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 AUTH: NAME: AUTHOR AFFILIATION
 MATHEWS, E. R. Wisconsin Public Service Corp.
 RECIP: NAME: RECIPIENT AFFILIATION
 VARGAS, A. Operating Reactors Branch 1

SUBJECT: Forwards summary sheets for RODBURN case execution for flux maps taken during Aug & Sept 1981. Summaries do not include direct V(Z) calculations. Info will be provided bimonthly.

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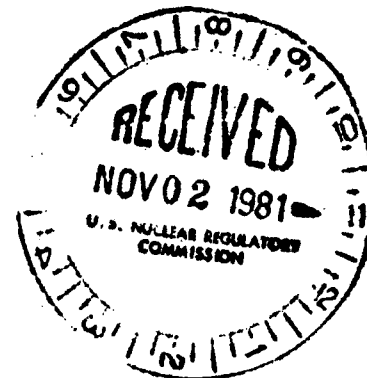
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WISCONSIN PUBLIC SERVICE CORPORATION


P.O. Box 1200, Green Bay, Wisconsin 54305

October 28, 1981

Mr. S. A. Varga, Chief
 Operating Reactors Branch #1
 Division of Licensing
 U S Nuclear Regulatory Commission
 Washington, D C 20555



Gentlemen:

Docket 50-305
 Operating License DPR-43
 Kewaunee Nuclear Power Plant
 FQ Surveillance

Reference: Letter from E. R. Mathews to S. A. Varga dated September 2, 1981

In accordance with the commitment made in our letter of September 2, 1981, copies of the summary sheets for the RODBURN case execution for flux maps taken during August and September are attached for your information.

Please note that these summaries do not include a direct V(Z) calculation. We are currently modifying the computer codes used for core physics surveillance to incorporate the V(Z) function. During the interim, the comparison to the limits has been done manually. Since the maximum V(Z) penalty is 15% and the minimum margin to the FQ limit is 20.9%, there is no need to carry out the remainder of the calculation.

Finally, our letter of September 2 stated that we would provide this information within one week of the monthly flux map surveillance. We have found that this goal is not practical, given the amount of time normally allotted for reviews. Since our surveillance has continued to show that adequate margin does exist to the FQ limit, the urgency of this reporting is minimized. Therefore, we propose to revise our commitment, and will provide this information on a bimonthly basis. If this is not satisfactory to you, please advise.

Very truly yours,

E.R. Mathews

E. R. Mathews, Senior Vice President
 Power Supply & Engineering

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Attach.

cc - Mr. Robert Nelson, NRC

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Attached are the summary sheets for the RODBURN case execution for the month of August. This case shows a minimum F_Q^N margin of 20.9% at core location I 10HG. All fuel rods are also below their current licensed exposure limits.

ROBBURN OUTPUT SUMMARY SHEET - PAGE 1

CORE LOC	ROD ID	ASSY ROD ID	BATCH BURNUP LIMIT	PEAK ROD BURNUP	PERCENT MARGIN
1	1	1	30750	1	1
1	1	1	32000	1	1
1	1	1	33000	1	1
1	1	1	34000	1	1
1	1	1	35000	1	1
1	1	1	36000	1	1
1	1	1	37000	1	1
1	1	1	38000	1	1
1	1	1	39000	1	1
1	1	1	40000	1	1
1	1	1	41000	1	1
1	1	1	42000	1	1
1	1	1	43000	1	1
1	1	1	44000	1	1
1	1	1	45000	1	1
1	1	1	46000	1	1
1	1	1	47000	1	1
1	1	1	48000	1	1
1	1	1	49000	1	1
1	1	1	50000	1	1
1	1	1	51000	1	1
1	1	1	52000	1	1
1	1	1	53000	1	1
1	1	1	54000	1	1
1	1	1	55000	1	1
1	1	1	56000	1	1
1	1	1	57000	1	1
1	1	1	58000	1	1
1	1	1	59000	1	1
1	1	1	60000	1	1
1	1	1	61000	1	1
1	1	1	62000	1	1
1	1	1	63000	1	1
1	1	1	64000	1	1
1	1	1	65000	1	1
1	1	1	66000	1	1
1	1	1	67000	1	1
1	1	1	68000	1	1
1	1	1	69000	1	1
1	1	1	70000	1	1
1	1	1	71000	1	1
1	1	1	72000	1	1
1	1	1	73000	1	1
1	1	1	74000	1	1
1	1	1	75000	1	1
1	1	1	76000	1	1
1	1	1	77000	1	1
1	1	1	78000	1	1
1	1	1	79000	1	1
1	1	1	80000	1	1
1	1	1	81000	1	1
1	1	1	82000	1	1
1	1	1	83000	1	1
1	1	1	84000	1	1
1	1	1	85000	1	1
1	1	1	86000	1	1
1	1	1	87000	1	1
1	1	1	88000	1	1
1	1	1	89000	1	1
1	1	1	90000	1	1
1	1	1	91000	1	1
1	1	1	92000	1	1
1	1	1	93000	1	1
1	1	1	94000	1	1
1	1	1	95000	1	1
1	1	1	96000	1	1
1	1	1	97000	1	1
1	1	1	98000	1	1
1	1	1	99000	1	1
1	1	1	100000	1	1

NO RODS WERE FOUND TO BE IN VIOLATION OF THEIR RESPECTIVE ALLOWABLE LIMITS

 Thomas R. Cleverman
 PREPARED BY - SIGNATURE
 9-3-81
 DATE

 Steve Bohlman
 REVIEWED BY - SIGNATURE
 9-3-81
 DATE

RODBURN OUTPUT SUMMARY SHEET - PAGE 2

CORE LOC	CORE ROD ID	ASSY ROD ID	FQ LIMIT	MINIMUM MARGIN FQ	ROD BURNUP	PER CENT MARGIN
* #	7DC		000000	1.00	22.33	7.00
* #	7CA		000000	1.00	33.33	7.00
* #	7KC		000000	1.00	33.33	7.00
* #	7IA		000000	1.00	41.67	7.00
* #	7HC		000000	1.00	50.00	7.00
* #	7AG		000000	1.00	58.33	7.00
* #	7BB		000000	1.00	66.67	7.00
* #	7AG		000000	1.00	75.00	7.00
* #	7ED		000000	1.00	83.33	7.00
* #	7DE		000000	1.00	91.67	7.00
* #	7DF		000000	1.00	100.00	7.00
* #	7DA		000000	1.00	108.33	7.00
* #	7AA		000000	1.00	116.67	7.00
* #	7K		000000	1.00	125.00	7.00
* #	7OD		000000	1.00	133.33	7.00
* #	7HG		000000	1.00	141.67	7.00
* #	7BC		000000	1.00	150.00	7.00
* #	7AA		000000	1.00	158.33	7.00
* #	7AH		000000	1.00	166.67	7.00
* #	7ED		000000	1.00	175.00	7.00
* #	7GH		000000	1.00	183.33	7.00
* #	7DE		000000	1.00	191.67	7.00
* #	7AA		000000	1.00	200.00	7.00
* #	7CC		000000	1.00	208.33	7.00
* #	7FD		000000	1.00	216.67	7.00
* #	7CB		000000	1.00	225.00	7.00
* #	7CC		000000	1.00	233.33	7.00
* #	7GA		000000	1.00	241.67	7.00
* #	7FO		000000	1.00	250.00	7.00
* #	7AA		000000	1.00	258.33	7.00
* #	7BA		000000	1.00	266.67	7.00
* #	7BA		000000	1.00	275.00	7.00

* # DESIGNATES NON-EXXON FUEL (WITH AN FQ LIMIT INDEPENDENT OF ROD BURNUP)

NO RODS WERE FOUND TO BE IN VIOLATION OF THEIR RESPECTIVE ALLOWABLE LIMITS

 Thomas R. Cleverman
 PREPARED BY - SIGNATURE
 DATE 9-3-81

 Steve Bohlman
 REVIEWED BY - SIGNATURE
 DATE 9-3-81

Attached are the summary sheets for the RODBURN case execution for the month of September. This case shows a minimum margin of 20.9% at core location G10HA. All fuel rods are also below their current licensed exposure limits.

RODBURN OUTPUT SUMMARY SHEET - PAGE 2

CORE LOC	CORE ROD ID	ASSY ROD ID	FQN LIMIT	MINIMUM MARGIN FQN	ROD BURNUP	PER CENT MARGIN
** G 7DC	1	1	2.1600	1.2090	23404.	44.0
** G 8GA	1	1	2.2100	1.2570	22649.	33.0
** G 9KC	1	1	2.1600	1.2510	4176.	33.0
G 10HA	1	1	2.2100	1.2480	5176.	33.0
G 11DC	1	1	2.2100	1.4350	2200.	33.0
G 12AG	1	1	2.2100	1.2200	1922.	33.0
G 1399	1	1	2.2100	1.1500	377.	33.0
H 14BA	1	1	2.2100	1.1500	833.	33.0
H 15AD	1	1	2.2100	1.1420	115.	33.0
H 16EK	1	1	2.2100	1.1410	787.	33.0
H 17DF	1	1	2.2100	1.1000	150.	33.0
H 18FE	1	1	2.2100	1.1000	150.	33.0
H 19AA	1	1	2.2100	1.1000	150.	33.0
** H 20KE	1	1	2.2100	1.1000	150.	33.0
** H 21KE	1	1	2.2100	1.1000	150.	33.0
** H 22KE	1	1	2.2100	1.1000	150.	33.0
H 23HG	1	1	2.2100	1.1000	150.	33.0
H 24BC	1	1	2.2100	1.1000	150.	33.0
H 25AA	1	1	2.2100	1.1000	150.	33.0
H 26AH	1	1	2.2100	1.1000	150.	33.0
H 27ED	1	1	2.2100	1.1000	150.	33.0
H 28GH	1	1	2.2100	1.1000	150.	33.0
* H 29DE	1	1	2.2100	1.1000	150.	33.0
H 30AA	1	1	2.2100	1.1000	150.	33.0
H 31DD	1	1	2.2100	1.1000	150.	33.0
H 32CF	1	1	2.2100	1.1000	150.	33.0
H 33CB	1	1	2.2100	1.1000	150.	33.0
H 34CB	1	1	2.2100	1.1000	150.	33.0
H 35GA	1	1	2.2100	1.1000	150.	33.0
H 36ED	1	1	2.2100	1.1000	150.	33.0
H 37AA	1	1	2.2100	1.1000	150.	33.0
H 38AA	1	1	2.2100	1.1000	150.	33.0
M 39BB	1	1	2.2100	1.1000	150.	33.0
** M 40BA	1	1	2.1600	1.0550	249.	33.0

**DESIGNATES NON-EXXON FUEL (WITH AN FQ LIMIT INDEPENDENT OF ROD BURNUP)

NO RODS WERE FOUND TO BE IN VIOLATION OF THEIR RESPECTIVE ALLOWABLE LIMITS

Thomas R. Cleverman
 PREPARED BY - SIGNATURE
Steve Sohlman
 REVIEWED BY - SIGNATURE

10-5-81
 DATE
10-5-81
 DATE