

2000 TON HSG. TYPE, M.D., HYD. PRESS
TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

C-4261-M2

07-31-91

TDH	&CHKOUT&	&REVNO&	&REVDATE&
# OF 59			

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		GENERAL ARRANGEMENT	4914WN	FILE #X-2559
		PIT PLAN	4910WN	FILE #10135
		MAIN CYLINDER ASSEMBLY	1491WN	
		KICKER CYLINDER ASSEMBLY	1492WN	
		GIB & LINER ASSEMBLY	1498WN	
		SLIDE LOCK ASSEMBLY	1688WN	
		CATWALK ASSEMBLY	4907WN	FILE #10131
		SAFETY GATE ASSEMBLY	2197WM	
		TEMPOSONIC ASSEMBLY	4902WN	
		HYDRAULIC NUT ASSEMBLY	B-700-24	
		LEVEL SWITCH ASSEMBLY	B-1006-1	
		HYDRAULIC NUT PIPING DIAGRAM	B-661-M	
		LUBRICATION DIAGRAM	4906WN	
		LEVEL SWITCH ASSEMBLY	B-1006-3	
		INSTRUCTION FOLDERS	3	
		INSTRUCTIONS	I-1185	
M1		NAME PLATE	A-6423-1	1 BRASS A-6423
M2		PRESS NAME PLATE	202NC-4	1 MS 202NC
M3		WARNING PLATE	A-3804-2	2 A-3804
M4		WARNING PLATE		A-6118

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M5	WARNING PLATE	A-3892-1	1	A-3892	

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HYDRAULIC DRAWINGS

FILTER & COOLING SCHEMATIC	4947WN-001A	FILE #10171
SYSTEM PIPING SCHEMATIC	4947WN-001B	FILE #10172
ASSIST PUMP SCHEMATIC #1	4947WN-001C	FILE #10173
ASSIST PUMP SCHEMATIC #2	4947WN-001D	FILE #10174
PRESS CONTROL SCHEMATIC	4947WN-001E	FILE #10175
PIPING LAYOUT	4964WN	FILE #10194

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ELECTRICAL DRAWING LIST

ELECTRICAL SCHEMATIC 1 OF 2	4947WN-002	FILE NO. 10176
ELECTRICAL SCHEMATIC 2 OF 2	4947WN-003	FILE NO. 10177
ANALOG I/O	4947WN-004	FILE NO. 10178
TTL I/O	4947WN-005	FILE NO. 10179
120 VAC INPUTS	4947WN-006	FILE NO. 10180
120 VAC OUTPUTS	4947WN-007	FILE NO. 10181
MISC. WIRING	4947WN-008	FILE NO. 10182
PANEL & DOOR LAYOUT	4947WN-009	FILE NO. 10183
LEGENDS & PLACARDS	4947WN-010	FILE NO. 10184

SCAVENGER PUMP WIRING	B-868
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SOFTWARE PLC-5/15 LOGIC (UPDOC)	D0158
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SOFTWARE OPERATOR INTERFACE	D0159
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PRESS MEMBERS

BASE

MODIFICATION 4937WN-1 1 WS 4937WN FILE #X-2580

BASE DETAILS 4937WN FILE #X-2580

BASE BOLSTER 4972WN-1 1 MS 4972WN FILE #10242

(MODIFY EXISTING BASE BOLSTER 1793WN-1)

4-SQ. HD. LEVELING SCREWS 2-12 THD. X 6" LG.

BASE 4938WN-1 1 WS 4938WN FILE #X-2567

(SEE BASE DWG. #1799WN FOR ALL OTHER DIM.)

TOP PLATEN 4943WN-1 1 WS 4943WN FILE #X-2569

(MODIFY)

HOUSING 1796WN-1 2 WS 1796WN FILE #X-1875

HOUSING DETAILS 1796WN-A

HOUSING LINER 1501WN-1 16 1501WN JALLOY

TIE ROD

(323" LG.) 56KH-31 4 FORG 56KH-A

LOCATING COLLAR A-2305-13 4 MS A-2305

LOCATING COLLAR A-6500-1 4 MS A-6500

UPPER TIE ROD

NUT (11-1/2") B-678-18 4 MS B-678

HOUSING COVER 1501WN-2 8 MS 1501WN

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SLIDE	1797WN-1	1	WS	1797WN-A	FILE #X-1876
SLIDE DETAILS				1797WN-B	
R.H. GIB	1499WN-2	2	MS	1499WN	
L.H. GIB	1499WN-1	2	MS	1499WN	
GIB LINER-INSIDE	1500WN-1	4		1500WN	C GRAPHITE
GIB LINER-EDGE	1500WN-2	4		1500WN	C GRAPHITE
GIB SHIM	1500WN-4	8	MS	1500WN	
GIB BACK UP	1500WN-3	4	MS	1500WN	
GIB LUB SCREW	A-2051-1	16	BRASS	A-2051	

8-SQ. HD. SET SCREW 1" N.C. X 6" LG.

GIB

8- SEMI-FIN. HEX JAM NUTS 1" N.C.

GIB

36-STUDS 1-3/4" N.C. X 10", 2-3/4" STUD THD.,
3" NUT THD.

GIB

36-PLAIN FLAT WASHERS FOR 1-3/4" STUDS

GIB

36-SECURITY LOCKNUTS #SH 539 1-3/4" N.C.

GIB

8-HEX HD. CAP SCREWS 1" N.C. X 6" LG.

GIB

8-PLAIN FLAT WASHERS FOR 1" SCREWS

GIB

8-HELICAL SPRING LOCKWASHERS FOR 1" SCREW

GIB

384-FLAT HEAD CAP SCREW 3/8" N.C. X 3/4" LG.

HSG. LINERS

104-BRASS FLAT HD. CAP SCREW 3/8" N.C. X 3/4" LG. GIB LINERS

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48-HEX HD. CAP SCREWS 3/8" N.C. X 3/4" LG.

HSG. COVER

SLIDE BOLSTER 4969WN-1 1 MS 4969WN

FILE #10230

(MODIFY EXISTING SLIDE BOLSTER 1793WN-1)

MAIN CYLINDER ASSEMBLY

MAIN CYL. 1494WN-1 2 WS 1494WN

MAIN CYL. HEAD 1494WN-2 2 MS 1494WN

TO MAKE MAIN CYL.

MAIN CYL. BARREL 1494WN-3 2 TUBE 1494WN

TO MAKE MAIN CYL.

MAIN CYL. FLANGE 1494WN-4 2 MS 1494WN

TO MAKE MAIN CYL.

MAIN CYL.

ADAPTOR 1490WN-1 2 MS 1490WN

MAIN CYL. BSHG. A-2905-1 2 SAE660 A-2905

MAIN CYL. GLAND A-2677-1 2 MS A-2677

MAIN CYL. GLAND

BUSHING A-2904-1 2 SAE660 A-2904

WIPER RETAINER A-2680-1 2 MS A-2680

MAIN PISTON 1489WN-1 2 WS 1489WN

M133

NEW MAIN PISTON

END 3735WN-2 2 MS 3735WN

M134

MAIN PISTON

CONNECTOR A-6470-1 2 MS A-6470

M9

BUTTWELD ANGLE

FLANGE A-4963-6 4 MS A-4963

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8-C.R. BRASS DOWEL PIN 1/2" DIA. X 1-1/4" LG. CYL. BUSHING

M10 2 SETS-GARLOCK CHEVRON PACKING #432-C CUT OPEN, W/FILLERS, 261
(CUT OPEN) R.H.T.&B. (18-1/2" I.D. X 20" O.D. X 2-13/16" HIGH)

M11 4-GARLOCK KLOZURES #64X4216 (18-1/2" X 20-1/2" X 7/8")

M12 8-DOUBLE SEAL PISTON RINGS, TYPE INSEAL 25" O.D. X 3/4" WIDE

M13 4-HYD. "O" RINGS #338-V709-90 (3-1/2" X 3-1/2" X 3/16")

M14 2-HYD. "O" RINGS #468-V709-90 (19-1/2" X 20" X 1/4")

M15 4-HYD. "O" RINGS HOT SPLICED #V709-90 (24-1/2" X 25" X 1/4")

52-SOC. HD. CAP SCREWS 2" N.C. X 16" LG. MAIN CYL.

TORQUE TO 1160 FT./LBS.

8-SOC. HD. CAP SCREWS 1" N.C. X 5" LG. ADAPTOR

32-GLAND STUDS 1-1/4" N.C. X 7" LG.

2" STUD THD. 2-1/4" NUT THD. GLAND

32- SEMI-FIN. HEX NUTS 1-1/4" N.C. GLAND

16-SOC. HD. CAP SCREWS 1-1/4" N.C. X 7" LG. ANGLE FLANGE

48-SOC. HD. CAP SCREWS 1-3/4" N.C. X 5-1/2" LG. PISTON CONN.

TORQUE TO 1099 FT./LBS.

32-SOC. HD. CAP SCREWS 1-1/4" N.C. X 6" LG. PREFILL VALVE

TORQUE TO 1140 FT./LBS.

4-SOC. HD. CAP SCREWS 1-1/2" N.C. X 6" LG. MAIN CYL.

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4- HI-COLLAR LOCKWASHERS FOR 1-1/2" S.H.C.S.

16- HI-COLLAR LOCKWASHERS FOR 1-1/4" S.H.C.S.

8- HI-COLLAR LOCKWASHERS FOR 1" S.H.C.S.

M135

48-SOC. HD. CAP SCREWS 1-3/4" N.C. X 8" LG.

PISTON CONN.

TORQUE TO 1099 FT./LBS.

KICKER CYLINDER ASSEMBLY

M47

KICKER CYL.

MODIFICATION 4953WN-1 1 WS 4953WN

MODIFY 1496WN-1

KICKER CYL. HEAD 1496WN-2 1 MS 1496WN

TO MAKE KICKER

KICKER CYL.

BARREL 1496WN-3 1 TUBE 1496WN

TO MAKE KICKER

KICKER CYL.

FLANGE 1496WN-4 1 MS 1496WN

TO MAKE KICKER

KICKER CYL. END 1496WN-5 1 MS 1496WN

TO MAKE KICKER

KICKER CYL.

BUSHING A-2909WN-1 1 SAE660 A-2909

KICKER CYL.

GLAND A-2908-1 1 MS A-2908

KICKER CYL.

GLAND BUSHING A-2907-1 1 SAE660 A-2907

WIPER RETAINER A-2910-1 1 MS A-2910

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M16	BUTTWELD FLANGE	A-5120-5	1	MS	A-5120
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TORQUE TO 470 FT./LBS.

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16-SOC. HD. CAP SCREW 1-1/2" N.C. X 5" LG.

PISTON CONN.

TORQUE TO 401 FT./LBS.

4-SOC. HD. CAP SCREW 1" N.C. X 4" LG.

WELD FLANGE

4- HI-COLLAR LOCKWASHERS FOR 1" S.H.C.S.

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OIL TANK ASSEMBLY

M23	OIL TANK	4898WN-1	1	WS	4898WN	FILE #X-2551
	OIL TANK DETAILS				4899WN	FILE #10129
M24	TANK COVERS	A-2945-1	6	MS	A-2945	
	PIPE SEAL					
	INSTALLATION				A-77	
M25	PIPE SEAL COLLAR	A-2069-1	6	MS	A-2069	
M26	PIPE SEAL COLLAR	A-1146-1	2	MS	A-1146	
M27	PREFILL PIPE					
	(10")	1578WN-1	2	WS	1578WN	
M28	OIL TANK BRACKET	4900WN-1	2	WS	4900WN	
M29	OIL TANK PAD	A-6416-1	6	MS	A-6416	50" LG. EACH
M30	MOTOR PAD	B-1119-30	14	CRS	B-1119	
M31	LIFTING EYE	A-3833-5	4	MS	A-3833	LOCATE @ ASSY.
M130	MOTOR PAD	B-1119-21	2	CRS	B-1119	
M32	2-AIRMAZE AIR FILTERS 3" NO. C-16227-GN					
M33	8-KEBBY XTRA STURDY SLIM LINE TANK TRAPPER #607 WITH 1-1/4"					
	PIPE PLUG & 7" ROD EXTENSION					
M34	4-LUBE DEVICES LIQUID LEVEL GAGE #620-16-A-1-.500					
M35	2-LADISH (OR EQUAL) 10" STD. WEIGHT SHORT RADIUS, 90 DEG. ELBO					
PART NO. 946						

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#	TDH	&CHKOUT&	&REVNO&	&REVDATE&
M36	6- 1/2" SQUARE FELT 17-1/8" LG.			COLLARS
M37	2- 1/2" SQUARE FELT 11-3/4" LG.			COLLARS
M38	28-HEX HD. CAP SCREW 3/4"-10 N.C. X 2-3/4" LG.			200 HP MOTOR
M39	192-HEX HD. CAP SCREW 3/8"-16 N.C. X 3/4" LG.			TANK COVERS
M40	36-HEX HD. CAP SCREW 1/2"-13 N.C. X 1-3/4" LG.			OIL TANK
M41	16-HEX HD. CAP SCREW 1"-8 N.C. X 2-1/2" LG.			BRACKET
M42	8-SOC. SET SCREW 3/8"-16 N.C. X 1/2" LG.			COLLAR
M127	4-HEX HD. CAP SCREWS 5/8"-11 N.C. X 2-1/4" LG.			60 HP MOTOR
M43	64-HEX HD. CAP SCREW 5/8"-11 N.C. X 1-3/4" LG.			MOTOR/ADAPTOR
M44	12-HEX HD. CAP SCREW 1"-8 N.C. X 2-1/2" LG.			PUMP/ADAPTOR
M45	4-HEX HD. CAP SCREW 3/4"-10 N.C. X 2" LG.			PUMP/ADAPTOR
M46	16-HELICAL SPRING LOCKWASHER FOR 1" SCREW			
M48	32-HELICAL SPRING LOCKWASHER FOR 3/4" SCREW			
M50	68-HELICAL SPRING LOCKWASHER FOR 5/8" SCREW			
M51	36-HELICAL SPRING LOCKWASHER FOR 1/2" SCREW			

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M53 1-BSF PUMP/MOTOR ADAPTOR OF STEEL, CONSTRUCTION FOR USE WITH
GENERAL ELECTRIC MOTOR, 60 H.P., 1800 R.P.M., SINGLE SHORT SHAFT, TEF
FRAME SIZE 364TSC, AND IMO DELAVAL CIG DOUBLE PUMP NO.
CIG-82200/82200-RIP AND FALK MOTOR COUPLING 1070T10 WITH HORIZONTAL
SPLIT COVER MODEL NO. 12-8802-346-X-8.5

M54 5-BSF PUMP/MOTOR ADAPTOR OF STEEL CONSTRUCTION FOR USE WITH
GENERAL ELECTRIC MOTOR, 200 H.P., 1800 R.P.M., SINGLE SHORT SHAFT, TEF
FRAME SIZE 445TSC AND IMO DELAVAL CIG DOUBLE PUMP NO. CIG-83250/83160-R
AND FALK MOTOR COUPLING 1070T10 WITH HORIZONTAL SPLIT COVER MODEL N
8802-356-X-9.5

M128 2-BSF PUMP/MOTOR ADAPTOR OF STEEL CONSTRUCTION FOR USE WITH
GENERAL ELECTRIC MOTOR 200 H.P., 1800 R.P.M., SINGLE SHORT SHAFT, TEF
FRAME SIZE 445TSC AND IMO DELAVAL CIG PUMP NO. CIG-64125-RIP, AND FA
MOTOR COUPLING 1070T10 WITH HORIZONTAL SPLIT COVER MODEL NO.
8602-356-X-8.5

M55 1-FALK TAPERED GRID STEEL COUPLING #1070T10 WITH CLEARANCE FIT
AND SET SCREW W/HORIZONTAL SPLIT COVER

BORE ONE HALF 1-7/8" WITH 1/2" X 1/4" KEYWAY

BORE ON HALF 65mm WITH 18mm DIN. KEYWAY

M56 5-FALK TAPERED GRID STEEL COUPLING #1070T10 WITH CLEARANCE FIT
& SET SCREW W/HORIZONTAL SPLIT COVER

BORE ONE HALF 2-3/8" WITH 5/8" X 5/16" KEYWAY

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BORE ONE HALF 65mm WITH 18mm DIN. KEYWAY

M131 2-FALK TAPERED GRID STEEL COUPLING #1070T10 WITH CLEARANCE FIT
& SET SCREW W/HORIZONTAL SPLIT COVER

BORE ONE HALF 2-3/8" WITH 5/8" X 5/16" KEYWAY

BORE ONE HALF 50mm WITH 14mm DIN. KEYWAY

DIFFERENTIAL PIPE PARTS

M57 4-MAIN MANUFACTURING 4 BOLT SQ. BUTTWELD STRAIGHT FLANGE
#BPSO-24-30L W/MTG. KIT MK1519

M58 4-MAIN MANUFACTURING 4 BOLT SQ. BUTTWELD ELBOW FLANGE
#BCLPO-24-30L

M59 4-TUBE TURN 90 DEG. ELBOW EXTRA STRONG, LONG RADIUS 3"
PART NO. 2

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SLIDE LOCK ASSEMBLY

SLIDE LOCK ASSY. 1688WN

SLIDE LOCK BAR 1502WN-3 2 MS 1502WN

SLIDE LOCK

BASE PLATE 1685WN-1 2 WS 1685WN

SLIDE LOCK

FACE PLATE 1685WN-2 2 MS 1685WN

SLIDE LOCK CAM

(LOWER) 864WN-2 2 MS 864WN

SLIDE LOCK CAM

(UPPER) 864WN-6 2 MS 864WN

SLIDE LOCK PIN 864WN-3 4 864WN

DRILL ROD

SLIDE LOCK

PIVOT PIN 864WN-1 4 CRS 864WN

SLIDE LOCK CYL. 867WN-2 2 PUR 1688WN

(MILWAUKEE CYLINDER CO. DWG. C-2816)

SLIDE LOCK

CONNECTING ROD 864WN-4 4 MS 864WN

SLIDE LOCK

STOP BLOCK 864WN-5 8 CRS 864WN

4-OILITE SLEEVE BEARING #AA-3005 (2-1/2" I.D. X 3" O.D. X 4")

4-MILWAUKEE ROD EYES PART NO. C-301

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12-SOC. HD. CAP SCREW 3/4" N.C. X 2-3/4" LG.	LOCK BAR
12- HI-COLLAR LOCKWASHERS FOR 3/4" S.H.C.S.	LOCK BAR
8-SOC. HD. CAP SCREW 1/2" N.C. X 1-1/4" LG.	STOP BLOCK
8-SOC. HD. CAP SCREW 3/8" N.C. X 1-1/4" LG.	CYL.
8-SOC. HD. CAP SCREW 3/4" N.C. X 3" LG.	BASE PLATE
12-SOC. HD. CAP SCREW 3/4" N.C. X 3" LG.	FACE PLATE
8-SOC. SET SCREW 3/8" N.C. X 1" LG.	PIVOT PIN
8-DOWEL PINS W/HEADS 1-1/4" DIA. X 3" LG.	BASE PLATE
8- HI-COLLAR LOCKWASHERS FOR 1/2" S.H.C.S.	
8- HI-COLLAR LOCKWASHERS FOR 3/8" S.H.C.S.	
20- HI-COLLAR LOCKWASHERS FOR 3/4" S.H.C.S.	
4-AEROQUIP HOSE ASSEMBLY #FA3477HHH0180	
4-MICROSWITCH LIMIT SWITCH #LSA3K-1A	

HYDRAULIC NUT ASSEMBLY

HYD. NUT ASSY.	B-700-24			
HYD. NUT	B-696-24	4	SAE1045	B-696
LOAD SHIM	B-698-29	4	MS	B-698-B .429 THICK
PISTON RING	B-697-24	4	MS	B-697
SET UP SHIM	B-699-4	8	MS	B-699

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8-HEX HD. CAP SCREW 1/2" N.C. X 1-1/2" LG. SET UP SHIM

4-HYD. "O" RING #456-V709-90 (13-1/2" X 14" X 1/4")

4-PARKER PARBAK BACK-UP RING #8-456-N300-9

4-HYD. "O" RING #468-V709-90 (19-1/2" X 20" X 1/4")

4-PARKER PARBAK BACK-UP RING #8-468-N-300-9

1-ENERPAC HYDRAULIC HAND PUMP #P-80 FOR 10,000 P.S.I.

1-ENERPAC SAFETY CHECK VALVE #V-17

2-ENERPAC GAGE ADAPTOR #GA-1

1-ENERPAC HEX NIPPLE 3/8" #FZ1617

1-ENERPAC REDUCER CONNECTOR #FZ-1055

1-MARSH 1/2" NEEDLE VALVE #N1574

1-MARSH HYDRAULIC 3-1/2" PRESSURE GAGE #H0290 0-10,000 GRAD.,

1/4" N.P.T. BOTTOM CONNECTION

1-ANCHOR HIGH PRESSURE SUPER SPIRAL WRAP HOSE ASSEMBLY

#456-4MS-36"

2-ENERPAC REDUCER BUSHING #FZ-1630 3/8" TO 1/4"

1-VOGT REDUCER BUSHING SERIES #2400-F8M 1/2" TO 1/4"

NOTE: ALL THE ABOVE ITEMS MUST BE GOOD FOR 10,000 P.S.I.
PRESSURE

TEMPOSONIC ASSEMBLY

TEMPOSONIC ASSY.

4902WN

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M60	SLIDE PULLING					
	ARM	A-5800-1	1	CRS	A-5800	
M61	SLIDE SPACER	A-6421-1	1	MS	A-6421	
M62	MOUNTING TUBE	4903WN-1	1	WS	4903WN	
M63	MOUNTING PLATE	A-4949-1	2	CRS	A-4949	WELD TO HSG. @ ASSY.
M64	MAGNET PULLING					
	ARM	3600WN-1	1	WS	3600WN	
M65	SPACER	A-5131-1	1	ALUM	A-5131	
M66	1-BOSTON GEAR #HM-6 ROD END BEARING (MALE)					
M67	1-BOSTON GEAR #HF-6 ROD END BEARING (FEMALE)					
M68	2-SIEWEK SOC. HD. SHOULDER SCREW #10482 X 1/2", 3/8" BODY DIA. X 1/2" LG. (5/16" N.C.)					
M69	2-SIEWEK SOC. HD. SHOULDER SCREW #10483 X 3/4", 1/2" BODY DIA. X 3/4" LG. (3/8" N.C.)					
	REF-TEMPOSONIC LINEAR DISPLACEMENT TRANSDUCER					
M70	4-ROUND HD. SLOTTED 18-8 STAINLESS STEEL					
	MACH. SCREW #6-32 X 5/8" LG.					MAGNET
M71	8-HEX HD. CAP SCREW 1/2" N.C. X 1-1/2" LG.					MTG. TUBE
M72	8-HELICAL SPRING LOCKWASHERS FOR 1/2" SCREW					
M73	2-HEX HD. CAP SCREW 3/8" N.C. X 1-1/4" LG.					SLIDE PULLING ARM

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C-4261-M2

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M74	2-HELICAL SPRING LOCKWASHERS FOR 3/8" SCREW
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M75	2-FLAT POINT SOC. SET SCREW
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1/4" N.C. X 3/4" LG.	MAGNET PULLING ARM
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CATWALK ASSEMBLY

	CATWALK ASSY.		4907WN	
M76	REAR CATWALK	4933WN-1	1 WS	4933WN
M77	CATWALK BRACKET	4934WN-1	2 WS	4934WN
M78	SUPPORT BEAM	4935WN-1	1 CHANNEL	4935WN
M79	OIL TANK LADDER	1138WN-25	1 WS	1138WN
M80	LADDER	1327WN-78	1 WS	1327WN
M81	SAFETY GATE	2197WM-1	1 WS	2197WM
M125	OIL TANK LADDER			
	PAD	4935WN-2	1 CRS	4935WN
M126	CATWALK LADDER			
	PAD	4935WN-3	1 CRS	4935WN
M82	9-WAGNER #100 ECONOMY TEE FOR 1-1/4" PIPE			
M83	6-WAGNER #105 ELBOW FOR 1-1/4" PIPE			
M84	9-WAGNER #110 CROSS FOR 1-1/4" PIPE			
M85	5-WAGNER #115 SIDE OUTLET TEE FOR 1-1/4" PIPE			
M86	5-WAGNER #115P SIDE OUTLET ELBOW FOR 1-1/4" PIPE			
M87	20-MECHANICAL STEEL TUBING 2" O.D. X 1.688 I.D. X 4-1/2" LG.			
M88	2-MECHANICAL STEEL TUBING 2" O.D. X 1.688 I.D. X 4" LG.			
M89	4- 1-1/4" STANDARD PIPE X 25-1/8" LG.			
M90	12- 1-1/4" STANDARD PIPE X 41-3/16" LG.			UPRIGHT

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M91	5- 1-1/4" STANDARD PIPE X 43-1/8" LG.		UPRIGHT
M92	2- 1-1/4" STANDARD PIPE X 52-1/8" LG.		
M93	2- 1-1/4" STANDARD PIPE X 56-3/8" LG.		
M94	2- 1-1/4" STANDARD PIPE X 89-13/16" LG.		UPRIGHT
M95	1- 1-1/4" STANDARD PIPE X 76-3/8" LG.		
M96	3- 1-1/4" STANDARD PIPE X 77-3/8" LG.		
M97	6- 1-1/4" STANDARD PIPE X 78-3/8" LG.		
M98	4- 1-1/4" STANDARD PIPE X 79-3/8" LG.		
M99	2- 1-1/4" STANDARD PIPE X 158-3/8" LG.		
M100	2- 1-1/4" STANDARD PIPE X 161-3/16" LG.		
M101	1- 1-1/4" STANDARD PIPE X 234-3/8" LG.		
M102	1- 1-1/4" STANDARD PIPE X 237-3/8" LG.		
M103	103 FT. OF 1/8" X 4" M.S. KICKPLATE		CUT TO SUIT
M104	2-WAGNER #100 ECONOMY TEE FOR 1-1/4" PIPE		SAFETY GATE
M105	4-WAGNER #105 ELBOW FOR 1-1/4" PIPE		SAFETY GATE
M106	3- 1-1/4" STANDARD PIPE X 20-1/8" LG.		SAFETY GATE
M107	2- 1-1/4" STANDARD PIPE X 39-1/8" LG.		SAFETY GATE
M108	8-HEX HD. CAP SCREWS 1-1/4"-7 N.C. X 3-1/4" LG.		BRACKET
M109	4-HEX HD. CAP SCREW 1/2"-13 N.C. X 2-1/4" LG.		CATWALK
M110	4- SEMI-FIN. HEX NUTS 1/2" N.C.		CATWALK
M11	4-BEVEL WASHERS FOR 1/2" SCREWS		CATWALK

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M112	4-HEX HD. CAP SCREWS 1/2"-13 N.C. X 1-3/4" LG.	SUPPORT BEAM
M113	6-HEX HD. CAP SCREW 1/2"-13 N.C. X 1-1/2" LG.	LADDERS
M114	8-HELICAL SPRING LOCKWASHERS FOR 1-1/4" SCREW	
M115	14-HELICAL SPRING LOCKWASHERS FOR 1/2" SCREW	

HOSE CARRIERS

HOSE CARRIER

SLIDE BRACKET	1507WN-2	2	WS	1507WN
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HOSE CARRIER

HSG. BRACKET	1507WN-1	2	WS	1507WN
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2-GORTITE MODEL #L275 GORTRAC CABLE AND HOSE CARRIER SYSTEM TO
BE 98" IN TOTAL LENGTH FOR MAX. TOTAL TRAVEL OF 76". SYSTEM FOR VERTIC
APPLICATION CARRIER WIDTH TO BE 20" FOR 2-1/4" O.D. HOSE W/PARALLEL BA
FOR SEPARATORS.

16-HEX HD. CAP SCREWS 3/8" N.C. X 1" LG.	CARRIER
16-HEX HD. CAP SCREWS 1/2" N.C. X 1-3/4" LG.	BRACKETS
16-HELICAL SPRING LOCKWASHERS FOR 3/8" SCREW	
16-HELICAL SPRING LOCKWASHERS FOR 1/2" SCREW	

LEVEL SWITCH ASSEMBLY

LEVEL SWITCH ASSY.

B-1006-1

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LEVEL SWITCH ASSY.

B-1006-3

M116	2-VOGT 2" HEX HD. PIPE PLUG SERIES #2580
M117	2-GEMS SINGLE STATION LEVEL SWITCH #26717, 115 VOLT, 60 HZ.
M118	1- 1/4" STANDARD PIPE 15-1/8" LG.
M119	2-VOGT 1/4" STEEL COUPLING SERIES NO. 2324
M120	2-VOGT 2" STEEL HALF COUPLING NO. 2090
M121	2- 1/2" MAL. IRON LB W/COVER AND GASKET
M122	2- 1/2" STEEL CLOSE NIPPLE
M123	2-BRAD HARRISON MINI-CHANGE MALE RECEPTACLE NO. 41103
M124	2-BRAD HARRISON FEMALE PORTABLE PLUG NO. 41107
M129	1- 1/4" STANDARD PIPE 13-1/8" LG.

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LUBRICATION COMPONENTS

1-TRABON MODU-FLO LUBE PACKAGE #MPP-T3-H2-L3-S1-P1-C00-W3

115 VOLT, 60 HZ.

1-TRABON MAIN FEEDER BLOCK M-4 (30S-30S-30S-30SA)

4-TRABON RESET INDICATOR #509-395-250

1-TRABON LIMIT SWITCH BRACKET ASSY. #510-250-000

4-TRABON SECONDARY FEEDER BLOCK M-3 (10S-10S-15T)

1-AEROQUIP HOSE ASSEMBLY #FA3433GGG1060

TO SUIT-STEEL TUBING 1/4" O.D.

TO SUIT-STEEL TUBING 3/8" O.D.

TO SUIT-TUBE FITTINGS AND TUBE CLAMPS

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ITEM NUMBERS REFER TO DWG. #4947WN-001A, FILE #10171

H1	A1	1-IMO DELAVAL CRESCENT INTERNAL GEAR PUMP #CIG-82200/82200-R-I-P
H2		1-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20 W/MTG. KIT #MK510 REF-W.W. & CO. 1-1/2" BUTTWELD FLANGE #B-1315-1
H3	A2	2-WORCESTER 2" MISER BALL VALVE #2D446TSEV2
H133		6-REXROTH BUTTWELD WELDBOSS #810-743
H4	A3	2-VICKERS MODULAR CONTROLS SHUTTLE VALVE #DSV1-8-B-6T
H5	A4	1-SUN LINE MOUNTED RELIEF VALVE #RPKC-LDV-LER
H6		2-MAIN SAE BUTTWELD FLANGE #BWSAEP-12-20L, W/MTG. KIT #MK1547
H7		1-MAIN SAE STRAIGHT THREADED FLANGE #TSAET-12-20, W/MTG. KIT #MK1547
H8	A5	4-ITT STANDARD PLATE SEAL HEAT EXCHANGER #BP320-60
H9		8-REXROTH BUTTWELD WELDBOSS #810-743
H10	A6	4-SCHROEDER IN-TANK FILTER #BFT-1BBS3-SS-Y2 (REPLACEMENT ELEMENTS #BBS3)
H11		4-REXROTH BUTTWELD WELD BOSS #810-743
H12	A7	4-SKINNER 2-WAY VALVE #703N15N1C
H13		4-CANFIELD 43650 DIN CONNECTOR #5107-11000, WITH 1/2" CONDUIT CONNECTION AND LIGHT FOR 120 VAC
H14	A8	2-STERLCO 2" STRAINER #20-Y
H15	A9	1-BARKSDALE PRESSURE SWITCH #E1H-H90-F2

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H16	A10	4-BARKSDALE PRESSURE SWITCH #E1H-H90
H17	A11	2-PARKER CHECK VALVE #C-3200-S-65
H134		2-REXROTH BUTTWELD WELDBOSS #810-743
H18	A12	3-PARKER DIAGNOSTIC NIPPLES, PD SERIES
H19	A13	1-PARKER CHECK VALVE #VC-L-20-F-05

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ITEM NUMBERS REFER TO DWG. #4947WN-001B, FILE #10172

H20	B1	1-IMO DELAVAL CRESCENT INTERNAL GEAR PUMP #CIG-83250/83160-R-I-P
H21		2-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L, W/MTG. KIT #MK582
H22		1-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20, W/MTG. KIT #MK510
H23		1-SCHEDULE 40 LONG RADIUS 4" 90 DEG. ELBOW
H24	B2	2-IMO DELAVAL CRESCENT INTERNAL GEAR PUMP #CIG-64125-R-I-P
H25		2-IMO DELAVAL SAE 1-1/2" SOC. WELD FLANGE ADAPTOR #Q64027X1
H26		2-MAIN SAE SOC. WELD FLANGE #WSAEP-20-20, W/MTG. KIT #MK507
H27	B3	1-REXROTH CARTRIDGE INSERT #LC50B05E6X
H28	B4	2-REXROTH CARTRIDGE INSERT #LC32B20D6X
H29	B5	1-REXROTH CARTRIDGE INSERT #LC32B05E6X
H30	B6	3-REXROTH CARTRIDGE INSERT #LC25B05E6X
H31	B7	1-REXROTH CARTRIDGE COVER #LFA50D6X/F/12
H32	B8	2-REXROTH CARTRIDGE COVER #LFA32H26X/FX08/12
H33	B9	1-REXROTH CARTRIDGE COVER #LFA32D6X/F/12
H34	B10	3-REXROTH CARTRIDGE COVER #LFA25D6X/F/12
H35	B11	1-REXROTH 2" BALL VALVE #CC2PU-A21-29SL
H36		2-MAIN SAE SPLIT FLANGE #MF-16-20 W/MTG. KIT #MK2737
H37		1-MAIN SAE COMPANION BUTTWELD FLANGE #BWCSAEP-16-20L
H38		1-MAIN SAE BLIND COMPANION FLANGE #WCSAEP-16-20S-00
H39	B12	1-REXROTH 2" BALL VALVE #DD2PU-A21-29SL

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#	RAL	DWN	&CHKOUT&	&REVNO&	&REVDATE&
H40			2-MAIN SAE SPLIT FLANGE #MK-16-60 W/MTG. KIT #MK2743		
H41			1-MAIN SAE COMPANION BUTTWELD FLANGE #BWCSAEP-16-60H		
H42			1-MAIN SAE BLIND COMPANION FLANGE #WCSAEP-16-60S-00		
H43	B13		1-VICKERS CARTRIDGE RELIEF INSERT #CVI-25-D10-2-H-10		
H44	B14		1-VICKERS CARTRIDGE RELIEF COVER #CVCS-25-C-S2-W-350-10		
H45	B15		1-VICKERS PROPORTIONAL THROTTLE VALVE #CVU-40-EFP1-B29-85-31		
H46	B16		2-VICKERS 4-WAY VALVE #DG5S-8-6A-T-M-U-B-20		
H47			12- 1/2"-13 NC X 6" LG. SOCKET HD. CAP SCREWS TORQUE TO 60 FT./LBS.		
H48			2-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT CONNECTION AND LIGHT FOR 120 VAC		
H49	B17		2-VICKERS 4-WAY VALVE #DG4V-3-2A-M-U-B-40		
H50			2-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT CONNECTION AND LIGHT FOR 120 VAC		
H51	B18		2-VICKERS MODULAR CONTROLS SHUTTLE VALVE #DSV1-16-B-12T		
H52	B19		2-OILGEAR D08 FLOW CONTROL MODULE #08-45-/P-05/T-00/M-AB-X-C		
	B20*		REF-OILGEAR 8" CENTER-FLO PREFILL VALVE #VSAPNN-S3N-64		
H53	B21		10-PARKER DIAGNOSTIC NIPPLES, PD SERIES		
	B22*		REF-PARKER CHECK VALVE #VC-L-8-P-05 (.040 ORIFICE)		
H54	B23		1-DAMAN D08 2-STATION BAR MAINOFLD #A-D08-P-02-7-S		
	B24*		REF-W.W. & CO. SLIDE LOCK ASSEMBLY		
	B25*		REF-W.W. & CO. KICKER CYLINDER ASSEMBLY		
	B26*		REF-W.W. & CO. MAIN CYLINDER ASSEMBLY		

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B27 REF-W.W. & CO. PRESS CONTROL MANIFOLD
B28 REF-W.W. & CO. DRIVE PUMP CONTROL MANIFOLD #4956WN
B29 REF-W.W. & CO. AUX. PUMP CONTROL MANIFOLD #4957WN
B30 REF-W.W. & CO. TANK LINE MANIFOLD #4955WN
B31* 1-W.W. & CO. SCAVENGER ASSEMBLY #B-877
B32* REF-W.W. & CO. HOSE ASSEMBLY
B33 REF-PRESSURE TRANSDUCER

***NOTE:** ITEMS WITH (*) ASTERICK ARE ORIGINAL COMPONENTS ON PRESS
AND ARE TO BE USED ON MODIFICATION #C-4261-M2

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ITEM NUMBERS REFER TO DWG. #4947WN-001C, FILE #10173

H55	C1	2-IMO DELAVAL CRESCENT INTERNAL GEAR PUMP #CIG-83250/83160-R-I-P
H56		4-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L W/MTG. KIT #MK582
H57		2-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20 W/MTG. KIT #MK510
H58		2-SCHEDULE 40 LONG RADIUS 4" 90 DEG. ELBOW
H59	C2	2-REXROTH CARTRIDGE INSERT #LC40B20D6X
H60	C3	4-REXROTH CARTRIDGE INSERT #LC40B05E6X
H61	C4	2-REXROTH CARTRIDGE INSERT #LC32B05E6X
H62	C5	2-REXROTH CARTRIDGE INSERT #LC25B05E6X
H63	C6	2-REXROTH CARTRIDGE COVER #LFA40H26X/FX10/12
H64	C7	2-REXROTH CARTRIDGE COVER #LFA40H26X/F/12
H65	C8	2-REXROTH CARTRIDGE COVER #LFA40D6X/F/12
H66	C9	2-REXROTH CARTRIDGE COVER #LFA32D6X/F/12
H67	C10	2-REXROTH CARTRIDGE COVER #LFA25D6X/F/12
H68	C11	2-VICKERS CARTRIDGE RELIEF INSERT #CVI-32-D10-2-H-10
H69	C12	2-VICKERS CARTRIDGE RELIEF COVER #CVCS-32-C-S2-W-245-10
H70	C13	2-VICKERS 4-WAY VALVE #DG4V-3-2A-M-U-B-40
H71		2-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT CONNECTION AND LIGHT FOR 120 VAC
H72	C14	6-PARKER DIAGNOSTIC NIPPLES, PD SERIES
	C15	REF-W.W. & CO. ASSIST PUMP GROUP #1 & #2 CONTROL MANIFOLD #4958WN

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ITEM NUMBERS REFER TO DWG. #4947WN-001D, FILE #10174

H73	D1	2-IMO DELAVAL CRESCENT INTERNAL GEAR PUMP #CIG-83250/83160-R-I-P
H74		4-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L W/MTG. KIT #MK582
H75		2-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20 W/MTG. KIT #MK510
H76		2-SCHEDULE 40 LONG RADIUS 4" 90 DEG. ELBOW
H77	D2	3-REXROTH CARTRIDGE INSERT #LC40B20D6X
H78	D3	2-REXROTH CARTRIDGE INSERT #LC40B05E6X
H79	D4	2-REXROTH CARTRIDGE INSERT #LC32B20D6X
H80	D5	2-REXROTH CARTRIDGE INSERT #LC32B05E6X
H81	D6	2-REXROTH CARTRIDGE INSERT #LC25B05E6X
H82	D7	1-REXROTH CARTRIDGE COVER #LFA40KWA6X/12
H83	D8	2-REXROTH CARTRIDGE COVER #LFA40H26X/FX10/12
H84	D9	2-REXROTH CARTRIDGE COVER #LFA40D6X/F/12
H85	D10	2-REXROTH CARTRIDGE COVER #LFA32KWB6X/12
H86	D11	2-REXROTH CARTRIDGE COVER #LFA32D6X/F/12
H87	D12	2-REXROTH CARTRIDGE COVER #LFA25D6X/F/12
H88	D13	1-VICKERS CARTRIDGE RELIEF INSERT #CVI-32-D10-2-H-10
H89	D14	2-VICKERS CARTRIDGE RELIEF INSERT #CVI-25-D10-2-H-10
H90	D15	1-VICKERS CARTRIDGE RELIEF COVER #CVCS-32-C1-S2-W-245-10
H91	D16	2-VICKERS CARTRIDGE RELIEF COVER #CVCS-25-C-S2-W-245-10
H92	D17	1-VICKERS CARTRIDGE RELIEF VALVE MODULE #CVGC-3-W-250-10

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H93 D18 5-VICKERS 4-WAY VALVE #DG4V-3-2A-M-U-B-40

H94 5-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT
CONNECTION AND LIGHT FOR 120 VAC

H95 D19 1-VICKERS 4-WAY VALVE #DG4V-3-2AL-M-U-B-40

H96 1-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT
CONNECTION AND LIGHT FOR 120 VAC

H97 D20 8-PARKER DIAGNOSTIC NIPPLES, PD SERIES

D21 REF-W.W. & CO. ASSIST PUMP GROUP #3 & #4 CONTROL MANIFOLD #4959WN

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ITEM NUMBERS REFER TO DWG. #4947WN-001E, FILE #10175

H98	E1	2-REXROTH CARTRIDGE INSERT #LC80A05E5X
H99	E2	2-REXROTH CARTRIDGE INSERT #LC40B20D6X
H100	E3	1-REXROTH CARTRIDGE INSERT #LC40B40E6X
H101	E4	4-REXROTH CARTRIDGE INSERT #LC40B20E6X
H102	E5	2-REXROTH CARTRIDGE INSERT #LC40B05E6X
H103	E6	1-REXROTH CARTRIDGE INSERT #LC16B05E6X
H104	E7	1-REXROTH CARTRIDGE INSERT #LC16A10D6X
H105	E8	2-REXROTH CARTRIDGE COVER #LFA80GWA5X/12
H106	E9	1-REXROTH CARTRIDGE COVER #LFA40KWB6X/12
H107	E10	1-REXROTH CARTRIDGE COVER #LFA40KWA6X/12
H108	E11	1-REXROTH CARTRIDGE COVER #LFA40WEB6X/B12/12
H109	E12	1-REXROTH CARTRIDGE COVER #LFA40WEA6X/A15P10/12
H110	E13	1-REXROTH CARTRIDGE COVER #LFA40WEA6X/A12/12
H111	E14	1-REXROTH CARTRIDGE COVER #LFA40H26X/FX10/12
H112	E15	3-REXROTH CARTRIDGE COVER #LFA40D6X/F/12
H113	E16	1-REXROTH CARTRIDGE COVER #LFA16D6X/F/12
H114	E17	1-REXROTH CARTRIDGE COVER #LFA16H26X/FX06/12
H115	E18	2-VICKERS CARTRIDGE RELIEF INSERT #CVI-40-D10-2-H-10
H116	E19	2-VICKERS CARTRIDGE RELIEF COVER #CVCS-40-C1-S2-W-245-10
H117	E20	1-VICKERS PROPORTIONAL RELIEF VALVE #EHST-3-FVF-11
H118	E21	1-VICKERS CARTRIDGE RELIEF MODULE #CVGC-3-W-250-10

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H119	E22	1-VICKERS D03 RELIEF MODULE #DGMC-3-PT-CW-40			
H120	E23	6-VICKERS 4-WAY VALVE #DG4V-3-2A-M-U-B-40			
H121		6-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT CONNECTION AND LIGHT FOR 120 VAC			
H122	E24	2-VICKERS 4-WAY VALVE #DG4S4-012A-U-B-50			
H123		2-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT CONNECTION AND LIGHT FOR 120 VAC			
H124	E25	1-VICKERS 4-WAY VALVE #DG4V-3-2A-MS-U-B-40			
H125		1-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT CONNECTION AND LIGHT FOR 120 VAC			
H126	E26	1-MARSH NEEDLE VALVE #N-1514			
H127	E27	1-ASHCROFT GAGE SAVER #1/2-1106-B			
H128	E28	1-ASHCROFT 6" 0-5000 PSI GAGE #60-1009-R-04L-0/5000, FLANGE MOUNTED, 1/2" BOTTOM CONNECTION			
H129		1-W.W. & CO. SPECIAL 6" GAGE FACE FOR 2000 TONS AT 2716 PSI, 2000 TONS AND 5000 PSI MAXIMUM GRADUATIONS			
H130	E29	1-ALMO D03 ACCESS PLATE #AMT-D03-ACP-S			
H131	E30	5-PARKER DIAGNOSTIC NIPPLES, PD SERIES			
H132	E31	2-FLUID CONTROLS CARTRIDGE CHECK VALVE #3C400-5SV			
	E32	REF-PRESSURE TRANSDUCER			
	E33	REF-W.W. & CO. ORIFICE SET SCREW			
	E34	REF-W.W. & CO. RELIEF VALVE ADAPTOR #B-1301-1			
	E35	REF-W.W. & CO. "P-A" RELIEF VALVE COVER #B-1291-1			

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C-4261-M2

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RAL	DWN	&CHKOUT&	&REVNO&	&REVDATE&
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E36 REF-W.W. & CO. PRESS CONTROL MANIFOLD #4963WN

E37 REF-W.W. & CO. SET-UP CLOSE MANIFOLD #4960WN

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#

H135 PRESS CONTROL

MANIFOLD 4963WN-1 1 MS 4963WN FILE #X-2574

H136 4-MAIN SQUARE BUTTWELD ELBOW FLANGE #BLPO-24-30L, W/MTG. KIT

#MK537

H137 1-MAIN SQUARE BUTTWELD ELBOW FLANGE #BLPO-20-30L, W/MTG. KIT

#MK536

H138 1-MAIN SAE BUTTWELD ELBOW FLANGE #BWLSAEP-20-60L, W/MTG. KIT

#MK555

H139 1-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20, W/MTG. KIT #MK510

H140 2-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L, W/MTG. KIT #MK582

H141 3-MAIN SQ. BLIND FLANGE #PSO-20-30S-00, W/MTG. KIT #MK531

H142 13-MAIN SAE BLIND FLANGE #WSAEP-16-20S-00, W/MTG. KIT #MK506

H143 8-#24 SAE ST. THD. PLUG

H144 1-#16 SAE ST. THD. PLUG

H145 3-#12 SAE ST. THD. PLUG

H146 1-#10 SAE ST. THD. PLUG

H147 9-#6 SAE ST. THD. PLUG

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RAL	DWN	&CHKOUT&	&REVNO&	&REVDATE&
#				
H148	16-	1"-8 NC X 4" LG. SOC. HD. CAP SCREWS		E8A & B
H149	32-	3/4"-10 NC X 2-3/4" LG. SOC. HD. CAP SCREWS		E9,E10,E11,E12, E13 & E15A,B,C
H150	8-	3/4"-10 NC X 2-1/4" LG. SOC. HD. CAP SCREWS		E19A & B
H151	4-	3/4"-10 NC X 3-1/2" LG. SOC. HD. CAP SCREWS		E14
H152	4-	5/16"-18 NC X 1-1/2" LG. SOC. HD. CAP SCREWS		E16
H153	8-	1/4"-20 NC X 1-1/2" LG. SOC. HD. CAP SCREWS		E24A & B
H154	4-#10-24	NC X 3-3/4" LG. SOC. HD. CAP SCREWS		E23C
H155	4-#10-24	NC X 3-5/8" LG. SOC. HD. CAP SCREWS		E23A
H156	16-#10-24	NC X 2" LG. SOC. HD. CAP SCREWS		E23B,D,E,F
H157	4-#10-24	NC X 1-5/8" LG. SOC. HD. CAP SCREWS		E20
H158	10-	1-1/2"-6 NC X 16" LG. SOC. HD. CAP SCREWS		MANIFOLD
H159	4-#10-24	NC X 4" LG. SOC. HD. CAP SCREWS		E35

NOTE: TORQUE BOLTS ON ITEMS E8A & B TO 665 FT./LBS.

TORQUE BOLTS ON ITEMS E9, E10, E11, E12, E13, E14, E15A, B
& C TO 385 FT./LBS.

TORQUE BOLTS ON ITEMS E19A & B TO 370 FT./LBS.

TORQUE BOLTS ON ITEM E16 TO 25 FT./LBS.

TORQUE BOLTS ON ITEM E20 TO 70-80 IN./LBS.

TORQUE BOLTS ON ITEMS E24A & B TO 112 IN./LBS.

TORQUE BOLTS ON ITEM E23A-F & E35 TO 40-53 IN./LBS.

TORQUE 1-1/2-6 NC BOLTS ON MANIFOLD TO 1100 FT./LBS.

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#	RAL	DWN	&CHKOUT&	&REVNO&	&REVDATE&
H160		BLIND FLANGE	A-5855-1 2 MS	A-5855	
H161		2-HYD. "O" RINGS #242-V709-90 (4" X 4-1/4" X 1/8")			
H162		16- 7/8"-9 NC X 4" LG. SOC. HD. CAP SCREWS			
H163		16- HI-COLLAR LOCKWASHERS FOR 7/8" SCREWS			
H164		BUTTWELD FLANGE	B-1315-1 2 MS	B-1315	
H165		2-HYD. "O" RING #228-V709-90 (2-1/4" ID X 2-1/2" OD X 1/8")			
H166		8- 1/2"-13 NC X 1-3/4" LG. SOC. HD. CAP SCREWS			
H167		8- HI-COLLAR LOCKWASHERS FOR 1/2" SCREWS			
H168		RELIEF VALVE			
		COVER	B-1291-1 1 CRS	B-1291	
H169		4-HYD. "O" RINGS #012-V709-90 (3/8" X 1/2" X 1/16")			
H170		2-#4 SAE ST. THREAD PLUG			
H171		RELIEF VALVE			
		ADAPTOR	B-1301-1 1 CRS	B-1301	
H172		4-HYD. "O" RINGS #012-V709-90 (3/8" X 1/2" X 1/16")			
H173		2-#4 SAE ST. THREAD PLUGS			

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RAL DWN &CHKOUT& &REVNO& &REVDATE&

#

H174 LOCATING COLLAR A-5834-1 1 MS A-5834

H175 2-HYD. "O" RING #443-V709-90 (7-1/2" X 8" X 1/4")

H176 2-PARKER PARBAK BACK-UP RING #8-443-N300-9

H177 PREFILL FLANGE 4962WN-1 2 MS 4962WN

H178 8- 3/4"-10 NC X 5-1/2" LG. SOC. HD. CAP SCREWS

H179 8- HI-COLLAR LOCKWASHERS FOR 3/4" SCREWS

H180 DRIVE PUMP CONTROL

MANIFOLD 4956WN-1 1 MS 4956WN FILE #10186

H181 1-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L W/MTG. KIT

#MK582

H182 2-MAIN SAE BUTTWELD ST. FLANGE #BWSAEP-20-60L W/MTG. KIT

#MK1575

H183 1-MAIN SAE SOC. WELD ST. FLANGE #WSAEP-24-20 W/MTG. KIT #MK508

H184 1-MAIN SAE BUTTWELD ELBOW FLANGE #BWLSEAEP-16-20L W/MTG. KIT

#MK546

07-31-91

RAL DWN &CHKOUT& &REVNO& &REVDATE&

#

H185 1-#24 SAE ST. THD. PLUG

H186 1-#16 SAE ST. THD. PLUG

H187 4-SOC. HD. CAP SCREWS 3/4"-10 NC X 2-3/4" LG. ITEM B15

H188 4-SOC. HD. CAP SCREWS 5/8"-11 NC X 2-1/4" LG. ITEM B9

H189 4-SOC. HD. CAP SCREWS 1/2"-13 NC X 2" LG. ITEM B10C

NOTE: TORQUE BOLTS ON ITEM B15 TO 370 FT./LBS.

TORQUE BOLTS ON ITEM B9 TO 200 FT./LBS.

TORQUE BOLTS ON ITEM B10C TO 80 FT. LBS.

H190 SET-UP CLOSE

MANIFOLD 4960WN-1 1 MS 4960WN FILE #10191

H191 4-SOC. HD. CAP SCREWS 5/16"-18 NC X 1-1/2" LG. ITEM E17

H192 4-SOC. HD. CAP SCREWS #10-24 NC X 2" LG. ITEM E25

NOTE: TORQUE BOLTS ON ITEM E17 TO 25 FT./LBS.

TORQUE BOLTS ON ITEM E25 TO 40-53 IN./LBS.

H193 1-#8 SAE ST. THD. PLUG

H194 1-#6 SAE ST. THD. PLUG

H195 2-#4 SAE ST. THD. PLUG

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RAL	DWN	&CHKOUT&	&REVNO&	&REVDATE&
#				

H196	1-SOC. SET SCREW 5/8"-18 NF X 3/4" LG.	ITEM E33
	(W.W. & CO. TO DRILL 5/16" ORIFICE IN SET SCREW)	

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RAL DWN &CHKOUT& &REVNO& &REVDATE&

#

H197 TANK LINE

MANIFOLD 4955WN-1 1 MS 4955WN

H198 1-MAIN SAE SOC. WELD FLANGE #WSAEP-28-20 W/MTG. KIT #MK509

H199 1-MAIN SAE BLIND FLANGE #WSAEP-28-20S-00 W/MTG. KIT #MK509

H200 4-SOC. HD. CAP SCREWS 7/8"-9 NC X 3-1/4" LG. ITEM B7

NOTE: TORQUE BOLTS ON ITEM B7 TO 385 FT./LBS.

H201 AUX. PUMP CONTROL

MANIFOLD 4957WN-1 1 MS 4957WN FILE #10187

H202 1-MAIN SAE SOC. WELD FLANGE #WSAEP-16-20 W/MTG. KIT #MK506

H203 2-MAIN SAE BUTTWELD ELBOW FLANGE #BWLSAEP-12-60H W/MTG. KIT
#MK553

H204 1-MAIN SQ. BUTTWELD FLANGE #BPSO-16-30H W/MTG. KIT #MK581

H205 1-#20 SAE ST. THD. PLUG

H206 3-#16 SAE ST. THD. PLUG

H207 4-#4 SAE ST. THD. PLUG

H208 8-SOC. HD. CAP SCREWS 5/8"-11 NC X 2-1/4" LG. ITEM B8A & B

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#	RAL	DWN	&CHKOUT&	&REVNO&	&REVDATE&
H209			8-SOC. HD. CAP SCREWS 1/2"-13 NC X 2" LG.		ITEM B10A & B
H210			4-SOC. HD. CAP SCREWS 1/2"-13 NC X 1-1/2" LG.		ITEM B14
H211			8-SOC. HD. CAP SCREWS #10-24 NC X 2" LG.		ITEM B17A & B

NOTE: TORQUE BOLTS ON ITEM B8A & B TO 200 FT./LBS.

TORQUE BOLTS ON ITEM B10A & B TO 80 FT./LBS.

TORQUE BOLTS ON ITEM B14 TO 81 FT./LBS.

TORQUE BOLTS ON ITEM B17A & B TO 40-53 IN./LBS.

H212 ASSIST PUMP GROUP

#1 & 2 CONTROL

MANIFOLD 4958WN-1 1 MS 4958WN FILE #X-2572

H213 4-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L W/MTG. KIT #MK582

H214 1-MAIN SQ. BUTTWELD FLANGE #BPSO-24-30L W/MTG. KIT #MK1519

H215 1-MAIN SAE BUTTWELD FLANGE #BWSAEP-20-60L W/MTG. KIT #MK1575

H216 1-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20 W/MTG. KIT #MK510

H217 1-MAIN SAE BUTTWELD ELBOW FLANGE #BWLSEAEP-16-20L W/MTG. KIT

#MK546

H218 16-SOC. HD. CAP SCREWS 3/4"-10 NC X 3-1/2" LG. ITEM C6A & B,
C7 A & B

H219 8-SOC. HD. CAP SCREWS 3/4"-10 NC X 2-3/4" LG. ITEM C8A & B

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#	RAL	DWN	&CHKOUT&	&REVNO&	&REVDATE&
H220			8-SOC. HD. CAP SCREWS 5/8"-11 NC X 2-1/4" LG.		ITEM C9A & B
H221			8-SOC. HD. CAP SCREWS 5/8"-11 NC X 2" LG.		ITEM C12A & B
H222			8-SOC. HD. CAP SCREWS 1/2"-13 NC X 2" LG.		ITEM C10A & B
H223			8-SOC. HD. CAP SCREWS #10-24 NC X 2" LG.		ITEM C13A & B

NOTE: TORQUE BOLTS ON ITEM C6A & B, C7A & B, C8A & B TO 385

FT./LBS.

TORQUE BOLTS ON ITEM C9A & B TO 200 FT./LBS.

TORQUE BOLTS ON ITEM C12A & B TO 210 FT./LBS.

TORQUE BOLTS ON ITEM C10A & B TO 80 FT./LBS.

TORQUE BOLTS ON ITEM C13A & B TO 40-53 IN./LBS.

H224	6-#24 SAE ST. THD. PLUG
H225	8-#20 SAE ST. THD. PLUG
H226	4-#16 SAE ST. THD. PLUG
H227	5-#4 SAE ST. THD. PLUG

H228 ASSIST PUMP GROUP

#3 & 4 CONTROL

MANIFOLD	4959WN-1	1	MS	4959WN	FILE #X-2573
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H229 5-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L W/MTG. KIT #MK582

H230 1-MAIN SQ. BUTTWELD FLANGE #BLPO-24-30L W/MTG. KIT #MK537

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RAL	DWN	&CHKOUT&	&REVNO&	&REVDATE&
#				
H231	1-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20 W/MTG. KIT #MK510			
H232	1-MAIN SAE BUTTWELD ELBOW FLANGE #BWLSAEP-16-20L W/MTG. KIT #MK546			
H233	8-SOC. HD. CAP SCREWS 3/4"-10 NC X 3-1/2" LG.		ITEM D8A & B	
H234	12-SOC. HD. CAP SCREWS 3/4"-10 NC X 2-3/4" LG.		ITEM D7, D9A, B	
H235	16-SOC. HD. CAP SCREWS 5/8"-11 NC X 2-1/4" LG.		ITEM D10A & B, D11A & B	
H236	4-SOC. HD. CAP SCREWS 5/8"-11 NC X 2" LG.		ITEM D15	
H237	8-SOC. HD. CAP SCREWS 1/2"-13 NC X 2" LG.		ITEM D12A & B	
H238	8-SOC. HD. CAP SCREWS 1/2"-13 NC X 1-1/2" LG.		ITEM D16A & B	
H239	4-SOC. HD. CAP SCREWS #10-24 NC X 3-5/8" LG.		ITEM D19	
H240	20-SOC. HD. CAP SCREWS #10-24NC X 2" LG.		ITEM D18A-E	

NOTE: TORQUE BOLTS ON ITEM D7, D8A & B, D9A & B TO 385 FT./LBS.
TORQUE BOLTS ON ITEM D10A & B, D11A & B TO 200 FT./LBS.
TORQUE BOLTS ON ITEM D15 TO 210 FT./LBS.
TORQUE BOLTS ON ITEM D12A & B TO 80 FT./LBS.
TORQUE BOLTS ON ITEM D16A & B TO 81 FT./LBS.
TORQUE BOLTS ON ITEM D18A-E, D19 TO 40-53 IN./LBS.

H241	6-#24 SAE ST. THD. PLUG
H242	7-#20 SAE ST. THD. PLUG

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RAL		DWN	&CHKOUT&	&REVNO&	&REVDATE&
#					
H243		8-#16	SAE ST. THD. PLUG		
H244		2-#8	SAE ST. THD. PLUG		
H245		2-#6	SAE ST. THD. PLUG		
H246		4-#4	SAE ST. THD. PLUG		

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#	RAL	DWN	&CHKOUT&	&REVNO&	&REVDATE&
H247		PREFILL SWITCH			
		ASSY.		4961WN	
H248		PORT 5 FLANGE	B-1317-1 2	MS B-1317	
H249		ADAPTOR FLANGE	A-6468-1 2	CRS A-6468	
H250		PROXIMITY			
		SWITCH BRACKET	A-6469-1 2	A-6469	(ANGLE IRON)
H251		2-PARKER TYPE "B" POLYPAK #12500250-250B			
H252		2-PARKER MOLYTHANE TYPE "D" WIPER #D-0250			
H253		2-OILITE SLEEVE BEARING #AAB-1519-1 (1/4" X 1/2" X 1/2")			
H254		2-ALLEN BRADLEY INDUCTIVE PROXIMITY SENSOR #871T-G2A12			
H255		2- 1/4" DIA. X 30" LG. COLD FINISHED ROUND			
H256		2-TYPE "A" PLAIN WASHER (.438 X 1.375 X .083)			
H257		2-HYD. "O" RING #334-V709-90 (2-5/8" X 3" X 3/16")			
H258		2-SOC. HD. CAP SCREWS #10-24 NC X 3/4" LG.			
H259		4-SOC. HD. CAP SCREWS #10-24 NC X 1/2" LG.			
H260		4-SOC. HD. CAP SCREWS 5/8"-11 NC X 4-3/4" LG.			
H261		6- HI-COLLAR LOCKWASHERS FOR #10 SCREWS			
H262		4- HI-COLLAR LOCKWASHERS FOR 5/8" SCREWS			

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RAL DWN &CHKOUT& &REVNO& &REVDATE&

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H263 PREFILL PIPE

FLANGE B-1341-1 2 MS B-1341

H264 24-SOC. HD. CAP SCREWS 3/4"-10 N.C. X 2-3/4" LG.

H265 24- HI-COLLAR LOCKWASHERS FOR 3/4" SCREWS

H266 2-HYD. "O" RING #450-V709-90 (10-1/2" X 11" X 1/4")

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BWN

JO

&CHKOUT&

&REVNO&

&REVDATE&

#

E1 1* 1-ALLEN BRADLEY 2100 CENTERLINE MOTOR CONTROL CENTER AS PER
ALLEN BRADLEY PROPOSAL #208514/01

THE MCC WILL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING
COMPONENTS:

9-ALLEN BRADLEY 20 INCH DEEP SECTIONS WITH BOTTOM PLATE AND
2000 AMP MAIN COPPER TIN BUS AND A 1" GROUND BUS TOP AND BOTTO
42 KA BUS BRACING

1-ALLEN BRADLEY 2193M-JJC-60WT-83F500 2000 AMP MAIN DISCONNECT
CIRCUIT BREAKER WITH CRIMP LUGS, 35K INTERRUPTING CAPACITY

7-ALLEN BRADLEY 2112B-FDBD-28R-9088 SIZE 5 FULL VOLTAGE NON-
REVERSING MOTOR STARTER WITH 120 VOLT CONTROL AND A 400 AMP FUSIB
DISCONNECT WITH 2 AUXILIARY CONTACTS

21-ALLEN BRADLEY W-42 HEATER ELEMENTS

1-ALLEN BRADLEY 2112B-EDBD-27R-90088 SIZE 4 FULL VOLTAGE NON-
REVERSING MOTOR STARTER WITH 120 VOLT CONTROL AND A 400 AMP FUSIB
DISCONNECT WITH 2 AUXILIARY CONTACTS

3-ALLEN BRADLEY W-73 HEATER ELEMENTS

1-ALLEN BRADLEY 2100-NJ15 EMPTY UNIT INSERT

1-ALLEN BRADLEY 2192F-BJC-24R 30 AMP FUSIBLE FEEDER DISCONNECT

E2 2 9-ALLEN BRADLEY 800T-B6A RED, EXTENDED MOMENTARY CONTACT
PUSHBUTTON

E3 3 2-ALLEN BRADLEY 800T-A2A BLACK, FLUSH MOMENTARY CONTACT

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#

PUSHBUTTON

E4 4 3-ALLEN BRADLEY 800T-N13 EXTRA-LONG PUSHBUTTON GUARD

E5 5 1-ALLEN BRADLEY 800T-PT16W WHITE, 120 VAC, 60 HZ., TRANSFORMER
TYPE PILOT LIGHT, PUSH-TO-TEST

E6 6 3-ALLEN BRADLEY 800T-PA16R RED, 120 VAC, 60 HZ., TRANSFORMER
TYPE GUARDED ILLUMINATED PUSHBUTTON

E7 7 10-ALLEN BRADLEY 800T-PA16A AMBER, 120 VAC, 60 HZ., TRANSFORMER
TYPE GUARDED ILLUMINATED PUSHBUTTON

E8 8 1-ALLEN BRADLEY 800T-PA16B BLUE, 120 VAC, 60 HZ., TRANSFORMER
TYPE GUARDED ILLUMINATED PUSHBUTTON

E9 9 2-ALLEN BRADLEY 800T-P16A AMBER, 120 VAC, 60 HZ. TRANSFORMER
PILOT LIGHT

E10 10 1-ALLEN BRADLEY 800T-D2A BLACK MUSHROOM HEAD PUSHBUTTON

E11 11 1-ALLEN BRADLEY 800T-N129 MUSHROOM HEAD PUSHBUTTON GUARD

E12 12 1-ALLEN BRADLEY 800T-J44KC1B 3-POSITION KEYLOCK SELECTOR SWITCH

E13 13 1-ALLEN BRADLEY 800T-E11A KEYLOCK PUSHBUTTON

E14 14 1-ALLEN BRADLEY 800T-H33A KEYLOCK OPERATOR 2-POSITION SELECTOR
SWITCH, MAINTAINED POSITION

E15 15 2-ALLEN BRADLEY 800P-1F1NBS BLACK PALM OPERATED PUSHBUTTON

E16 16 1-ALLEN BRADLEY 800T-D9JA YELLOW JUMBO HEAD PUSHBUTTON

E17 17 3-ALLEN BRADLEY 800T-D6JA JUMBO RED MUSHROOM HEAD PUSHBUTTON

E18 18 1-ALLEN BRADLEY 800T-N151 JUMBO MUSHROOM GUARD

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#	BWN	JO	&CHKOUT&	&REVNO&	&REVDATE&
E19	19	1-ALLEN BRADLEY	700-P1200-A1	12-POLE RELAY, 120 VAC, 60 HZ.	
		COIL			
E20	20	1-ALLEN BRADLEY	700-P400-A1	4-POLE RELAY, 120 VAC, 60 HZ. COIL	
E21	21*	1-ALLEN BRADLEY	1771-A4B	16-SLOT I/O CHASSIS	
E22	22*	1-ALLEN BRADLEY	1785-LT4	PLC-5/15 PROCESSOR	
E23	23*	4-ALLEN BRADLEY	1771-IAD	120 VAC INPUT MODULE, 16 PT.	
E24	24*	4-ALLEN BRADLEY	1771-OAD	120 VAC OUTPUT MODULE, 16 PT.	
E25	25*	1-ALLEN BRADLEY	1771-OFE1	ANALOG OUTPUT MODULE	
E26	26*	1-ALLEN BRADLEY	1771-IFE	ANALOG INPUT MODULE	
E27	27*	1-ALLEN BRADLEY	1771-IGD	TTL INPUT MODULE, 16 PT.	
E28	28*	1-ALLEN BRADLEY	1771-OG	TTL OUTPUT MODULE, 8 PT.	
E29	29*	1-ALLEN BRADLEY	1785-KE	RS-232 COMMUNICATION MODULE	
E30	30*	1-ALLEN BRADLEY	1771-P7	16 A. BACKPLANE POWER SUPPLY	
E31	31	1-ALLEN BRADLEY	1771-CP1	POWER SUPPLY CABLE	
E32	32	1-ALLEN BRADLEY	1494V-DS30	30 A. DISCONNECT SWITCH	
E33		1-ALLEN BRADLEY	1494V-H1	HANDLE MECHANISM	
E34		1-ALLEN BRADLEY	1494V-RA2	LONG CONNECTING ROD	
E35	33*	1-ACTION INSTRUMENTS	AP4350-A001	ISOLATED THERMOCOUPLE	
		TRANSMITTER FOR TYPE J T/C, -150 TO 1380 DEG. FAHRENHEIT			INPUT RANG
E36	34	1-BARBER COLEMAN	P011-31424-000-2-00	RIGID TUBE TYPE "J" T/C,	
		24" LONG WITH MATING JACK AND COMPRESSION FITTING			
E37	35	2-BRAD HARRISON	22803	SHORTING PLUG W/CHAIN	
E38		2-BRAD HARRISON	22801	RUBBER ANGLE RECEPTACLE	

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#	BWN	JO	&CHKOUT&	&REVNO&	&REVDATE&
E39	36	1-HOFFMAN F-44T36HC WIRING TROUGH			
E40	37	21-BUSS FRS-R300 DUAL ELEMENT FUSE, 300A/600V			
E41	38	3-BUSS FRS-R100 DUAL ELEMENT FUSE, 100A/600V			
E42	39	3-BUSS FRS-R30 DUAL ELEMENT FUSE, 30A/600V			
E43	40	2-BUSS FRS-R10 DUAL ELEMENT FUSE, 10A/600V			
E44	41	2-BUSS FRS-R6-1/4 DUAL ELEMENT FUSE, 6-1/4, 600V			
E45	42	1-BUSS FRN-R30 DUAL ELEMENT FUSE, 30A/250V			
E46	43	1-BUSS FRN-R20 DUAL ELEMENT FUSE, 20A/250V			
E47	44	1-BUSS FRN-R15 DUAL ELEMENT FUSE, 15A/250V			
E48	45	4-BUSS FRN-R10 DUAL ELEMENT FUSE, 10A/250V			
E49	46	1-BUSS FRN-R5 DUAL ELEMENT FUSE, 5A/250V			
E50	47	1-BUSS FNA-2 DUAL ELEMENT INDICATING TYPE FUSE, 2A/125V			
E51	48	2-BUSS FNA-1/2 DUAL ELEMENT INDICATING TYPE FUSE, 1/2A/250V			
	49				
E52	50	4- FUSE BLOCK, 30A/600V, REJECTION TYPE, 1-POLE			
E53	51	8- FUSE BLOCK, 30A/250V, REJECTION TYPE, 1-POLE			
E54	52	3- FUSE BLOCK, 10A/125V, 1-POLE FOR 1-1/2" X 13/32" FUSE			
E55	53*	1-CONTROL CONCEPTS IC+115 ISLATROL , ACTIVE TRACKING FILTER 15 AMP, 120 VAC			
E56	54	1-GENERAL ELECTRIC 9T58B55 3.0 KVA CONTROL TRANSFORMER, 480/240 VAC PRIMARY, 120 VAC SECONDARY, 60 HZ.			
E57	55	1-GENERAL ELECTRIC 9T58B54 2.0 KVA CONTROL TRANSFORMER, 480/240 VAC PRIMARY, 120 VAC SECONDARY, 60 HZ.			

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E58 56* 3-GENERAL ELECTRIC 200 H.P. HORIZONTAL INDUCTION MOTOR, 1800
RPM, 460V, 3 PHASE, 60 HZ., 1.0 SF, 300% BREAKDOWN TORQUE, CLASS B
INSULATION, NEMA DESIGN B, TEFC ENCLOSURE, F1 FOOT MOUNT, SINGLE SHO
SHAFT, C FACE, 445TSC FRAME

E59 57* 4-GENERAL ELECTRIC 200 H.P. HORIZONTAL INDUCTION MOTOR, 1800
RPM, 460V, 3 PHASE, 60 HZ., 1.0 SF, 300% BREAKDOWN TORQUE, CLASS B
INSULATION, NEMA DESIGN B, TEFC ENCLOSURE, F2 FOOT MOUNT, SINGLE SHO
SHAFT, C FACE, 445TSC FRAME

E60 58* 1-GENERAL ELECTRIC 60 H.P. HORIZONTAL INDUCTION MOTOR, 1800
RPM, 460V, 3 PHASE, 60 HZ., 1.15 SF, 200% BREAKDOWN TORQUE, CLASS B
INSULATION, NEMA DESIGN B, TEFC ENCLOSURE, F1 FOOT MOUNT, SINGLE SHO
SHAFT, SINGLE C-FACE, 364TSC FRAME

E61 59 1-HOFFMAN A-84XM7818 2-DOOR TWO DOOR ENCLOSURE WITH PANEL,
MODIFIED TO BE NEMA 13, ENCLOSURE DOORS SHALL BE SUPPLIED WITH KEYLOCKI
HANDLES IN PLACE OF STANDARD HANDLES, AS PER HOFFMAN QUOTE #325083

E62 1-HOFFMAN A-21ABVA OPERATOR ADAPTOR FOR A.B. 1494V OPERATOR

E63 60 1-HOFFMAN C-12C12 CONSOLE

E64 1-HOFFMAN A-44CCOL PEDESTAL COLUMN

E65 1-HOFFMAN A-18SBASE 18" PEDESTAL BASE

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E66 61* 1-HOFFMAN D-ACBE041 SERIES B SIDE MOUNT 4000 BTU AIR
CONDITIONER 120 VOLT, 1 PHASE

E67 62 1-HUBBELL 5252 DUPLEX RECEPTACLE, NEMA REF. 5-15R

E68 1-APPLETON 4SSL-1/2 HANDY BOX

E69 1-APPLETON 2510 DUPLEX RECEPTACLE COVER

E70 63* 1-HYCON HDA3172-8-315-000-US, PRESSURE TRANSDUCER, STAINLESS
STEEL HOUSING, 9/16"-18 STRAIGHT THREAD PRESSURE CONNECTION, PLUG
W/MATCHING STRAIGHT CONNECTOR, 0 TO 10VDC OUTPUT, 0 TO 4567 PSI

E71 64* 1-HYCON HDA3172-8-100-000-US PRESSURE TRANSDUCER, STAINLESS
STEEL HOUSING, 9/16"-18 STRAIGHT THREAD PRESSURE CONNECTION, PLUG
W/MATCHING STRAIGHT CONNECTOR, 0 TO 10VDC OUTPUT, 0 TO 1450 PSI

E72 65 2-MICRO SWITCH LSA1A PLUG-IN LIMIT SWITCH

E73 2-MICRO SWITCH LSZ51L BALL BEARING ROLLER ARM

E74 66* 1-MTS TTS-RCU-0780 TEMPOSONICS II TRANSDUCER, RIGID 0.375" ROD
WITH INTEGRATED CONNECTOR, NEMA 6 HEAD ENCLOSURE, 78" STROKE, 2" NUL
2.5" DEAD ZONE

E75 67* 1-MTS TEMPOSONICS TSC-86F04-RCU0780 TEMPOSONICS II DIGITAL
COUNTER CARD, UP TO 18 BITS NATURAL BINARY OUTPUT, FORWARD COUNT, 1
MICROSECOND LATCH PULSE AND LATCH OUTPUT INHIBIT, 0.001" RESOLUTION F
78.0" TRANSDUCER

E76 68* 1-MTS TEMPOSONICS 01107805414020 DIGITAL INTERFACE BOX FOR 78"
TRANSDUCER, +/- 15VDC, -40 TO +180 DEGREE F, UPDATE 5.0 MSEC, INTERN
INTERROGATION, 4 RECIRCULATIONS, STANDARD ENCLOSURE 370013 CONNECTO

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FOR J1 CONNECTION ON DIB, 10 PIN FEMALE

E77 69 1-MTS TEMPOSONICS M005C1 TEMPOSONICS II TRANSDUCER EXTENSION

CABLE, 5' LENGTH WITH MOLDED PLUG AND 6 PIN PLUG FOR DIB CONNECTION WI

STROKE OVER 12"

E78 70 1-MTS TEMPOSONICS 201542 TEMPOSONICS II MAGNET, 1.29" O.D.

E79 71* 1-OEM CONTROLS MS4M4505 SINGLE AXIS CONTROL WITH 10K OHM CENTER

TAPPED 2 WATT POTENTIOMETER, 2-SPDT LIMIT SWITCHES WITH ONE SWITCH

TRIPPING EITHER SIDE OF CENTER, SPRING RETURN TO CENTER POSITION

E80 1-W.W.&CO. B-1170-1 HAND LEVER GUARD

E81 1-W.W.&CO. B-1170-2 GASKET

E82 72* 1-POWER ONE HB5-3/OVP-A +5 VDC @ 3 A. POWER SUPPLY

E83 73* 1-POWER ONE HAA15-0.8-A +/- 15 VDC @ 0.8 A. POWER SUPPLY

E84 74* 1-POWER ONE HD24-4.8-A +24 VDC @ 4.8 A. POWER SUPPLY

E85 75* 1-SPECTER 3200A-1 REGISTER TRANSLATOR

E86 1-SPECTER ABS3-3200A CONFIGURATION FIRMWARE FOR A.B. PLC-5

E87 76 3-THOMAS & BETTS MS216 16 POSITION MALE INSERT

E88 3-THOMAS & BETTS SH616-L 16 POSITION HOOD, 3/4" NPT PORT

E89 3-THOMAS & BETTS DCL116B-1 PLASTIC DUST COVER

E90 77 2-THOMAS & BETTS FS116 16 POSITION FEMALE INSERT

E91 2-THOMAS & BETTS PB316 16 POSITION PANEL MOUNT BASE

E92 78 1-VICKERS EEA-PAM-571-A-12 POWER AMPLIFIER BOARD WITH POSITION

CONTROL

E93 1-VICKERS 507739 CARD HOLDER

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E94	79	1-W.W. & CO. 4331WN COUNTER CARD INTERFACE BLOCK			
E95	80	1-W.W. & CO. A-3409 WARNING PLATE			
E96	81*	1-W.W. & CO. A-6017-1 RS-232-C CABLE			
E97	82	1-W.W. & CO. A-3892-1 WARNING PLATE			
E98	83	2-W.W. & CO. A-6118-1 WARNING PLATE			
E99	84	1-W.W. & CO. ELECTRICAL DATA PLATE PER DWG. 4947WN-010			
E100	85	AS REQ-BELDEN 9463 (OR EQUIV.) TWINAXIAL CABLE			
E101	86	AS REQ- 1" PANEL DUCT			
E102	87	AS REQ- 2" PANEL DUCT			
E103	88	AS REQ- 3" PANEL DUCT			
E104	89	1- 150 OHM, 1/4 WATT RESISTOR			
E105	90	AS REQ-ALLEN BRADLEY 1492-H1 CHANNEL MOUNT TERMINAL BLOCK			
E106	91	AS REQ-ROYAL OAK LEGEND PLATES PER W.W.& CO. DWG. 4947WN-010			
E107	92	AS REQ-PLACARDS PER W.W. & CO. DWG. 4947WN-010			
	93	REF-W.W.& CO. DWG #1688WN SLIDE LOCK ASSEMBLY			
	94	REF-W.W.& CO. B-1006-1 LEVEL SWITCH ASSEMBLY			
	95	REF-W.W.& CO. SCAVENGER ASSEMBLY (B-868 WIRING) (HYD. ITEM #B31)			
	96	REF-TRABON LUBE CYCLE SWITCH (LUBE ITEM #4)			
	97	REF-TRABON LUBE LEVEL SWITCH (LUBE ITEM #1)			
	98	REF-TRABON LUBE PUMP (LUBE ITEM #1)			
	99	REF-VICKERS 4-WAY VALVE (HYD. ITEM #B16)			
	100	REF-VICKERS 4-WAY VALVE (HYD. ITEM #E23)			
	101	REF-VICKERS 4-WAY VALVE (HYD. ITEM #C13)			

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102			REF-VICKERS 4-WAY VALVE (HYD. ITEM #D18)		
103			REF-BARKSDALE PRESSURE SWITCH (HYD. ITEM #A10)		
104			REF-BARKSDALE PRESSURE SWITCH (HYD. ITEM #A9)		
105			REF-VICKERS EHST RELIEF VALVE (HYD. ITEM #E20)		
106			REF-VICKERS PROPORTIONAL CONTROL VALVE (HYD. ITEM #B15)		
107			REF-SKINNER 2-WAY VALVE (HYD. ITEM #A7)		
108			REF-VICKERS 4-WAY VALVE (HYD. ITEM #D19)		
109			REF-VICKERS 4-WAY VALVE (HYD. ITEM #B17)		
110			REF-VICKERS 4-WAY VALVE (HYD. ITEM #E25)		
111			REF-PREFILL VALVE ASSEMBLY W.W. & CO. DWG. 4946WN		
112			REF-W.W. & CO. B-1006-3 LEVEL SWITCH ASSEMBLY		
113			REF-VICKERS 4-WAY VALVE (HYD. ITEM #E24)		

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SUGGESTED SPARE PARTS LIST

1 SET-GARLOCK CHEVRON PACKING #432-C CUT OPEN, W/FILLERS, 261
(CUT OPEN) RHT&B (18-1/2" I.D. X 20" O.D. X 2-13/16" HIGH)

2-GARLOCK KLOZURES #64X4216 (18-1/2" X 20-1/2" X 7/8")

4-DOUBLE SEAL PISTON RINGS, TYPE INSEAL 25" O.D. X 3/4" WIDE

4-HYD. "O" RING #338-V709-90 (3-1/8" X 3-1/2" X 3/16")

1-HYD. "O" RING #468-V709-90 (19-1/2" X 20" X 1/4")

2-HYD. "O" RING #V709-90 HOT SPLICED (24-1/2" X 25" X 1/4")

1 SET-GARLOCK CHEVRON PACKING #432-C CUT OPEN, W/FILLERS 261
RHT&B (CUT OPEN) (23-1/2" X 25-1/2" X 3-9/16")

2-GARLOCK KLOZURES #64X4288 (23-1/2" X 25-1/2" X 7/8")

1-CHESTERTON SUPER MONOSEAL 10,000 MOLD NO. 60361

(23" X 25" X 1-1/2")

1-HYD. "O" RING #474-V709-90 (25" X 25-1/2" X 1/4")

1-HYD. "O" RING #334-V709-90 (2-5/8" X 3" X 3/16")

2-GEMS CO. LEVEL SWITCH NO. 26717 115 VOLT, 60 HZ. STAINLESS
STEEL

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SUGGESTED HYDRAULICS SPARE PARTS LIST

VICKERS

1-#920175 SEAL KIT FOR 25mm CARTRIDGE VALVE
1-#920365 SEAL KIT FOR 32mm CARTRIDGE VALVE
1-#920177 SEAL KIT FOR 40mm CARTRIDGE VALVE
1-#DG4V-3-2A-MS-U-B-40 4-WAY VALVE
1-#DG4V-3-2AL-M-U-B-40 4-WAY VALVE
2-#DG4V-3-2A-M-U-B-40 4-WAY VALVE
1-#DG4S4-012A-U-B-50 4-WAY VALVE
1-#DG5S-8-6A-T-M-U-B-20 4-WAY VALVE
1-#EHST-E-FVF-11 PROPORTIONAL RELIEF VALVE
1-#CVGC-3-W-250-10 RELIEF VALVE MODULE
1-#DGMC-3-PT-CW-40 RELIEF VALVE MODULE

REXROTH

1-#314352 SEAL KIT FOR 16mm CARTRIDGE VALVE INSERT
2-#314354 SEAL KIT FOR 25mm CARTRIDGE VALVE INSERT
2-#314356 SEAL KIT FOR 32mm CARTRIDGE VALVE INSERT
4-#314055 SEAL KIT FOR 40mm CARTRIDGE VALVE INSERT
1-#314056 SEAL KIT FOR 50mm CARTRIDGE VALVE INSERT
1-#314058 SEAL KIT FOR 80mm CARTRIDGE VALVE INSERT
1-#313758 SEAL KIT FOR 16mm "D" CARTRIDGE VALVE COVER

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1-#313951 SEAL KIT FOR 16mm "H2" CARTRIDGE VALVE COVER

2-#313760 SEAL KIT FOR 25mm "D" CARTRIDGE VALVE COVER

2-#313762 SEAL KIT FOR 32mm "D" CARTRIDGE VALVE COVER

1-#313800 SEAL KIT FOR 32mm "H2" CARTRIDGE VALVE COVER

1-#313808 SEAL KIT FOR 32mm "KWB" CARTRIDGE VALVE COVER

3-#313863 SEAL KIT FOR 40mm "D", "WEA & WEB" CARTRIDGE VALVE

COVER

2-#313867 SEAL KIT FOR 40mm "H2" CARTRIDGE VALVE COVER

1-#313873 SEAL KIT FOR 40mm "KWA & KWB" CARTRIDGE VALVE COVER

1-#313863 SEAL KIT FOR 50mm "D" CARTRIDGE VALVE COVER

1-#314826 SEAL KIT FOR 80mm "GWA" CARTRIDGE VALVE COVER

SCHROEDER

12-#BBS3 FILTER ELEMENTS

IMO DELAVAL

1-#C1G-82200/82200-R-I-P GEAR PUMP

1-#C1G-83250/83160-R-I-P GEAR PUMP

1-#C1G-64125-R-I-P GEAR PUMP

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SUGGESTED ELECTRICAL SPARE PARTS LIST

1-ACTION INSTRUMENTS AP4350-A001 ISOLATED THERMOCOUPLE
TRANSMITTER, FOR TYPE J T/C, -150 TO 1380 DEG. F. INPUT RANGE
AS-REQ'D ALLEN BRADLEY 2100 CENTERLINE MOTOR CONTROL CENTER
REPLACEMENT PARTS

3-ALLEN BRADLEY W-73 HEATER ELEMENTS
3-ALLEN BRADLEY W-42 HEATER ELEMENTS
1-ALLEN BRADLEY 800T-A2 BLACK PUSHBUTTON OPERATOR
1-ALLEN BRADLEY 800T-B6 RED PUSHBUTTON OPERATOR
1-ALLEN BRADLEY 800T-D2 BLACK MUSHROOM HEAD PUSHBUTTON OPERATOR
1-ALLEN BRADLEY 800T-D6J RED JUMBO MUSHROOM HEAD PUSHBUTTON
OPERATOR

1-ALLEN BRADLEY 800T-N247Y YELLOW JUMBO MUSHROOM HEAD CAP
STD. QTY.-ALLEN BRADLEY 800T-XA PUSHBUTTON CONTACT BLOCK
1-ALLEN BRADLEY 800T-P16A AMBER PILOT LIGHT 120V. 60 HZ.
1-ALLEN BRADLEY 800T-PT16W WHITE PUSH-TO-TEST PILOT LIGHT 120V.
60 HZ.

1-ALLEN BRADLEY 800T-PA16R RED ILLUMINATED PUSHBUTTON WITH
GUARD

STD. QTY.-ALLEN BRADLEY 800T-N42 AMBER COLOR CAP

STD. QTY.-ALLEN BRADLEY 800T-N43 BLUE COLOR CAP

STD. QTY.-ALLEN BRADLEY 800T-N65 ANSI 755 OR 1866 LAMPS, 6.3

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VOLTS

1-ALLEN BRADLEY 800P-1F1NBS BLACK PALM OPERATED PUSHBUTTON

1-ALLEN BRADLEY 800T-H33A 2-POSITION SELECTOR SWITCH

1-ALLEN BRADLEY 800T-J44KC1B KEYLOCK 3-POS SELECTOR SWITCH

1-ALLEN BRADLEY 800T-E11A KEYLOCK PUSHBUTTON

1-ALLEN BRADLEY 700-P400-A1 4-POLE RELAY, 120 VAC, 60 HZ.

1-ALLEN BRADLEY 700-PB40 4-POLE SECOND ADDER DECK

1-ALLEN BRADLEY 700-PC40 4-POLE THIRD ADDER DECK

1-ALLEN BRADLEY 1785-LT4 PLC-5/15 PROCESSOR

1-ALLEN BRADLEY 1771-IAD 16 PT., 120 VAC INPUT MODULE

1-ALLEN BRADLEY 1771-OAD 16 PT., 120 VAC OUTPUT MODULE

1-ALLEN BRADLEY 1771-OFE1 ANALOG OUTPUT MODULE

1-ALLEN BRADLEY 1771-IFE ANALOG INPUT MODULE

1-ALLEN BRADLEY 1771-IGD TTL INPUT MODULE

1-ALLEN BRADLEY 1771-OG TTL OUTPUT MODULE

1-ALLEN BRADLEY 1785-KE RS-232 COMMUNICATION MODULE

1-ALLEN BRADLEY 1771-P7 16 A. BACKPLANE POWER SUPPLY

1-BRAD HARRISON 22803 SHORTING PLUG W/CHAIN

1-HYCON HDA3172-8-315-000-US, 0 TO 4567 PSI PRESSURE TRANSDUCER

1-HYCON HDA3172-8-100-000-US, 0 TO 1450 PSI PRESSURE TRANSDUCER

STD. QTY.-BUSS FRS-R300 DUAL ELEMENT FUSE, 300 A./600 V.

STD. QTY.-BUSS FRS-R100 DUAL ELEMENT FUSE, 100 A./600 V.

STD. QTY.-BUSS FRS-R30 DUAL ELEMENT FUSE, 30 A./600 V.

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STD. QTY.-BUSS FRS-R10 DUAL ELEMENT FUSE, 10 A./600 V.

STD. QTY.-BUSS FRS-R6-1/4 DUAL ELEMENT FUSE, 6-1/4A./600 V.

STD. QTY.-BUSS FRN-R30 DUAL ELEMENT FUSE, 30 A./250 V.

STD. QTY.-BUSS FRN-R20 DUAL ELEMENT FUSE, 20 A./250 V.

STD. QTY.-BUSS FRN-R15 DUAL ELEMENT FUSE, 15 A./250 V.

STD. QTY.-BUSS FRN-R10 DUAL ELEMENT FUSE, 10 A./250 V.

STD. QTY.-BUSS FRN-R5 DUAL ELEMENT FUSE, 5 A./250 V.

STD. QTY.-BUSS FNA-1/2 DUAL ELEMENT FUSE, 1/2 A./250 V.

STD. QTY.-BUSS FNA-2 DUAL ELEMENT FUSE, 2 A./125 V.

1-CONTROL CONCEPTS IC+115 ISLATROL FILTER 15 AMP., 120 VAC

1-MICRO-SWITCH LSA1A PLUG-IN LIMIT SWITCH

1-MICRO-SWITCH LSZ51L ROLLER ARM

1-OEM CONTROLS MS4M4505 SINGLE AXIS CONTROL 10K OHM

1-BARBER COLEMAN P011-31424-000-2-00 TYPE "J" THERMOCOUPLE

1-POWER ONE HB5-3/OVP-A +5 VDC @ 3 A. POWER SUPPLY

1-POWER ONE HAA15-0.8-A +/-15 VDC @ 0.8A. POWER SUPPLY

1-POWER ONE HD24-4.8-A +24 VDC @ 4.8 A. POWER SUPPLY

1-GEMS 26717 FLOAT SWITCH

1-SPECTER 3200A-1 REGISTER TRANSLATOR

1-VICKERS EEA-PAM-571-A-12 POWER AMPLIFIER BOARD

1-MTS TTS-RCU-0780 TEMPOSONICS II TRANSDUCER, RIGID 0.375" ROD

WITH INTEGRATED CONNECTOR, NEMA 6 HEAD ENCLOSURE, 78" STROKE, 2" NUL

2.5" DEAD ZONE

2000 TON HSG. TYPE, M.D., HYD. PRESS
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1-MTS TEMPOSONICS TSC-86F04-RCU0780 TEMPOSONICS II DIGITAL
COUNTER CARD, UP TO 18 BITS NATURAL BINARY OUTPUT, FORWARD COUNT, 1
MICROSECOND LATCH PULSE AND LATCH OUTPUT INHIBIT, 0.001" RESOLUTION F
78.0" TRANSDUCER

1-MTS TEMPOSONICS 01107805414020 DIGITAL INTERFACE BOX FOR 78"
TRANSDUCER, +/- 15VDC, -40 TO +180 DEGREE F, UPDATE 5.0 MSEC, INTERN
INTERROGATION, 4 RECIRCULATIONS, STANDARD ENCLOSURE 370013 CONNECTO
FOR J1 CONNECTION ON DIB, 10 PIN FEMALE

1-MTS TEMPOSONICS 201542 TEMPOSONICS II MAGNET, 1.29" O.D.