



IRIS FLAME MONITORING SYSTEMS USER LIST (PARTIAL)

<u>MARKET</u>	<u>COMPANY</u>	<u>LOCATION</u>	<u>APPLICATION</u>
UTILITY	AEP/Southwestern Electric Knox Lee Plant	Longview, Texas	CE Unit, Gas/Oil, (16) IRIS Model 500 with Fiber Optic and (16) IRIS Model 700 Unit 2-3 B&W Front Fired Gas, Unit 5 CET Fired O&G All in before 1999
	AEP Paint Creek Plant	Haskell, Texas	B&W, Gas/Oil, (24) IRIS Model 700
	AEP Coleto Creek Plant	Fannin, Texas	CE, Coal, (24) IRIS Model 700. Units Scan Igniters Installed 2000-01, Some Issues In Upper Elevations Due To Heat
	AEP Port Phantom Plant	Abilene Texas	(1) B&W, Gas/Oil, (9) IRIS Model S550/S552
	AEP/CP&L, Paint Creek Plant	Haskell, Texas	IRIS Model 700 (24) on Igniters and Main
	AEP/CSW Knox Lee Plant	Longview, Texas	(12) IRIS Model 700 on Igniters and (12) IRIS Model S550 on Main Burners
	AEP/CSW Welsh Plant	Pittsburg, Texas	(42) IRIS Model 700 on Igniters
	AES Corp Huntington Beach Station	Huntington Beach, California	Units 3 and 4 B&W Steam Generators, 24 Opposed Todd Low No _x Burners, Natural Gas, IRIS Model S556
	Allegheny Power Albright Station	Albright, WV	Steam Generator, Riley Stoker Corp. Twelve (12) Burner, Low No _x , Burning Pulverized Coal, Natural Gas, and #2 Oil Front Wall Fired (2 Unit Installation)
	American Electric Power Co Picway Station	Lockbourne, Ohio	Steam Generator, 16 Riley Low No _x , Burners, Type 90 CCV, #3a. Natural Gas and Pulverized Coal
	American Electric Power Co Coshocton, Ohio	No Plant Listed	Steam Generator, 16 Riley Low No _x , Burners, Type 90 CCV, #3a. Natural Gas and Pulverized Coal
	American Electric Power Conesville Plant	Conesville Ohio	Power Boiler
	Austin Energy Decker Creek Plant	Austin Texas	(1) CE and (1) B&W, Gas/Oil, (16) IRIS Model 500 with Fiber Optics, (24) IRIS Model 500 and (16) IRIS Model 700
	Austin Energy, Decker Creek Station	Austin Texas	(16) IRIS Model 700 on Igniters and (16) IRIS Model S550 on Main Burners
	Quixx Corp Black Hawk Station	Borger Texas	Steam Generators (3), Babcock & Wilcox, Four Burners each Firing Natural Gas.
	Board Of Public Utilities Nearman Creek Plant	Kansas City, Kansas	Steam Generator, Pulverized Coal, Natural Gas, Riley Stoker "Turbo" Unit, 18 Burners Opposed Fired
Central Illinois Light & Power Co. Edwards Station	Peoria, Illinois	Steam Generator, Riley Stoker, Sixteen Burner In Front Wall, Burners Are Foster Wheeler Low No _x Type Burning Pulverized Coal with #2 Oil Igniters.	



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UTILITY	Central Illinois Light & Power Co. Edwards Station	Peoria, Illinois	(16) IRIS Model S506 UV, (16) IRIS Model S512 IR Viewing Heads and IRIS Model P522 Signal Processors.
	City Of Austin Decker Creek Plant	Austin Texas	Gas/Oil, (1) B&W and (1) CE, (40) IRIS Model 500 and (16) IRIS Model 700 Flame Monitors
	City Of Pasadena, CA Broadway Power Plant	Pasadena, California	Units 1 and 2 CE Steam Generators, 6 Front Fired Burners, Natural Gas, IRIS Model S556 Viewing Heads
	City Public Service Of San Antonio	San Antonio, Texas	All Units IRIS Model 500 Flame Monitors
	City Public Service Of San Antonio	San Antonio, Texas	3 Units (54) IRIS Models P522 and S550 over the next two years
	Colorado Ute Electric Association (Ps Of Co). Hayden Station	Hayden Colorado	Steam Generator, 18 Burners, Front Fired, Pulverized Coal with Gas Electric Ignition
	Commonwealth Electric Co. Sandwich Station,.	Massachusetts	Steam Generator, Unit 1, Foster-Wheeler Opposed Fired, 48 Burners (3 Per Cell), #6 Oil.
	Crisp County Power Crisp Powerplant	Cordele, Georgia	Steam Generator, Pulverized Coal Natural Gas, B&W, 4 Burners
	Didcot Power Station	Oxfordshire, UK	3 Steam Generators with 48 Burners each, Gas/Oil/Coal, B&W Low No _x Gas Added. Front And Rear Fired, with (48) IRIS Model P520, Model S506 UV and Eexd Housing
	Duke Energy Corp Morrow Bay Power Plant	Morrow Bay, California	Units 1 and 2 CE Front Fired Steam Generators, 10 Burners, Natural Gas, IRIS Model 700 Flame Monitors Units 3 and 4 B&W Steam Generators, 24 Ignitor Burners, Natural Gas IRIS Model 700 Flame Monitors
	Duke Energy Corp Moss Landing Power Plant	Moss Landing, California	Units 6 and 7 B&W Steam Generators, 48 B&W Opposed Low No _x Burners and (32) Ignitors, Natural Gas, IRIS Model S556
	San Diego Unified Port District South Bay Power Plant	Chula Vista, California	Unit 4 CE Tangential Fired Steam Generator, 12 Burners, Natural Gas, IRIS Model S556 with Fiber Optics, Units 2 and 3 Steam Generators, (4) IRIS Model Ge5 High Energy Ignitors with IRIS Model 600 Ultra Flame Rod Monitors.
	Duke Energy, Moss Landing	Moss Landing, California	(20) IRIS Model 700 Flame Monitors Main Burners, Black Furnace Protection
	Entergy Corporation Louisiana Station	Baton Rouge, Louisiana	3 Units, Gas (48) IRIS Model 700 Flame Monitors
Entergy Arkansas Corporation White Bluff Plant	Redfield, Arkansas	(2) CE, Coal (64) Ignitor Scanners IRIS Model 700 Flame Monitors	



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UTILITY	Entergy Waterford Station (Nuclear) Units No.1and 2	Killona, Louisiana	18 Burners each Gas And Oil Fired. (72) IRIS Model S550 Dual UV/IR Viewing Heads (72) IRIS Model P520 Signal Processors and Hardware.
	Entergy, Louisiana Station	Baton Rouge, Louisiana	IRIS Model 700 Flame Monitors on both Ignitors and Main Burners
	Entergy, Lynch Station	Little Rock Arkansas	(30) IRIS Gas/Electric Ignitors, (30) IRIS Model S556 on Ignitors and Main Burners
	Entergy, Lake Catherine Station	Malvern Arkansas	Gas/Electric Ignitors and (12) IRIS Model S556 on Ignitors and Main Burners
	PSI Gallagher Station	New Albany, Indiana	Foster Wheeler 18 Burner Low No _x Retrofit
	Gulf States Utilities (Entergy Gulf) Sabine Station	Bridge City, Texas	Steam Generators, Units 1and 2 C.E. Tilting Tangential Corner Fired Units, 24 Burners firing Natural Gas
	Gulf States Utilities Nelson Station	West Lake, Louisiana	Steam Generator, Unit 1, C.E. Tilting Tangential Corner Fired Natural Gas
	Gulf States Utilities Nelson Coal #6	West Lake, Louisiana	Steam Generator, C.E. Tilting Tangential Corner Fired Unit, Pulverized Coal, 24 Burners
	Honewell for Entergy R E Richie SES Gas Plant	Helena Arkansas	Front Wall Fired Boiler (32) IRIS Models S550/P522 Flame Monitors, (32) IRIS Model 7086 and (32) Fiber Optic Assemblies
	Honeywell City Of San Antonio Public Services	San Antonio, Texas	2 CE, 2 Opposing Burners, (96) IRIS Model P522, (32) Model S550, (56) Model S552, (32) Model 600U, (96) IRIS Fiber Optic Assemblies
	Honeywell, for Vectren Energy AB Brown Station	Evansville, Indiana	Opposing Fired Boiler (48) IRIS Model P522 Signal Processors, (48) IRIS Model S550 Viewing Heads
	Iowa / Illinois Gas & Electric	Davenport Iowa	Steam Generator, C.E. Corner Fired with Riley Low No _x Burners. Pulverized Coal and Natural Gas. 16 Main Burners. 28 Gas Ignitors. IRIS Model 500 with Fiber Optic extensions, IRIS Model 300 for Igniter Flame detection.
	Iowa Public Service Neal Station #1	Sergeant Bluff, Iowa	Steam Generator, Foster-Wheeler, 24 Burners, Opposed Firing, Pulverized Coal and Natural Gas, with Gas Electric Ignitors.
	Israel Electric	Israel	6 units, (96) IRIS Model P522/S550 over the next two years
	Jacksonville Electric Authority	Florida	(1) B&W, Gas/Oil, (24) IRIS Model 500, (24) IRIS Model 700, and (24) IRIS Gas Ignitors
	Mercer Station Public Service Gas & Electric	Hamilton, New Jersey	2 each – B&W Steam Boilers – 24 Burners each – 2 Scanners/Burner – 3 Rows Of 8 Burners Gas, Oil Coal Front Wall Fired
Midwest Power Co. Neal Station #2	Sergeant Bluff, Iowa	Steam Generator, (16) Burners, Foster-Wheeler, Pulverized Coal, Natural Gas & #2 Oil.	



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UTILITY	Mirant Corp Pittsburg Power Plant	Pittsburg, California	2 B&W Steam Generators, 24 Opposed Todd Low No _x Burners, Natural Gas, IRIS Model S556
	Mirant Corporation Contra Costa Power Plant	Antioch, California	Units 7 and 8 B&W Steam Generators, 24 Opposed Todd Low No _x Burners, Natural Gas, IRIS Model S550
	Montana-Dakota Utilities Co. / Ottertail Power Big Stone Plant	Big Stone City, South Dakota	Steam Generator, Honeywell IAC 24 Burners, Oil And Pulverized Coal, (12) IRIS Model P520's, IRIS Model S512 and 12 Model S512e's with Fiber Optics on Ignitors, IRIS Model P520 Flame Monitors on the Aux Boiler.
	New England Power Co. Salem Harbor #3	Salem Massachusetts	Steam Generator, 16 Low No _x Riley Burners, Type CCV, Pulverized Coal and #6 Oil. IRIS Model P520 with Infrared Viewing Heads.
	New England Power Co. Salem Harbor #2	Salem Massachusetts	Steam Generator, 12 Low No _x Riley Burners, Type CCV, Pulverized Coal and #6 Oil. IRIS Model P520 with Infrared Viewing Heads.
	New Energy Corporation	South Bend, Indiana	Steam Generator, Riley "Turbo" unit firing Pulverized Coal, #6 Oil and Natural Gas, Waste Fuel
	NRG Energy Inc. Cabrillo Station	Carlsbad, California	30 IRIS Ignitors
	Pacific Gas & Electric Co (Mirant) Contra Costa	Antioch California	Steam Generator, 24 Low No _x Todd Burners, Natural Gas And #6 Oil
	Pennsylvania Power & Light Co. (PDI) Sunbury #3	Shamokin Dam Pennsylvania	Steam Generator, 12 Low No _x Riley Burners Type CCV, Pulverized Coal And #2 Oil Ignitors.
	Pennsylvania Power & Light Co. Sunbury #4	Shamokin Dam, Pennsylvania	Steam Generator, 12 Low No _x Riley Burners Type CCV, Pulverized Coal And #2 Oil Ignitors.
	Pennsylvania Power & Light Co. Martins Creek #1	Martins Creek, Pennsylvania	Steam Generator, 12 Low No _x Riley Burners Type CCV, Pulverized Coal And #2 Oil Ignitors.
	Pennsylvania Power & Light Co. Martins Creek #2	Martins Creek, Pennsylvania	Steam Generator, 12 Low No _x Riley Burners Type CCV, Pulverized Coal And #2 Oil Ignitors.
	TX Genco Cedar Bayou Plant	Houston, Texas	(1) B&W and (1) FW, Gas/Oil (48) IRIS Model P532, (96) IRIS Model S550, (48) IRIS Model 700 Flame Monitors
	Reliant Energy California	Ormond Beach California	B&W, Gas/Oil, (12) IRIS Models P532 Signal Processors with S550 viewing Heads
	Reliant Energy Texas Genco Deep Water Plant	New Jersey	B&W, Gas (32) IRIS Model 700 Flame Monitors
	Reliant Energy Deer Park Plant	Texas	Combined Cycle Plant, Duct Burner (48) IRIS Model 700 Flame Monitors
Texas Genco Waq Parish	Thompsons, Texas	(1) B&W (1) CE, Gas/Oil, (36) IRIS Model P522 Signal Processors with S550 Viewing Heads	



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UTILITY	Reliant Energy/HI&P	Texas	(98) IRIS Model 700 Flame Monitors on Ignitors
	Sigeco (For Vectren Energy) A.B. Brown Station	Mt. Vernon, Indiana	24 Burners Coal Fired. IRIS Model S552 IR Viewing Heads with Model P520 Signal Processors, FlameTools Software
	Sigeco (for Vectren Energy) F.B. Culley Station	Evansberg, Indiana	24 Burners Coal Fired. IRIS Model S550 UV/IR Viewing Heads with Model P520 Signal Processors, Flametools Software
	Southern Energy, Pittsburg Station	Pittsburg, California	(48) IRIS Model S556 on Ignitors and Main Burners
	Southern Entergy, Contra Costa Station	Antioch, California	IRIS Model S556 (24) on Ignitors and Main Burners
	Taiwan Power Company	Taiwan	24 IRIS Model S552 IR Viewing Heads with Model P520 Signal Processors
	Con Ed Hudson, Ave. #100	New York, New York	16 Todd Variflame Low No _x Gas/Oil Burners IRIS Model 500 Flame Monitors
	INC. Pacificorp. Gadsby #1 & #2	Slc, Utah	2 Units 6 Todd Variflame Low No _x Gas Future Oil Burners IRIS Model P520 Flame Monitors
	Tri-State G&T Craig Station Craig, Co Units 1, 2, & 3	Craig, Colorado	120 B&W Dual Register Burners (120) IRIS Model S550 Dual UV/IR Viewing Heads with IRIS Model P522 Signal Processors.
	Tucson Electric, Irvington Plant	Tucson Arizona	(12) IRIS Model 700 Flame Monitors on Ignitors and IRIS Model S550 (12) on Main Burners
	Tucson Electric Power Company, Irvington Plant	Tucson Arizona	(1) CE and (1) FW, Coal/Gas, (16) IRIS Model S550/P522 Flame Monitors with Fiber Optics (12) IRIS Model S550/P522 and (12) IRIS Model 700 Signal Processors
	TXU Electric Stryker Creek Plant	Jacksonville Texas	(1) B&W, Gas, (18) IRIS Model S550/P522 and (18) IRIS Model 700/806, IRIS Gas Ignitors
	TXU Electric Lake Hubbard Plant	Mesquite Texas	(2) B&W, Gas/Oil, (62) IRIS Model P532, (124) IRIS Model S550
	TXU Electric Valley Plant	Savoy Texas	Gas/Oil, (1) FW and (2) B&W, (32) IRIS Model 500 and (24) IRIS Model 700 Flame Monitors
	TXU Electric Morgan Creek Plant	Colorado City, Texas	Gas/Oil, IRIS Model 500 Flame Monitors
	TXU Electric Valley Plant	Savoy Texas	(18) IRIS Model 700's on Ignitors and Main Burners Mr. Stewart Rake (309) 965-5116
	Utilicorp Energy Group (Aquila) Sibley Generating Station	Sibley, Missouri	Power Boiler (8) 10' B&W Cyclones
	Westmoreland / LG&E Roanoke Valley Energy Facility	Weldon, North Carolina	Steam Generator, Sixteen (16) Low No _x Burners, Burning Pulverized Coal, Natural Gas and #2 Oil.



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UTILITY	Westmoreland / LG&E Roanoke Valley Energy Facility,	Weldon North Carolina	22 Burners Coal Fired
	New Energy Corp.	South Bend, Indiana	Steam Generator, Riley "Turbo" Unit Firing Pulverized Coal, #8 Oil and Natural Gas, Waste Fuel
	U.S. Army Base Fort Lewis	Fort Lewis Washington	Steam Generators (2), Natural Gas, IRIS Model 300 Flame Monitors
	Colorado UTE Electric Assoc. Hayden Station	Hayden Colorado	Steam Generator, 18 Burners, Front Fired Pulverized Coal with Gas Electric Ignition
	Colorado Ute Electric Assoc.	Colorado	Steam Generator, 18 Burners Front Fired Pulverized Coal and Gas Electric Ignition
	Commonwealth Electric Co. Sandwich Station	Massachusetts	Steam Generator, Unit 1, Foster-Wheeler Opposed Fired, 48 Burners (3 Per Cell), #6 Oil
	Consolidated Edison Co. 59th Street Station	New York, New York	Steam Generators, Three (3), #6 Oil Four (4) Burners each
	Gulf State Utilities Nelson Coal #6	Westlake, Louisiana	Steam Generator, C.E. Tangential, Tilting Bucket Corner Fired Unit, Pulverized Coal, 24 Burners
	Gulf States Utilities Nelson Coal #8	Lake Charles Louisiana	Steam Generator, C.E. Tangentially Tilting Bucket Corner Fired Unit, Pulverized Coal, 24 Burners
	Iowa Public Service Neal Station Sergeant	Bluff, Iowa	Steam Generator, Foster-Wheeler, Pulverized Coal and Natural Gas, Twenty-Four (24) Burners, Opposed Firing, W/Gas Electric Ignition
	Iowa Public Service Neal Station Sergeant	Bluff, Iowa	Steam Generator, Babcock & Wilcox, Cyclone Burners, Crushed Coal and Natural Gas, with Gas Electric Ignition
	Kansas City Light and Power	Kansas City Missouri	4 IRIS Model 500 Flame Monitors
	New Energy Corporation		Steam Generator, Riley "Turbo" Unit, Pulverized Coal, #6 Oil, Natural Gas, Waste Fuel Streams
	Seattle Steam Company	Seattle, Washington	Number 1 Boiler, (4) IRIS Model P522's and Model S506 Viewing Heads Firing Gas/Oil c/w IRIS BMS
	Seattle Steam Company	Seattle, Washington	Package Boiler, Single Burner, Dual Fuel, (2) Model P522 and S550 Viewing Heads. Firing Gas/Oil c/w IRIS BMS
	University Of Alberta	Edmonton, Alberta	330,000 PPH B&W Boilers, 4 Todd Low No _x Gas/Oil Burners (4) IRIS Model 500 Systems Boiler No. 5
	University Of Alberta	Edmonton, Alberta	4 Todd Low No _x Gas/Oil Burners, IRIS Model P520 and Systems Interface with Existing BMS. Boiler No.3
	Wisconsin Power & Light Co. Rock River Station	Beloit, Wisconsin	Steam Generators, (2), Pulv. Coal and #6 Oil, Four (4) Burners each



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UTILITY	Wisconsin Power & Light Blackhawk Station	Beloit, Wisconsin	Steam Generators, Natural Gas and #6 Oil
UTILITY	Arizona Electric Power Corp.	Arizona	Steam Generator, Riley Opposed Turbo Burners (12), Pulv. Coal and Gas Fired
UTILITY	Arizona Electric Power Apache Station	Cochise, Arizona	Steam Generator, Riley "Turbo" Unit, Pulverized Coal and Natural Gas, 12 Burners, Opposed Fired
UTILITY	Board Of Public Utilities Nearman Creek Plant	Kansas City, Kansas	Steam Generator, Riley "Turbo" Unit, Pulverized Coal and Natural Gas, 18 Burners Opposed Fired
UTILITY	Wisconsin Power & Light Co. Rock River Station	Beloit, Wisconsin	Steam Generators, (3) Babcock & Wilcox, Four Burners Firing Pulverized Coal.

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INDUSTRIAL	Babcock and Wilcox Canada	Aruba	2 Units 6 B&W Burners each Gas/Oil IRIS Model 500
INDUSTRIAL	Babcock and Wilcox	Canada	(5) IRIS Model P520 and Viewing Heads Mounted In a Control Cabinet For Thailand.
INDUSTRIAL	Fairchild Air Force Base	Spokane, Washington.	Steam Generators, Units 1, 2 and 3 Riley Stoker Units Firing Oil and Pulverized Coal
INDUSTRIAL	John Zink Co.	Tulsa, Oklahoma	(4) IRIS Model 500 Systems End User Unknown
INDUSTRIAL	John Zink Dubai Natural Gas	Dubai	(4) IRIS Model 500 Systems End User Unknown
INDUSTRIAL	Medland Controls	Chula Vista, California	(9) IRIS Model 500 Systems For U.S. Navy Ship
INDUSTRIAL	Propak Systems		User Unknown
INDUSTRIAL	Rocketdyne	Los Angeles, California	(7) IRIS Model 500 Systems, Sulfur Furnace, Todd Low No _x Burners, Natural Gas
INDUSTRIAL	Guatemala/Concept II Guatemala/Pantal II	Guatemala Santa Ana	Todd Combustion Inc.2 Burners each Gas/Oil/Bagasse
INDUSTRIAL	Marine Corp Base Camp Lejeune,	North Carolina	Power Boiler (4) Units 2 Burners each, (1) Unit 1 Burner
INDUSTRIAL	Fairchild Air Force Base	Spokane, Washington	Steam Generators, Units 1, 2 and 3 Riley Stoker Units Firing Oil and Pulverized Coal
METALS	Worsley Alumina	Station Australia	(12) IRIS Model P520 Signal Processors with (12) Model S552 Viewing Heads
METALS	Elkem Metals Company	Pensylvania	Steam Generator, Riley Stoker Unit



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METALS	Babcock and Wilcox Canada Algoma Steel	Sault Ste. Marie, Ontario	6 B&W Burners Blast Furnace Gas/Coke Oven Gas/Oil IRIS Model P520 Flame Monitors
METALS	Canada Cement	Lafarge	Cement Kiln Firing Pulverized Coal
PULP AND PAPER			
PULP & PAPER	Cariboo	Quesnel, British Columbia	N.C.G. Burner Power Boiler
	Celanese Canada.	Edmonton, Alberta	(2) IRIS Model 500 Systems on Waste Incinerator
	Celanese Canada	Edmonton, Alberta	(12) IRIS Model P522 and Viewing Heads # 3 and 4 Power Boiler.
	Consolidated Papers	Niagara, Wisconsin	Power Boilers (6) Burners Coal
	Centra Gas Boise Cascade	Ft. Frances	Retrofit: John Zink Duct Burner (500 Million/Btu/Hr.) (28) IRIS Model P520 with S506 U.V. Viewing Head
	Champion Int. Corp.	Pasadena, Sheldon	Lime Kilns, Thermal Oxidizers
	Champion Int. Corp.	Pasadena, Texas.	Thermal Oxidizer Firing Waste Fuel Streams and Non- Condensable Gases
	Champion Int. Corp.	Cantonmet, Florida	Lime Kiln, Firing Natural Gas, Non-Condensable Gases and H2s
	Container Corp.	Fernandino California	Lime Kiln
	Container Corp. Of America	Brewton, Alabama	Lime Kiln Firing Natural Gas and #6 Oil
	Container Corp. Of America Brewton	Fernandino Beach	Black Liquor Recovery, Lime Kilns Power Units
	Georgia Pacific Corp.	Zachary	Black Liquor Recovery, Lime Kilns Power Units
	Georgia Pacific Corp.	Lyons Falls, New York	Two Steam Generator Units Firing Natural Gas, #6 Oil and Waste Fuels
	Georgia Pacific Corp.	Woodland, Maine	Steam Generator, B&W, Six Burners Firing Over Hog Fuel Grate, Oil and Gas
	Georgia Pacific Corp.	Crossett, Arkansas	Power Boilers 5a and 6a, (10) IRIS P520 with S506 Viewing Heads
Great Southern Paper	Cedar Springs	Black Liquor Recovery	
Inland Rome	Rome, Georgia	Lime Kiln (2) Natural Gas and Non-Condensable Gases	



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PULP & PAPER	Inland Rome	Rome, Georgia	Black Liquor Recovery.
	International Paper Co.	Moss Point, Mississippi	Lime Kiln, Natural Gas and Non-Condensable Gases
	International Paper Co.	Camden, Arkansas	Lime Kiln Firing Natural Gas, #6 Oil, Petroleum Coke, Non-Condensable Gases
	International Paper Co.	Natchez, Mississippi.	Lime Kilns, (3), Firing Non-Condensable Gases, H2s and Natural Gas
	International Paper Co.	Mansfield, La.	Lime Kiln Firing Natural Gas, Non-Condensable Gases and Waste Fuels
	International Paper Co.	Natchez, Vicksburg Moss Point Camden Pine Bluff Jay Texarkana	Black Liquor Recovery, Lime Kilns, Gas, Oil and Non-Condensable Gases, Power Units
	International Paper Co.	Jay, Maine	Black Liquor Recovery Unit, #6 Oil Fired 6 Burners
	International Paper	Ticonderoga, New York	Riley Black Liquor Recovery Lime Kiln
	International Paper	Kaukauna, Wisconsin	Lime Kiln
	International Paper	Jay Maine	Power Boiler (2) Units Six Burners each
	Meadwestvaco Fine Paper Mill	Piedmont Wyoming	Power Boilers (1) Unit 2 Burners (1) Unit (8) Burners Lime Kiln, 6 Driers
	Meadwestvaco	Escanaba, Michigan	(4) 2 Burner Gas Power Boilers, bark/gas Furnace, Lime Kiln
	International Paper Co.	Pine Bluff, Arkansas	Lime Kiln Firing Natural Gas and #6 Oil
	International Paper Co.	Texarkana, Texas	Lime Kiln Firing Natural Gas and #6 Oil
	International Paper Co.	Ticonderoga, New York	Black Liquor Recovery Unit, 6 Burners, Oil Fired
	ITT Rayonier	Jesup, Georgia	Lime Kilns, Natural Gas and Non-Condensable
	James River	Camus Washington	Gas/N.C.G.'s Power Boiler
	James River Corp.	Berlin, New Hampshire	Lime Kiln Firing Non-Condensable Gases, H2s, Natural Gas and #6 Oil



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PULP & PAPER	James River Marathon	Marathon, Ontario	Black Liquor Recovery Boiler, CE Corner Fired-Oil Only, 4-Warm Up Burners (on 2nd Floor), 4-Load Burners (4 th Floor).
	Macmillan Bloedel Ltd.	Port Alberni, British Columbia	#2 Power Boiler (C.E.) #3 Power Boiler (B. & W.) #4 Power Boiler (C.E.) #3 Lime Kiln
	Macmillan Bloedel Ltd..	Harmac, British Columbia	#1 Lime Kiln #2 Lime Kiln #3 Lime Kiln
	Macmillan Bloedel Ltd.	Harmac, British Columbia	(8) IRIS Model 500 Systems, No. 9 Boiler CE Corner Fired Unit Coen Gas and Oil Burners.
	Mead Corporation	Excanaba, Michigan	Yankee Dryer, Six Burners Firing Natural Gas, Lime Kiln Firing Natural Gas and Non-Condensable Gases
	Norcan Energy	Buck Lake	(1) IRIS Model 500 System on 1 Sulfur Furnace
	Northwood Pulp and Timber,.	Prince George, British Columbia	Lime Kilns Power Boiler Gas/Oil/Ncg's
	Northwood Pulp and Timber,.	Prince George, British Columbia	CE Recovery Boiler, #2 Power Boiler and #4 Power Boiler, IRIS Model P522 and Viewing Heads.
	Owen - Illinois Corp.	Valdosta, Georgia	Lime Kiln Firing Natural Gas, #6 Oil, Non-Condensable Gases
	Owen Illinois	Clyattville	Lime Kiln, Natural Gas, #6 Oil, Non-Condensable Gases Nekoosa Packaging Corp.
	Prince George Pulp	Prince George, British Columbia	Power Boiler and Lime Kiln
	Prince George Pulp.	Prince George, British Columbia	B&W Recovery Boiler, IRIS Model P520 and Viewing Heads.
	S.D. Warren Division Scott Paper	Westbrook, Maine	Steam Generator, four Opposed Burners firing #6 Oil Over a Hog Fuel Grate, uses 20' Fibre Optics
	Scott Paper Company	Hinckley, Maine	Black Liquor Recovery Unit, Twelve Burners firing # 6 Oil
	Scott Paper Company	Hinckley, Westbrook, Maine	Black Liquor Recovery, Lime Kilns, Power Boiler
	Scott Paper Company	Hinckley, Maine	Steam Generator, Four Burners Firing #6 Oil
	Skeena Cellulose Inc.	Prince Rupert, British Columbia	#2 Boiler 6 Burners Gas/Oil
	Skeena Cellulose Inc.	Prince Rupert, British Columbia	#4 Boiler Bed 6 Todd Burners Gas/Oil/Hog Fuel Brilliancy and Recovery Boiler
	St. Joe Forest Industries	St. Joe	Black Liquor Recovery



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PULP & PAPER	Stone Consolidated	Portage-Du-Fort, Quebec	TRS Incinerator
	Stone Consolidated	Portage-Du-Fort Quebec	Power Boiler Bed Brilliancy
	Stone Container	Hodge	Lime Kilns
	Tembec Inc.	Temiscaming, Quebec	# 2 Boiler Conversion, Firing Gas/Red Liquor, (2) Model P522's and S506 Viewing Head c/w IRIS BMS System.
	Usutu Pulp and Paper Co.	Swaziland, South Africa	Lime Kiln Firing Propane, Tar and Producer Gas (160 Btu/Ft3)
	Westavco	Luke, Maryland	Power Unit, C.E., Tangential, Tilting Bucket Corner Fired Pulverized Coal, Oil Gas, Waste Fuel
	Westvaco	Luke Maryland	Steam Generator, C.E. Corner Fired Tilting Buckets, 16 Burners Firing Pulverized Coal, Oil and Natural Gas
	Westvaco	Luke, Maryland	Steam Generator, Babcock & Wilcox, Cyclone Units (2 Firing Crushed Coal and Oil)
	Weyerhaeuser Canada.	Kamloops, British Columbia	(2) IRIS Model 500 Systems on Lime Kiln, (1) IRIS Model 500 on TRS Incinerator
	Weyerhaeuser Co.	Valiant, Oklahoma	Steam Generator, 6 Burners Firing Natural Gas and #6 Oil
	Weyerhaeuser Paper Co.	Valliant, Oklahoma	Power Unit, Natural Gas and Oil, 8 Burners
	Willamette Ind. Inc. Albany	Campti, Louisiana	Lime Kilns
	Willamette Ind. Inc. Albany	Campti, Louisiana	Power Boilers, (16) IRIS Model 500 and Model P522's
	Wisconsin Paperboard	Milwaukee Wisconsin	Steam Generator, Four Burners, Firing Natural Gas and #6 Oil
	Cariboo Pulp and Paper	Quesnel, British Columbia	Black Liquor Recovery Boiler, FCT Oil Gun add To Existing Gas Burners, (6) IRIS Model 500
PETRO-CHEMICAL INDUSTRY			
	Petro Canada	Edmonton, Alberta	(1) IRIS Model 500 System on Sulfur Furnace
	Monsanto - Agrichemical	Fayetteville, North Carolina	Gas Fired Process Heater Difficult Detection Application
	Monsanto Co..	Pensacola, Florida	Two B&W Steam Generating Units and Incinerator, Four Burners each Unit Firing Natural Gas, #6 Oil and Various Waste Fuel Streams.



IRIS FLAME MONITORING SYSTEMS USER LIST (PARTIAL)

MARKET	COMPANY	LOCATION	APPLICATION
PETRO-CHEMICAL	Petro Canada	Brazeau Alberta	(1) IRIS Model 500 System on 1 Sulfur Furnace
	Petro Canada	Hanlan Robb Alberta	(1) IRIS Model 500 System on 1 Sulfur Furnace
	Tennessee Eastman Co. Kingsport	Kingsport, Tennessee	Steam Generator, 12 Burners, Low No _x , Front Wall Mounted, Burning Pulverized Coal, Natural Gas and #2 Oil.
	Exxon Mobile Refinery	Channahon Illinois	Power Boiler (4) Burner Natural Gas
	Equilon WRRC	Roxana, Illinois	Lime Kiln
	FMC Corporation		(2) B&W, Coal IRIS Models S550/S552
	Arco	Carson, California	(18) IRIS Model 500 CO Boiler 9 Todd Low No _x Burners (2 Per Burner)
	Arco Chemicals		Gas Fired Process Heater (3 Units)
	Canadian Oxy.	Brandon Manitoba	Boiler Natural Gas, Hydrogen
	Colt Engineering Dubai Natural Gas	Dubai	(12) IRIS Model 500 Systems throughout Sulfur Plant
	Dow Chemical Co..	Freeport, Texas	Liquids Incinerator (1 Burner) Natural Gas, Chlorinated Liquid Waste.
	Dow Chemical Co.	Freeport, Texas	Experimental Coal Gasification Project
	Dow Chemical Co..	Plaquemine, Louisiana	Gas Fired Liquid Waste Incinerators (2) detection of Natural Gas and Waste Fuel with discrimination from hot refractory
	Dow Chemical Co.	Midland, Michigan	Thermal Oxidation Furnace Hot Refractory Discrimination and Natural Gas detection when waste gases being fired
	Dow Chemical Co..	Freeport, Texas	6 Burner Waste Incineration Kiln/Waste Heat Boiler, Natural Gas fired with varying liquid organic and gaseous waste streams.
	Dupont	Maitland, Ontario	Boiler #1, 2 and 3, IRIS Model 500 with S512 and S506 Viewing Heads
	Monsanto Co.	Fayetteville, North Carolina	Incinerator, Natural Gas and Waste Fuel Streams
	Monsanto Chemical	Chocolate Bayou, Louisiana	Gas Fired, Liquid Waste Incinerator Detection Of Liquid Waste Firing
	St. Gobail (Gobain) Abrasives	Worcester, Massachusetts	Riley Power Boiler (4) Burner Coal/Natural Gas



IRIS FLAME MONITORING SYSTEMS USER LIST (PARTIAL)

<u>MARKET</u>	<u>COMPANY</u>	<u>LOCATION</u>	<u>APPLICATION</u>
REFINERIES			
REFINERY	Amoco Oil Co.	Mandan, North Dakota	Sulfur Recovery Unit - Natural Gas/Sour Gas Fired, Hot Refractory Discrimination
	Amoco Canada Kaybob Gas Plant	Kaybob, Alberta	(1) IRIS Model 500 System on Sulfur Furnace
	Amoco Oil Co.	Texas City, Texas	Utility Boiler (4 Units) Natural and Refinery waste gas fired protection from nuisance trips caused by surges of hydrogen in the gas system.
	Chevron USA Inc..	El Segundo, California	(16) IRIS Model 500 Systems with 21Ft Fibre Optics for Claus Reaction Furnace
	Chevron Canada	Burnaby, British Columbia	(2) IRIS Model 500 systems on CO Boiler, No. 3 Boiler, Oil/Gas/Refinery Gas
	Chevron Canada	Burnaby, British Columbia	(1) IRIS Model 400 system on Vertical Furnace
	Conoco Phillips	Roxana, Illinois	Furnace (1) Burner, Scot Unit (1) Burner
	Conoco, Inc..	Lake Charles, Louisiana	Claus Reaction Furnace, firing Sour Gas
	Conoco, Inc.	Lake Charles, Louisiana	Sulfur Recovery Unit - Natural Gas/Sour Gas Fired, Hot Refractory Discrimination
	Citgo Petroleum Refinery	Lemont Illinois	Sulfur Recovery (2) Trains
	Consumers Co-Op Refinery	Regina, Saskatoon	Sulfur Recovery Unit-Natural Gas/Sour Gas Fired, hot Refractory Discrimination
	D.P.H. & Assoc./ Mobil Oil Harmatten Gas Plant	Alberta	(1) IRIS Model 500 System on Sulfur Furnace (1) IRIS 300 System on Tail Gas Incinerator
	Delhi Gas Plant	Pittsburgh, Texas	(1) IRIS Model 500 System on Sulfur Furnace
	Delta Projects Shell	Caroline	(20) IRIS Model 500 systems throughout Sulfur Plant
	Dubai Natural Gas	Dubai	Sulfur Recovery units Gas/Sour Gas Fired
	Esso Resources Canada Gas Plant	Quirk Creek Alberta	(1) IRIS Model 500 System on Sulfur Furnace
	Exxon Co. USA	Rotterdam	Claus Reaction Furnaces, In-Line units, Incinerators.
Exxon Co. USA	Linden, New Jersey	Claus Reaction Furnaces, In-Line units, Incinerators.	



IRIS FLAME MONITORING SYSTEMS USER LIST (PARTIAL)

MARKET	COMPANY	LOCATION	APPLICATION
REFINERY	Exxon Co. USA	Baytown, Texas	Claus Reaction Furnaces, In-Line units, Scot Incinerator
	Fluor Daniel Chevron		(2) IRIS Model 500 Systems on Sulfur Plant
	Gulf Rimbly		(1) IRIS Model 500 System on Sulfur Furnace
	Gulf Nevis		(1) IRIS Model 500 System on Sulfur Furnace
	Imperial Oil Ltd. Refinery	Nanticoke	1 CO Boiler 4 Burners Gas/Oil/Co IRIS P520's redundant systems 1 Power Boiler 4 Burners Gas/Oil Burners IRIS P520's redundant
	Koch Refinery	Corpus Christi Texas	Power Unit
	Lyondell Petrochemicals	Houston, Texas	Sulfur Recovery Unit - Natural Gas/Sour Gas Fired, Hot Refractory Discrimination
	Valero /Phibro Refinery	Texas City, Texas	Sulfur Recovery Unit - Natural Gas/Sour Gas Fired, Hot Refractory Discrimination
	Valero / Phibro Regining	Houston, Texas	Sulfur Recovery Unit - Natural Gas/Sour Gas Fired, Hot Refractory Discrimination
	Poco	Sturgeon Lake	(2) IRIS Model 500 systems on 2 Sulfur Furnaces
	Shell Oil Co.	Pearson Plant, Texas	Claus Reaction Furnace, Sour Gas
	Shell	Caroline, Alberta	Sulfur Recovery Units Gas/Sour Gas Fired
	Shell by Black and Veatch Pritchard Overland Park, KS	Puget Sound	Puget Sound Thermal Reactor Combustion Chamber/Incinerator
	Shell Western E&P	Douglasville, Texas	Sulfur Recovery Unit-Natural Gas/Sour Gas Fired, Hot Refractory Discrimination - Fibre Optics utilized to locate viewing head in enclosure.
	Shell Oil Company	Martinez, California	Claus Reaction Furnace, three In-Line Furnaces, Scot Unit, Sour Gas
	Shell Development Company	Houston, Texas	Experimental Coal Gasification project
	Smackover Shell.	Eustache, Texas	Claus Reaction Furnace, three In-Line Furnaces, one Scot Unit firing Sour Gas (H2s)
	Texas City Refining Company	Texas City, Texas	Claus Reaction Furnace, firing sour gas
	The Pritchard Corporation	Overland Park, Kansas	Sulfur Recovery Unit - Natural Gas/Sour Gas fired, Hot Refractory Discrimination



IRIS FLAME MONITORING SYSTEMS USER LIST (PARTIAL)

<u>MARKET</u>	<u>COMPANY</u>	<u>LOCATION</u>	<u>APPLICATION</u>
REFINERY	Union Pacific Resources	Wilmington California	Sulfur Recovery Unit - Natural Gas/Sour Gas fired, Hot Refractory Discrimination
	Valero Refining	Corpus Christi Texas	Sulfur Recovery Unit - Natural Gas/Sour Gas fired, Hot Refractory Discrimination
	Amoco Canada Crossfield Gas Plant	Crossfield, Alberta	(1) IRIS Model 500 System on 1 Sulfur Furnace
	Amoco Oil Co.	Texas City, Texas	Claus Reaction Furnaces
	BP Amoco Refinery	Whiting, Indiana	Sulfur Recovery (3) Claus Trains Power Boiler
	BP Refinery	Toledo, Ohio	Sulfur Recovery (2) Claus Trains
	Litwin Engineers (For: Total Petroleum Corp.)	Houston, Texas	Sulfur Recovery Unit - Natural Gas/Sour Gas Fired, hot Refractory Discrimination
LISTING FOR IRIS IGNITORS			
Utility	JEA, Northside Plant	Jacksonville, Florida	IRIS High Energy Ignitots (24)
Utility	NRG Energy, Cabrillo Plant	Carlsbad, California	IRIS High Energy Ignitors (30)
Utility	Entergy, Lake Catherine Plant	Malverm, Arkansas	IRIS High Tension Ignitors (12)
Utility	Entergy, Lynch Plant		IRIS High Tension Ignitors (24, 6)
Pulp and Paper	International Paper, 12 Plants		High Energy Ignitor (1per Unit) Lime Kiln / Turbulant Diffusion Technology
Industrial	Norski Canada, Crofton	Vancouver British Columbia	IRIS High Tension Ignitor (12) 2 7/8x4, Recovery Boiler
Pulp and Paper	Canfor, Prince George Mill	Prince George, British Columbia	IRIS High Tension Ignitors (6) 2 7/8x4, Recovery Boiler
Refining	Chevron Canada, Burnaby	Burnaby British Columbia	High Energy Ignitors (2) 1-7/8, Power Boiler