

## Annual Trend in AO Events and Summary of FY 2002 AO Events

### 1. Trend in Abnormal Occurrence Events

Table 1.0 shows the number of events reported annually that were determined to meet the AO criteria. A total of 35 events were found to meet the AO Criteria for the five year period 1998 - 2002. Sixty percent of the AO events were Medical events. However, the relative higher number of Medical Events determined to be AOs is not necessarily an indication of relative performance. The numerical dose criteria applied to Medical Events also appear to be a factor in Medical Events meeting the AO criteria. For example, the criteria for a Medical Events is that (1) the total dose delivered differs from the prescribed dose by greater than 20% and (2) the dose to an organ is greater than 0.05 Sv (5 rem). Therefore, a broad range of dose deviations can result in a Medical Event AO.

It is noteworthy that while events involving the loss or theft of material account for about 40% (five year average) of the number of events reported to NRC, only one event in five years has been found to meet the AO criteria.

Table 1.0 - Comparison of the Annual Number of Abnormal Occurrence Event

Year (FY)	Lost/Stolen Material	Medical Event	Personnel Overexposure	Fuel Cycle Facility Event	Totals
1998	0	5	1	1	7
1999	0	7	2	1	10
2000	0	5	2	0	7
2001	0	0	1	0	1
2002	1	4	4	1	10
Totals	1	21	10	3	35