

## 7.0 Managing Meteorological (Met) Data

Meteorological (Met) information is collected from the subsystem that collects data from the towers by EMIS. EMIS forwards that information to the FEMIS Data Exchange Interface (DEI), usually at 15 minute intervals. As shown in Figure 1.1, the EMIS server collects the data and sends it to the FEMIS UNIX server where it is loaded into the MET\_CONDITION table in the FEMIS relational database. Meteorological data is stored in the FEMIS relational database with the units indicated in Table 7.1.

**Table 7.1.** Units for FEMIS Meteorological Data

Field	Data Units
Wind Speed	m/sec
Wind Direction	Deg
Wind Sigma	Deg
Temperature	°F
Relative Humidity	%
Atmospheric Pressure	mBar
Height of Mixing Layer	m
Cloud Height	ft
Solar Radiation	W/m <sup>2</sup>
Rain Fall	mm

Data records will accumulate in the MET\_CONDITION table while the meteorological collection subsystem is in operation. An automated method to archive meteorological data is provided as a UNIX cron job. When this cron job is activated, the meteorological data will be archived periodically, usually once per week. For more details, see Section 13.1.4, External Storage of Folders and Deletion of Old Folder Data, in the *System Administration Guide for FEMIS Version 1.5*.

If site policy requires that the old information must be saved, then the data must be copied to a permanent media for the archiving.