OECD Nuclear Energy Agency
International Atomic Energy Agency

ISOE

INFORMATION SYSTEM ON OCCUPATIONAL EXPOSURE

General Distribution   **November 2001**

ISOE INFORMATION SHEET

North American Technical Center
Information System on Occupational Exposure

3-YEAR ROLLING AVERAGE ANNUAL DOSE COMPARISONS
Canada Reactors (CANDU)
1998-2000 Occupational Dose Benchmarking Charts

NATC ISOE Information Sheet No. 01-3

NATC ISOE Information Sheet No. 01-3 presents the Canadian reactor (CANDU) 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 Canadian units for this period are provided in the following table. Please note: all units were included regardless of operation status.

Site Name	Three Year Rolling Average Person-Rem (Person-mSv)
Bruce A	12 (120)
Pickering	37 (370)
Darlington	44 (440)
Point Lepreau	102 (1020)
Bruce B	111 (1110)
Gentilly	163 (1630)

Table 1: Canada CANDU Three-Year Rolling Average, 1998-2000

THREE YEAR ROLLING AVERAGE

1998 - 2000 Actual Values

SITE NAME	Number of Units	COUNTRY	Collective Radiation Exposure Per Site (Person-Rem or Person-cSv)												Three Year Rolling Average
			1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Per Unit
Darlington	4	Canada	10	31	28	92	89	104	112	97	69	268	189.66	44
Pickering	8	Canada	896	596	1067	561	751	917	359	364	283	326	285.51	37
Bruce A	4	Canada	353	276	325	534	555	565	264	348	80	31.92	33.23	12
Burce B	4	Canada	178	173	138	100	138	215	178	155	396	430	507.47	111
Point Lepreau	1	Canada	57	49.8	148	111	97.3	366	93.7	136	82.2	136	87.22	102
Gentilly	1	Canada	163	86.8	25.51	244	44	446	148	198	175	194	118.85	163
Total CANDU Units Included :									22	21	21	14	15	
Annual CANDU Average :									52	62	52	99	81	

Note: Pickering had 4 units operational in 1999.

Note: Pickering had 5 units operational in 2000.

Note: Bruce A had 2 units operational in 1998, and 0 in 1999 and 2000.