

**RADIOACTIVE MATERIALS  
RELEASED FROM NORTH ANNA NUCLEAR REACTORS  
1978-1987**

Unit 1 startup date: April 5, 1978

Unit 2 startup date: June 12, 1980

|                   | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |   |
|-------------------|------|------|------|------|------|------|------|------|------|------|---|
| Air 1/2 life > 8d | 0.03 | 0.06 | 0.01 | 0.48 | 0.03 | 0.33 | 0.09 | 0.09 | 0.02 | 0.02 | A |
| Air 1/2 life < 8d | 15   | 6    | 4    | 5    | 4    | 22   | 18   | 8    | 6    | 1    | B |
| H2O               | 0.27 | 0.59 | 1.05 | 0.68 | 1.32 | 5.88 | 4.51 | 5.07 | 0.94 | 1.33 | C |

**A. Airborne effluents in Curies**

Iodine-131, Strontium-90 and particulate matter with half-life equal to or greater than 8 days.

**B. Airborne effluents in thousands of Curies**

Total fission and activation gases with half life less than 8 days. Such fission products never existed in nature prior to the nuclear age.

**C. Liquid effluents in Curies**

Mixed fission and activation products excluding short-lived noble gases, tritium and alpha.

The information on this table is was compiled from *The Enemy Within: The High Cost of Living Near Nuclear Reactors* by Jay Gould published in 1996. Original data from Brookhaven National Laboratory reports provided to the US Nuclear Regulatory Commission.