

# Texas Commission on Environmental Quality

## INTEROFFICE MEMORANDUM

<b>To:</b>	Air Permits Division Technical Staff	<b>Date:</b>	October 31, 2008
<b>Thru:</b>	Dom Ruggeri, P.E., Manager Technical Program Support Section		
<b>From:</b>	Lori Wilson, Team Leader Air Dispersion Modeling Team		
<b>Subject:</b>	Point Source Data Base (PSDB)		

This memorandum supercedes Appendix H of the Air Dispersion Modeling Guidelines, RG-25, February 1999. If applicants need PSDB emissions data for refined modeling they should request PSDB retrieval information, report #21, from the Information Resources (IR) Division at (512) 239-DATA (3282) or [orteam@tceq.state.tx.us](mailto:orteam@tceq.state.tx.us). Allow 10 business days for IR to provide the retrieval information. Provide the following information with your PSDB request:

### Media

Identify if the retrieval information should be mailed on a CD or delivered through file transfer protocol (FTP).

### Constituent

Identify the constituent using one of the following designators: CO, NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub> (particulate matter with an aerodynamic diameter of 10 microns or less), Pb, VOC, or the specific 5-digit contam (contaminant) code for noncriteria constituents. Contact the Air Dispersion Modeling Team at (512) 239-1250 to obtain the contam codes.

### Type

Indicate the type of request: NAAQS or PSD Increment. The term *NAAQS* refers to both criteria and noncriteria constituents. Therefore, a retrieval for benzene, for example, would also be identified as a *NAAQS* retrieval.

- PSD Increment retrievals are available for NO<sub>x</sub>, SO<sub>2</sub>, and PM<sub>10</sub>.

### Term

Indicate the term of interest: Short (used to determine concentrations of 24 hours or less) or Long (used to determine concentrations of greater than 24 hours).

### **Search Option**

Indicate the search option for the radius of impact: Primary (for PSD) or Secondary (for State).

- The *Primary* radius search option provides a report that includes all emission points located within the circle defined by the designated radius of impact. This option is used for PSD permit modeling retrievals.
- The *Secondary* radius search option provides a report that includes all emission points located within the circle defined by the designated radius of impact. In addition, it causes the retrieval program to search for points out to 60 km beyond the primary radius and factor emissions against distance to determine if the emission points have potential impact. If the emissions are found to be significant, they are included in the report.

### **UTM Zone**

Provide the zone that the center point of the radius of impact is located in for each search option. The retrieval program will automatically take care of any overlap from one zone to another. Use either 13 (from the west border to 102 degrees longitude), 14 (between 102 and 96 degrees longitude), or 15 (east of 96 degrees longitude to the east border).

### **Center Point of the Radius of Impact**

Use UTM coordinates in meters to identify the center point of the radius of impact: UTM East (meters) and UTM North (meters).

### **Radius of Impact**

Provide the length of the radius of impact in meters. The maximum length is 9,999,999 meters. There is no minimum length; however, a minimum length of 1,000 meters is suggested.

- For PSD modeling projects, add 50,000 meters to the modeled radius of impact and provide the resultant value as the length. For example, if the modeled radius of impact is 1,000 meters, add 50,000 meters and request a retrieval for a radius of impact of 51,000 meters.
- For State modeling projects, do not add any length to the modeled radius of impact. Request a retrieval based on the modeled radius of impact.

This information is used by the retrieval program to locate all sources for the given constituent which are within the radius of impact or sources which could have a significant impact within the radius of impact. For the requested constituent, the program generates a written report that includes for each source: the source identification, the TCEQ permit number, the TCEQ account number, source parameters needed for modeling, and the location of the source. IR staff can provide electronic files with all sources—except area sources—found in the retrieval with the

modeling parameters placed in the proper format for use with certain EPA models including AERMOD, ISCPrime, and ISCST3. Enter area source data manually into the model.

**Notes about PSDB data**

Inventory sources with negative emission rates from the PSD increment retrievals should be removed from the inventory unless you can verify that the source existed and was in operation before the PSD major source baseline date, and that the source was shut down or has reduced actual emissions to expand increment. Justification for including these sources in the modeling analysis must be included in the modeling report.

The applicant is **not** limited to using only PSDB as a data source. If the applicant is aware of data not contained in PSDB, such as recently issued permitted facilities or facilities in other states, the data should be included as applicable. All changes to data must be documented.

Contact the Air Dispersion Modeling Team at (512) 239-1250 if you have questions about how to use the retrievals for air quality analyses.