

SYNTHETIC MINOR DETERMINATION

A) **SOURCE DESCRIPTION:**

DeChant's Greenhouse, Inc., has requested a modification in the Permit to Operate (PTO) for the 16.93 mmBtu/hour coal fired stoker boiler at its facility at 5464 Detroit Road, Elyria, Ohio. The modification would result in a federally enforceable State operating permit sulfur dioxide emissions limit for this source (B005) of 99.45 tons/year. SO₂ emissions for the facility would be limited to 99.50 TPY.

B) **FACILITY EMISSIONS AND AREA ATTAINMENT STATUS:**

Elyria is in the central portion of Lorain County which is designated attainment for SO₂. Current actual annual SO₂ emissions for this source are estimated to be 26.95 tons. Actual annual SO₂ emissions from this facility (including SO₂ potential to emit of 0.05 tons from 2 natural gas fired boilers) are estimated to be 27.00 tons.

C) **MODIFIED SOURCE EMISSIONS LIMITATIONS:**

Through the "Additional Federally Enforceable Emissions Requirements for Sulfur Dioxide" section of this PTO, this facility will be limited to annual SO₂ emissions of 99.50 TPY. This specific source (B005) will be restricted to annual SO₂ emissions of 99.45 TPY to be achieved by:

- 1) Limiting the sulfur content of the coal purchased and burned in this 16.93 mmBtu/hour boiler to 2.50 pounds of SO₂ per million Btu heat input on a "dry" basis. (This value shall be determined by a weighted monthly average of supplier analyses of coal shipments during each month.);
- 2) Limiting the total amount of coal burned in this emissions unit to 2652 tons on a rolling 12 month cumulative total basis; and
- 3) Requiring this facility to record monthly coal quality data as well as tons of coal burned and received and to report this data on a semi-annual basis to NEDO.

D) **CONCLUSIONS:**

NEDO believes that the coal quality and tonnage of coal burned restrictions placed on this relatively small source will effectively limit this facility to "synthetic minor" status with regards to SO₂ emissions. The facility is a minor source for other air pollutants.