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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,

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

McGuire/Catawba

RCCA Placements

	H	G	F	E	D	C	B	A
08	* Control *		* Control *		* Shutdown *		* Control *	
	D		A		E		c	
09						* Shutdown *		
						B		
10	* Control *		* Control *				* Control *	
	A		C				B	
11						* Shutdown *		
						C		
12	* Shutdown *				* Control *		* Shutdown *	
	E				D		A	
13		* Shutdown *		* Shutdown *				
		B		D				
14	* Control *		* Control *		* Shutdown *		RCCA Locations	
	C		B		A			
15								

M1C12 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

	* 32.8068 *	* .0000 *	* 17.7205 *	* 14.7684 *	* 16.6587 *	* 16.6447 *	* 17.7950 *	* 28.3021 *
08	* 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 *

	* .0000 *	* 31.2855 *	* .0000 *	* 25.7117 *	* .0000 *	* 17.8842 *	* .0000 *	* 24.7764 *
09	* 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 *

	* 17.7200 *	* .0000 *	* 31.2742 *	* .0000 *	* 25.4295 *	* .0000 *	* 15.7727 *	* 17.4946 *
10	* 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 *

	* 14.7687 *	* 25.7107 *	* .0000 *	* 17.2810 *	* .0000 *	* 17.5285 *	* .0000 *	* 28.5555 *
11	* 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 *

	* 16.6589 *	* .0000 *	* 25.4349 *	* .0000 *	* 14.7592 *	* .0000 *	* 17.6941 *	
12	* 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 *	

	* 16.6448 *	* 17.8965 *	* .0000 *	* 17.5259 *	* .0000 *	* 11.0462 *	* 31.9085 *	
13	* 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 *	

	* 17.7916 *	* .0000 *	* 15.7774 *	* .0000 *	* 17.5910 *	* 31.9111 *		
14	* 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 *		

	* 28.3019 *	* 24.7824 *	* 17.5203 *	* 28.5599 *	BOC Exposure (GWD/MTU)			
15	* 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
EOC: STATEPOINT 15 (475.00 EFPD) WRITTEN BY BQDT/08MAR96

SIMEDIT JOB
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	23.3850	42.0517	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