

**PALOMAR ENERGY PROJECT (01-AFC-24)  
CEC STAFF DATA REQUEST NUMBER 9**

**Technical Area: Air Quality**

**Response Date: April 8, 2002**

**REQUEST:**

Please provide additional quality assurance information for the ISC and Aermot meteorological data sets including the procedures used to fill missing data hours and a list of missing final data sets after data processing. Note the information provided to the SDAPCD in response to the December 21, 2001 letter may be used to satisfy this request.

**RESPONSE:**

Attached to this Data Request response submittal is a copy of the information provided to the SDAPCD. The information consists of a memorandum to Ralph DeSiena of the SDAPCD dated January 15, 2002, and a CD that contains digital quality assurance files from the meteorological processing. The memorandum details the procedures used to fill missing periods of meteorological data and provides summaries of missing hours of meteorological data for each dataset.

The issue of valid data capture for the 1998 AERMOD dataset has been discussed with the SDAPCD in the following context:

The Guideline on Air Quality Models (40CFR51, Appendix W and the proposed Guideline in FR21506) requires the use of one year of site-specific meteorological data or five years of NWS meteorological data. Since the Escondido monitoring station (the primary source of dispersion meteorology for the project) is located within approximately three miles of the Palomar site, and no significant terrain features are present between the site and the monitoring station, the meteorological data are considered site-specific and hence a single year of data would meet the requirements. However, to better represent the climatology in the project area, three years of meteorological data were used in the modeling analyses. Although the 1998 AERMOD dataset is slightly below (87% valid hours) the PSD data capture goal of 90%, the use of three years of meteorological data is expected to capture the worst case dispersion conditions at the site.