

BP Oil Company - Cleveland Terminal
Synthetic Minor Determination
PREMISE 1318170183

A. Emission Unit Description

BP Oil Company operates a bulk gasoline and distillate oil terminal located at 4850 E. 49th St., Cuyahoga Heights, Ohio 44125. This location has one loading rack with seven active bays. Four bays, Nos. 1, 2, 3 and 4 are dedicated to loading distillate oil products. Three bays, Nos. 5, 6 and 8 are dedicated to loading gasoline. Bay No. 7 has no loading arms. VOC (volatile organic compounds) emissions generated by the three gasoline loading bays are controlled by a 17,000 cubic foot vapor holding tank and an absorption/adsorption vapor recovery system. BP Oil has a volume throughput of 250,537,000 gallons of gasoline and 79,773,916 gallons of distillate oil products in 1994. They have requested federally enforceable limitations of 319,000,000 gallons of gasoline per year, 300,000,000 gallons of distillate oil products per year and 635,000 gallons of additive per year or 26,583,333 gallons of gasoline per month, 25,000,000 gallons of distillate oil products per month and 52,916 gallons of additive per month.

B. Facility Determination/Attainment Status

Cuyahoga County is designated as attainment for ozone as of May 7, 1996. The total enforceable emissions plus the potential emissions from all other VOC sources are 89.353 tons of VOC per year. The enforceable limit of less than 10 tons per year for any single HAP and less than 25 tons per year of any combination of HAPs from the permittee has also been set. These emissions do not qualify for major status as defined in OAC Rule 3745-77-01.

C. New Emission Unit Emissions

The allowable emissions from the J001 and from the 6.45 tons of potential VOC emissions per year of all other sources of VOC emissions are 89.353 tons VOC per year, 10 tons per year of any single HAP and 25 tons per year for any combination of HAPs from the entire facility. These are not new emissions and are included in the facility determination figures cited. The maximum allowable gasoline throughput will in turn restrict the storage tank throughput and hence the turnover ratio of gasoline additives and hence VOC emissions and HAP emissions.

D. Conclusion

Operational restrictions on the throughputs of loading rack J001, which in turn restrict the combined throughputs of the storage tanks, prevent emissions from the facility from reaching the level of 100.00 tons VOC per year, 10 tons per year for any single HAP, and 25 tons per year for any combination of HAPs. The permittee will not be considered a major source for Title V permitting purposes as defined in OAC Rule 3745-77-01.