

Virginia City Hybrid Energy Center
Response to Data Request
Vivian Thomson, Vice Chair, Virginia Air Pollution Control Board

Question (Page No. 5):

(a) The Federal Land Manager has recommended using a finer grid resolution of about one km for Calpuff modeling in complex terrain as was recently used for the White Pine Energy Station in Nevada.

Response:

VISTAS and the states, including Virginia, decided that the 4-kilometer resolution was adequate and the data have been distributed by the states. The use of the VISTAS meteorological data was proposed in the Class I Modeling Protocol for the Proposed Dominion Southwest Virginia Power Project (July 2006) which has been accepted by the Virginia Department of Environmental Quality and the US Environmental Protection Agency.

The horizontal model scales for the two sets of MM5 runs were completely different. The VISTAS MM5 runs for the Class I modeling were conducted at a horizontal spatial resolution of 12 kilometers for 2001 and 2002 and 36 kilometers for 2003.

The MM5 runs for the Class II analyses used an inner domain with a horizontal spatial resolution of 1.33 kilometers.