**Appendix A.II.2.2.9-d**

### CHARACTERISTICS OF ATMOSPHERIC TRANSPORT and Dispersion MODELLING SYSTEM

The designated Centres will document and maintain in WMO TD No. 778 and on the WMO Emergency Response Activities web site up-to-date information on the characteristics of their atmospheric transport and dispersion modelling (ATDM) system. The information will contain at a minimum:

For ATDM:

- Name of model(s) and type (Lagrangian, Eulerian)

- Horizontal grid(s) spacing and extent

- Vertical spacing and type of vertical coordinates used to calculate layer concentrations

- Model calculation time step(s) and model output time step(s)

- Information on horizontal and vertical diffusion schemes for the tracers

- Information on dry and wet scavenging schemes

- Information on how chemicals are treated (if available)

- How the emission (source term) is represented / modelled

For Numerical Weather Prediction data used for ATDM:

- Name of system

- Horizontal grid(s) spacing and extent

- Number of vertical levels and type of vertical coordinates

- Forecast length (hours)

- Update frequency