



INFORMATION SYSTEM ON OCCUPATIONAL EXPOSURE

General Distribution

July 2012

ISOE Information Sheet

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

**North American Boiling Water Reactor (BWR)
2006 Occupational Dose Benchmarking Charts**

NATC ISOE Information Sheet No. 06-5

NATC ISOE Information Sheet No. 06-5 presents the North American Boiling Water Reactor (BWR) occupational exposure results for FY 2006. Exposure categories per unit include refueling outage duration and dose, normal operations dose, and total dose.

The 2006 BWR 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 BWR Occupation Dose Data

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

Country	Collective Dose per Reactor (man.Sv)
USA	1.46
Sweden	1.09
Japan	1.33

Table 1a: 2006 BWR Outage Duration - Top Quarter

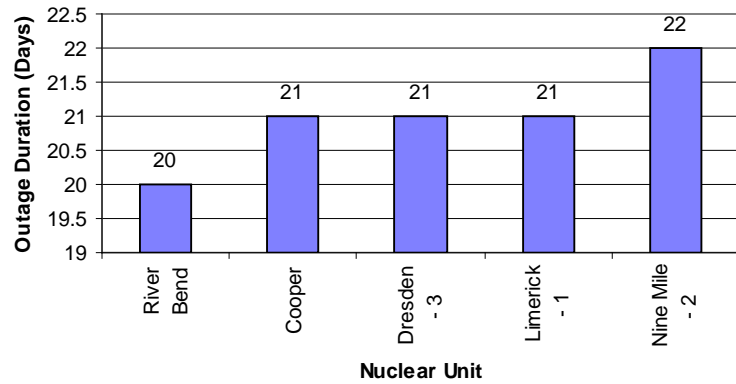


Table 1c: 2006 BWR Outage Duration - Third Quartile

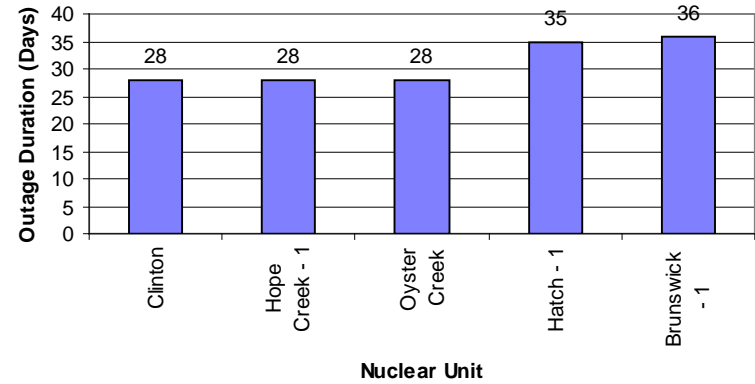


Table 1b: 2006 BWR Outage Duration - Second Quartile

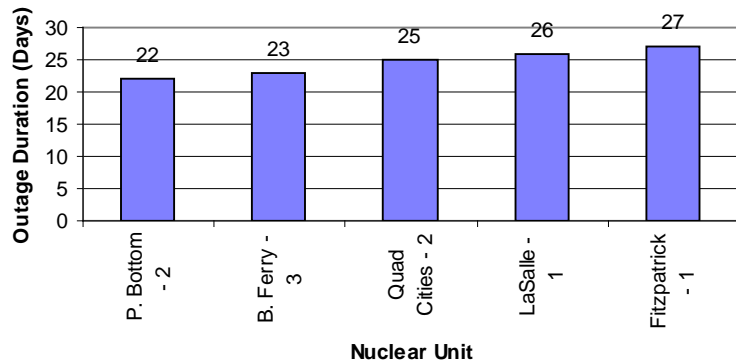
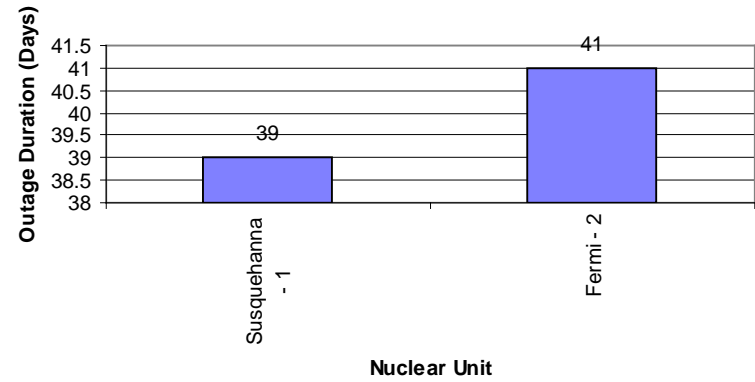
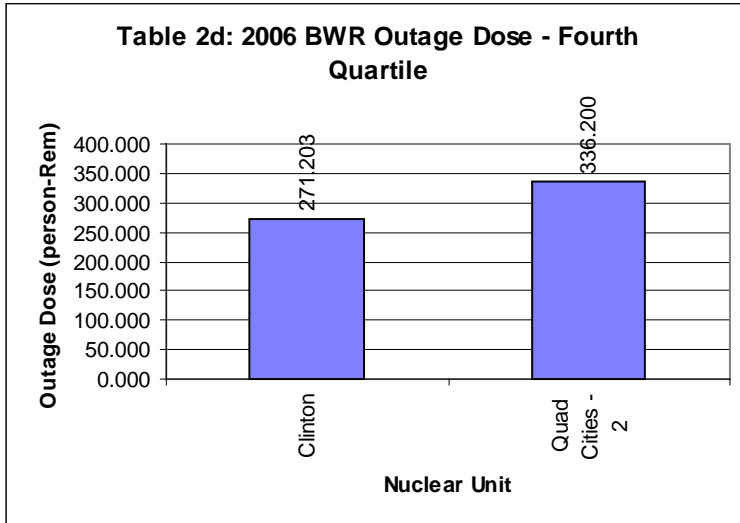
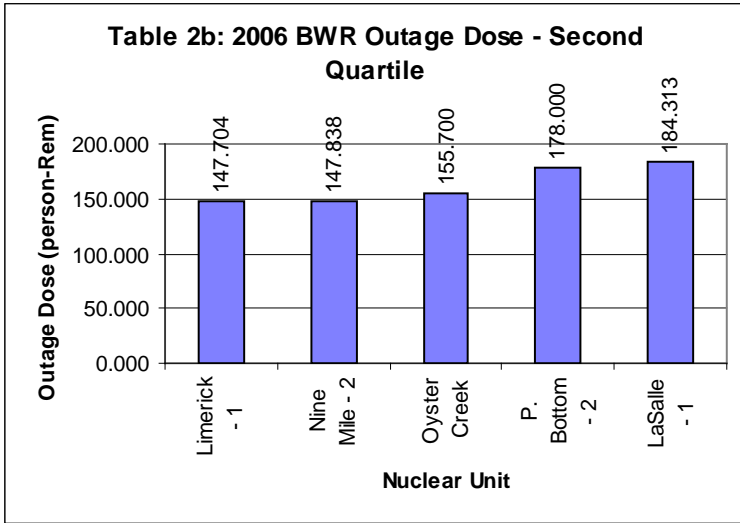
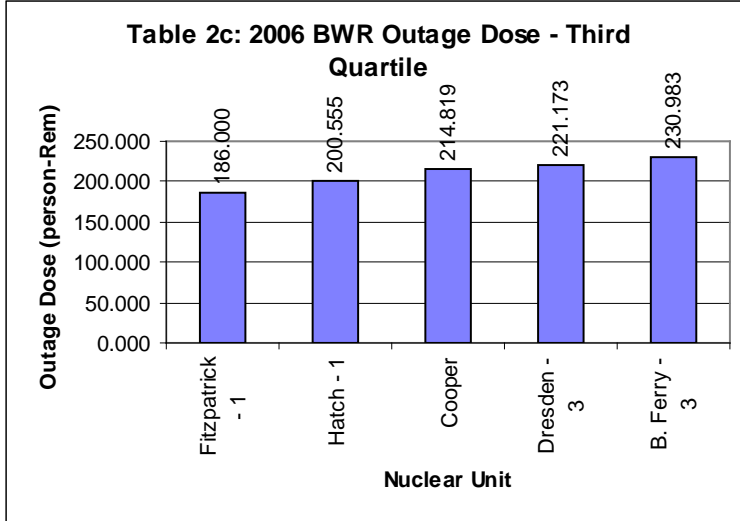
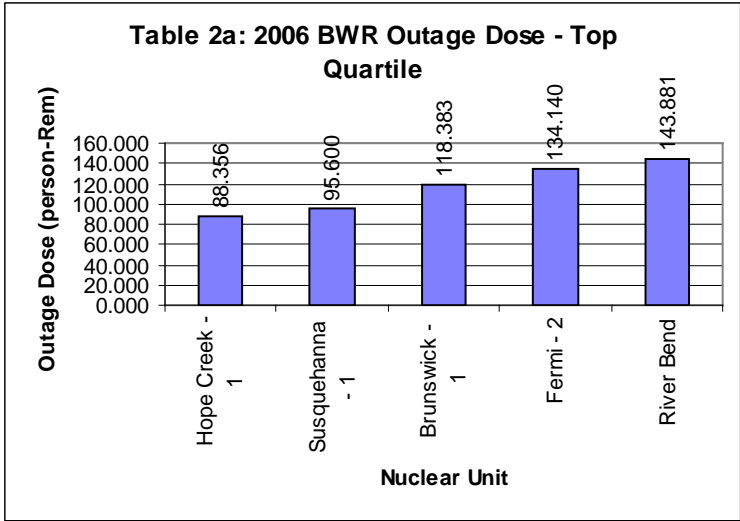
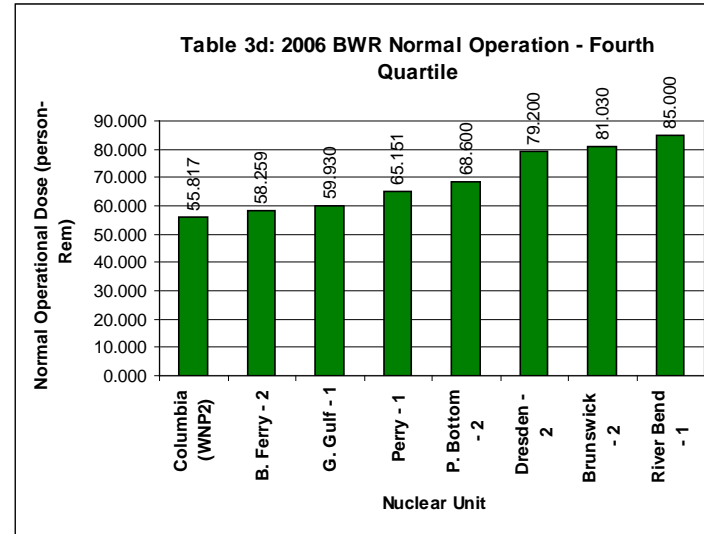
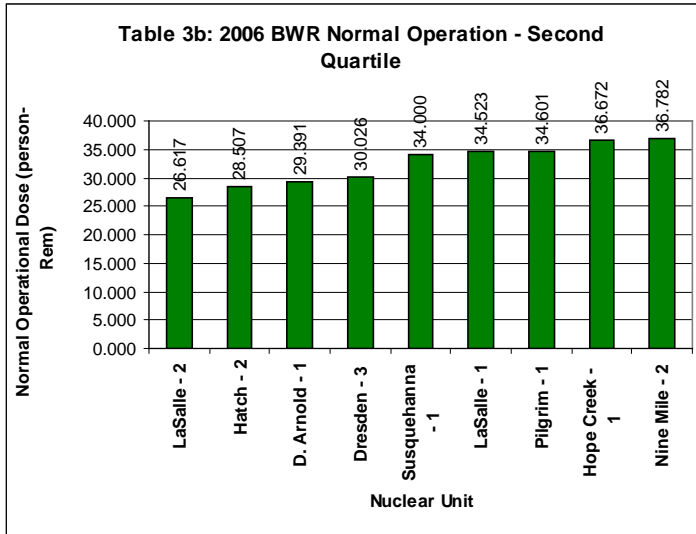
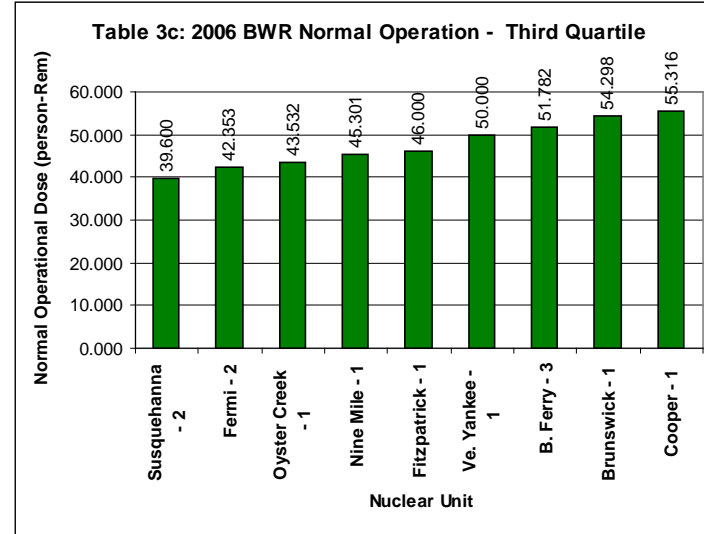
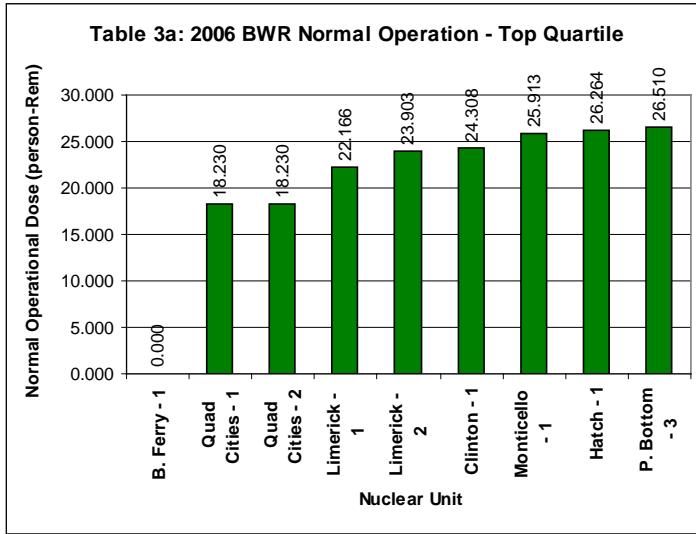


Table 1d: 2006 BWR Outage Duration - Fourth Quartile







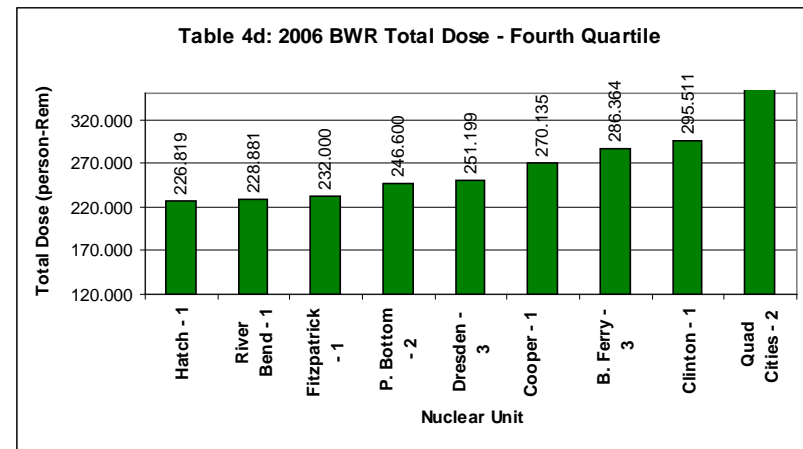
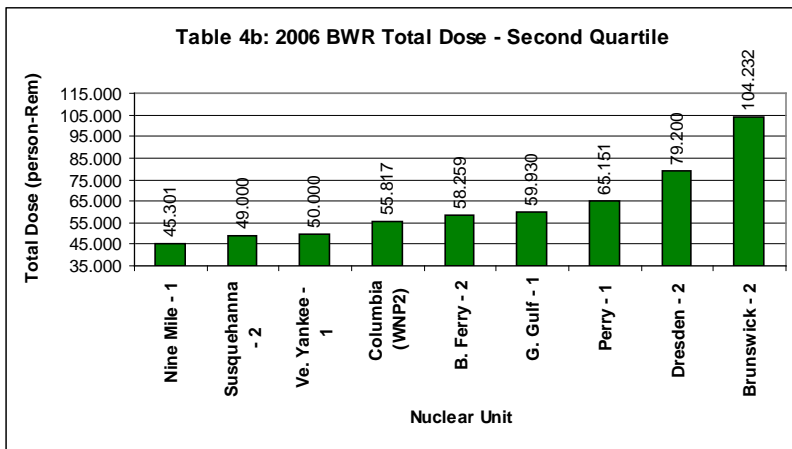
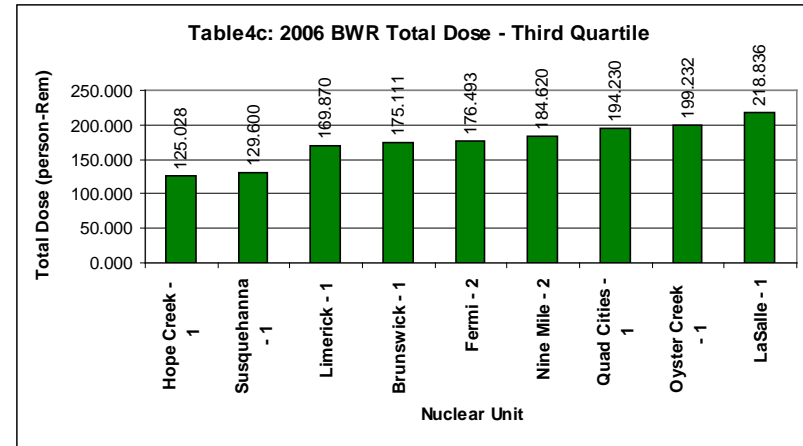
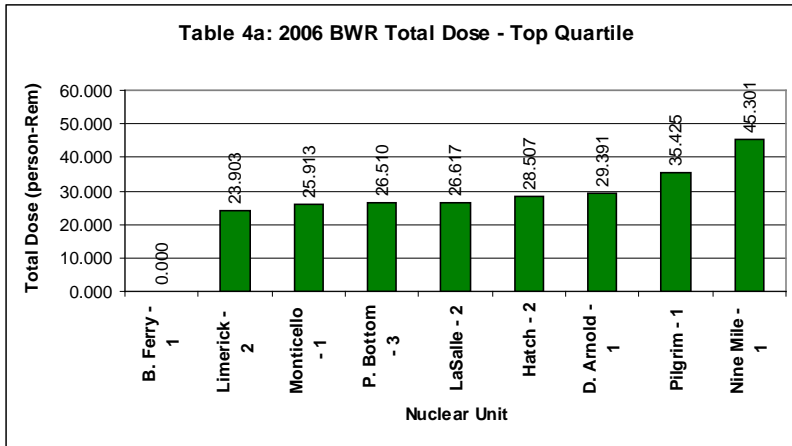


Table 5: 2006 BWR Occupation Dose Data

Nuclear Unit	Outage Start Date	Outage End Date	Outage Duration	Outage Dose	Normal Operation	Other Shutdowns	Total Dose	TEDE Total Site Dose
B. Ferry - 1					0.000		0.000	
B. Ferry - 2					58.259		58.259	
B. Ferry - 3	2/28/2006	3/22/2006	23	230.983	51.782	3.599	286.364	641.154
Brunswick - 1	3/4/2006	4/8/2006	36	118.383	54.298	2.430	175.111	
Brunswick - 2					81.030	23.202	104.232	280.465
Clinton - 1	1/30/2006	2/26/2006	28	271.203	24.308		295.511	295.720
Columbia (WNP2)					55.817		55.817	55.817
Cooper - 1	10/20/2006	11/10/2006	21	214.819	55.316		270.135	270.135
D. Arnold - 1					29.391		29.391	29.392
Dresden - 2					79.200		79.200	
Dresden - 3	11/2/2006	11/22/2006	21	221.173	30.026		251.199	289.167
Fermi - 2	3/25/2006	5/5/2006	41	134.140	42.353		176.493	181.300
Fitzpatrick - 1	10/8/2006	11/4/2006	27	186.000	46.000		232.000	234.425
G. Gulf - 1					59.930		59.930	59.935
Hatch - 1	2/11/2006	3/17/2006	35	200.555	26.264		226.819	
Hatch - 2					28.507		28.507	259.313
Hope Creek - 1	4/11/2006	5/8/2006	28	88.356	36.672		125.028	133.570
LaSalle - 1	2/20/2006	3/18/2006	26	184.313	34.523		218.836	
LaSalle - 2					26.617		26.617	248.454
Limerick - 1	3/6/2006	3/26/2006	21	147.704	22.166		169.870	
Limerick - 2					23.903		23.903	193.429
Millstone - 1							0.000	
Monticello - 1					25.913		25.913	33.416

Nuclear Unit	Outage Start Date	Outage End Date	Outage Duration	Outage Dose	Normal Operation	Other Shutdowns	Total Dose	TEDE Total Site Dose
Nine Mile - 1					45.301		45.301	
Nine Mile - 2			22	147.838	36.782		184.620	229.551
Oyster Creek - 1	10/16/2006	11/12/2006	28	155.700	43.532		199.232	189.950
P. Bottom - 2	9/15/2006	10/7/2006	22	178.000	68.600		246.600	
P. Bottom - 3					26.510		26.510	247.676
Perry - 1					65.151		65.151	65.152
Pilgrim - 1					34.601	0.824	35.425	43.531
Quad Cities - 1					18.230	176.000	194.230	
Quad Cities - 2	3/24/2006	4/18/2006	25	336.200	18.230	6.552	360.982	559.362
River Bend - 1	4/3/2006	4/22/2006	20	143.881	85.000		228.881	214.409
Susquehanna - 1	3/4/2006	4/12/2006	39	95.600	34.000		129.600	
Susquehanna - 2					39.600	9.400	49.000	184.901
Ve. Yankee - 1					50.000		50.000	49.537

Note: All dose is listed in man.rem