

APPENDIX 8.1-D

## ISCST3 Dispersion Modeling Files

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# Description of ISCST3 Dispersion Modeling Files Included on CD Submittal

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Tables presented in this Appendix are as follows:

Table 8.1D-1            File Structure and Naming Convention

Table 8.1D-2            BPIP/ISTST3 Modeling File Extensions and Descriptions

**Chevron SPPE Modeling File Structures and Descriptions - Operational ISC Dispersion Modeling**

**Table 8.1D-1 File Structure and Naming Convention**

| Folder/ZIP File Name | File Name Start with    | Modeling Scenarios Description  |
|----------------------|-------------------------|---|
| Turbine_Screen       | Turbine_Screen_##_UNIT  | Modeling files of turbine emissions to determine maximum NOx, CO, and SO2 concentrations for the 100 meter grid receptors (## designates which year of meteorological data was used, 99, 00, 01, 02, or 03).  |
|                      | Turbine_Screen          | BPIP files for ISC modeling   |
| Turbine_Refined      | Turbine_Refined_##_UNIT | Modeling files of turbine emissions to determine maximum NOx, CO, and SO2 concentrations for the 30 meter grid receptors based on maximum concentration from "Screen" modeling (## designates which year of meteorological data was used, 99, 00, 01, 02, or 03).                 |
|                      | Turbine_Refined         | BPIP files for ISC modeling   |
| PM_Screen            | PM_SCREEN_##_PM_10      | Modeling files of turbine and cooling tower emissions to determine maximum PM10 and PM2.5 concentrations for the 100 meter grid receptors (## designates which year of meteorological data was used, 99, 00, 01, 02, or 03).  |
|                      | PM_SCREEN               | BPIP files for ISC modeling   |
| PM_Refined           | PM_refined_##_PM_10     | Modeling files of turbine and cooling tower emissions to determine maximum PM10 and PM2.5 concentrations for the 30 meter grid receptors based on maximum concentration from "Screen" modeling (## designates which year of meteorological data was used, 99, 00, 01, 02, or 03). |
|                      | PM_refined              | BPIP files for ISC modeling   |

**Table 8.1D-2 BPIP/ISCST3 Modeling File Extensions and Descriptions**

| File Extension | File Descriptions   | Note         |
|----------------|---|--------------|
| .PIP           | Input file for BPIP (BpipWin.exe) in the standard EPA format.*  | BPIP File    |
| .SO            | Output file from BPIP; contains EPA-format source cards of building heights and widths for each source. Integrated with rest of input data when model input .DTA file is built. | BPIP File    |
| .SUM           | BPIP output file, summary form (standard EPA format).   | BPIP File    |
| .BND           | File contains the boundary information (e.g. fencelines, building and stack names)  | ISCST3 File  |
| .DTA           | ISCST3 Model input data file (standard EPA format).   | ISCST3 File  |
| .GRF           | ISCST3 "Master graphics file" - Contains the maximum modeled concentration at each receptor   | ISCST3 File  |
| .LST           | Model output list file; contains model tabular output (standard EPA format*).   | ISCST3 File  |
| .USF           | ISCST3 file containing a summary of the input parameters and model output.  | ISCST3 File  |
| .ASC           | "ASCII" hourly meteorological data file for ISCST3  | MET Data     |
| .DEM           | USGS Digital Elevation Model (DEM) data   | Terrain Data |