

**APPENDIX A
QUALIFIED PRODUCTS LIST**

(08/07/08)

(These are the standard products approved by the PSLUSD, however, the PSLUSD reserves the right to make additions, deletions or to specify specific product use in certain situations.)

AIR RELEASE VALVE (WATER) ONE-INCH (1")

(Pipe Size 6" thru 10")

Apco	65	ARI	S-050, S-040
G.A. Industries	912	Valmatic	25

AIR RELEASE VALVE (WATER) TWO-INCH (2")

(Pipe Size 12" and above)

Apco	200A	ARI	D-040
G.A. Industries	920	Valmatic	38

AIR RELEASE VALVE (WASTEWATER)

2" Regular Body

Apco	400-WA	ARI	D-020
G.A. Industries	929-F	Valmatic	48-BWA

2" Short Body

Apco	400S-WA	ARI	D-025
G.A. Industries	925-F	Valmatic	48S-BWA

BACKFLOW PREVENTERS (Reduced Pressure Assembly)

Ames	4000ss	2 1/2" - 10"		
Febco	825Y	3/4" - 2"	825YP	2 1/2" - 10"
Golden Eagle	919	3/4" - 2"		
Watts	909	3/4" - 10"	919	3/4"-2"
Wilkins	975XL	3/4" - 2"	375	2 1/2" - 10"

CORPORATIONS

Ford	F1101-4	(1")	FB1700	(2")
Mueller	H-15028	(1")	H-10046	(2")

CASING SPACERS - 12" Width min.

APS - Advance Products Systems	Cascade
PSI - Pipeline Seal and Insulator	

CORROSION BARRIER SYSTEM FOR MANHOLES

(Cast in solid liner)

G.U. Industries Inc

CORROSION BARRIER SYSTEM FOR LIFT STATIONS

(Cast in solid liner)

G.U. Industries Inc

COATING AND LINING (Manholes, lift stations & valve vaults)

Pro- Tec EW-1 Water Based Epoxy

CONTROL CABINET FASTENERS

2 ¾ inch stainless steel Tapcons

CURB STOP BOX/NIPPLE

Ford – PXLID

Mueller H – 10302/89980

Tyler – T6500 (Water Only)

DOUBLE CHECK ASSEMBLY

Ames	2000ss	2 ½" - 10"	Conbraco 40-100	2 ½" - 10"
Febco	805YP	2 ½" - 10"	Watts 709	2 ½" - 10"
Wilkins	350	2" – 10"		
	950 XL	¾" – 2"		

DOUBLE CHECK DETECTOR ASSEMBLY

Ames	3000ss	2 ½" - 10"	Conbraco 40-600	3" - 10"
Febco	806Y DCDA	3" - 10"	Watts 709 DCDA	3" - 10"
Wilkins	350DA	2 ½" – 12"		

DUCTILE IRON PIPE

(Water - Cement Lined) (Sewer - Epoxy Lined) (All gaskets shall be full faced 1/8 inch Toruseal)

American

Clow (McWane)

Griffin

Tyler (McWane)

Union Foundry (McWane)

U.S. Pipe

DUCTILE IRON FITTINGS

(Water - Cement Lined) (Sewer - Epoxy Lined) (All gaskets shall be full faced 1/8 inch Toruseal)

American

Clow (McWane)

Griffin

Sigma

Star

Tyler (McWane)

Union Foundry (McWane)

U.S. Pipe

ELECTRONIC MARKER BALLS WITH TIE DOWN STRAPS

3M - Water/Blue 1403 XR
3M - Wastewater/Green 1404 XR

EXTERNAL JOINT SEALING SYSTEMS

CanUSA Wrapid Seal Cretex Wrap

FIRE HYDRANTS (5 1/4" VALVE OPENING)

American Darling B-84-B AVK - Nostalgic 2780
Clow - Medallion Kennedy - Guardian K-81-D
Mueller - Super Centurion A-423

FIBER OPTICS

Pull Tape – Fibertek - WP 1250 Warning Tape – Thor Terra Tape
NEPTCO – WP 1250P

GRINDER STATIONS

Myers

HAND HOLE FRAME AND COVER

Sigma VB-761 U.S. Foundry - USF 7630

INTERCEPTORS - GREASE

Florida Septic Inc
750 PSL Grease 1050 PSL Grease 1250 PSL Grease

INTERCEPTORS – OIL/SAND

Florida Septic Inc
750 PSL Oil/Sand 1050 PSL Oil/Sand 1250 PSL Oil/Sand

INTERCEPTOR RING AND COVER

CertainTeed Pamrex 24” Ductile Iron Ring and Hinged Cover

KEY VALVE BRANCH

Ford UV43-42W (1" x 3/4")

LUBRICANT – ANTI-SEIZE

Oxlic Never Seize

MECHANICAL JOINT RESTRAINTS

American Fast Gasket

EBAA - Mega Lug

Ford - Uni-Flange

U.S. Field-Lock Gasket

Star – Stargrip Series 3000, 4000

Sigma – SLD Series (DIP), SLC Series (PVC), PVPF Series (PVC to Pressure Fittings), ZF Series (Zip Flange)

METER ANGLE VALVES

Ford - BA43-342W (1" x 3/4") BA43-444W (1") BFA43-777W (2")

Mueller - H-14258 (1" x 3/4") H-14258 (1") H-14286 (2")

METER BOXES CONCRETE & PLASTIC

CARSON Products/Poly Plastic

Plastic Box - Single 1419 Double 1220

Plastic Solid T-Cover Lid - Single 1419-4 Double 1220-4

BROOKS - Concrete

Concrete - Single 36H Double Dual-H

MANHOLE COVERS

CertainTeed Pamrex

Sigma – MH 2170 with O-Ring

U.S. Foundry - USF 170E with O-Ring

MANHOLE RAIN GUARD

Southwestern Packing & Seals – Rainstopper-2334S-3

LF Manufacturing – 2334LFN-SV1

Parson Environmental Products – PMI-235

PIPE RESTRAINTS

Sigma - PVP Series (PVC Bell & Spigot Joint)

Star – PVC Pipe Series 1000

EBAA – Series 1500 and 2800

PAINT (Rustoleum – 7400 System)

Fire Hydrants - Red – No. 964402 Re-Use/Irrigation - Purple – Pantone Purple C

Sewer - Green – No. 7435402 Water - Blue – No. 925402

PUMP STATION SAFETY GRATE

Hatch Safety Grate – U.S.F. Fabrication Inc.

PVC PIPE

CertainTeed	Diamond Plastic Corporation
Freedom Plastics, Inc. (WOPLAS)	J-M
National American	North American Pipe

PVC SEWER FITTINGS

CertainTeed (Head Manufacturing)	Harco
Multi Fittings	Plastic Trends

POLY PIGS

Pigs - Knapp Polly Pig Products	Pig Signal Device – Maloney Pipeline
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POLYETHYLENE TUBING PE 3408 ONE-INCH (1")

Driscoplex (Performance Pipe)	Endot (Yardley)
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POLYETHYLENE TUBING PE 3408 (2") (DIPS/CTS)

Driscoplex (Performance Pipe)	Endot (Yardley)
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POLYETHYLENE TUBING PE 3408 (3" and larger) (DIPS Only)

Driscoplex (Performance Pipe)	J-M Pipe
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SANITARY SEWER CLEANOUT BOX (Mini Manhole)

Sigma VB-2763 X	USF 7630
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SERVICE SADDLES (Stainless Steel Straps-Epoxy Coated)

Ford	JCM
Romac	Smith Blair (Rockwell)

SUBMERSIBLE PUMPS

Lift Stations – Flygt

TAPPING SLEEVES (Stainless Steel)

Cascade CST-ST	Ford – FAST
JCM #432	Power Seal #3490
Romac SST/SST-DB	Smith/Blair (Rockwell) #663

TAPPING SLEEVES (Ductile Iron)

American	#Series 2800	Clow (McWane)	F5205/F5207
M & H (McWane)	#1174/1274	Mueller	H-615
Tyler (McWane)	S-149	U.S. Pipe	T-9

LIFT STATION TELEMTRY/CONTROL PANELS

Antenna – Sinclair SRL-307 450 – 470 MHz
Tower – Rohn 25G Base, 25AG Top
Enclosure – Hoffman, Electromate
Surge Protection – Edco (analog) Polyphasor (radio), Square D (Electrical)
Corrosion Inhibitor – Eaton, Zerust, Hoffman
Radio – Modpac Plus RM-4800
PLC Controller – Modicon Micro 612-003
Heliac Coaxial Cable and Connectors – Andrews, LMR
Terminal Blocks – Entrelec, Square D, Panduit
Control/Timing Relays – Square D, AA Electric, Diversified, Syrelec
DC/DC Converter – Converter Concepts
Battery Charger – Xenotronics
Batteries – Werker, Polysonics, Uuasa (12V, 7.5 AH minimum)
Liquid Level Controllers – MultiTrode
Pressure Transducers – WIKA, Druck
Control Transformers – Square D
Motor Starters/VFD – Square D
Breakers – Square D QO
Fuses – Bussman, FuseLite
Phase Monitors/Alternators - Diversified

RECLAIMED WATER METER STATIONS

Instrumentation/Systems Integrator – Curry Controls Company
Flow Meters – Water Specialties ML04, with TR16 transmitter
Pressure Transmitters – Druck, ABB, Rosemount
Electric/Hydraulic Control Valve – Clay Val 131-22 / 621-22
Software – Proworx Nxt Online Offline Client
Enclosure – Hoffman, Electromate
Corrosion Inhibitor – Zerust, Hoffman, Eaton
Breakers – Square D
Pilot Lights, Selector Switches, Pushbuttons – Square D Type K
Terminal Blocks – Entrlec, Panduit, Square D
Surge Protection – Edco, Ditek, Square D
PLC – Modicon Quantum, Micro 612-000 with expansion rack
Control Relays – AA Electric, Square D, Diversified
DC/DC Converter – Xenotronics
Batteries – Power Sonics, Yuasa, Werker (12V, 7.5 AH)
Fiber Optic/Ethernet Swith – IFS Ethernav D7600-ss-x
Fiber Optic Patch Panel – Corning, Anixter
Fiber Optic/Modbus Converter – Lantronix XSDRSN-01 SPRESS-DR
Level Transmitter – HydroRanger 200, Echomax XPS-5 Transducer
Digital Panel Display – Red Lion, Precision Digital
Pipe, Fittings & Appurtenances Purple Paint:

Primer – TNEMEC – MODIFIED POLYAMIDOAMINE EPOXY # 135 3.0 to 5.0 mils DFT) aluminum color

Intermediate Coat - TNEMEC – MODIFIED POLYAMIDOAMINE EPOXY # 135 3.0 to 5.0 mils DFT) aluminum color

Finish Coat – Series 1074 Endura-Shield (2.0 to 3.0 mils DFT). The finish coat of paint shall be pantone purple in color.

GENERATORS FOR LIFT STATIONS

(See next two pages for generator specifications)

Magnum MMG25GHISS (25 KVA)

(With options shown below)

Magnum MMG55FH (45 KVA)

(With options shown below)

Magnum MMG75 (70 KVA)

(With options shown below)

Magnum MMG80SS (85 KVA)

(With options shown below)

Magnum MMG125 (125 KVA)

(With options shown below)

Magnum MMG155 (150 KVA)

(With options shown below)

	25 KVA	45 KVA	70 KVA
	MAGNUM MODEL # MMG25FHSS	MAGNUM MODEL # MMG55FH	MAGNUM MODEL # MMG76
Performance Data			
STANDBY OUTPUT	22KW (27KVA) (3PHASE)	50KW (62KVA) (3 PHASE)	63KW (79KVA)
PRIME OUTPUT	19KW (24KVA) (3 Phase)	42KW (53KVA) (3 PHASE)	58KW (72KVA)
GENERATOR RPM	1800	1800	1800
AMPS Single Phase 120V	72A PRIME	180A PRIME	240A PRIME
AMPS Single Phase 240V	79A PRIME	183A PRIME	217A PRIME
AMPS Three Phase 240V	58A PRIME	127A PRIME	173A PRIME
AMPS Three Phase 480V	29A PRIME	64A PRIME	87A PRIME
Frequency	60 Hz	60Hz	60Hz
Power Factor	0.8	0.8	0.8
Insulation	CLASS H	CLASS H	CLASS H
Sound Level dB(A) - Full Load @ 23 Feet	61dB(A)	65 dB(A)	63 dB(A)
240/120V output receptacles, 50 AMP	2	2	3
120V output receptacles, 20 amp	2	2	2
GFCI Circuit Breakers 240V @ 20 amps	2	2	2
Load Circuit Breakers 240V, 50 amps	2	3	3
Diesel Power Source			
Engine Make	ISUZU 4LE1-PV 05	JOHN DEERE PE5030TF270	JOHN DEERE PE4045HF285
Starting System	Electric	Electric	Electric
Design	Water Cooled Direct Injection Turbocharged	Water Cooled Direct Injection Turbocharged	Water Cooled Direct Injection Turbocharged
HP at Rated Speed	34.5HP	72 HP	91 HP
Fuel Tank Capacity Ga	69 GAL	78 GAL	100 GAL
Fuel Tank Features	DOUBLE WALL W/ LOW FUEL ALARM, LEAK DETECTOR & DIGITAL FUEL GAUGE	DOUBLE WALL W/ LOW FUEL ALARM, LEAK DETECTOR & DIGITAL FUEL GAUGE	DOUBLE WALL W/ LOW FUEL ALARM, LEAK DETECTOR & DIGITAL FUEL GAUGE
Trailer - Dual Axle			
Brakes	Single Axle HYDRAULIC	Dual Axle HYDRAULIC	Dual Axle HYDRAULIC
Parking Brakes	BREAKWAY LEVER	BREAKWAY LEVER	BREAKWAY LEVER
Full ICC Package	DOT Compliant	DOT Compliant	DOT Compliant
Safety Chains	YES	YES	YES
Combo Hitch, 2-5/16in. Ball Coupler	YES	YES	YES
Retractable Front Jack Stand	YES	YES	YES
Certificate of Origin	YES	YES	YES
Engine Electrical Accessories			
Battery Rack & Cable	YES	YES	YES
Starting Battery, Lead/Acid	YES	YES	YES
Battery Charger / Automatic Float	YES	YES	YES
Generator Accessories			
Unit Mounted Radiator	YES	YES	YES
Critical Silencer	LOW NOISE MUFFLER	LOW NOISE MUFFLER	LOW NOISE MUFFLER
Tailpipe and Rain Cap	RAIN CAP	RAIN CAP	RAIN CAP
Weather Housing	ALUMINUM	ALUMINUM	ALUMINUM
Block Heater, 120 Volt	YES	YES	YES
Circuit Breakers 3 Pole, Thermal/Mag. Trip	MAIN LINE BREAKER 90 AMP	MAIN LINE BREAKER 225 AMP	MAIN LINE BREAKER 300 AMP
Vibration Isolators	YES	YES	YES
Electronic Governor (Isochronous)	YES	YES	YES
Strip Heater	YES	YES	YES
Additional Required Options:			
60 feet of Carol Super VU-TRON 2/3 Type G-GC portable power cable (UL) 2,000V DRY90C Wet 75C Sun Resistant CSA (-40C) FT-5 P-7K-1230 49 MSHA	YES	YES	YES
Plug - JPD01110046-PR (Pyle-National) - (1) per generator	YES	YES	YES
Service Manual (not to be confused with maintenance manual)	YES	YES	YES
Written start-up report completed by manufacturer's representative, each unit	YES	YES	YES
A toggle switch so a key is not needed to start and stop th unit.	YES	YES	YES
A gang box on the trailer to house the cable and or tools.	YES	YES	YES
Pigtail to the battery charger for connection purposes.	YES	YES	YES
Dimensions of Generator			
Length	150"	150"	158"
Width	57"	57"	60"
Height	67"	71"	84"
Approximate Net Wgight Dry Lb.	2529 LBS	2570 Lbs.	3115 Lbs.
Trailer GVW	3070 LBS	4420 Lbs.	5840 Lbs
Fuel Consumption Data (GPH)			
Half Load	1.10	2.00	2.57
Full Load	1.80	3.98	4.75
Approximate Run Time (Hours)			
Half Load	62 Hrs.	39 Hrs.	38.9 Hrs.
Full Load	38 Hrs.	20 Hrs	21 Hrs.

	85KVA	125 KVA	150 KVA
	MAGNUM MODEL # MMG80SS	MAGNUM MODEL # MMG126	MAGNUM MODEL # MMG156
Performance Data			
STANDBY OUTPUT	74KW (93KVA)	108KW (93KVA)	135KW (93KVA)
PRIME OUTPUT	67KW (84KVA)	99KW (84KVA)	125KW (84KVA)
GENERATOR RPM	1800		1800
AMPS Single Phase 120V	240A PRIME	480A PRIME	480A PRIME
AMPS Single Phase 240V	258A PRIME	396A PRIME	396A PRIME
AMPS Three Phase 240V	202A PRIME	376A PRIME	376A PRIME
AMPS Three Phase 480V	101A PRIME	188A PRIME	188A PRIME
Frequency	60Hz	60Hz	60Hz
Power Factor	0.8	0.8	0.8
Insulation	CLASS H	CLASS H	CLASS H
Sound Level dB(A) - Full Load @ 23 Feet	63 dB(A)	65 dB(A)	65 dB(A)
240/120V output receptacles, 50 AMP	3	3	3
120V output receptacles, 20 amp	2	2	2
GFCI Circuit Breakers 240V @ 20 amps	2	2	2
Load Circuit Breakers 240V, 50 amps	3	3	3
Diesel Power Source			
Engine Make	JOHN DEERE PE4045HF275	JOHN DEERE PE6068TF275	JOHN DEERE PE6068TF275
Starting System	ELECTRIC	ELECTRIC	ELECTRIC
Design	Water Cooled Direct Injection Turbocharged	Water Cooled Direct Injection Turbocharged	Water Cooled Direct Injection Turbocharged
HP at Rated Speed	102 HP	150 HP	200 HP
Fuel Tank Capacity Ga	208 GAL	174 GAL	275 GAL
Fuel Tank Features	DOUBLE WALL W/ LOW FUEL ALARM, LEAK DETECTOR & DIGITAL FUEL GAUGE	DOUBLE WALL W/ LOW FUEL ALARM, LEAK DETECTOR & DIGITAL FUEL GAUGE	DOUBLE WALL W/ LOW FUEL ALARM, LEAK DETECTOR & DIGITAL FUEL GAUGE
Trailer - Dual Axle			
Brakes	Duel Axle HYDRAULIC	Duel Axle HYDRAULIC	Duel Axle HYDRAULIC
Parking Brakes	BREAKWAY LEVER	BREAKWAY LEVER	BREAKWAY LEVER
Full ICC Package	DOT Compliant	DOT Compliant	DOT Compliant
Safety Chains	YES	YES	YES
Combo Hitch, 2-5/16in. Ball Coupler	YES	YES	YES
Retractable Front Jack Stand	YES	YES	YES
Certificate of Origin	YES	YES	YES
Engine Electrical Accessories			
Battery Rack & Cable	YES	YES	YES
Starting Battery, Lead/Acid	YES	YES	YES
Battery Charger / Automatic Float	YES	YES	YES
Generator Accessories			
Unit Mounted Radiator	YES	YES	YES
Critical Silencer	LOW NOISE MUFFLER	LOW NOISE MUFFLER	LOW NOISE MUFFLER
Tailpipe and Rain Cap	RAIN CAP	RAIN CAP	RAIN CAP
Weather Housing	ALUMINUM	ALUMINUM	ALUMINUM
Block Heater, 120 Volt	YES	YES	YES
Circuit Breakers 3 Pole, Thermal/Mag. Trip	MAIN LINE BREAKER 300 AMP	MAIN LINE BREAKER 450 AMP	MAIN LINE BREAKER 600 AMP
Vibration Isolators	YES	YES	YES
Electronic Governor (Isochronous)	YES	YES	YES
Strip Heater	YES	YES	YES
Additional Required Options:			
60 feet of Carol Super VU-TRON 2/3 Type G-GC portable power cable (UL) 2,000V DRY90C Wet 75C Sun Resistant CSA (-40C) FT-5 P-7K-1230 49 MSHA	YES	YES	YES
Plug - JPD01110046-PR (Pyle-National) - (1) per generatc	YES	YES	YES
Service Manual (not to be confused with maintenance manual)	YES	YES	YES
Written start-up report completed by manufacturer's representative, each unit	YES	YES	YES
A toggle switch so a key is not needed to start and stop th unit.	YES	YES	YES
A gang box on the trailer to house the cable and or tool	YES	YES	YES
Pigtail to the battery charger for connection purpose:	YES	YES	YES
Dimensions of Generator			
Length	158"	210"	210"
Width	60"	60"	86"
Height	83.5"	90"	90"
Approximate Net Wgih t Dry Lb.	3240 Lbs.	5260 Lbs.	5260 Lbs.
Trailer GVW	5300 Lbs.	8960 Lbs.	10,603 Lbs
Fuel Consumption Data (GPH)			
Half Load	2.91	4.12	4.86
Full Load	5.63	7.69	9.8
Approximate Run Time (Hours)			
Half Load	71.4	42.2 Hrs.	56.6 Hrs.
Full Load	36.9	21.9 Hrs.	28 Hrs.