

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8606260246 DOC. DATE: 86/06/18 NOTARIZED: NO DOCKET #
 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 05000269
 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287

AUTH. NAME AUTHOR AFFILIATION
 TUCKER, H. B. Duke Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H. R. Office of Nuclear Reactor Regulation, Director (post 851125
 NRRCPB6

SUBJECT: Forwards addl info in support of application to amend
 Licenses DPR-38, DPR-47 & DPR-55, extending licenses for 40
 yrs, per NRC 860403 request.

DISTRIBUTION CODE: A001D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 13
 TITLE: OR Submittal: General Distribution

NOTES: AEOD/Ornstein: 1cy. 05000269
 AEOD/Ornstein: 1cy. 05000270
 AEOD/Ornstein: 1cy. 05000287

RECIPIENT ID CODE/NAME	COPIES		RECIPIENT ID CODE/NAME	COPIES	
	LTTR	ENCL		LTTR	ENCL
PWR-B EB	1	1	PWR-B PEICSB	2	2
PWR-B FOB	1	1	PWR-B PD6 LA	1	0
PWR-B PD6 PD 01	5	5	NICOLARAS, H	1	1
PWR-B PEICSB	1	1	PWR-B RSB	1	1
INTERNAL: ADM/LFMB	1	0	ELD/HDS4	1	0
NRR/DHET/TSCB	1	1	NRR/ORAS	1	0
REC FILE 04	1	1	RGN2	1	1
EXTERNAL: EG&G BRUSKE, S	1	1	LPDR 03	1	1
NRC PDR 02	1	1	NSIC 05	1	1
NOTES:	1	1			

DUKE POWER COMPANY

P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

June 18, 1986

✓ Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. John F. Stolz, Project Director
PWR Project Directorate No. 6

Re: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Sir:

By letter dated April 3, 1986 Duke Power Company (Duke) was requested to provide additional information concerning Duke's requested amendments to Facility Operating Licenses DPR-38, DPR-47, and DPR-55 for the purpose of extending the duration of the licenses to forty years from the date of issuance of the Operating Licenses.

Please find attached Duke's response.

Very truly yours,

H.B. Tucker / slb

Hal B. Tucker

PFG:slb

Attachment

xc: Dr. J. Nelson Grace, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mrs. Helen Pastis
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. J. C. Bryant
NRC Resident Inspector
Oconee Nuclear Station

8606260246 860618
PDR ADOCK 05000269
P PDR

*A001
41*

DUKE POWER COMPANY
OCONEE NUCLEAR STATION

Request for Additional Information
License Extension for Oconee Units 1, 2, and 3

Request (1) ALARA MEASURES

Discuss specific ALARA measures which will be utilized during the seven additional years of service.

Response Duke Power Company will utilize criteria established in its current formal ALARA program in addition to any improvements that are made during the period in question.

The program is constantly evolving as techniques are perfected, technology is improved, and the work force becomes more educated in radiation protection practices.

We can only speculate on specific future ALARA measures, but we anticipate items such as robotics, remote surveillance, remote tooling, decontamination, improved computer resources, etc. to be major factors in further achieving ALARA doses.

Request (2) DOSE ASSESSMENT

- (A) Provide a table showing Oconee Units 1, 2 and 3 personnel exposure experiences for the years 1978 thru 1985 indicating the man-rem exposures by plant system, regardless of how these exposures were obtained (e.g., during normal operations, maintenance, repair or refueling activities) and by whom (e.g., by plant operations personnel, plant maintenance personnel, contractor/vendor personnel, etc.).
- (B) Provide a similar table for the years 2007 to 2014. Include doses from expected decontamination, decommissioning, additional maintenance and related doses.

- Response
- (A) See attached tables. Please note that Duke Power does not classify person-rem by plant system, and therefore, that information is not available. However, a summary of person-rem exposure by job function, listed by major work group and employee type (i.e., contractor, station, utility) is provided.
 - (B) Duke does not expect any increase in station doses for the years 2007 to 2014. It is likely also that decommissioning doses will be less, due to improved technology. The proposed additional years of reactor operation is not expected to increase annual occupational doses to workers or doses to the general public.

With regard to normal plant operation, Duke Power Company will continue to comply with NRC guidance and requirements for keeping radiation exposures "As Low As Is Reasonably Achievable" (ALARA) for occupational exposures and for radioactivity in effluents, (hence doses to the public).

DUKE POWER COMPANY - CLONNEE NUCLEAR STATION

TABLE OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1978

WORK & JOB FUNCTION	NUMBER OF PERSONNEL			TOTAL PERSON-REM (>100 MEM)			CONTRACT WORKERS AND OTHERS		
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS
REACTION OPERATIONS & SURVEILLANCE									
MAINTENANCE PERSONNEL	215	178	205	8,053	10,411	12,289			
OPERATING PERSONNEL	314	5		82,476	.855	6,420			
HEALTH PHYSICS PERSONNEL	157	9	94	31,285	.345	1,140			
SUPERVISORY PERSONNEL	26		35	1,110					
ENGINEERING PERSONNEL	194	45		39,336	.939				
ROUTINE MAINTENANCE									
MAINTENANCE PERSONNEL	939	975	180	93,442	96,423	31,845			
OPERATING PERSONNEL	330	1		23,296	.010	16,115			
HEALTH PHYSICS PERSONNEL	269	12	378	11,440	.330	5,548			
SUPERVISORY PERSONNEL	22	3	118	.560	.020				
ENGINEERING PERSONNEL	261	77		12,200	2,750				
INSERVICE INSPECTION									
MAINTENANCE PERSONNEL	94	208	12	36,790	122,585	1,015			
OPERATING PERSONNEL	46	1		20,740	1,080	18,350			
HEALTH PHYSICS PERSONNEL	63	3	192	4,140	.075	88,272			
SUPERVISORY PERSONNEL	48	19	224	8,328	1,630				
ENGINEERING PERSONNEL				16,600					
SPECIAL MAINTENANCE									
MAINTENANCE PERSONNEL	517	725	50	53,835	151,917	6,150			
OPERATING PERSONNEL	283	2		14,400	.190	13,180			
HEALTH PHYSICS PERSONNEL	186	4	184	12,165	.880	93,815			
SUPERVISORY PERSONNEL	124		155	3,080					
ENGINEERING PERSONNEL	185	55		19,855	4,570				
BASIC PROCESSING									
MAINTENANCE PERSONNEL	34	20	50	4,685	1,460	11,830			
OPERATING PERSONNEL	151	3		19,300	.090	.405			
HEALTH PHYSICS PERSONNEL	50	4	11	3,340	.095	1,105			
SUPERVISORY PERSONNEL	13		9	2,785	.155				
ENGINEERING PERSONNEL	40	4		8,190					
FUELLING									
MAINTENANCE PERSONNEL	204	135	6	32,000	27,315	.057			
OPERATING PERSONNEL	390	7		51,705	.160	9,700			
HEALTH PHYSICS PERSONNEL	57	1	164	3,070	.010	16,445			
SUPERVISORY PERSONNEL	5		91	.185	.075				
ENGINEERING PERSONNEL	82	6		5,315					

JOFF POWER COMPANY -

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1978

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	257	341	159	228.105	410.111	63.186
OPERATING PERSONNEL	149	7	-	197.323	2.383	-
HEALTH PHYSICS PERSONNEL	97	11	52	65.040	1.785	64.170
SUPERVISORY PERSONNEL	29	2	-	16.920	.020	-
ENGINEERING PERSONNEL	161	63	270	101.440	10.159	206.385
GRAND TOTAL	683	424	511	607.984	424.460	333.741

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1979

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100 MREM)			TOTAL PERSON-REM (>100 MREM)		
	STATION	UTILITY	CONTRACT WORKERS	STATION	UTILITY	CONTRACT WORKERS
	EMPLOYEES	EMPLOYEES	AND OTHERS	EMPLOYEES	EMPLOYEES	AND OTHERS
REACTOR OPERATIONS & SURVEILLANCE						
MAINTENANCE PERSONNEL	239	226	160	11.625	13.645	7.500
OPERATING PERSONNEL	191	17	-	38.645	.555	-
HEALTH PHYSICS PERSONNEL	131	59	57	23.380	3.845	3.100
SUPERVISORY PERSONNEL	15	3	-	.420	.110	-
ENGINEERING PERSONNEL	169	84	66	22.625	2.630	1.865
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	781	406	166	86.561	30.352	29.550
OPERATING PERSONNEL	179	4	-	11.775	.160	-
HEALTH PHYSICS PERSONNEL	156	81	142	8.095	1.855	5.112
SUPERVISORY PERSONNEL	10	3	-	.255	.230	-
ENGINEERING PERSONNEL	142	81	61	7.810	2.605	1.505
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	55	73	6	7.055	13.600	.105
OPERATING PERSONNEL	12	-	-	.227	-	-
HEALTH PHYSICS PERSONNEL	40	14	34	1.120	.285	1.240
SUPERVISORY PERSONNEL	1	1	-	.020	.005	-
ENGINEERING PERSONNEL	29	11	78	2.535	.275	8.520
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	703	1157	68	122.034	143.175	14.703
OPERATING PERSONNEL	200	51	-	16.500	5.120	-
HEALTH PHYSICS PERSONNEL	250	191	257	10.467	7.970	10.265
SUPERVISORY PERSONNEL	26	2	-	3.795	.110	-
ENGINEERING PERSONNEL	237	248	472	32.480	21.029	57.892
WASTE PROCESSING						
MAINTENANCE PERSONNEL	31	15	21	4.595	.540	2.415
OPERATING PERSONNEL	105	-	-	8.980	-	-
HEALTH PHYSICS PERSONNEL	36	10	6	5.215	.125	.395
SUPERVISORY PERSONNEL	5	-	-	.755	-	-
ENGINEERING PERSONNEL	29	4	3	6.650	.215	.115
REFUELING						
MAINTENANCE PERSONNEL	420	423	44	46.240	62.170	5.685
OPERATING PERSONNEL	222	7	-	19.485	.605	-
HEALTH PHYSICS PERSONNEL	74	68	238	3.295	2.140	11.545
SUPERVISORY PERSONNEL	9	4	-	.235	.035	-
ENGINEERING PERSONNEL	151	62	152	15.680	3.110	29.695

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1979

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100 MREM)			TOTAL PERSON-REM (>100 MREM)		
	STATION	UTILITY	CONTRACT WORKERS	STATION	UTILITY	CONTRACT WORKERS
	EMPLOYEES	EMPLOYEES	AND OTHERS	EMPLOYEES	EMPLOYEES	AND OTHERS
TOTAL						
MAINTENANCE PERSONNEL	375	438	212	278.110	263.562	59.958
OPERATING PERSONNEL	131	29	-	95.612	6.380	-
HEALTH PHYSICS PERSONNEL	131	22	27	51.580	16.220	31.657
SUPERVISORY PERSONNEL	30	9	-	5.480	.490	-
ENGINEERING PERSONNEL	170	169	309	87.780	29.944	99.592
GRAND TOTAL	837	667	548	518.562	316.596	191.207

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1980

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100 MREM)			TOTAL PERSON-REM (>100 MREM)		
	STATION	UTILITY	CONTRACT WORKERS	STATION	UTILITY	CONTRACT WORKERS
	EMPLOYEES	EMPLOYEES	AND OTHERS	EMPLOYEES	EMPLOYEES	AND OTHERS
REACTOR OPERATIONS & SURVEILLANCE						
MAINTENANCE PERSONNEL	193	67	28	4.560	2.585	3.714
OPERATING PERSONNEL	112	8	0	46.759	4.025	.000
HEALTH PHYSICS PERSONNEL	77	43	42	22.040	3.905	7.290
SUPERVISORY PERSONNEL	8	0	0	.450	.000	.000
ENGINEERING PERSONNEL	88	16	10	27.260	1.340	.495
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	240	251	87	105.344	76.740	43.229
OPERATING PERSONNEL	79	6	0	8.115	.600	.000
HEALTH PHYSICS PERSONNEL	76	44	36	15.310	6.385	8.345
SUPERVISORY PERSONNEL	8	0	0	.495	.000	.000
ENGINEERING PERSONNEL	64	29	57	13.340	4.170	11.015
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	23	50	3	1.110	18.200	.050
OPERATING PERSONNEL	28	3	0	1.020	.070	.000
HEALTH PHYSICS PERSONNEL	23	23	17	1.335	1.135	1.460
SUPERVISORY PERSONNEL	2	0	0	.050	.000	.000
ENGINEERING PERSONNEL	8	13	32	.800	.410	11.290
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	171	312	35	53.235	204.017	2.345
OPERATING PERSONNEL	66	12	0	3.365	2.145	.000
HEALTH PHYSICS PERSONNEL	53	43	34	10.890	8.240	8.945
SUPERVISORY PERSONNEL	4	0	0	.505	.000	.000
ENGINEERING PERSONNEL	59	64	98	19.480	19.560	33.040
WASTE PROCESSING						
MAINTENANCE PERSONNEL	32	5	15	1.810	.075	3.075
OPERATING PERSONNEL	59	3	0	6.805	.170	.000
HEALTH PHYSICS PERSONNEL	35	8	6	4.655	.290	.780
SUPERVISORY PERSONNEL	1	0	0	.015	.000	.000
ENGINEERING PERSONNEL	22	2	0	4.515	.120	.000
REFUELING						
MAINTENANCE PERSONNEL	181	309	55	78.055	109.253	12.210
OPERATING PERSONNEL	100	9	0	23.325	1.910	.000
HEALTH PHYSICS PERSONNEL	52	39	44	5.815	3.655	10.320
SUPERVISORY PERSONNEL	8	0	0	2.690	.000	.000
ENGINEERING PERSONNEL	79	35	70	11.025	4.295	14.340

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1980

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100 MREM)			TOTAL PERSON-REM (>100 MREM)		
	STATION	UTILITY	CONTRACT WORKERS	STATION	UTILITY	CONTRACT WORKERS
	EMPLOYEES	EMPLOYEES	AND OTHERS	EMPLOYEES	EMPLOYEES	AND OTHERS
TOTAL						
MAINTENANCE PERSONNEL	267	426	127	244.114	410.870	64.623
OPERATING PERSONNEL	117	16	0	89.389	8.920	.000
HEALTH PHYSICS PERSONNEL	98	53	51	60.045	23.610	37.140
SUPERVISORY PERSONNEL	11	0	0	4.205	.000	.000
ENGINEERING PERSONNEL	100	77	155	76.385	29.075	70.180
GRAND TOTAL	601	572	333	474.130	473.275	171.943

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1981

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100 MREM)			TOTAL PERSON-REM (>100 MREM)		
	STATION	UTILITY	CONTRACT WORKERS	STATION	UTILITY	CONTRACT WORKERS
	EMPLOYEES	EMPLOYEES	AND OTHERS	EMPLOYEES	EMPLOYEES	AND OTHERS
REACTOR OPERATIONS & SURVEILLANCE						
MAINTENANCE PERSONNEL	74	152	38	3.955	6.850	4.510
OPERATING PERSONNEL	97	17	0	46.835	8.675	.000
HEALTH PHYSICS PERSONNEL	68	22	111	18.125	.940	16.385
SUPERVISORY PERSONNEL	5	2	0	.260	.105	.000
ENGINEERING PERSONNEL	90	30	25	18.075	3.550	.855
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	214	378	88	77.570	71.040	46.275
OPERATING PERSONNEL	32	8	0	1.845	1.395	.000
HEALTH PHYSICS PERSONNEL	63	12	103	8.705	.440	17.830
SUPERVISORY PERSONNEL	3	0	0	.140	.000	.000
ENGINEERING PERSONNEL	59	47	54	9.505	5.057	4.400
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	63	250	20	8.775	104.745	1.975
OPERATING PERSONNEL	9	2	0	.270	.085	.000
HEALTH PHYSICS PERSONNEL	34	8	91	2.285	.320	22.550
SUPERVISORY PERSONNEL	1	0	0	.030	.000	.000
ENGINEERING PERSONNEL	27	19	77	4.505	3.500	50.450
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	218	497	55	106.015	330.990	13.445
OPERATING PERSONNEL	62	14	0	7.225	1.715	.000
HEALTH PHYSICS PERSONNEL	56	19	114	16.400	2.045	39.695
SUPERVISORY PERSONNEL	5	1	0	1.515	.060	.000
ENGINEERING PERSONNEL	74	70	105	27.235	23.570	52.880
WASTE PROCESSING						
MAINTENANCE PERSONNEL	38	53	35	4.195	2.030	6.405
OPERATING PERSONNEL	22	4	0	1.725	.105	.000
HEALTH PHYSICS PERSONNEL	41	2	43	9.735	.020	1.825
SUPERVISORY PERSONNEL	2	0	0	.145	.000	.000
ENGINEERING PERSONNEL	27	1	0	4.850	.020	.000
REFUELING						
MAINTENANCE PERSONNEL	157	276	52	55.465	38.130	11.800
OPERATING PERSONNEL	74	14	0	9.680	1.750	.000
HEALTH PHYSICS PERSONNEL	37	18	86	4.485	2.830	11.935
SUPERVISORY PERSONNEL	3	1	0	.915	.030	.000
ENGINEERING PERSONNEL	62	32	66	10.255	3.030	11.690

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1981

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100 MREM)			TOTAL PERSON-REM (>100 MREM)		
	STATION	UTILITY	CONTRACT WORKERS	STATION	UTILITY	CONTRACT WORKERS
	EMPLOYEES	EMPLOYEES	AND OTHERS	EMPLOYEES	EMPLOYEES	AND OTHERS
TOTAL						
MAINTENANCE PERSONNEL	297	573	128	255.710	551.090	84.380
OPERATING PERSONNEL	102	18	0	67.580	13.725	.000
HEALTH PHYSICS PERSONNEL	92	24	121	59.415	6.190	110.110
SUPERVISORY PERSONNEL	7	2	0	3.005	.195	.000
ENGINEERING PERSONNEL	125	84	153	74.425	38.637	119.970
GRAND TOTAL	623	701	402	460.135	609.837	314.460

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1982

NUMBER OF PERSONNEL (>100 MREM)

TOTAL PERSON-REM (>100 MREM)

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

REACTOR OPERATIONS & SURVEILLANCE

MAINTENANCE PERSONNEL

OPERATING PERSONNEL

HEALTH PHYSICS PERSONNEL

SUPERVISORY PERSONNEL

ENGINEERING PERSONNEL

ROUTINE MAINTENANCE

MAINTENANCE PERSONNEL

OPERATING PERSONNEL

HEALTH PHYSICS PERSONNEL

SUPERVISORY PERSONNEL

ENGINEERING PERSONNEL

INSERVICE INSPECTION

MAINTENANCE PERSONNEL

OPERATING PERSONNEL

HEALTH PHYSICS PERSONNEL

SUPERVISORY PERSONNEL

ENGINEERING PERSONNEL

SPECIAL MAINTENANCE

MAINTENANCE PERSONNEL

OPERATING PERSONNEL

HEALTH PHYSICS PERSONNEL

SUPERVISORY PERSONNEL

ENGINEERING PERSONNEL

WASTE PROCESSING

MAINTENANCE PERSONNEL

OPERATING PERSONNEL

HEALTH PHYSICS PERSONNEL

ENGINEERING PERSONNEL

REFUELING

MAINTENANCE PERSONNEL

OPERATING PERSONNEL

HEALTH PHYSICS PERSONNEL

SUPERVISORY PERSONNEL

ENGINEERING PERSONNEL

DUKE POWER COMPANY - DCONEE NUCLEAR STATION

PRESENTATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1985

WORK AND 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	1107	959	137	755,687	625,872	119,445
MAINTENANCE PERSONNEL	877	736	26	460,680	387,522	117,486
OPERATING PERSONNEL	120	18	0	86,377	7,550	1,000
HEALTH PHYSICS PERSONNEL	121	0	120	40,410	0	143,321
SUPERVISORY PERSONNEL	1	2	3	6,435	213	1,000
ENGINEERING PERSONNEL	189	79	112	110,735	46,085	119,445
GRAND TOTAL	1107	959	137	755,687	625,872	119,445

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1983

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
REACTOR OPERATIONS & SURVEILLANCE						
MAINTENANCE PERSONNEL	77	46	18	1.620	0.880	0.045
OPERATING PERSONNEL	141	02	10	57.435	0.855	0.735
HEALTH PHYSICS PERSONNEL	66	01	67	14.985	0.035	3.680
SUPERVISORY PERSONNEL	06	00	00	0.470	0.000	0.000
ENGINEERING PERSONNEL	62	09	05	12.225	0.710	0.090
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	233	285	80	182.770	88.155	44.220
OPERATING PERSONNEL	129	01	54	28.205	0.265	58.805
HEALTH PHYSICS PERSONNEL	63	01	73	22.730	0.070	55.080
SUPERVISORY PERSONNEL	29	00	00	15.025	0.000	0.000
ENGINEERING PERSONNEL	75	12	29	13.245	1.530	14.025
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	55	121	22	3.935	43.125	15.985
OPERATING PERSONNEL	08	00	14	0.125	0.000	0.505
HEALTH PHYSICS PERSONNEL	10	00	58	0.410	0.000	7.840
SUPERVISORY PERSONNEL	01	00	00	0.310	0.000	0.000
ENGINEERING PERSONNEL	53	06	50	14.060	2.825	27.830
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	181	358	101	51.805	274.980	46.025
OPERATING PERSONNEL	48	01	08	3.075	0.355	0.095
HEALTH PHYSICS PERSONNEL	33	00	65	3.665	0.000	17.640
SUPERVISORY PERSONNEL	06	00	00	0.740	0.000	0.000
ENGINEERING PERSONNEL	64	19	33	18.995	4.230	13.100
WASTE PROCESSING						
MAINTENANCE PERSONNEL	41	12	02	2.575	0.890	0.180
OPERATING PERSONNEL	23	00	49	6.135	0.000	12.245
HEALTH PHYSICS PERSONNEL	29	00	22	10.335	0.000	2.775
SUPERVISORY PERSONNEL	01	00	00	0.070	0.000	0.000
ENGINEERING PERSONNEL	13	00	00	3.355	0.000	0.000
REFUELING						
MAINTENANCE PERSONNEL	139	37	19	39.740	3.065	4.285
OPERATING PERSONNEL	106	01	20	14.615	0.115	1.710
HEALTH PHYSICS PERSONNEL	17	00	56	0.515	0.000	7.065
SUPERVISORY PERSONNEL	03	00	00	0.350	0.000	0.000
ENGINEERING PERSONNEL	27	02	18	3.150	0.255	2.260

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1983

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	235	404	131	281.480	412.060	110.740
OPERATING PERSONNEL	149	02	65	110.460	1.590	73.225
HEALTH PHYSICS PERSONNEL	66	01	77	52.565	0.105	94.155
SUPERVISORY PERSONNEL	29	00	00	16.965	0.000	0.000
ENGINEERING PERSONNEL	96	24	81	65.115	9.465	57.305
GRAND TOTAL	575	431	354	526.585	423.220	335.425

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1984

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100 NREM)			TOTAL PERSON-REM (>100 NREM)		
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS
REACTOR OPERATIONS & SURVEILLANCE						
MAINTENANCE PERSONNEL	202	417	126	3.050	3.650	0.915
OPERATING PERSONNEL	154	01	23	45.480	0.645	1.235
HEALTH PHYSICS PERSONNEL	62	02	44	2.300	0.070	0.840
SUPERVISORY PERSONNEL	35	00	00	1.135	0.000	0.000
ENGINEERING PERSONNEL	82	27	04	11.566	0.435	0.000
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	221	474	93	118.055	96.107	41.540
OPERATING PERSONNEL	137	01	55	19.060	0.235	55.340
HEALTH PHYSICS PERSONNEL	75	02	92	35.645	0.370	37.929
SUPERVISORY PERSONNEL	31	00	00	4.246	0.000	0.000
ENGINEERING PERSONNEL	79	16	03	11.455	1.500	0.960
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	86	206	70	7.305	45.435	33.775
OPERATING PERSONNEL	11	00	16	0.150	0.000	0.400
HEALTH PHYSICS PERSONNEL	42	01	65	2.935	0.000	8.235
SUPERVISORY PERSONNEL	03	00	00	0.015	0.000	0.000
ENGINEERING PERSONNEL	55	04	03	11.020	0.330	1.425
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	195	553	134	55.480	327.620	59.905
OPERATING PERSONNEL	68	01	36	2.125	0.015	2.150
HEALTH PHYSICS PERSONNEL	54	01	88	12.685	0.015	22.280
SUPERVISORY PERSONNEL	16	00	00	0.940	0.000	0.000
ENGINEERING PERSONNEL	79	24	04	19.845	8.680	0.685
WASTE PROCESSING						
MAINTENANCE PERSONNEL	79	62	00	2.420	3.185	0.000
OPERATING PERSONNEL	60	00	50	15.045	0.000	8.400
HEALTH PHYSICS PERSONNEL	60	01	22	8.675	0.015	0.800
SUPERVISORY PERSONNEL	15	00	00	1.535	0.000	0.000
ENGINEERING PERSONNEL	25	03	00	0.830	0.440	0.000
REFUELING						
MAINTENANCE PERSONNEL	125	113	38	31.450	12.135	7.675
OPERATING PERSONNEL	123	01	13	20.985	0.245	1.565
HEALTH PHYSICS PERSONNEL	28	01	61	1.435	0.005	6.605
SUPERVISORY PERSONNEL	09	00	00	1.490	0.000	0.000
ENGINEERING PERSONNEL	34	03	01	1.940	0.195	0.120

DUKE POWER COMPANY - OCONEE NUCLEAR STATION

TABULATION OF NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1984

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	574	167	217.500	488.277	143.925
OPERATING PERSONNEL	155	61	62	102.845	1.140	169.090
HEALTH PHYSICS PERSONNEL	75	02	92	63.675	0.475	76.889
SUPERVISORY PERSONNEL	35	00	00	9.361	0.000	0.000
ENGINEERING PERSONNEL	92	29	05	56.446	11.790	3.190
GRAND TOTAL	580	606	326	449.827	501.682	293.094