

**POWERING OIL COMPANY
BOILER UPGRADING PROJECT
DATASHEET 1**

**SPECIFICATION SHEET
SELECTIVE CATALYTIC REDUCTION**

TYPE OF FUEL		C4/C5 FUEL
FLUE GAS MASS FLOW RATE (WET BASIS) LBS/HR)		<u>76,000</u>
FLUE GAS COMPOSITION AT SCR OUTLET, (% BY VOLUME, WET)		<u>76,107</u>
NITROGEN	<u>72.50</u>	
OXYGEN	<u>2.50</u>	
WATER	<u>15.35</u>	
CARBON DIOXIDE	<u>9.75</u>	
ARGON	<u>N/A</u>	
SULFUR DIOXIDE	<u>TRACE</u>	
NO_x AS NO₂ #/HR	<u>5.3</u>	
TYPE OF AMMONIA		AQUEOUS
AMMONIA USAGE #/HR.		<u>7</u>
AMMONIA/NO_x MOLE RATIO		<u>1:1</u>
FLUE GAS VELOCITY (FPS) MIN, OP, MAX		<u>50 MAX</u>
PRESSURE DROP THRU CATALYST (" OF W.C.)		<u>2.9</u>
PRESSURE DROP THRU SYSTEM (" OF W.C.)		<u>3.0</u>
NO_x REMOVAL % (NEW)		<u>90</u>
NO_x REMOVAL % (EOR)		<u>78</u>
DISPERSION AIR REQUIREMENT SCFM		<u>15</u>
DISPERSION AIR PRESSURE PSIG		<u>N/A</u>
DISPERSION AIR FAN H.P.		<u>1</u>
CATLAYST VOLUME CF		<u>60</u>

**POWERING OIL COMPANY
BOILER UPGRADING PROJECT
DATASHEET 2**

**SPECIFICATION SHEET
SELECTIVE CATALYTIC REDUCTION**

TYPE OF FUEL		REFINERY GAS FUEL
FLUE GAS MASS FLOW RATE (WET BASIS) LBS/HR)		<u>76,000</u>
FLUE GAS COMPOSITION AT SCR OUTLET, (% BY VOLUME, WET)		<u>76,107</u>
NITROGEN	<u>72.50</u>	
OXYGEN	<u>2.50</u>	
WATER	<u>15.35</u>	
CARBON DIOXIDE	<u>9.75</u>	
ARGON	<u>N/A</u>	
SULFUR DIOXIDE	<u>TRACE</u>	
NO_x AS NO₂ #/HR	<u>5.3</u>	
TYPE OF AMMONIA		AQUEOUS
AMMONIA USAGE #/HR.		<u>7</u>
AMMONIA/NO_x MOLE RATIO		<u>1:1</u>
FLUE GAS VELOCITY (FPS) MIN, OP, MAX		<u>50 MAX</u>
PRESSURE DROP THRU CATALYST (" OF W.C.)		<u>2.9</u>
PRESSURE DROP THRU SYSTEM (" OF W.C.)		<u>3.0</u>
NO_x REMOVAL % (NEW)		<u>90</u>
NO_x REMOVAL % (EOR)		<u>78</u>
DISPERSION AIR REQUIREMENT SCFM		<u>15</u>
DISPERSION AIR PRESSURE PSIG		<u>N/A</u>
DISPERSION AIR FAN H.P.		<u>1</u>
CATLAYST VOLUME CF		<u>60</u>