



INFORMATION SYSTEM ON OCCUPATIONAL EXPOSURE

General Distribution

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ISOE Information Sheet

**North American Technical Center
Information System on Occupational Exposure**

**North American Pressurized Water Reactor (PWR)
2006 Occupational Dose Benchmarking Charts**

NATC ISOE Information Sheet No. 10-4

NATC ISOE Information Sheet No. 10-4 presents the North American Pressurized Water Reactor (PWR) occupational exposure results for FY 2006. Exposure categories per unit include refueling outage duration and dose, normal operations dose, and total dose.

The 2006 PWR charts are arranged in the following format:

Table 1a-d: Outage Duration Quartiles

Table 2a-d : Outage Dose Quartiles

Table 3a-d : Normal Operation Dose Quartiles

Table 4a-d : Total Dose Quartiles

Table 5: 2006 PWR Occupation Dose Data

For reference, selected data for 2006 PWR collective dose per reactor unit is provided in the table below:

Country	Collective Dose per Reactor (man.Sv)
United States	0.87
Russia	0.70
Japan	1.09

Table 1a: 2006 Outage Duration - Top Quarter

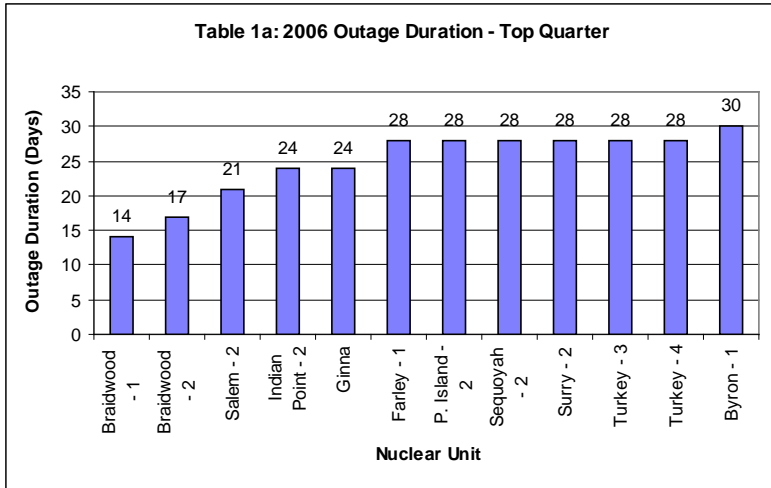


Table 1c: 2006 Outage Duration - Third Quartile

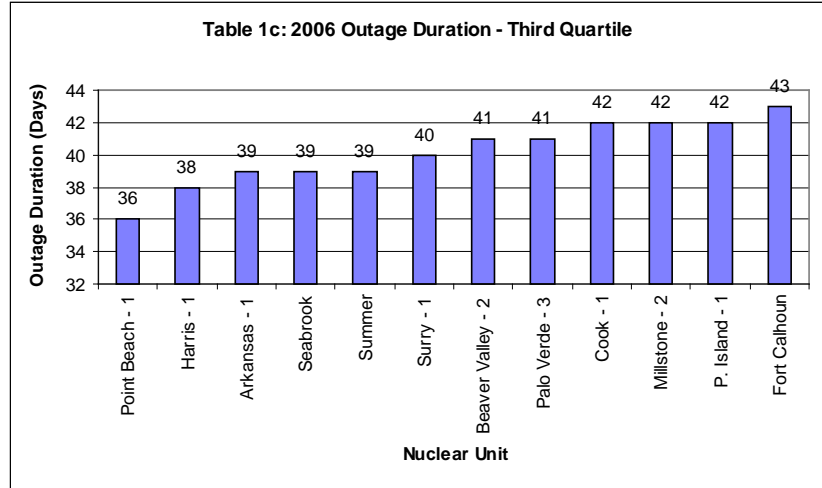


Table 1b: 2006 Outage Duration - Second Quartile

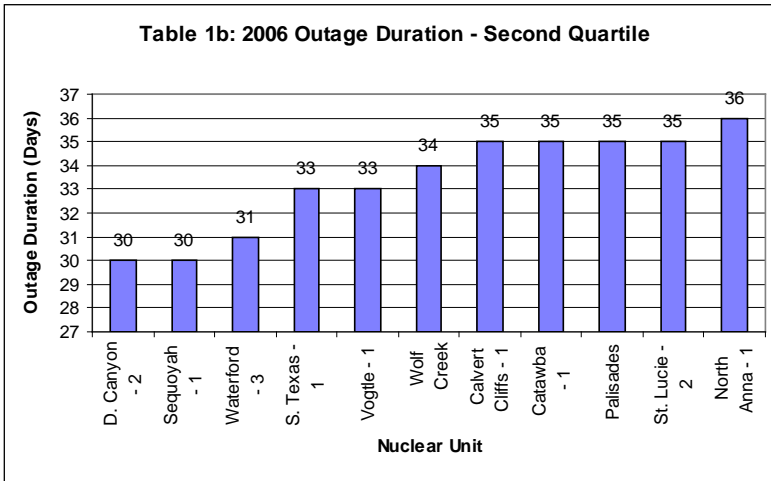
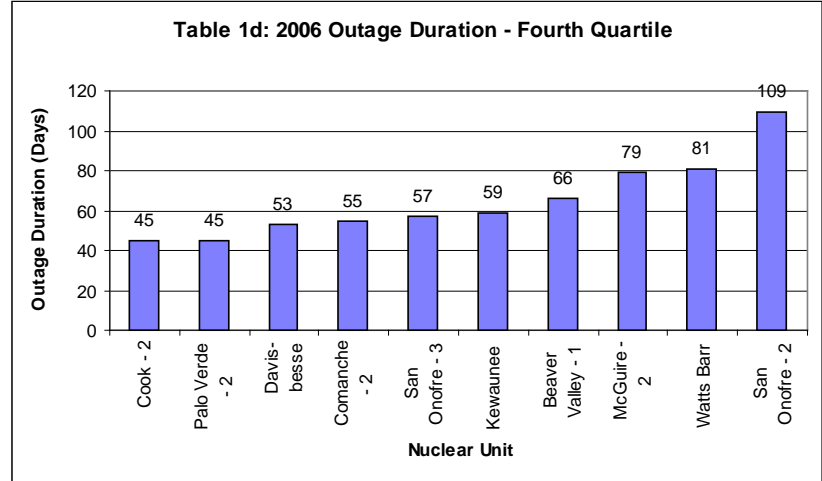
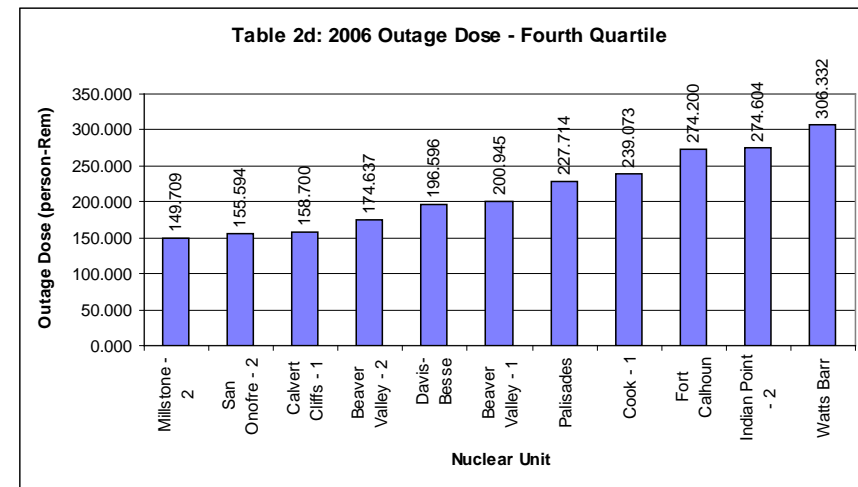
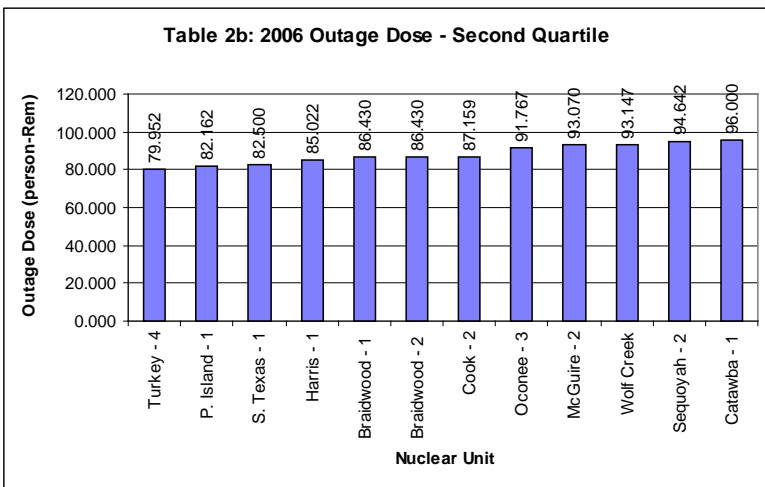
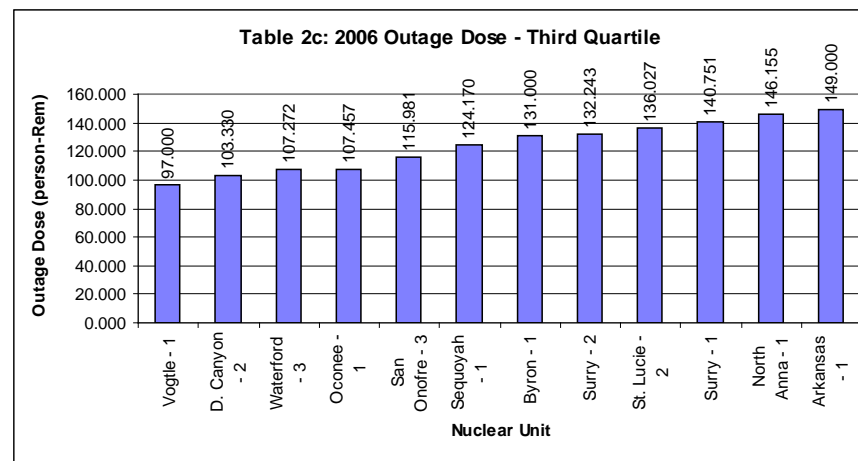
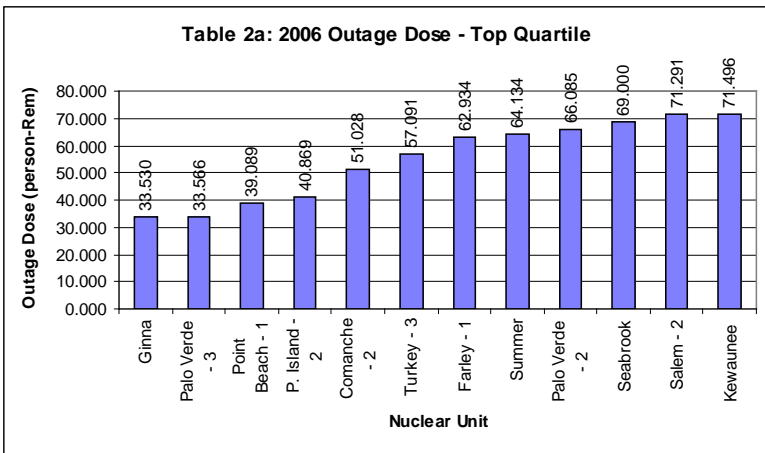


Table 1d: 2006 Outage Duration - Fourth Quartile





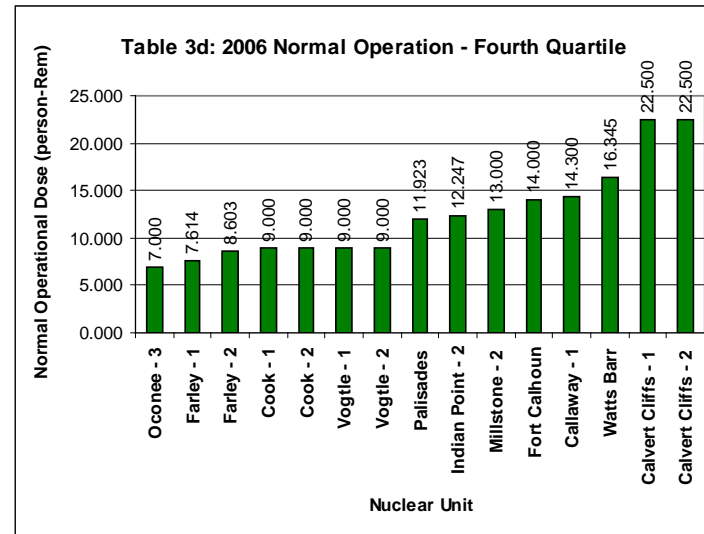
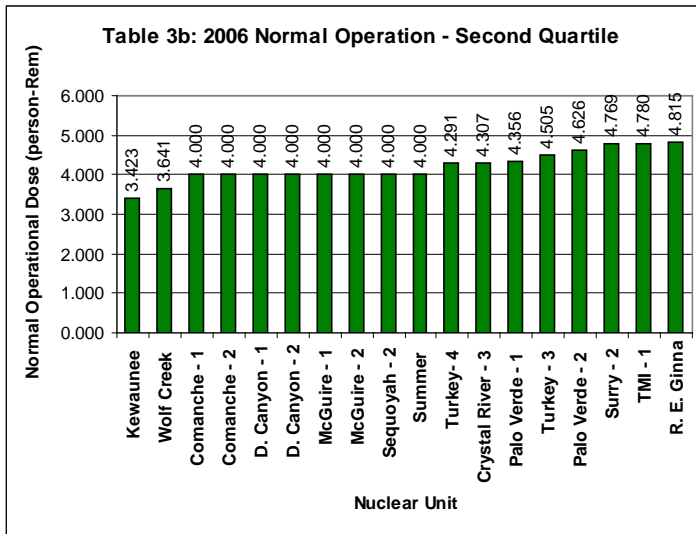
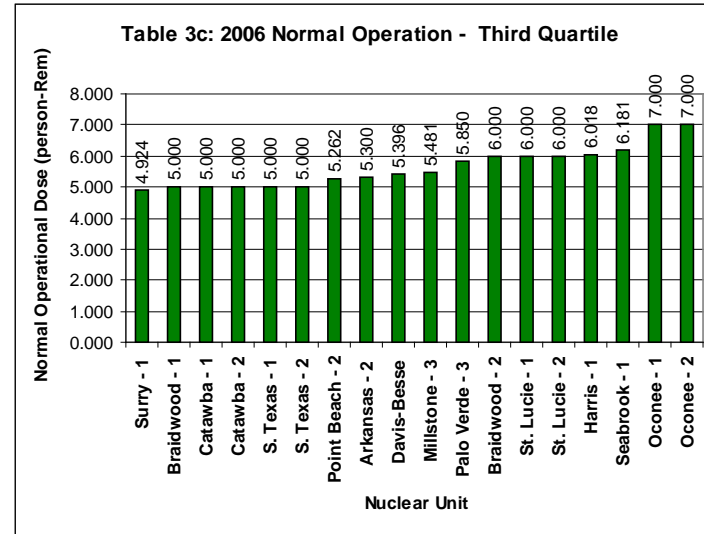
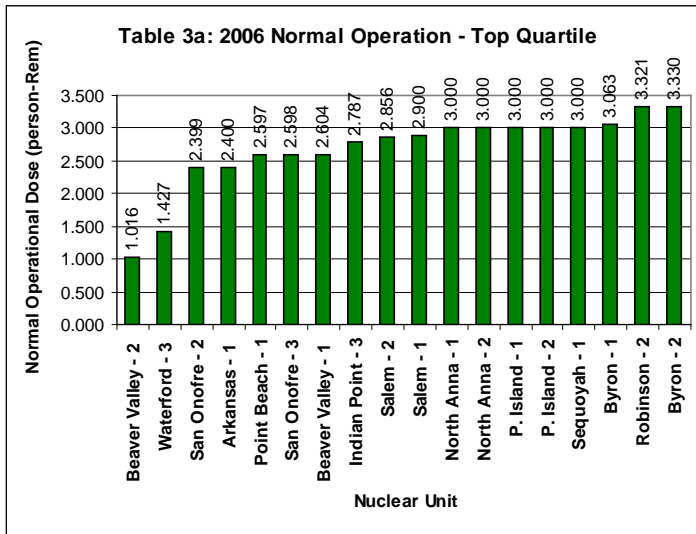


Table 4a: 2006 Total Dose - Top Quartile

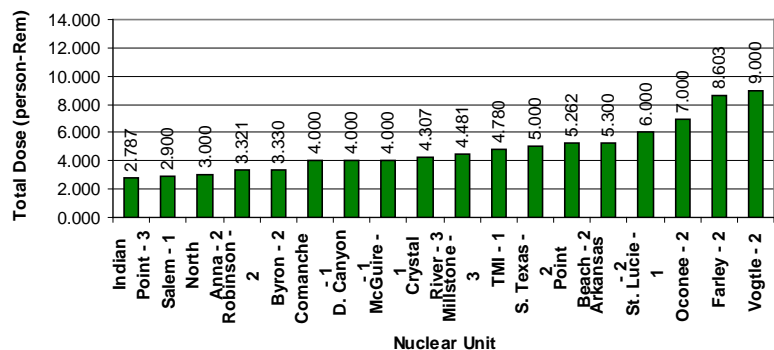


Table 4c: 2006 Total Dose - Third Quartile

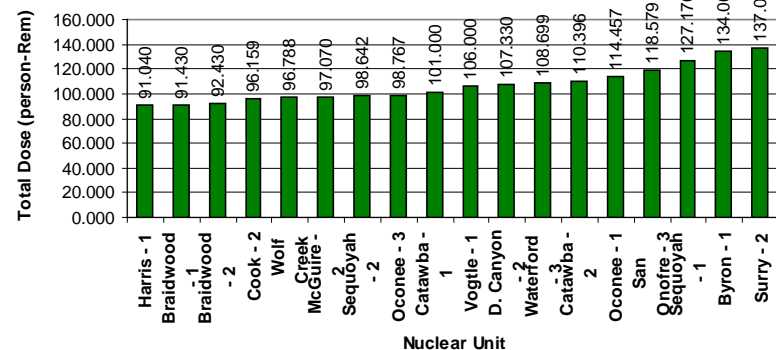


Table 4b: 2006 Total Dose - Second Quartile

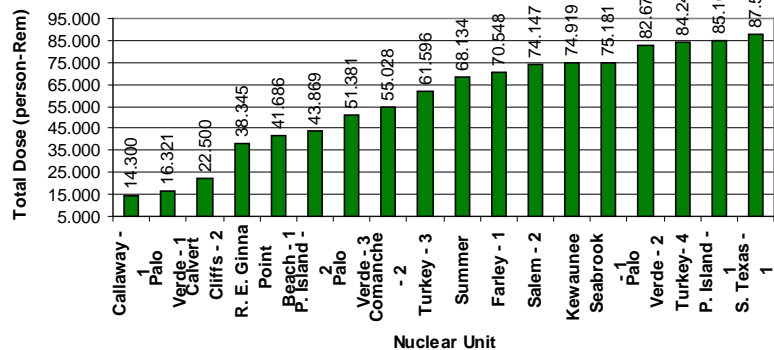


Table 4d: 2006 Total Dose - Fourth Quartile

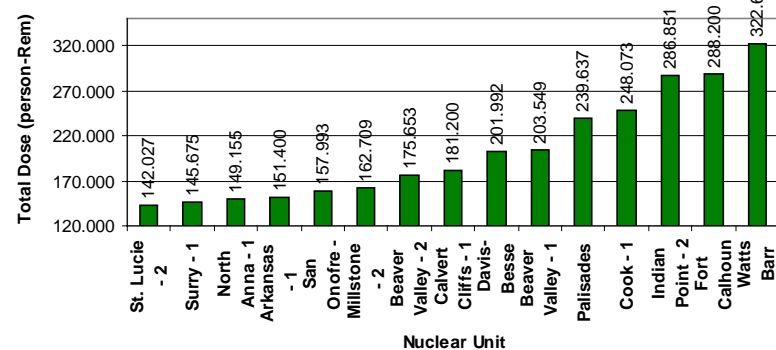


Table 5: 2006 PWR Occupation Dose Data

Nuclear Unit	Outage Start Date	Outage End Date	Outage Duration	Outage Dose	Normal Operation	Other Shutdowns	Total Dose	TEDE Total Site Dose
Arkansas - 1	9/15/2006	10/23/2006	39	149.000	2.400		151.400	
Arkansas - 2					5.300		5.300	143.296
Beaver Valley - 1	2/13/2006	4/19/2006	66	200.945	2.604	0.000	203.549	
Beaver Valley - 2	10/2/2006	11/30/2006	41	174.637	1.016	0.000	175.653	370.146
Braidwood - 1	3/5/2006	3/18/2006	14	86.430	5.000		91.430	
Braidwood - 2	10/17/2006	11/2/2006	17	86.430	6.000		92.430	199.168
Byron - 1	9/26/2006	10/25/2006	30	131.000	3.063		134.063	
Byron - 2					3.330		3.330	134.497
Callaway - 1					14.300		14.300	6.308
Calvert Cliffs - 1	2/20/2006	3/26/2006	35	158.700	22.500		181.200	
Calvert Cliffs - 2					22.500		22.500	203.790
Catawba - 1	11/11/2006	12/4/2006	35	96.000	5.000		101.000	
Catawba - 2			49	105.396	5.000		110.396	212.570
Comanche - 1					4.000		4.000	
Comanche - 2	10/7/2006	11/30/2006	55	51.028	4.000		55.028	59.959
Cook - 1	9/15/2006	10/26/2006	42	239.073	9.000		248.073	
Cook - 2	3/14/2006	4/27/2006	45	87.159	9.000		96.159	312.214
Crystal River - 3					4.307		4.307	4.474
D. Canyon - 1					4.000		4.000	
D. Canyon - 2			30	103.330	4.000		107.330	82.248
Davis-Besse	3/4/2006	4/25/2006	53	196.596	5.396		201.992	204.201
Farley - 1	4/1/2006	4/28/2006	28	62.934	7.614		70.548	
Farley - 2					8.603		8.603	66.189
Fort Calhoun	9/9/2006	10/21/2006	43	274.200	14.000		288.200	289.100

Nuclear Unit	Outage Start Date	Outage End Date	Outage Duration	Outage Dose	Normal Operation	Other Shutdowns	Total Dose	TEDE Total Site Dose
Harris - 1	4/8/2006	5/15/2006	38	85.022	6.018		91.040	87.225
Indian Point - 2	4/13/2006	5/6/2006	24	274.604	12.247		286.851	286.908
Indian Point - 3					2.787		2.787	2.793
Kewaunee	9/2/2006	10/30/2006	59	71.496	3.423		74.919	74.734
McGuire - 1					4.000		4.000	
McGuire - 2	9/16/2006	12/2/2006	79	93.070	4.000		97.070	108.285
Millstone - 2	10/6/2006	11/17/2006	42	149.709	13.000		162.709	
Millstone - 3					5.481		5.481	174.164
North Anna - 1	3/12/2006	4/17/2006	36	146.155	3.000		149.155	
North Anna - 2		1/0/1900			3.000		3.000	82.069
Oconee - 1				107.457	7.000		114.457	
Oconee - 2					7.000		7.000	
Oconee - 3				91.767	7.000		98.767	221.222
P. Island - 1	5/15/2006	6/26/2006	42	82.162	3.000		85.162	
P. Island - 2	11/11/2006	12/9/2006	28	40.869	3.000		43.869	137.352
Palisades	4/1/2006	5/6/2006	35	227.714	11.923		239.637	239.652
Palo Verde - 1					4.356	11.965	16.321	
Palo Verde - 2	9/30/2006	11/14/2006	45	66.085	4.626	11.965	82.676	
Palo Verde - 3	4/1/2006	5/12/2006	41	33.566	5.850	11.965	51.381	151.516
Point Beach - 1	10/14/2006	11/19/2006	36	39.089	2.597		41.686	
Point Beach - 2					5.262		5.262	39.597
R. E. Ginna	10/8/2006	11/1/2006	24	33.530	4.815		38.345	44.580
Robinson - 2					3.321		3.321	3.320

Nuclear Unit	Outage Start Date	Outage End Date	Outage Duration	Outage Dose	Normal Operation	Other Shutdowns	Total Dose	TEDE Total Site Dose
S. Texas - 1	10/1/2006	11/3/2006	33	82.500	5.000		87.500	
S. Texas - 2					5.000		5.000	119.963
Salem - 1					2.900		2.900	
Salem - 2	10/10/2006	10/31/2006	21	71.291	2.856		74.147	90.541
San Onofre - 2	10/9/2006	1/26/2007	109	155.594	2.399		157.993	
San Onofre - 3	1/2/2006	2/28/2006	57	115.981	2.598		118.579	315.087
Seabrook - 1	10/1/2006	11/9/2006	39	69.000	6.181		75.181	76.583
Sequoyah - 1	4/9/2006	5/9/2006	30	124.170	3.000		127.170	
Sequoyah - 2	11/26/2006	12/24/2006	28	94.642	4.000		98.642	242.016
St. Lucie - 1					6.000		6.000	
St. Lucie - 2	2/23/2006	3/30/2006	35	136.027	6.000		142.027	150.323
Summer	10/13/2006	11/21/2006	39	64.134	4.000		68.134	61.333
Surry - 1	4/23/2006	6/2/2006	40	140.751	4.924		145.675	
Surry - 2	10/23/2006	11/20/2006	28	132.243	4.769		137.012	234.978
TMI - 1			25		4.780		4.780	5.155
Turkey - 3	3/5/2006	4/2/2006	28	57.091	4.505		61.596	
Turkey- 4	10/29/2006	11/26/2006	28	79.952	4.291		84.243	149.208
Vogtle - 1	9/17/2006	10/20/2006	33	97.000	9.000		106.000	
Vogtle - 2					9.000		9.000	115.509
Waterford - 3	10/15/2006	11/15/2006	31	107.272	1.427		108.699	109.682
Watts Barr	9/10/2006	11/30/2006	81	306.332	16.345		322.677	322.682
Wolf Creek	10/7/2006	11/10/2006	34	93.147	3.641		96.788	96.788