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DUKE POWER

April 30, 1996

U. S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, DC 20555-0001

SUBJECT: Duke Power Company

McGuire Nuclear Station - Unit 1
Docket No. 50-369

Catawba Nuclear Station - Unit 2
Docket No. 50-414

Response to NRC Bulletin 96-01
Additional Information

In a letter dated April 4, 1996, Duke Power responded to NRC Bulletin 96-01. In this response Duke stated that core maps for two future core designs (McGuire 1 Cycle 12 and Catawba 2 Cycle 9) would subsequently be provided to the NRC. These two future core designs are now complete and the requested information is included as Attachment 1 to this letter. These additional core designs complete the Duke submittal of the information requested in Response Item 2 of NRC Bulletin 96-01.

Please direct questions on this matter to J. S. Warren at
(704) 382-4986.

I declare, under penalty of perjury, that the statements set forth herein are true and correct to the best of my knowledge.

Very truly yours,

A handwritten signature in cursive script that reads 'M. S. Tuckman'.

M. S. Tuckman

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U. S. NRC, Document Control Desk
April 30, 1996
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MST/JSW

ATTACHMENT 1: Additional Information for
NRC Bulletin 96-01,
Required Response Item 2
Core Map for McGuire Unit 1 Cycle 12
Core Map for Catawba Unit 2 Cycle 9
(3 Pages)

xc: S. D. Ebner, Regional Administrator
U.S. Nuclear Regulatory Commission, Region II

R. E. Martin, NRC Project Manager (CNS)
V. Nerses, NRC Project Manager (MNS)
ONRR

R. J. Freudenberger, NRC Resident Inspector (CNS)
G. F. Maxwell, NRC Resident Inspector (MNS)
Duke Nuclear Sites

MIC12 RADIAL EXPOSURE DISTRIBUTION

BOC: STATEPOINT 1 (.00 EFPD) WRITTEN BY CNRQ/08APR96
 EOC: STATEPOINT 14 (380.00 EFPD) WRITTEN BY CNRQ/08APR96

SIMEDIT JOB
 CPKH/10APR96

	H	G	F	E	D	C	B	A

08	* 32.8068 *	* .0000 *	* 17.7205 *	* 14.7684 *	* 16.6587 *	* 16.6447 *	* 17.7950 *	* 28.3021 *
	* 47.1196 *	* 19.1372 *	* 35.0189 *	* 32.2076 *	* 33.9512 *	* 32.9590 *	* 31.1911 *	* 34.9660 *
	* 14.3128 *	* 19.1372 *	* 17.2983 *	* 17.4392 *	* 17.2924 *	* 16.3143 *	* 13.3961 *	* 6.6640 *
	* 11 *	* 14 *	* 13A *	* 13B *	* 13B *	* 13B *	* 13A *	* 12 *

09	* .0000 *	* 31.2855 *	* .0000 *	* 25.7117 *	* .0000 *	* 17.8842 *	* .0000 *	* 24.7764 *
	* 19.1280 *	* 46.4723 *	* 19.2684 *	* 41.8714 *	* 19.0136 *	* 34.4251 *	* 16.3949 *	* 32.0911 *
	* 19.1280 *	* 15.1868 *	* 19.2684 *	* 16.1597 *	* 19.0136 *	* 16.5409 *	* 16.3949 *	* 7.3148 *
	* 14 *	* 12 *	* 14 *	* 12 *	* 14 *	* 13A *	* 14 *	* 12 *

10	* 17.7200 *	* .0000 *	* 31.2742 *	* .0000 *	* 25.4295 *	* .0000 *	* 15.7727 *	* 17.4946 *
	* 35.0161 *	* 19.2948 *	* 46.6259 *	* 19.5061 *	* 41.8960 *	* 19.0736 *	* 30.3075 *	* 24.9436 *
	* 17.2961 *	* 19.2948 *	* 15.3518 *	* 19.5061 *	* 16.4666 *	* 19.0736 *	* 14.5348 *	* 7.4491 *
	* 13A *	* 14 *	* 12 *	* 14 *	* 12 *	* 14 *	* 13B *	* 13A *

11	* 14.7687 *	* 25.7107 *	* .0000 *	* 17.2810 *	* .0000 *	* 17.5285 *	* .0000 *	* 28.5555 *
	* 32.2067 *	* 41.9174 *	* 19.5254 *	* 35.2054 *	* 19.4572 *	* 34.0917 *	* 15.4102 *	* 33.9388 *
	* 17.4379 *	* 16.2067 *	* 19.5254 *	* 17.9244 *	* 19.4572 *	* 16.5631 *	* 15.4102 *	* 5.3832 *
	* 13B *	* 12 *	* 14 *	* 13A *	* 14 *	* 13A *	* 14 *	* 12 *

12	* 16.6589 *	* .0000 *	* 25.4349 *	* .0000 *	* 14.7592 *	* .0000 *	* 17.6941 *	*
	* 33.9506 *	* 19.0402 *	* 41.9077 *	* 19.4421 *	* 32.8331 *	* 17.4503 *	* 27.1433 *	*
	* 17.2918 *	* 19.0402 *	* 16.4728 *	* 19.4421 *	* 18.0740 *	* 17.4503 *	* 9.4493 *	*
	* 13B *	* 14 *	* 12 *	* 14 *	* 13B *	* 14 *	* 13A *	*

13	* 16.6448 *	* 17.8965 *	* .0000 *	* 17.5259 *	* .0000 *	* 11.0462 *	* 31.9085 *	*
	* 32.9596 *	* 34.4306 *	* 19.0752 *	* 34.0915 *	* 17.5051 *	* 23.0517 *	* 36.6182 *	*
	* 16.3148 *	* 16.5342 *	* 19.0752 *	* 16.5655 *	* 17.5051 *	* 12.0054 *	* 4.7097 *	*
	* 13B *	* 13A *	* 14 *	* 13A *	* 14 *	* 13A *	* 12 *	*

14	* 17.7916 *	* .0000 *	* 15.7774 *	* .0000 *	* 17.5910 *	* 31.9111 *	*	*
	* 31.1877 *	* 16.3919 *	* 30.3134 *	* 15.4284 *	* 27.1027 *	* 36.6755 *	*	*
	* 13.3961 *	* 16.3919 *	* 14.5360 *	* 15.4284 *	* 9.5117 *	* 4.7644 *	*	*
	* 13A *	* 14 *	* 13B *	* 14 *	* 13A *	* 12 *	*	*

15	* 28.3019 *	* 24.7824 *	* 17.5203 *	* 28.5599 *	BOC Exposure (GWD/MTU)			
	* 34.9664 *	* 32.0964 *	* 24.9673 *	* 33.9476 *	EOC Exposure (GWD/MTU)			
	* 6.6645 *	* 7.3140 *	* 7.4470 *	* 5.3877 *	Cycle Exposure (GWD/MTU)			
	* 12 *	* 12 *	* 13A *	* 12 *	Fuel Batch Label			

FUEL BATCH	# ASSYS	BOC BURNUP	EOC BURNUP	CYCLE BURNUP
11	1	32.8068	47.1196	14.3128
12	52	27.9725	38.5403	10.5679
13A	48	17.0813	30.4717	13.3903
13B	24	15.7302	32.0952	16.3650
14	68	.0000	18.2594	18.2594
TOTAL	193	13.9109	28.6310	14.7201

C2C09 CORE MAPS

BOC: STATEPOINT 1 (.00 EFPD) WRITTEN BY BQDT/08MAR96 SIMEDIT JOB
EOC: STATEPOINT 15 (475.00 EFPD) WRITTEN BY BQDT/08MAR96 CQBG/08MAR96

	H	G	F	E	D	C	B	A

08	* 33.5946 *	* .0000 *	* 28.5532 *	* .0000 *	* 28.5510 *	* .0000 *	* 21.6077 *	* 22.0534 *
	* 51.8822 *	* 24.0766 *	* 46.9522 *	* 24.0365 *	* 46.8481 *	* 23.7644 *	* 39.1698 *	* 31.5062 *
	* 18.2376 *	* 24.0766 *	* 18.3990 *	* 24.0365 *	* 18.2971 *	* 23.7644 *	* 17.5620 *	* 9.4529 *
	* 8 *	* 11A *	* 9B *	* 11A *	* 9B *	* 11B *	* 10 *	* 10 *

09	* .0000 *	* 22.0538 *	* .0000 *	* 21.8997 *	* .0000 *	* 19.0793 *	* .0000 *	* 31.6590 *
	* 24.0813 *	* 43.4517 *	* 24.2725 *	* 43.4744 *	* 23.8583 *	* 40.4840 *	* 21.0036 *	* 40.1798 *
	* 24.0813 *	* 21.3980 *	* 24.2725 *	* 21.5747 *	* 23.8583 *	* 21.4047 *	* 21.0036 *	* 8.5208 *
	* 11A *	* 10 *	* 11A *	* 10 *	* 11A *	* 10 *	* 11B *	* 9A *

10	* 28.5532 *	* .0000 *	* 33.2757 *	* .0000 *	* 21.4207 *	* .0000 *	* 12.6998 *	* 22.2713 *
	* 46.9457 *	* 24.2638 *	* 51.9497 *	* 24.0065 *	* 43.2785 *	* 23.1542 *	* 31.4971 *	* 31.5376 *
	* 18.3925 *	* 24.2638 *	* 18.6740 *	* 24.0065 *	* 21.8579 *	* 23.1542 *	* 18.7973 *	* 9.2663 *
	* 9B *	* 11A *	* 9A *	* 11A *	* 10 *	* 11A *	* 10 *	* 10 *

11	* .0000 *	* 21.9772 *	* .0000 *	* 19.0538 *	* .0000 *	* 17.7307 *	* .0000 *	* 29.3902 *
	* 24.0203 *	* 43.5250 *	* 23.9946 *	* 41.1427 *	* 23.3803 *	* 38.5221 *	* 19.4235 *	* 35.7086 *
	* 24.0203 *	* 21.5479 *	* 23.9946 *	* 22.0888 *	* 23.3803 *	* 20.7914 *	* 19.4235 *	* 6.3184 *
	* 11A *	* 10 *	* 11A *	* 10 *	* 11A *	* 10 *	* 11B *	* 9C *

12	* 28.5510 *	* .0000 *	* 21.4197 *	* .0000 *	* 21.4384 *	* .0000 *	* 21.9188 *	
	* 46.8395 *	* 23.8503 *	* 43.2743 *	* 23.3898 *	* 22.0517 *	* 21.2709 *	* 33.4002 *	
	* 18.2885 *	* 23.8503 *	* 21.8547 *	* 23.3898 *	* 20.6133 *	* 21.2709 *	* 11.4815 *	
	* 9B *	* 11A *	* 10 *	* 11A *	* 10 *	* 11B *	* 10 *	

13	* .0000 *	* 19.0800 *	* .0000 *	* 17.7323 *	* .0000 *	* 19.0468 *	* 32.3052 *	
	* 23.7608 *	* 40.4830 *	* 23.1573 *	* 38.5368 *	* 21.2943 *	* 32.4854 *	* 37.6877 *	
	* 23.7608 *	* 21.4029 *	* 23.1573 *	* 20.8046 *	* 21.2943 *	* 13.4386 *	* 5.3825 *	
	* 11B *	* 10 *	* 11A *	* 10 *	* 11B *	* 10 *	* 8 *	

14	* 21.6077 *	* .0000 *	* 12.7037 *	* .0000 *	* 21.9241 *	* 32.3754 *		
	* 39.1699 *	* 21.0053 *	* 31.5061 *	* 19.4331 *	* 33.4124 *	* 37.7556 *		
	* 17.5622 *	* 21.0053 *	* 18.8024 *	* 19.4331 *	* 11.4884 *	* 5.3802 *		
	* 10 *	* 11B *	* 10 *	* 11B *	* 10 *	* 8 *		

15	* 22.0534 *	* 31.6656 *	* 22.2053 *	* 29.3627 *	BOC Exposure (GWD/MTU)			
	* 31.5067 *	* 40.1880 *	* 31.4831 *	* 35.6878 *	EOC Exposure (GWD/MTU)			
	* 9.4533 *	* 8.5224 *	* 9.2779 *	* 6.3250 *	Cycle Exposure (GWD/MTU)			
	* 10 *	* 9A *	* 10 *	* 9C *	Fuel Batch Label			

FUEL BATCH	# ASSYS	BOC BURNUP	EOC BURNUP	CYCLE BURNUP
8	9	32.4797	39.2950	6.8154
9A	12	32.2001	44.1058	11.9057
9B	8	28.5521	46.8964	18.3443
9C	8	29.3765	35.6982	6.3217
10	80	19.9658	37.7111	17.7453
11A	48	.0000	23.7862	23.7862
11B	28	.0000	21.0276	21.0276

TOTAL	193	14.1938	32.5963	18.4025