



General Distribution

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## ISOE INFORMATION SHEET

North American Technical Center  
Information System on Occupational Exposure

**3-YEAR ROLLING AVERAGE ANNUAL DOSE COMPARISONS  
United States Pressurized Water Reactor (PWR)  
1998-2000 Occupational Dose Benchmarking Charts**

### NATC ISOE Information Sheet No. 01-1

NATC ISOE Information Sheet No. 01-1 presents the U.S. Pressurized Water Reactor (PWR) occupational exposure results for FY 2000. The 3-Year Rolling Average Occupational Dose Comparisons provide a means to evaluate site occupational dose performance over an entire fuel cycle.

For this report, annual site doses were used for 1998, 1999 and 2000. Annual site doses were divided by the number of units per site. The top 10% US PWR units for this period are provided in the following table.

Site Name	Three Year Rolling Average Person-Rem (Person-mSv)
Indian Point 3	47 (470)
Prairie Island 1,2	49 (490)
Palo Verde 1,2,3	55 (550)
Three Mile Island 1	60 (600)

**Table 1: U.S. PWR Three-Year Rolling Average, 1998-2000**

**TABLE 1: U.S. PRESSURIZED WATER REACTORS  
THREE-YEAR ROLLING AVERAGE, 1998-2000**

SITE NAME	COMPANY	Collective Radiation Exposure Per Site (Person-Rem or Person-cSv)													Three-Year Rolling Average
		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000^	Per Unit
Indian Point 3	New York Power Authority	93	876	358	40	194	53	58	67	26	234	14.8	117	8.693	47
Prairie Island 1,2	Northern States Power Co.	200	100	188	98	216	105	109	106	112	174	117	72	106.091	49
Palo Verde 1,2,3	Arizona Public Service Co.	688	720	498	606	528	612	455	482	322	246	192	146	158.105	55
Three Mile Island 1	GPU Nuclear Corporation	210	54	264	198	34	206	40	213	16	204	16.7	155	8.689	60
Kewaunee	Wisconsin Public Service Co.	210	239	145	221	113	105	74	95	123	56	88	5	99.864	64
Seabrook	North Atlantic Energy Service Corp.	0	0	6	92	135	5.6	113	102	10	186	18.5	106	70.091	65
St. Lucie 1,2	Florida Power & Light Co.	612	496	778	480	244	461	504	413	392	646	134	177	98.691	68
North Anna 1,2	Virginia Power	112	1472	590	630	590	908	192	359	324	103	266	94	65.405	71
Watts Bar 1	Tennessee Valley Authority	0	0	0	0	0	0	0	0	0	112	3	99	122.453	75
Catawba 1,2	Duke Power Company	556	334	810	462	394	397	206	462	303	266	162	119	186.532	78
Beaver Valley 1,2	Duquesne Light Company	530	1378	348	496	272	620.5	44	453	450	306	59	99	337.867	83
Shearon Harris	Carolina Power & Light Co.	169	156	85	226	213	30.8	222	174	20	149	133	16	100.981	83
Millstone 2,3	Northeast Utilities	804	1080	594	382	1094	520.7	196	423	128	253	113	252	135.079	83
Point Beach 1,2	Wisconsin Electric Power Co.	410	504	378	266	256	186	177	190	98	92	169	194	138.989	84
Turkey Point 3,4	Florida Power & Light Co.	738	434	730	940	322	360	468	219	188	414	156	128	219.852	84
Vogtle 1,2	Georgia Power Company	138	32	466	362	426	366.6	216	199	454	158	162	229	121.312	85
Calvert Cliffs 1,2	Baltimore Gas & Electric Co.	292	346	304	132	330	406.8	458	236	239	229	187	192	134.689	86
Ginna	Rochester Gas & Electric Corp.	295	605	347	328	261	193	148	136	211	81	14.9	175	67.435	86
Surry 1,2	Virginia Power	1542	836	576	510	588	386.7	378	406	200	320	189	138	193.169	87
McGuire 1,2	Duke Power Company	1104	620	728	362	386	463	385	143	234	492	142	257	132.513	89
Waterford 3	Entergy Operations, Inc.	259	245	39	345	210	13.8	187	155	24	148	24	123	131.701	93
Oconee 1, 2, 3	Duke Power Company	870	684	405	552	654	238	527	304	258	223	366	202	272.697	93
Crystal River 3	Florida Power Corporation	64	234	476	116	425	69.4	227	8	354	179	19.3	251	14.649	95
Comanche Peak 1,2	TU Electric	0	0	8	148	163	102	92	164	280	146	232	265	77.697	96
Arkansas 1,2	Entergy Operations, Inc.	1388	712	762	352	846	210	171	387	213	119	167	184	242.326	99
Braidwood 1,2	Commonwealth Edison Co.	75	296	186	550	226	273.2	299	237	336	321	259	146	194.126	100
Summer 1	South Carolina Electric & Gas Co.	511	52	376	291	26	276.4	347	10	107	163	13.5	120	166.561	100

Wolf Creek	Wolf Creek Nuclear Operating Corp.	297	18	195	331	66	168	230	14	115	265	10.3	148	143.417	101
Robinson 2	Carolina Power & Light Co.	564	195	437	193	352	325	63	215	167	13	170	124	8.396	101
Cook 1,2	Indiana Michigan Power Co.	936	494	580	70	492	43.6	467	202	216	550	105	171	337.584	102
Salem 1,2	Public Service Electric & Gas Co.	504	338	272	459	416	413	188	227	340	175	41.1	318	257.575	103
San Onofre 1,2,3 *	Southern California Edison Co.	780	567	885	411	330	767	40	453	144	341	196	354	115.499	111
South Texas 1,2	Houston Lighting & Power Co.	0	161	206	258	140	251	48	294	204	273	184	260	231.634	113
Davis-Besse	Centerior Energy Corp.	307	38	489	216	20	336	145	7	159	10	155	28	168.043	117
Byron 1,2	Commonwealth Edison Co.	458	192	434	268	199	431.6	280	306	456	241	275	239	193.871	118
Sequoyah 1,2	Tennessee Valley Authority	678	658	1678	698	465	371.8	346	239	266	414	255	165	357.22	130
Diablo Canyon 1,2	Pacific Gas & Electric Co.	878	466	324	546	426	260	590	300	276	219	173	447	180.792	133
Fort Calhoun	Omaha Public Power District	272	93	290	57	256	156.5	23	139	236	41	223	159	35.215	139
Palisades	Consumers Power Company	730	314	766	211	292	288	61	454	302	48	217	218	26.305	154
Farley 1,2	Southern Nuclear Operating Company	552	750	458	648	804	333	251	461	232	278	432	190	359.855	164
Callaway	Union Electric Company	27	283	442	21	336	224	14	186	248	12	201	321	16.058	179
Indian Point 2	Consolidated Edison of New York	235	1436	608	1468	82	674.8	48	546	56	367	290	41	567.224	299
Total Units Included * :		68	68	68	68	68	68	68	68	68	69	69	69	69	
Annual PWR Average * :		269	236	250	190	185	167	158	162	151	154	108	126	82	

Conn Yankee and Maine Yankee were shut down during 1997.

Zion was shut down in 1998.

2000^ - Based on Official TLD Data