

GTS#1 and GTS#2 are both 15mmBtu/hr natural gas-fired boilers (No.2 fuel back-up) that provide steam to the refinery deodorizers. The refinery deodorizers process oil produced on-site as well as oils produced at other sites. The deodorizers currently operated near capacity. The increase in soybean production will not result in direct increase in deodorizer operation, however the facility conservatively estimated that the deodorizers could see a 10% increase in usage and therefore a 10% increase in steam demand from boilers GTS1 and 2.

Unit	Year	Actual Natural Gas (mcf)	Actual No. 2 Fuel Oil (gallons)	
GTS1/GTS2	2016	108,776	898.000	
	2017	126,167	93	
Baseline		117,472	495.5	
10% increase		11,747	49.55	
Pollutant		Ton per Year (NG)	Ton Per Year (No. 2)	Total Ton per Year
CO		0.493	0.000	0.494
Nox		0.587	0.001	0.588
PM		0.011	0.000	0.011
PM-10		0.045	0.000	0.045
PM-2.5		0.045	0.000	0.045
SO2		0.004	0.000	0.004
VOC		0.032	0.000	0.032
CO2		701		701

12-5-18 Revised PM factors to AP-42. Increase Overall PM from 0.001 tpy to 0.011 tpy; PM-10 and PM2.5 from 0.003 to 0.045 tpy.

12-5-18 Revised NOX for No. 2 Oil from 20 to 24 lb/1000 gallon: Results in no change due to low projected usage