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**DUKE POWER**

February 19, 1991

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Subject: McGuire Nuclear Station  
Docket Nos. 50-369 and 50-370  
Personnel Monitoring Report

Gentlemen:

Pursuant to 10 CFR 20.407 (a) (2) and Technical Specification 6.9.1.5, please find attached the 1990 McGuire Nuclear Station Personnel Monitoring Report. Attachment I provides a statistical summary of all individuals for whom personnel monitoring was provided during the 1990 calendar year. Attachment II provides a tabulation of the number of station, utility, and other personnel receiving exposure greater than 100 mRem/year, followed by the total dose for each respective worker classification and job function during the 1990 calendar year.

Very truly yours,

*M. S. Tuckman*

M.S. Tuckman

JAR/jar

Attachment

cc: Mr. S.D. Ebner  
Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
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Mr. P.K. VanDoorn  
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Mr. Tim Reed, Project Manager  
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cc: R.L. Gill, Jr  
P.F. Guill  
J.M. Ferguson  
C.D. Martinec (MNS)  
J.W. Foster (MNS)  
MC-801.01

Attachment I

CENTRALIZED DOSE RECORD KEEPING FILE

STATISTICAL REPORT OF RECORDED PERSONNEL WHOLE BODY EXPOSURES

TIME: 11:13 EST DATE: 02/08/91 ANNUAL REPORT: 1990

DUKE POWER COMPANY

STATION: MCGUIRE

ESTIMATED WHOLE BODY EXPOSURE RANGE (REMS)*	NUMBER OF INDIVIDUALS IN EACH RANGE
< 0.001	1656
0.001 TO 0.10	898
0.10 TO 0.25	468
0.25 TO 0.50	437
0.50 TO 0.75	226
0.75 TO 1.00	116
1.00 TO 2.00	121
2.00 TO 3.00	23
3.00 TO 4.00	0
4.00 TO 5.00	0
5.00 TO 6.00	0
6.00 TO 7.00	0
7.00 TO 8.00	0
8.00 TO 9.00	0
9.00 TO 10.00	0
10.00 TO 11.00	0
11.00 TO 12.00	0
= 12.00	0
TOTAL NUMBER OF INDIVIDUALS REPORTED	3945

MNS station dose for 1990, based on TLD results: 727.45 person Rem.

Attachment II

DATE: 02/08/91

## DUKE POWER COMPANY - MCQUIRE NUCLEAR STATION

TIME: 02:01EST TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1990

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100 MREM)			TOTAL PERSON-REM (>100 MREM)		
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS
<b>REACTOR OPERATIONS &amp; SURVEILLANCE</b>						
MAINTENANCE PERSONNEL	213	207	288	6.840	1.320	0.510
OPERATING PERSONNEL	75	64	58	21.600	1.140	3.760
HEALTH PHYSICS PERSONNEL	55	38	146	15.378	0.840	17.606
SUPERVISORY PERSONNEL	83	87	80	0.245	0.000	0.000
ENGINEERING PERSONNEL	86	131	11	3.755	1.425	0.125
<b>ROUTINE MAINTENANCE</b>						
MAINTENANCE PERSONNEL	222	223	380	72.287	91.963	101.162
OPERATING PERSONNEL	62	69	61	1.835	28.188	39.193
HEALTH PHYSICS PERSONNEL	51	80	146	15.285	1.215	34.435
SUPERVISORY PERSONNEL	83	87	80	0.415	2.270	0.000
ENGINEERING PERSONNEL	81	142	13	25.840	51.300	1.243
<b>INSERVICE INSPECTION</b>						
MAINTENANCE PERSONNEL	41	76	158	3.335	8.140	16.225
OPERATING PERSONNEL	12	14	18	0.245	1.120	0.200
HEALTH PHYSICS PERSONNEL	13	82	80	6.765	0.250	7.422
SUPERVISORY PERSONNEL	88	83	80	0.000	1.246	0.000
ENGINEERING PERSONNEL	45	42	86	2.998	3.945	0.505
<b>SPECIAL MAINTENANCE</b>						
MAINTENANCE PERSONNEL	188	201	299	7.380	60.335	76.685
OPERATING PERSONNEL	31	57	41	0.438	12.808	2.726
HEALTH PHYSICS PERSONNEL	38	47	130	2.585	1.795	28.883
SUPERVISORY PERSONNEL	81	87	80	0.000	1.424	0.000
ENGINEERING PERSONNEL	60	108	11	2.730	26.955	1.750
<b>WASTE PROCESSING</b>						
MAINTENANCE PERSONNEL	82	12	88	0.000	0.135	6.020
OPERATING PERSONNEL	82	83	42	0.010	0.040	1.090
HEALTH PHYSICS PERSONNEL	24	80	18	0.785	0.000	0.000
SUPERVISORY PERSONNEL	88	81	80	0.000	0.000	0.000
ENGINEERING PERSONNEL	13	85	88	0.515	0.005	0.000
<b>REFUELING</b>						
MAINTENANCE PERSONNEL	69	78	88	3.300	17.950	4.956
OPERATING PERSONNEL	18	19	36	0.515	2.260	2.850
HEALTH PHYSICS PERSONNEL	17	84	67	0.825	1.780	6.885
SUPERVISORY PERSONNEL	88	84	80	0.000	0.885	0.000
ENGINEERING PERSONNEL	38	42	83	0.890	9.915	0.000

DATE: 02/08/91

## DUKE POWER COMPANY - MCGUIRE NUCLEAR STATION

TIME: 02:01EST TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1990

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100 MREM)			TOTAL PERSON-REM (>100 MREM)		
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS
TOTAL						
MAINTENANCE PERSONNEL	223	225	432	96.142	179.843	199.558
OPERATING PERSONNEL	45	68	66	21.842	45.548	49.819
HEALTH PHYSICS PERSONNEL	1	66	15	35.570	5.436	87.611
SUPERVISORY PERSONNEL	3	67	66	0.660	5.8019	0.000
ENGINEERING PERSONNEL	3	151	15	36.720	93.545	3.623
GRAND TOTAL	439	452	666	186.958	330.185	340.011

MNS station dose for 1990, based  
on TLD results: 727.45 person Rem.