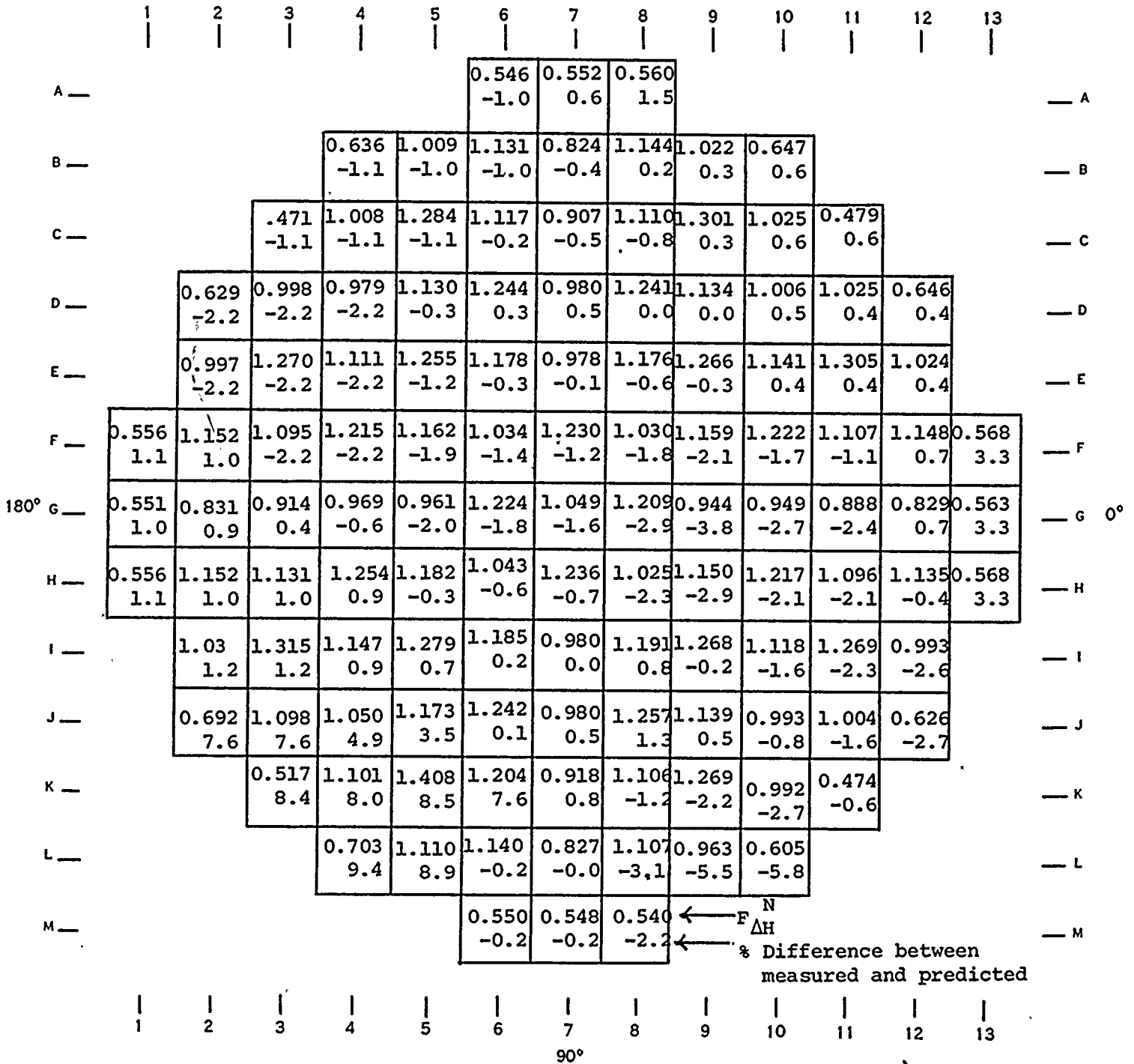
D bank = 136 steps, 28% power, Control Rod L8 and K7 interchanged

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CORE MAP

Measured  $F_{\Delta H}^N$

270°



$F_{\Delta H}^N$   
← % Difference between measured and predicted

$$\frac{\text{Meas-Pred}}{\text{Pred}} \times 100\%$$

FIGURE 1

D bank = 119 steps, 25% power, Control Rod Swap Corrected

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CORE MAP

Measured  $F_{\Delta H}^N$

270°

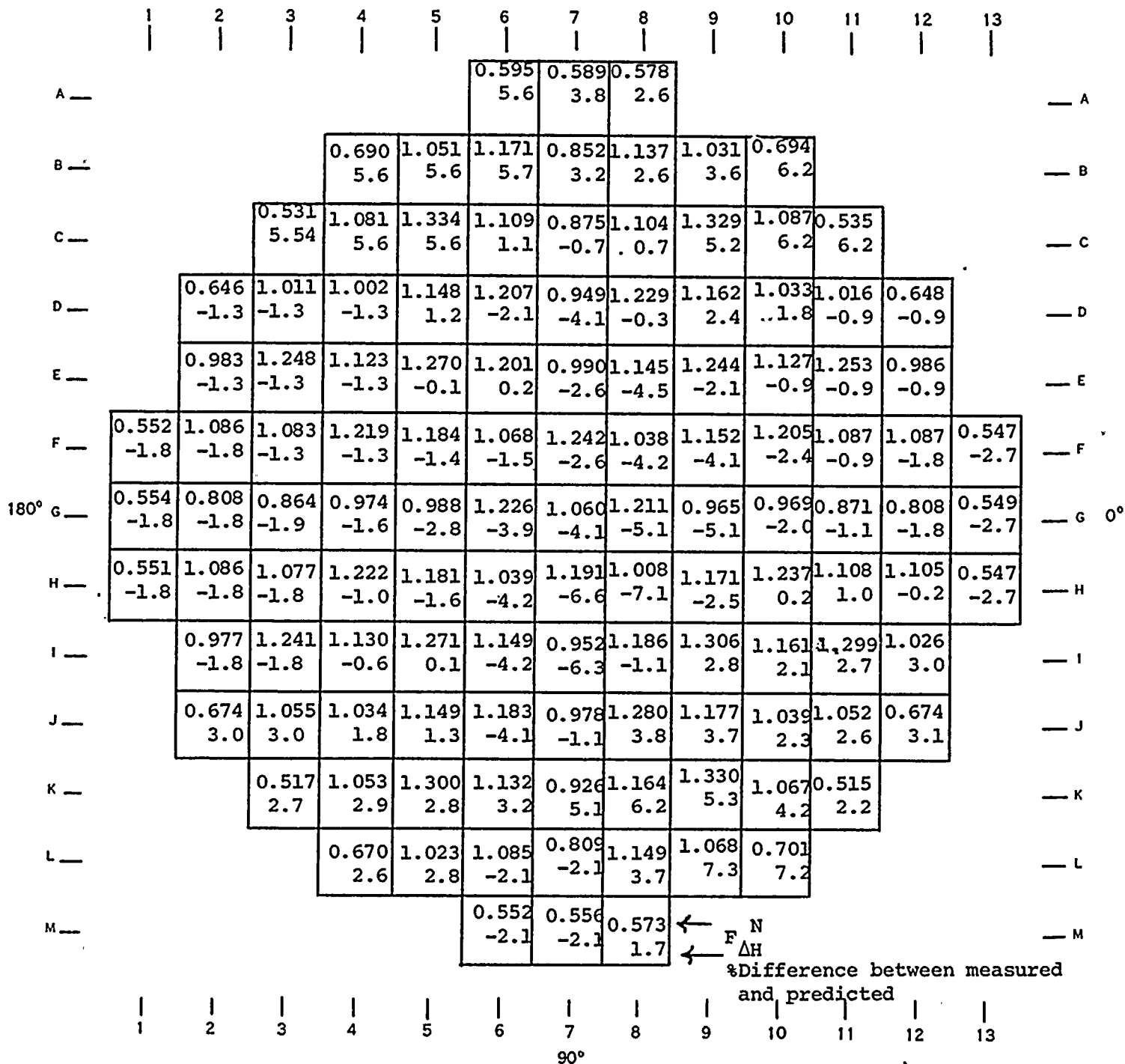


FIGURE 2

Startup - Cycle 7 - May 21, 1977

Core Condition BOL, HZP, NoXe	Boron Worth (ppm/%Δ <del>ρ</del> )	Boron Endpoint		Isotherm Temp. Coefficient**	
		Predicted (ppm)	Measured* (ppm)	Predicted (pcm/°F)	Measured* (pcm/°F)
ARO	-115	1382	1400	-3.4	-3.23
D bank in	-114	1296	1321	-5.0	-5.2
D&C bank in	-114	1177	1207	-7.8	-8.25

Control Rod Bank Worth

Bank	Predicted Worth (%Δ <del>ρ</del> )		Measured* (%Δ <del>ρ</del> )		Measured (%Δ <del>ρ</del> )	
	Bank	Cumulative	Bank	Cumulative	Bank	Cumulative
D	0.754	0.754	0.666	0.666	0.711	0.711
D&C	1.047	1.801	0.991	1.657	0.979	1.690

\* indicates measurements done with control rod L8 operating as a D bank rod and rod K7 operating as an A bank rod.

\*\* Doppler Coefficient is +1.9 pcm/°F

