BIG ROCK POINT PLANT

ANNUAL OPERATING REPORT - OCCUPATIONAL EXPOSURE

8003050

The following is a list of personnel radiation exposure by job breakdown for the refueling outage and the special F-2 outage.

The radiation exposure accumulated during the entire report period appears at the end of this section and meets the Technical Specification reporting requirement of 6.9.1.b.

These exposures were tabulated from pocket dosimeter records, radiation protection logbooks, weekly radiation exposure record work sheets and high radiation area work sheets.

The total plant personnel dose is higher than 1978 due to the extended outage period and the nature of work performed.

The two outages account for 94.9% of the total pocket dosimeter accumulation for 1979.

1979 Summary - Pocket Dosimeters

	mRem
Non-Consumers Power	102776
Plant Staff Personnel	
Operations	52900
Maintenance	86901
Health Physics	47557
Instrument & Control	16241
Supervision	23763
Engineering	16269
Quality Control	3815
CPCo Non-Plant Personnel	
Quality Assurance	4197
Engineering	7479
NDT	557
Maintenance	101464
Supervision	594
Health Physics	9319
Miscellaneous	24
GRAND TOTAL	474856
Sub Total	
Non-CPCo	102776
Plant Staff	248446
CPCo Non-Plant Staff	123634
	474856

SUMMARY

Big Rock Point Plant

Refueling Outage & Replace Core Spray Sparger/Steam Baffle

January 29, 1979 to April 22, 1979

Consumers Power Totals	mRem
Operations	21403
Supervision	10374
Engineering	5683
Maintenance	29320
Health Physics	15625
Instrument & Control	6568
Quality Control	846
Non-Plant Maintenance	73937
Non-Plant Health Physics	8800
Non-Plant Engineering	4230
Quality Assurance	2478
Total CPCo	179264

Non-Consumers Power	mRem
NewKirk	1
Allis Chalmers	3
Hartford Steam Boiler	122
Mich. Dept of Health	10
Bartletts Decorator	19
Assoc. Mech. Services	18
RCA	3
Federal Industrial Services	39
General Electric	5665
Commonwealth Associates	23
Owens Corning	21579
Trans Eastern Inspection	1015
SWRI	11368
Exxon	12176
NRC	48
Mich. Tractor & Mach. Co.	5
Nuclear Services	105
Energy Inc.	17
Non-CPCO Total	58276

BRP Plant Staff Exposure versus Specific Work Activity

January 29, 1979 to April 22, 1979

Operations	mRem	Men
Routine	9250	21
Hydro Check, start-up checks & grand tour-	215	2
Shutdown Hx Room Valving	708	8
RCP Room Valving	1806	14
Pipe Tunnel Valving	12	1
Steam Drum Valving	332	3
CRD Room Valving	17	2
ISI	180	1
Waste Processing	647	11
Rx Deck Work	4807	18
Refueling	3430	14
Total	21403	

Maintenance	mRem	Men
Routine	7672	15
Grand tour & Hydro Insp.	15	1
RCP Room Valve work, light bulbs	1129	8
CRD Room Cleaning	28	2
Rx Head Removal	1415	8
Rx.Head Install	2169	9
Solid Waste Disposal	421	6
Rx Deck Work	27	3
CRD Room Incores	3816	10
ISI	808	3
Cobalt Cask	45	2
C.U.	517	1
Steam Drum Valve Work	6233	10
C.U. Demin Pit Valves	461	2
CRD Room O-Rings	2022	5
Shutdown Hx Room Clean	70	2
Special Maint.	2458	8
Pipe Tunnel	14	2
Total	29320	

BRP Plant Staff Exposure versus Specific Work Activity (Continued)

Health Physics	mRem	Men
Routine	2717	7
Monitoring Maintenance	7049	7
Monitoring ISI	4284	7
Monitoring Special Maint.	951	7
Grand Tour	50	1
Monitoring Waste Disposal	208	2
Monitoring Rx Head-Off	165	4
Monitoring Rx Head-On	201	4
Total	15625	

Supervision	mRem	Men
Routine	4203	17
Grand Tour	231	5
Maintenance Supv.	2944	6
Rx Head	86	1
Refueling	1144	6
ISI	1035	3
Special Maint	719	6
Waste Processing	12	1
Total	10374	

Instrument & Control	mRem	Men
Routine	955	7
Routine Maintenance	2446	7
Shutdown Hx Room	450	5
CRD Room		
Incores & CRDs	1238	6
RCP Room	1065	5
ISI	55	1
Rx Deck		
Incores, Neut. Inst.	18	3
C.U. Hx Room	148	2
Steam Drum	193	1
Total	6568	

Quality Control	mRem	Men
Routine	397	2
Steam Drum	318	2
RCP Room	55	1
Under Rs Head	49	1
Head Installation	27	1
Total	846	

CPCo Non-Plant Exposure versus Specific Work Activity

Maintenance	mRem	Men
Routine	1980	35
CRD Room	1473	5
RCP Room		
Valve Work	14502	18
Insulation	6009	6
Clean-up	3307	7
Turbine Area	25	2
Shutdown Hx Room	2529	11
Radwaste	857	11
Rx. Deck	311	7
Steam Drum		
Scaffolding	23061	22
Valve Work	9393	15
Insulation	4489	14
Total	73937	

Engineering	mRem	Men
Routine	912	18
Rx Deck	65	1
Steam Drum	1298	3
RCP Room	1938	3
CRD Room	17	1
Total	4230	

NDT	mRem	Men
Routine	34	3
Rx Deck	526	3
RCP Room	2118	5
Steam Drum	1026	4
Rx Vessel Flange	692	2
C.U. Pump Room	18	1
Shutdown Hx Room	140	1
Total	4554	

Health Physics	mRem	Men
Monitoring	8800	5
Total	8800	

Quality Assurance	mRem	Men
Routine	908	7
Refueling	38	2
ISI	759	7
Special Maint.	773	7
Total	2478	

NON-CPCo Exposure versus Specific Work Activity

		mRem	Men
NewKirk			
Routine		1477	22
RCP Room		4584	22
	Total	6061	
Allis Chalmers			
Routine	Total	3	1
Hartford Steam Boiler			
ISI	Total	122	3
Mich. Dept of Health			
Routine	Total	10	1
Bartletts Decorator			
Routine	Total	19	2
Associated Mech. Services			
Routine	Total	18	1
RCA			
Routine	Total	3	1
Federal Indus. Services			
Routine	Total	39	2
General Electric			
Rx Deck	Total	5665	16
Commonwealth Associates			
Routine	Total	23	1
Owens Corning			
Routine		730	6
Insulation		20849	6
	Total	21579	

		mRem	Men
Trans Eastern Inspection			
Routine		47	2
ISI		968	2
	Total	1015	
SWRI			
Routine		483	11
ISI		10885	11
	Total	11368	
Exxon			
Rx Deck	Total	12176	9
NRC			
Routine	Total	48	5
Mich. Tractor & Mach. Co.			
Routine	Total	5	1
Nuclear Services			
Routine		19	1
RCP Room		86	1
	Total	105	
Energy Inc.			
Routine	Total	17	1

SPECIAL OUTAGE - F-2 DRIVE

April 23, 1979 to November 8, 1979

SUMMARY

Consumers Power Totals	mRem
Operations	27022
Supervision	10149
Engineering	9150
Maintenance	52858
Health Physics	26962
Instrument Control	8955
Quality Control	2688
Non-Plant Maintenance	26135
Non-Plant Engineering	3107
Quality Assurance	1529
Non-Plant NDT	527
Health Physics- Non-Plant	519
Supervision- Non-Plant	594
Miscellaneous	24
Total CPCo	170219

Non-Consumers Power	mRem
General Electric	15018
D'Appolonia	130
NRC	302
Detroit Edison	100
Combustion Engineering	6176
Exxon	12
Associated Mech. Services	173
Pennington Brothers	35
Nuclear Services	78
Argiro	299
NewKirk	2778
Catalytic	3
Chem-Nuclear	989
SWRI	1621
Merrick Engineering	140
Commonwealth Associates	10

Non-Consumers Power (Continued)	mRem
Westinghouse	20
Bechtel	13496
Energy Inc.	55
Federal Industrial Services	90
Hartford Steam Boiler	123
Nuclear Tech.	1028
Erickson Trucking	17
Burns Security	10
Moog. Engineering	2
Non-CPCo Total	42705

BRP Plant Staff Exposure versus Specific Work Activity

April 23, 1979 to November 8, 1979

Operations	mRem	Men
Routine	16249	22
Rx Deck	5436	16
Refueling	2228	12
Pipe Tunnel		
Valving & Tagging	174	3
Inspection	40	2
Steam Drum		
Valving & Tagging	471	3
Hydro Inspection	7	1
Recirc Pump Room		
Valving & Tagging	1637	8
Inspection	306	2
Painting	3	1
Shutdown Hx Room		
Valving & Tagging	52	3
Inspection	30	3
CRD Room		
Valving & Tagging	63	3
Hydro	226	6
C.U. Hx Room		
Valving & Tagging	38	2
Rx. Pump Room		
Valving	8	1
Clean-Up Demin Pit		
Valving	18	1
ISI	2	1
Solid Waste Disposal	20	3
Liquid Waste Disposal	14	1
Total	27022	

Supervision	mRem	Men
Routine	4905	17
CRD Room	902	9
CRD Access	140	1
Steam Drum	229	6
RCP Room	1062	9
RxDeck		
Diffusers	13	1
Mushroom	17	1
Misc.	1650	6
Refueling	738	5
C.U. Hx Room	13	2
Shutdown Hx Room	9	3
C.U. Pit	20	3
Pipe Tunnel	151	3
ISI		
Fuel Pool	10	1
Valves	263	2
Inspect Head	27	1
Total	10149	

BRP Plant Staff Exposure versus Specific Work Activity (Continued)

Engineering	mRem	Men
Routine	5706	16
CRD Room		
Sound Analysis	28	2
Hydro	88	2
Inspection	1530	9
ISI		
CRD Room (Pictures)	47	1
Tank Room	40	1
Chem Tank	33	1
Rx Deck	26	1
Steam Drum	130	3
RCP Room	356	4
C.U. Hx Room	22	1
Rx Deck		
Baffle Plates	1144	4
Total	9150	

Maintenance	mRem	Men
Routine	16451	17
Waste Process		
Solid Waste Disposal	92	5
RCP Room		
Sump Float	45	1
Valve Repair & Packing	10260	8
Drain Work	145	3
Hangers	769	1
Pump Seal	1946	3
Special Maintenance		
RCP Room Scaffolding	509	3
CRD Access	278	5
CRD Room		
Thermal Sleeve	523	3
Replace Modules	1232	8
Remove & Install Incores	1593	8
Repair Hoist Switch	48	1
Rod Work	1196	6
Inspection	18	1
Install Scaffolding	21	1
Install Blank Flange	37	2
Clean-Up	210	4
O-Rings	4099	6
Install Insulation	40	1
Steam Drum		
Install Pop Gags	10	2
Valve Work	2993	6
Recycle Line Work	403	5
Yarways	141	2
Rx Deck		
Remove Thermal Insulation	10	1
Rx Seal	623	4
Remove Head	787	5
Surveillance Coupon	4438	3
Install Fuel Pool Filter Cover	40	1

Maintenance (Continued)	mRem	Men
Rx. Deck (Continued)		
Baffle Plate & Diffuser	660	5
Clean-Up	16	2
Vent Line	197	2
Head Insulation	2917	9
Clean-Up Pit	35	1
Pipe Tunnel	76	2
Total	52858	

Health Physics	mRem	Men
Routine	9044	9
RCP Room	6112	9
CRD Access	166	3
CRD Room	6541	9
Steam Drum	1860	6
Pipe Tunnel	44	4
Rx. Deck	1261	9
Old Fuel Sock Room	100	1
Tank Room	408	3
Fuel Pool Filter Area	22	1
Chemical Tank	23	1
Special Maintenance	230	1
Shutdown Hx. Room	166	6
Solid Waste Disposal	54	2
Fuel Pool	83	3
C.U. Demin Pit	119	4
C.U. Hx. Room	266	4
Seismic Studies	463	2
Total	26962	

Instrument & Control	mRem	Men
Routine	5007	7
CRD Room	2879	7
Rx. Deck	70	2
Steam Drum	168	2
RCP Room	770	2
Shutdown Hx Room	61	2
Total	8955	

Quality Control	mRem	Men
Routine	1845	3
CRD Room	319	2
RCP Room	482	2
Rx. Deck	42	1
Total	2688	

CPCo Non-Plant Exposure versus Specific Work Activity

Maintenance	mRem	Men
Routine	3148	22
CRD Room		
Remove Modules	105	1
Scaffolding	576	2
O-Rings	2910	2
Insulation	911	6
Incores	220	3
Steam Drum		
Scaffolding	7709	6
RCP Room		
Scaffolding	999	2
Hangers	2170	7
Valve Work	1272	4
C.U. Hx Room		
Hangers	168	2
Total	26135	

Engineering	mRem	Men
Routine	915	30
CRD Room		
Sound Analysis	646	14
RCP Room		
Sound Analysis	607	14
Tank Room	40	
ISI	798	4
Steam Drum	70	2
C.U. Hx Room	72	1
Total	3107	

Quality Assurance	mRem	Men
Routine	1529	11
Total	1529	

Non-Destructive Testing	mRem	Men
Routine	140	5
ISI	387	5
Total	527	

Health Physics	mRem	Men
Routine	82	2
RCP Room	437	1
Total	519	

CPCo Non-Plant Exposure versus Specific Work Activity (Continued)

Supervision		mRem	Men
Routine		45	2
RCP Room		477	1
ISI			
RCP Room		72	1
	Total	594	
Other (Miscellaneous)			
Routine		24	1

NON- CPCo Exposure versus Specific Work Activity

		mRem	Men
General Electric			
Routine		3	1
CRD Room		382	4
Rx Deck		14633	24
	Total	15018	
D'Appolonia			
Steam Drum	Total	130	2
NRC			
Routine		29	3
Steam Drum		15	1
CRD Room		208	2
RCP Room		50	1
	Total	302	
Detroit Edison			
Routine	Total	100	2
Combustion Engineering			
Routine		172	6
CRD Room		6004	6
	Total	6176	
Exxon			
Routine	Total	12	1
Associated Mech. Services			
Routine		26	5
CRD Room		20	2
RX Deck		21	2
RCP Room		106	3
	Total	173	
Pennington Brothers			
Routine		5	1
ISI		30	1
	Total	35	

NON- CPCo Exposure versus Specific Work Activity (Continued)

		mRem	Men
Nuclear Services			
Routine		38	3
RX Deck		10	2
CRD Room		30	2
	Total	78	
Argiro			
Routine		174	1
CRD Room		125	1
	Total	299	
NewKirk			
Routine		1894	18
RCP Room		884	8
	Total	2778	
Catalytic			
Routine	Total	3	1
Chem-Nuclear			
Solid Waste	Total	989	3
SWRI			
ISI			
CRD Room		1491	2
C.U. Hx Room		130	1
	Total	1621	
Merrick Engineering			
Routine	Total	140	2
Commonwealth Associates			
Routine	Total	10	1
Westinghouse			
Routine	Total	20	2

NON- CPCo Exposure versus Specific Work Activity (Continued)

Bechtel		mRem	Men
Routine		533	12
Steam Drum		6160	8
C.U. Demin		19	3
C.U. Hx Room		339	3
CRD Room		171	3
RCP Room		5810	7
Shutdown Hx Room		288	5
Tank Room		176	2
	Total	13496	

Energy Inc.		mRem	Men
Routine		12	3
Steam Drum		43	3
	Total	55	

Federal Industrial Services			
Turbine Area	Total	90	1

Hartford Steam Boiler			
Routine		10	2
ISI			
CRD Room		96	1
RCP Room		17	1
	Total	123	

Nuclear Tech.			
Routine		21	3
ISI		1007	3
	Total	1028	

Erickson Trucking			
Routine	Total	17	2

Burns Security			
Routine	Total	10	1

Moog Engineering			
Routine	Total	2	1

NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION
AT THE BIG ROCK POINT NUCLEAR GENERATING PLANT
1979
Refueling Outage & Corespray Sparger Replacement- January 29 to April 22, 1979

Work and Job Function	Number of Personnel (100mRem)			Total mRem		
	Station Empl.	Utility Empl.	Contract Workers & Others	Station Empl.	Utility Empl.	Contract Workers & Others
REACTOR OPERATIONS & SURVEILLANCE						
Maintenance Personnel		35			7,980	
Operating Personnel	21			12,340		
Health Physics Personnel	7			2,767		
Supervisory Personnel	17			4,434		
Engineering Personnel	13	18		2,847	912	
Instrument & Control Personnel	7			955		
Clerical Personnel						
QA & QC	2	7		397	908	
NDT Personnel		3			34	
All Other Personnel			58			2,941
ROUTINE MAINTENANCE						
Maintenance Personnel	18	35		25,633	65,100	
Operating Personnel						
Health Physics Personnel	7	4				
Supervisory Personnel	17			3,030		
Engineering Personnel	13			400		
Instrument & Control Personnel	7	2		5,556		
Clerical Personnel						
QA & QC Personnel	2	7		132		
NDT Personnel						
All Other Personnel			32			13,894

NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION
AT THE BIG ROCK POINT NUCLEAR GENERATING PLANT
1979

Refueling Outage & Corespray Sparger Replacement- January 29 to April 22, 1979

Work and Job Function	Number of Personnel (100mRem)			Total mRem		
	Station Empl.	Utility Empl.	Contract Workers & Others	Station Empl.	Utility Empl.	Contract Workers & Others
INSERVICE INSPECTION						
Maintenance Personnel	18			808		
Operating Personnel	21			180		
Health Physics Personnel	7	4				
Supervisory Personnel	17			1,035		
Engineering Personnel	13	18		2,233	3,318	
Instrument & Control Personnel	7			55		
Clerical Personnel						
QA & QC	2	7		317	759	
NDT Personnel		9			4,520	
All Other Personnel			32			23,122
SPECIAL MAINTENANCE						
Maintenance Personnel	18			2,458		
Operating Personnel						
Health Physics Personnel						
Supervisory Personnel	17			719		
Engineering Personnel	13			173		
Instrument & Control Personnel						
Clerical Personnel						
QA & QC Personnel		7			773	
NDT Personnel			14			6,620

NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION
AT THE BIG ROCK POINT NUCLEAR GENERATING PLANT
1979

Refueling Outage & Corespray Sparger Replacement- January 29 to April 22, 1979

Work and Job Function	Number of Personnel (100mRem)			Total mRem		
	Station Empl.	Utility Empl.	Contract Workers & Others	Station Empl.	Utility Empl.	Contract Workers & Others
WASTE PROCESSING						
Maintenance Personnel	18	11		421	857	
Operating Personnel	21			652		
Health Physics Personnel						
Supervisory Personnel	17			12		
Engineering Personnel						
Instrument & Control Personnel						
Clerical Personnel						
QA & QC						
NDT Personnel						
All Other Personnel						
REFUELING						
Maintenance Personnel						
Operating Personnel	21			8,231		
Health Physics Personnel						
Supervisory Personnel	17			1,144		
Engineering Personnel	13			30		
Instrument & Control Personnel	7			2		
Clerical Personnel						
QA & QC Personnel		2			38	
NDT Personnel						
			12			11,699

NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION
AT THE BIG ROCK POINT NUCLEAR GENERATING PLANT
1979

Refueling Outage & Corespray Sparger Replacement- January 29 to April 22, 1979

Work and Job Function	Number of Personnel (100mRem)			Total mRem		
	Station Empl.	Utility Empl.	Contract Workers & Others	Station Empl.	Utility Empl.	Contract Workers & Others
MONITORING						
Maintenance Personnel						
Operating Personnel						
Health Physics Personnel	7	5		12,858	8,800	
Supervisory Personnel						
Engineering Personnel						
Instrument & Control Personnel						
Clerical Personnel						
QA & QC						
NDT Personnel						
All Other Personnel						
TOTAL EXPOSURE						
Maintenance Personnel	18	35		29,320	73,937	
Operating Personnel	21			21,403		
Health Physics Personnel	7	5		15,625	8,800	
Supervisory Personnel	17			10,374		
Engineering Personnel	13	18		5,683	4,230	
Instrument & Control Personnel	7	2		6,568		
Clerical Personnel						
QA & QC Personnel	2	7		846	2,478	
NDT Personnel		9			4,554	
All Other Personnel			86			58,276

NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION
AT THE BIG ROCK POINT NUCLEAR GENERATING PLANT
1979

Special Outage- F-2 Drive- April 23 - November 8

Work and Job Function	Number of Personnel (100mRem)			Total mRem		
	Station Empl.	Utility Empl.	Contract Workers & Others	Station Empl.	Utility Empl.	Contract Workers & Others
REACTOR OPERATIONS & SURVEILLANCE						
Maintenance Personnel	22			19,792		
Operating Personnel	9	4		26,406	519	
Health Physics Personnel	17	2		8,548	45	
Supervisory Personnel	16	30		8,853	2,257	
Engineering Personnel	7			4,714		
Instrument & Control Personnel						
Clerical Personnel	3	11		2,309	1,529	
QA & QC		5			140	
NDT Personnel	1		72	24		3,231
All Other Personnel						
ROUTINE MAINTENANCE						
Maintenance Personnel	17	22	37	52,257	26,135	2,778
Operating Personnel						
Health Physics Personnel						
Supervisory Personnel						
Engineering Personnel	7			4,241		
Instrument & Control Personnel						
Clerical Personnel						
QA & QC Personnel						
NDT Personnel						

NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION
AT THE BIG ROCK POINT NUCLEAR GENERATING PLANT
1979
Special Outage- F-2 Drive- April 23 to November 8, 1979

Work and Job Function	Number of Personnel (100mRem)			Total mRem		
	Station Empl.	Utility Empl.	Contract Workers & Others	Station Empl.	Utility Empl.	Contract Workers & Others
INSERVICE INSPECTION						
Maintenance Personnel	1			2		
Operating Personnel	3			272		
Health Physics Personnel	1	2		273	549	
Supervisory Personnel	4	16		297	798	
Engineering Personnel						
Instrument & Control Personnel						
Clerical Personnel	3			406		
QA & QC		5			387	
NDT Personnel			38			8,462
All Other Personnel						
SPECIAL MAINTENANCE						
Maintenance Personnel	3			509		
Operating Personnel						
Health Physics Personnel	1			230		
Supervisory Personnel						
Engineering Personnel		1			52	
Instrument & Control Personnel						
Clerical Personnel						
QA & QC Personnel						
NDT Personnel						
All Other Personnel			69			27,245

NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION
AT THE BIG ROCK POINT NUCLEAR GENERATING PLANT
1979
Special Outage- F-2 Drive- April 23 to November 8, 1979

Work and Job Function	Number of Personnel (100mRem)			Total mRem		
	Station Empl.	Utility Empl.	Contract Workers & Others	Station Empl.	Utility Empl.	Contract Workers & Others
WASTE PROCESSING						
Maintenance Personnel	5			92		
Operating Personnel	2			33		
Health Physics Personnel	2			54		
Supervisory Personnel						
Engineering Personnel						
Instrument & Control Personnel						
Clerical Personnel						
QA & QC						
NDT Personnel						
All Other Personnel			2			989
REFUELING						
Maintenance Personnel						
Operating Personnel	19			7,195		
Health Physics Personnel						
Supervisory Personnel	6			1,328		
Engineering Personnel						
Instrument & Control Personnel						
Clerical Personnel						
QA & QC Personnel						
NDT Personnel						

NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION
AT THE BIG ROCK POINT NUCLEAR GENERATING PLANT
1979

Special Outage- F-2 Drive - April 23 to November 8, 1979

Work and Job Function	Number of Personnel (100mRem)			Total mRem		
	Station Empl.	Utility Empl.	Contract Workers & Others	Station Empl.	Utility Empl.	Contract Workers & Others
MONITORING						
Maintenance Personnel						
Operating Personnel						
Health Physics Personnel	9	4		26,962	519	
Supervisory Personnel						
Engineering Personnel						
Instrument & Control Personnel						
Clerical Personnel						
QA & QC						
NDT Personnel						
All Other Personnel						
TOTAL EXPOSURE						
Maintenance Personnel	17	22	37	52,858	26,135	2,778
Operating Personnel	22	0		27,022		
Health Physics Personnel	9	4		26,962	519	
Supervisory Personnel	17	2		10,149	594	
Engineering Personnel	16	30		9,150	3,107	
Instrument & Control Personnel	7	0		8,955		
Clerical Personnel	0	0				
QA & QC Personnel	3	11		2,688	1,529	
NDT Personnel		5			527	
All Other Personnel	1		69	24		39,927