

INDUSTRY		SOURCE DESCRIPTION	MONITORING SYSTEM DESCRIPTION
MILITARY	MUNITIONS INCINERATOR	Waste Incinerator with Scrubber and Baghouse	Extractive NO _x , SO ₂ , CO, O ₂ and Opacity. Reporting to 40CFR60, Appendix F.
AEROSPACE	VOC CONTROL SYSTEMS	Carbon Adsorption and Regenerative Thermal Oxidizers with Rotary Concentrator	Extractive THC Stream-switched and THC Analyzers. Reporting to 40CFR60 and Appendix F Requirements. Eight Monitoring Locations
	SUBPART Db BOILERS	Two Gas and Oil-fired Boilers	Predictive Emission Monitoring Systems (PEMS) for NO _x Reporting to 40CFR60, Subpart Db and Georgia Rules. Integrated PEMS PLC Communications with Two Boiler PLCs.
UNIVERSITY	SUBPART Db BOILERS	Three Gas and Oil-fired Boilers Providing Steam for the Medical College	Dilution NO _x , Oxygen, Opacity, Fuels from 3 Boilers, Reporting to State Permit, Subpart Db and 40CFR60, Appendix F (Turnkey)
		Gas and Oil-fired Boiler	Extractive NO _x , CO and Oxygen. Reporting to 40CFR60, Subpart Db and Appendix F Requirements
		Two Gas and Oil-fired Boilers	Predictive Emission Monitoring Systems (PEMS) for NO _x Reporting to 40CFR60, Subpart Db and Georgia Rules.
		Two Coal and Gas-fired Boilers	Dilution NO _x , Oxygen, Opacity, Fuels from 5 Boilers, Reporting to Subpart Db and 40CFR60, Appendix F (Turnkey)
	SO ₂ CONTROL SYSTEMS	Coal-fired Boiler with Dry Lime Injection/Baghouse for SO ₂ and HCl Control	Dilution SO ₂ , Oxygen, Stream-switched System for Feed-Forward Control of SO ₂ Removal
MUNICIPAL WASTE	SUBPART Db COMBUSTORS	Municipal Waste-Fired Boilers with SNCR, Dry Scrubbers, Carbon Injection and Baghouse Particulate Control (Six Sampling Points on Three Sources)	Dilution Extractive Inlet/Outlet SO ₂ , Oxygen, Moisture; Outlet NO _x , CO, Opacity. Reporting to 40CFR60, Appendix F Requirements (Turnkey)
		Two Municipal Waste-fired Boilers with Dry Scrubbers, Carbon Injection and ESP Particulate Control	Data System Replacement for CEMS on Scrubber Inlet/Outlet. Reporting to 40CFR60, Subpart Ec and Appendix F Requirements.
SEWAGE SLUDGE	MULIPLE HEARTH INCINERATORS	Two Sewage Sludge Incinerators Jacksonville, FL	Extractive THC, Oxygen, Moisture, Opacity and Process Signals -- Reporting to 40CFR503 Requirements (Turnkey)
		Two Sewage Sludge Incinerators Savannah, GA	Extractive THC, Oxygen, Moisture, Opacity, Process Signals -- Reporting to 40CFR503 Requirements (Turnkey)
		Three Sewage Sludge Incinerators Atlanta, Georgia	Extractive THC, Oxygen, Moisture and Process Signals -- Reporting to 40CFR503 Requirements (Turnkey)
		Two Sewage Sludge Incinerators Smyrna, GA	Extractive THC, Oxygen, Moisture and Process Signals -- Reporting to 40CFR503 Requirements (Turnkey)
WOOD PRODUCTS	OSB FACILITIES	Four Stacks after RTO's and WESP Units on OSB Production Process	Opacity. Reporting to 40CFR60, Subpart Dc Requirements
		Four Stacks after RTO's and WESP Units on OSB Production Process	Extractive CO and Oxygen with Opacity. Reporting to 40CFR60, Appendix B and Appendix F Requirements. Provided in Stand-Alone Shelters (Turnkey)
		Heating Units. Wood-fired followed by dry ESP. OSB Facility.	Extractive Volumetric Flow Rate, NO _x , CO, Oxygen, Moisture and Opacity. Reporting to 40CFR60, Subpart Db and Appendix F Requirements

		Energy Units and Combustion Air Ducts (Dryer Exhausts). Wood-fired followed by dry ESP. OSB Facility.	Extractive Volumetric Flow Rate, NO _x , CO, Oxygen for SNCR Process Control and Combustion Control (Non-Compliance Monitoring)
	OTHER FACILITIES	Combustion Unit Firing Carpet Trim and Wood Flooring Manufacturing Waste in GA	Opacity Reporting to Part 60. Installation and Certification, Drawings and Logic for Customer Data System.
SYNTHETIC FIBER PRODUCTION	VOC CONTROL SYSTEMS	Fiber Production Facility. Various VOC Sources Including Rotary Concentrator and RTO Exhausts	Extractive THC with Volumetric Flowrate. Stream-switched and Stack Mounted THC Analyzers. Reporting to 40CFR60 and Appendix F Requirements. Eleven Monitoring Locations.
	STEAM BOILERS	Two, 250,000 lb/hr Stoker Coal-fired Boilers with Baghouse Particulate Control Systems	Extractive Volumetric Flow Rate, NO _x , CO and Oxygen Reporting to Part 60, Part 75 and NO _x Budget Program Requirements. Provided in Stand-Alone Shelter (Turnkey)
		Two Coal-fired Boilers with Baghouse	Opacity. Reporting to 40CFR60, Appendix B, PS1
CHEMICAL PRODUCTION	BOILER SYSTEMS	No. 6 Fuel Oil-fired Boiler with Caustic Wet Scrubber	Extractive Inlet/Outlet SO ₂ , Oxygen and Outlet NO _x . Reporting to 40CFR60 Subpart Db and Appendix F Requirements
		Two, 310,000 lb/hr Natural Gas, #2 Fuel Oil and Plant Bio-Gas-fired Boilers.	Extractive NO _x , CO, Oxygen and Opacity Reporting to Part 60, Part 75 and NO _x Budget Program Requirements. Provided in Stand-Alone Shelter.
	MISC. PROCESSES	Chemical Production with Carbon Adsorption	Extractive THC as Isobutylene, Volumetric Flowrate. Reporting to 40CFR60, Appendix B, PS8
		EPS Production Regenerative Thermal Oxidizer	Extractive Inlet/Outlet THC as Butane. Reporting to 40CFR60, Appendix B, PS8
AUTOMOTIVE PRODUCTION	VOC CONTROL SYSTEMS	Regenerative Thermal Oxidizer – Automotive Painting – Brazil	Extractive Inlet/Outlet Stream-Switching System for VOC, SO ₂ , NO _x , CO. Reporting to 40CFR60, Appendix F. Drawings, Reports Translated to Portuguese.
		Regenerative Thermal Oxidizers (3 Systems)	Extractive, Close-Coupled Oxygen by Zirconium Oxide. Provide Auto Calibration, Logic for Customer-integrated PLC
UTILITY	GAS/OIL-FIRED TURBINES	Two, 159MW Simple Cycle Combustion Turbines	Extractive NO _x and Oxygen Reporting to Part 75 Requirements. Provided in Two, Stand-Alone Shelters, MODBUS Serial Communications of Process Parameters (Turnkey System)
FEDERAL GOVERNMENT	SUBPART Db BOILERS	Three Gas and Oil-fired Boilers	Predictive Emission Monitoring Systems (PEMS) for NO _x Reporting to 40CFR60, Subpart Db and Georgia Rules. Integrated PEMS MODBUS Serial Communications of Process Parameters.
TEXTILE PRODUCTION	SUBPART Db BOILERS	Gas and Oil-fired Boiler	Predictive Emission Monitoring System (PEMS) for NO _x Reporting to 40CFR60, Subpart Db. Boiler Signals and Opacity Integrated into Data System
		Two Gas and Oil-fired Boilers	Predictive Emission Monitoring Systems (PEMS) for NO _x Reporting to 40CFR60, Subpart Db.
		Two Gas and Oil-fired Boilers	Opacity. Reporting to 40CFR60, Subpart Db Requirements
PAPER PRODUCTION	SUBPART Db BOILERS	Gas and Oil-fired Boiler	Extractive NO _x , CO and Oxygen. Reporting to 40CFR60, Subpart Db and

			Appendix F Requirements
		Multi-Fuel-Fired Boiler. 300MM Btu/hr fluidized bed boiler firing solid wood waste, TDF, fuel oil, TRS. Dry ESP Followed by Caustic Scrubber.	Extractive NO _x , SO ₂ , CO and Oxygen with Opacity. Reporting to 40CFR60, Subpart Db and Appendix F Requirements. CEMS PLC Communicates with Plant DCS via RS-422.
REFINERY PROCESSES	NO _x BUDGET BOILERS	Four, 250,000 lb/hr Refinery Gas/Natural Gas/Jet A Fuel Oil-fired Boilers with Selective Catalytic Reactor Control Systems – New Jersey Installation	Extractive NO _x , CO and Oxygen Reporting to Part 60, Part 75 and NO _x Budget Program Requirements. Provided in Four, Stand-Alone Shelters
	SCR CONTROL SYSTEMS	Four Selective Catalytic Reactor NO _x Control Systems – New Jersey Installation	Extractive SCR Inlet Systems for NO and NO _x . Automatic Calibration Control, 4-20mA Signal Output to SCR Control System.
GLASS PROCESSES	SCR CONTROL SYSTEMS	Selective Catalytic Reactor NO _x Control System – Ohio Installation	Extractive Inlet/Outlet System for NO _x . Reporting to 40CFR60, Appendix F Requirements, 4-20mA Signal Output to Customer DCS.
MISCELLANEOUS	LEAD PRODUCTION	Rotary Furnace and Reverb Furnace Lead Production	Extractive CO, Oxygen, Volumetric Flowrates, SO ₂ , NO _x , Moisture. Reporting to 40CFR60, Appendix F Requirements
	HYDROGEN PRODUCTION	Hydrogen Production Facilities – Two Facilities in Alabama	Extractive NO _x with Cabinet Integration of Customer Flow and Moisture Analyzer Control Units. Output to Customer Data System. Class 1, Div.2 Z-Purged NEMA 4X Cabinets