



FIREYE® USER APPLICATIONS GUIDE

Selected US Installations

COMPANY & LOCATION	EQUIPMENT & DATE INSTALLED	BOILER/BURNER EQUIPMENT	FUELS	CATEGORY
Crown Vantage Paper Mill Berlin, NH	45RM4; 25SU5; 5012; Ignitors on recovery boiler; 6 burners Installed 1992	B&W Recovery boiler		Recovery Boiler
Georgia Pacific Toledo, OR	45UVFS1 with -2000 (4 total) on corner-fired Black Liquor boiler 2 boilers are using Signature Scanners on gas burners that are used for starting/s topping the liquor fire	Black Liquor	Natural gas	Recovery Boiler
Georgia Pacific Toledo, Oregon	45FS1/-2000; Recovery B Installed 1996		Natural gas	Recovery Boiler
International Paper Co. Jay, Maine	45RM4; 25SU3; 2000; Upgrade controls on recovery boiler; 6 burners. Installed 1997	B&W	Natural gas	Recovery Boiler
James River Paper Old Town, Maine	45RM4; 25SU3; 2000; Upgrade scanners and recover boiler; 5 burners. Installed 1997	B&W		Recovery Boiler

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James River Pulp and Paper Camas, Washington	45UVFS1/-2000; Recovery B; 6 burners. Installed 1996.		Natural gas	Recovery Boiler
McMillan Bloedel Pine Hill, Alabama	45FS1 / 2000 on CE Tang Fired Recovery and Power Boilers Total of 28 Burners	CE Tang Fired Recovery and Power Boil- ers Total of 28 Burners	Nat Gas, Oil, Coal and Bark	Recovery Boiler
VA Fiber Corporation Riverville, VA	Process steam/recovery boiler; opposed, gas/oil, liquor; 45UVFS1-1000/25SU3-2000; 4 burners. Installed 1995	B&W Boiler	Natural gas, oil	Recovery Boiler
Dow Chemical, Station 1-4 Plaquemine, LA	45FS1/25SU5-5011; Natural gas; 4 burners per unit. Installed 1980's	B&W Power boiler	Natural gas	Steam Process Boiler
Eastman Kodak Rochester, NY	45RM2; 45RM4, 45UV5; two cyclones - one tangential incin- erator; 12 burners total Installed 5011 - 1980; 5100 systems - 1985	1-4 burner boiler; B&W CE		Steam Process Boiler
Exxon Chemical Baytown, TX	45UV5-1000; 45FS1; 25SU3- 5172; 25SU3-2000; Opposed fired natural gas. Installed 1970's	FW CO Boiler	Natural gas	Steam Process Boiler
Glendale Public Service Grayson Power Plant Glendale, CA	45FS1/45UVFS1 25SU3-2000	B&W/Riley Front fired boilers		Steam Process Boiler
GSA Central Heating Plant Washington, DC	Heating use-W.Tube: gas/oil; opposed fired-multi level; 45UV5-1000/25SU5-5011; 2 boilers 9 & 12 burners Installed 1992/1993 / 1996	Coen burners	Natural gas and oil	Steam Process Boiler
Hamilton Standard Windsor, CT	25SU5; 5012; 45UV5; 45RM4; Control upgrade; 8 4-2 burner boilers. Installed 1993	Riley Front fired		Steam Process Boiler
Hoffman-LaRoche Nutley, NJ	C9507N4001/R9005P5001; 10 burners; Todd installed new burners in 1995	B&W 4 burners / 1 boiler; CE 4 burners (tangential); Coen 2 front fired burners		Steam Process Boiler
Merck & Co. Ranway, NJ	45UV5/1000; 25SU5-5011; 1-4 & 1-5 burner - front fired Installed 1995	B&W		Steam Process Boiler
Mobil Refinery Beaumont, TX	4011/5012/45UV5-1000; tangentially fired natural gas Installed 1970's	CE CO Boiler	Natural Gas	Steam Process Boiler

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Organo Silicons Group Friendly, WV	Signature Scanner tied to Bailey Infi - 90 control system	Erie City Water Tube producing 120,000 lbs/hr @ 5000F - 2 burners side by side w/ two scanners p/burner - one scanner for main, the second for the ignitor		Steam Process Boiler
Pfizer Corp. Groton, CT	45UV5; 45RM4 & RM2; 25SU5 5012; New lo NOx burners; 9 burners. Installed 1995	3-3 burner front fired; B&W		Steam Process Boiler
Phillip Morris, Inc. Richmond, VA	Process steam w/tube: gas/oil; 24SU3-2000 upgrades/45UV from 25SU-4169/70; opposed multi level. Installed 1995- present			Steam Process Boiler
Polaroid New Bedford, MA	45RM4; 5012; Burner upgrade lo NOx; 2 single burner boilers Installed 1994	B&W front fired		Steam Process Boiler
Pratt & Whitney Middletown, CT	45RM4; 45UV5; 25SU5 5012; Upgrade control; 8 burners Installed 1996	Boiler: 2-4 Burner Erie City; 1 2 Burner Keeler; Burner: Faber		Steam Process Boiler
Public Service of NH Portsmouth, NH	45RM1; 25SU3; 4170; Scanners for Coal and Oil; 3 boilers 6 burners each. Installed 1993	Foster Wheeler front fired	Coal & Oil	Steam Process Boiler
Sea Land Container Ships Long Beach, CA	Down-fired steam boilers; 20-50K steam p/hr. (typical); fuel is heavy oil/bunker C 45RM2-1000; 25SU3-5012		Heavy Oil	Steam Process Boiler
St. Laurent Paper Products West Point, VA	Process steam w/tube: gas/oil; opposed fired; pump 45RM-4/ 25SU3-2000; 6 burners Installed 1994-96		Natural gas and oil	Steam Process Boiler
Taunton Power & Light Cleary Station Unit #4, Taunton, MA	45UV5; 45RMI; 4170 controls; Front fired - oil; 6 burners Installed 1985	Riley	Oil	Steam Process Boiler
University of Chicago Chicago, IL 60637	Four high pressure boilers with retrofitted burners with Flame-Monitors and E300s	B&W - Todd AO Low NOx - 150000/HR	Gas and heavy oil	Steam Process Boiler
University of Delaware Newark, DE	6 water tube boilers 25-65K pph, 2 with 2 burners each; 25SU5-5011 w/45UV5-1000			Steam Process Boiler

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VA Fibre Corporation Riverville, VA	Process steam w/tube: gas/#6 oil; side by side, two levels; 45FS1-1000/25SU3-2000; 4 burners 2x2. Installed 1995		#6 Oil	Steam Process Boiler
Westvaco Corporation Covington, VA	Process steam w/tube, #2 oil/coal; tangentially fired w/fiber optics; 45RM4-1000/25SU3-2000; fireball scanners on each E&W side. Installed 1997		#2 Oil and Coal	Steam Process Boiler
Witco, OSI Specialties Sistersville, WV	Six 45FS1 scanners and 25SU3-2000 amplifiers retrofitted to 2 existing boilers in conjunction with a Bailey BMS. Both Bailey and Fireye systems programmed and started up by plant personnel			Steam Process Boiler
Alabama Power Plant Gaston, AL	(54)45RM4; Oil & coal / opposed; 800MW. Installed 1994	B&W	Oil and Coal	Utility Boiler
Big Rivers Power Cooperative Coleman Unit #2 Kentucky	32-45FS1 1000 scanners; 16-25SU5 5012 Amplifiers; Upgrading controls; 2 boilers/ 8 burners per boiler. Installed 1996	Riley 160meg x 2 coal fired burners	Coal	Utility Boiler
Cincinnati Gas & Electric Beckjord Station Ohio	(12)45FS1; coal/front Installed 1993	B&W	Coal	Utility Boiler
Commonwealth Electric Canal Station Sandwich, MA	45FSI; 25SU5; 1012; Upgrading scanners; 64 burners Installed 1995	B&W front fired cell burners	#6 Oil	Utility Boiler
Commonwealth Electric Kendall Station Cambridge, MA	45RM1; 4170 Amps; Upgrade; 6 burners. Installed 1985	B&W front fired w/oil	Oil	Utility Boiler
Connecticut Light & Power Middletown, CT	45UV5; 45FSI; 255U3; 2000; Upgrading controls, adding gas; 12 burners. Installed 1996	Riley front fired #800,000pph	Gas	Utility Boiler
Consolidated Addison East River Station East River, NY	45FS1/1000; 12 burners / opposed. Installed 1994	B&W		Utility Boiler
Consolidated Addison East River Station, 14th Street, East River, NY (Also 59th St., 74th St.) (59th St. uses Detector controls/amps)	45UV5/1000, 25SU5/4011; 2 one over 1 front fired (steam send-out boilers - 6 in service) Installed 1990	Burner: Peabody Engineering Corp; Boiler: Foster-Wheeler-Canade		Utility Boiler

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Eastern Utilities Somerset Station Unit #4 Somerset, MA	45RM1 extended; 5100 system; Coal fired extended scanners; 12 burners. Installed 1985	CE Tangential	Coal	Utility Boiler
Florida Power & Light Port Everglades Plant	(36) 45FS1; heavy oil/opposed Installed 1995	Foster Wheeler	Heavy Oil	Utility Boiler
Florida Power & Light Turkey Point Plant	(36) 45FS1; heavy oil / opposed Installed 1995	Foster Wheeler	#6 Oil	Utility Boiler
Florida Power Corp., Crystal River Plant	(54) 45FS1; coal/opposed Installed 1995	B&W	Coal	Utility Boiler
Holyoke Power & Light Holyoke, MA	45RM4; 45UV5; 25SU5 5012; Upgrade; 4 burners. Installed 1995	Riley Four burner front fired		Utility Boiler
Jacksonville Electric Jacksonville, FL	(80) 45FS1; oil & coal / opposed; units 1 & 2. Installed 1994	Foster Wheeler	Oil and Coal	Utility Boiler
Mississippi Power & Light Baxter Wilson Unit 2 Vicksburg, MS	45FS1/SU3-2000; Opposed fired, natural gas; 16 burners Installed 1994	BUW Utility boiler	Natural Gas	Utility Boiler
Mississippi Power Baxter Wilson Station	(144) 45FS1; gas & oil / opposed; units 1 & 2. Installed 1993	B&W	Gas/#2 Oil	Utility Boiler
Northeast Utilities Holyoke Power Co. Mt. Tom Station Holyoke, MA	45RM1; 5100 Logic System; Riley opposed fire; 16 burners Installed 1985	Riley Coal fired peabody ignitors; 147megawatt boiler		Utility Boiler
Orange & Rockland Unit #2 Bowline Station Tomkins Cove, NY	45FS1/25SU3/200; 32 burners, opposed firing; 16 each wall Installed 1994-1995	B&W	Coal and Gas	Utility Boiler
Potomac Electric Chalk Point Station	45FS1/C9507; coal & gas / opposed. Installed 1994	B&W	Coal and Gas	Utility Boiler
Potomac Electric Morgantown Station	C9507; coal & gas / opposed Installed 1994	B&W	Coal and Gas	Utility Boiler
PSE&G, Mercer Gen. Station Unit #2 Mercer, NJ	45RM2/1000, 25SU3/4170; Twin furnace; 12 front fired Installed 1994	Burner: Peabody Engi- neering Corp.; Boiler: Foster-Wheeler		Utility Boiler
PSI Energy New Albany Plant	45FS1; coal/front fired, units 1- 4. Installed 1993	Riley	Coal	Utility Boiler
Texas Utilities Dallas, TX	45FS1; gas / tangential Installed 1993	C-E	Gas	Utility Boiler
Texas Utilities Dallas, TX	45FS1/SU3-2000; tangentially fired gas; 8 burners. Installed 1980's	CE Utility boiler	Gas	Utility Boiler

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Wadham Energy Williams, CA	Tangentle/Center fired one; 8 burners (45UV5-1000); 25SU3-5011		Gas and Almond Hulls	Utility Boiler
Wisconsin Electric Valley Plant	34-45UV5; 34-45RM4; 68- 25SU3; 2000. Installed 1994	Riley #650,000 front fired 8 Burners per boiler (4 boilers); Adding new Lo Nox burners	Coal/Gas	Utility Boiler
Wisconsin Electric Valley Station	45RM4. Installed 1994	B&W	Coal/Gas	Utility Boiler
Allied Signal Hopewell, VA	45UV5-1000/25U5-5011; Installed 1997	Signal burner	Natural Gas	Incinerator. Fertilizer by- products
Allied Signal Hopewell, VA	45RM4-1000/25SU5-5011; Upgrades from 4011. Installed 1996	B&W Boiler, four burners side by side	Oil	
Arkansas Power Independence Station	45FS1; coal / tangential (DOI: 1993)	C-E	Coal	
Bethlehem Steel Corp. Sparrows Point Division Baltimore, MD	45UV5-1000/25SU3-2000. Installed 1997	Process steam-water tube blast furnace. Bethlehem Steel designed burner. #4 boiler-tangential/side by side w/natural gas added, 6 burners	Gas	
Chevron Chemical Baytown, TX	4163/5012/4170; 45UV5-1000 Installed 1970s	Several single burner & Multi burner steam pro- ducers. Cleaver Brooks; CE	Gas and Oil	
City of Glendale, CA Grayson Station Glendale, CA	45FS1 Installed 1993	AUS	Gas and Oil	
Corn Products Corp. Summit, IL	2 B&W 75,000#/HR high pres- sure water tube Firetube boilers with Flame Monitors, E300s, and E500s			
Corn Service Inc. Lowell, NC				
CSI Services York, PA				
Department of Energy Germantown, MD	E110	Main boiler plant		

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Duckworth & Associates Management Dearborn, MI	Updated 9 direct fired make-up-air heaters using infra-red detection. Considerable improvement from flame rod detectors.			
Fairfax County Schools Fairfax, Virginia	E100s, E110s, E300s, and in 19'98 E340s			
Industrial Engineering Co. Orlando, FL				
J.I. Case Research Ctr Burr Ridge, IL	2 Johnston gas-fired 500bhp with flame monitors, E300s, E340s. First 2 E340s installed in Chicago area; have been operating for approximately 4-5 years without a problem.			
JFK Airport PA, NY, NJ	E-110, E-300, E-340, and E-500 controls w/remote monitoring			
Johnson's Boiler & Control, Inc. Fresno, CA				
Joseph M. Day Company Saginaw, MI				
Kind & Knox Mfg Sioux City, IA	E110/ED513, E300, and E340 systems	2 Johnston 2000 hp		
LO Schuelke Company, Inc. San Carlos, CA				
Louisiana Pacific Corporation Samoa, CA	253U5; 45RM-4	Ahlstrom/Pyro processing burner; line kiln; non-condensable system		
Marriott Oak Brook Htl Oak Brook, IL	Flame Monitors, E300s, E500s upgraded from BC700s for better communication. Monitored from home using E720 software & PC Anywhere. I	2 Johnson gas fired 500BHP w/G&P burners		
McCain Engineering Co., Inc. Pelham, AL				
Medal-Air Liquid Newport, DE	E100, E300, E340, E500	1 CB300 hp boiler		
Memorial Hospital of Salem County Salem, NJ	2 boilers w/E110, E300, E3401 1 boiler w/E110, E500 comm. interface			
Montgomery County Schools Rockville, MD 20850	E100s, E110s, E300s E500s			

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Newmont Gold Company Carlin, NV	45RM4, 45UV5, 25SU5-5011	Roaster Gas Burners	Natural Gas	
Nutra-Flow Equipment Sioux City, IA	E340 System	Johnston Boiler		
Omaha Public School District Omaha, NB	Currently has 80-90+ flame monitors installed. Eventually will have all FSGs changed to flame monitors (100+)			
Pacific Combustion Engineering Portland, OR				
PECO Comstock Park, MI 49321				
Pottsville Hospital Pottsville, PA	E110/E300/E340/E500	Burnham Firetube Boilers (3) - Burnham - (2) 300hp, (1) 125hp		
RW Rice Company Sioux City, IA	Several E340 systems; orders all boilers/burners 100% Fireye products			
Saginaw State Univ. Saginaw, MI	2 Flame-Monitor Systems including E300, E340, and E500 components			
Shell Oil Company Distribution Terminal Summit, IL	6 units in 3 locations - Flame Monitors, E300s, and E500s tied back to central control room using E720 software		Gas and Oil	
St. Cabrini Nursing Home Dobbs Ferry, NH	E110, E340, 3 Birs on GP gas/oil		#6 Oil	
St. Vincent's Hospital Staten Island, NY	E110, E340, and E500 controls	3 high pressure Cleaver Brooks 30,000 PPH water tube boilers	Natural Gas and Oil	
Stoermer Equipment Company Milford, OH				
Technical Combustion, Inc. Littleton CO				
Titan Air Systems Osseo, WI	600+/year - M-II - direct fired and indirect fired			
Trigen of Oklahoma				
TVA, Cumberland Plant	(88) 45FS1: coal / opposed Installed1995	B&W	Coal	
US PCI Ogden, UT	45RM4-1000; 25SU5-5011	15 MM BTUH toxic waste incinerator		

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Weather-Rite Inc. Minneapolis, MN	800 to 900 M-11 Series FSG's per year			
Whirlpool Fort Smith, AR				
FMC Green River	4 (150,000 pd.hr)25SU3-5172 25SU5-5011 45UV5-1000 45FS1-1000	4 Dryers		