



### A.5 ATMOSPHERIC DIFFUSION CALCULATIONS

The atmospheric diffusion methods reported by Comply were used as a basis for these calculations.

Comply has four screening levels. In Level 1, the simplest level, only the quantity of radioactive material possessed during the monitoring period is entered. The calculations are based on generic parameters. Level 4 produces a more representative dose estimate by providing for more complete treatment of air dispersion by requiring site-specific information. GEMO demonstrates compliance at Level 4.

Using this method the maximum off-site whole dose rate for GE-MO the past five years was calculated to be the following:

|      |                   |
|------|-------------------|
| 2000 | 2.60E-6 mRem/year |
| 1999 | 3.17E-6 mRem/year |
| 1998 | 2.55E-6 mRem/year |
| 1997 | 4.80E-6 mRem/year |
| 1996 | 3.40E-6 mRem/year |