

**Plain Language Summary for New Source Review (NSR) Amendment
Application for Air New Source Review Permit Number 8097**

The following summary is provided for this pending air permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

Chaparral Steel Midlothian, LP, (CN600128656), has submitted an application for an amendment of permit number 8097. The Chaparral Steel Mill, (RN100216472), produces steel products using scrap steel and additives at 300 Ward Road, Midlothian, Ellis County.

Chaparral Steel is proposing to implement a series of capital improvements for the Melt Shop system that will allow an increase in annual steel production to 1,759,000 tons per year. Chaparral Steel has listed in the application the pollutants and amounts that will be emitted for each facility. Below is the current amount allowed, the amount to be added or removed, and the total amount for each pollutant that is proposed to be emitted each year for all the facilities.

Pollutant	Permitted Emissions (Tons Per Year)	Emissions Added/Removed (Tons Per Year)	Total Proposed Emissions (Tons Per Year)
VOC	366.5	-261.75	104.77
NOx	841.8	20.8	862.5
CO	1848.6	98.6	1947.2
PM	265.3	0	265.3
PM₁₀	264.3	0	264.3
PM_{2.5}	199.4	0	199.4
SO₂	342.9	22.5	365.4
Pb	0.47	0.03	0.50

Emissions from the electric arc furnaces in the Melt Shop are controlled by direct evacuation systems, an overhead canopy, and scavenger ducts which are routed to baghouses for control of particulate matter. Emissions of products of combustion (NOx, CO, SO₂, VOC) are minimized through the use of oxy-fuel burners and good combustion practices in the electric arc furnaces.