

**Skid Bill of Materials**

02-Jan-07

06177 - UNIVERSITY OF SOUTH CAROLINA

<u>Qty.</u>	<u>Part No</u>	<u>Mfg Name</u>	<u>Description</u>
1	9770K44	—	VALVE, CHECK, 3/4" NPT, CLASS 125, 2 15/16" OVERALL LENGTH, BRONZE, METAL TO METAL SEAT, 406F MAX, 14.3 CV
1	9770K44		VALVE, CHECK, 3/4" NPT, CLASS 125, 2 15/16" OVERALL LENGTH, BRONZE, METAL TO METAL SEAT, 406F MAX, 14.3 CV
3	86495777		SIPHON, 1/4" NPT, 180 DEGREE, SCH 80, CARBON STEEL
1	18311-0-182210170	ABB	TRANSDUCER, I/P (CURRENT TO PNEUMATIC), NEMA 4 4X, 4-20 MA INPUT, 3-15 PSIG OUTPUT
1	70085-1010-004	AI-TEK	SENSOR, PASSIVE SPEED, 5/8-18 UNF-2A X 1.125" THREAD W/ LOCKNUT, 1/2" NPT W/ 10' LEADS, 4.3 V(P-P) @ 600 IN/SEC, 130 OHMS MAX, 32-46 MH, RED LEAD POSITIVE
1	70085-1010-004		SENSOR, PASSIVE SPEED, 5/8-18 UNF-2A X 1.125" THREAD W/ LOCKNUT, 1/2" NPT W/ 10' LEADS, 4.3 V(P-P) @ 600 IN/SEC, 130 OHMS MAX, 32-46 MH, RED LEAD POSITIVE
1	W43-12-12U	ANCHOR FLANGE	FLANGE, 3/4" SAE 4 BOLT, 3/4" NPTF, CODE 61, WITH MOUNTING HARDWARE
1	W43-24-24U		FLANGE, 1 1/2" SAE 4 BOLT, 1 1/2" NPTF, CODE 61, WITH HARDWARE
1	W43-20-20U		FLANGE, 1 1/4" SAE 4 BOLT, 1 1/4" NPTF, CODE 61, WITH MOUNTING HARDWARE
1	W43-12-12U		FLANGE, 3/4" SAE 4 BOLT, 3/4" NPTF, CODE 61, WITH MOUNTING HARDWARE
1	W43-24-24U		FLANGE, 1 1/2" SAE 4 BOLT, 1 1/2" NPTF, CODE 61, WITH HARDWARE
1	W43-20-20U		FLANGE, 1 1/4" SAE 4 BOLT, 1 1/4" NPTF, CODE 61, WITH MOUNTING HARDWARE
1	8321G1-24VDC	ASCO	VALVE, SOLENOID, 3 WAY, 24V DC, 1/4" NPT, NORMALLY CLOSED, 9/32" PRESSURE ORIFICE, 11/32" EXHAUST ORIFICE

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<u>Qty.</u>	<u>Part No</u>	<u>Mfg Name</u>	<u>Description</u>
1	8321G1-24VDC	ASCO	VALVE, SOLENOID, 3 WAY, 24V DC, 1/4" NPT, NORMALLY CLOSED, 9/32" PRESSURE ORIFICE, 11/32" EXHAUST ORIFICE
1	K17M0242C1750	ASHCROFT	TRANSMITTER, PRESSURE, 1.0% ACCURACY, 1/4 NPT-M, 4-20 MA, 1/2" NPT-M W/ 36" LEADS, 0-750 PSIG RANGE
1	K17M0242C1200		TRANSMITTER, PRESSURE, 1.0% ACCURACY, 1/4 NPT-M, 4-20 MA, 1/2" NPT-M W/ 36" LEADS, 0-200 PSIG RANGE
1	CM3539	BALDOR	MOTOR, THREE PHASE, C-FACE, TEFC, W/ BASE, .5 HP, 1140 RPM, NEMA 56C FRAME, 230/480V AC USABLE AT 208V, TYPE 3418M, 11.35 "C" DIMENSION, 1.2 FLA, 24 LBS, 72.0% FLE
1	CM3546		MOTOR, THREE PHASE, C-FACE, TEFC, W/ BASE, 1 HP, 1760 RPM, NEMA 56TC FRAME, 208-230/480V AC, TYPE 3426M, 12.00 "C" DIMENSION, 1.7 FLA, 31 LBS, 78.5% FLE
1	47345K34	CASH	VALVE, PRESSURE REGULATING, 3/4" NPT FEMALE CONNECTIONS, PHOSPHOR BRONZE DIAPHRAGM, PTFE SEAT, 250 PSIG MAX INLET, 400F MAX, 5 1/8" OVERALL LENGTH
1	8-T-8F-600-750F	CIRCLE S	SEPARATOR, STEAM, 8", T STYLE, CARBON STEEL, 8" 900 ANSI RF FLANGES, ASME CODE STAMP, RATED @ 615 PSIA 750F
1	06177-TURB	COPPUS	TURBINE, STEAM, RLHA24, 612 PSIA 740F DESIGN 750F MAX INLET, 130 DESIGN 165 MAX PSIA EXHAUST, 60000 #/HR, 5477 RPM, 1590 KW RATED, 10" 300# RF RIGHT EXHAUST FACING STEAM END, CCW ROTATION FACING STEAM END, 202 CONSTRUCTION, 6" 600# RF COMBINATION VALVE
1	MQ1-1/8X1/2-1-2-DR-V	FABCO-AIR INC.	CYLINDER, PNEUMATIC, MQ (SIDE TAP), 1 1/8" DIAMETER BORE, 1/2" STROKE, 1 EXTENSION STAGE, 2 RETRACTION STAGES
1	VJ-4R/HS/WS	FULFLO	VALVE, RELIEF, CAST IRON, 3/4" NPTF, BUNA O-RING, HARDENED STEEL PISTON, WS SPRING, 30-100 PSIG RANGE
1	VJ-4R/HS/WS		VALVE, RELIEF, CAST IRON, 3/4" NPTF, BUNA O-RING, HARDENED STEEL PISTON, WS SPRING, 30-100 PSIG RANGE

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<u>Qty.</u>	<u>Part No</u>	<u>Mfg Name</u>	<u>Description</u>
1	LPC100L-5B-3	GEARTEK	PUMP, GEAR, SIZE C100, LOW PRESSURE, .0085 GALLONS/REVOLUTION, COUNTERCLOCKWISE, 7/8" STRAIGHT SHAFT 1/4"SQ X 1 3/4" KEY, SAE 2X4 BOLT 'B' FLANGE, 1 1/4" SAE 4-BOLT INLET, 3/4" SAE 4-BOLT OUTLET
1	LPC100L-5B-3		PUMP, GEAR, SIZE C100, LOW PRESSURE, .0085 GALLONS/REVOLUTION, COUNTERCLOCKWISE, 7/8" STRAIGHT SHAFT 1/4"SQ X 1 3/4" KEY, SAE 2X4 BOLT 'B' FLANGE, 1 1/4" SAE 4-BOLT INLET, 3/4" SAE 4-BOLT OUTLET
1	A-12P10	HOFFMAN	PANEL, 10.75" X 8.88", 14 GAUGE, FOR "A" STYLE 12" X 10" BOX, WHITE
1	A-12P10		PANEL, 10.75" X 8.88", 14 GAUGE, FOR "A" STYLE 12" X 10" BOX, WHITE
1	A-12P10		PANEL, 10.75" X 8.88", 14 GAUGE, FOR "A" STYLE 12" X 10" BOX, WHITE
1	A-12P10		PANEL, 10.75" X 8.88", 14 GAUGE, FOR "A" STYLE 12" X 10" BOX, WHITE
1	A-1210SC		BOX, SCREW COVER, 12" X 10" X 5", 14 GAUGE, EXTERNAL MOUNTING FEET, GRAY, 10-32 PANEL HARDWARE, NEMA TYPE 12 & 13
1	A-363612LP		ENCLOSURE, SINGLE DOOR, WALL MOUNT, 36" X 36" X 12", 14 GAUGE, GRAY, 3/8"-16 PANEL HARDWARE, STAINLESS STEEL DOOR CLAMPS, NEMA TYPE 12 & 13
1	A-36P36		PANEL, 33" X 33", 14 GAUGE, FOR "A" STYLE 36" X 36" BOX, WHITE
1	A-1210SC		BOX, SCREW COVER, 12" X 10" X 5", 14 GAUGE, EXTERNAL MOUNTING FEET, GRAY, 10-32 PANEL HARDWARE, NEMA TYPE 12 & 13
1	4206K25	JOHN ERNST	INDICATOR, SIGHT FLOW, MODEL 137P, 1" NPT FEMALE, PLAIN, BRASS, 125 PSIG MAX, 200F MAX, 4.375" END TO END
1	4206K25		INDICATOR, SIGHT FLOW, MODEL 137P, 1" NPT FEMALE, PLAIN, BRASS, 125 PSIG MAX, 200F MAX, 4.375" END TO END
1	00075614	KEROTEST	VALVE, NEEDLE, 1/4", HARD SEAT, 800F, 10,000 PSIG, MALE X FEMALE, STRAIGHT, ALLOY STEEL
1	00075614		VALVE, NEEDLE, 1/4", HARD SEAT, 800F, 10,000 PSIG, MALE X FEMALE, STRAIGHT, ALLOY STEEL

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<u>Qty.</u>	<u>Part No</u>	<u>Mfg Name</u>	<u>Description</u>
1	06177-BAL	LINDSKOG BALANCING	COUPLING BALANCING, BALANCE COUPLING HUBS AND ASSEMBLY, USING EXISTING ARBOR
1	06177-CPG-LS	LOVEJOY	COUPLING, F4.0 GEAR
1	06177-CPG-HS		COUPLING, DI 202-6 DISC W/ 7.31" SPACER
1	06177-GEAR	LUFKIN	REDUCER, HELICAL GEAR, N1200C, 1700 KW @1.4 SF, 5477 RPM TO 1800 RPM, SPLIT SLEEVE BABBITT LINED BEARINGS HS & LS, 11 GPM OIL REQUIREMENT @ 25 PSIG, 18.8 KW LOSS
1	M170U9	MAGNALOY	INSERT, M100 COUPLING, URETHANE
1	M056502B		MOUNT, PUMP/MOTOR, HORIZONTAL, 56C-184C MOTOR, SAE B PUMP, 5.00" LENGTH
1	M10002808		HUB, M100 COUPLING, 7/8" BORE X 1/4"SQ KEY
1	M10002006		HUB, M100 COUPLING, 5/8" BORE X 3/16"SQ KEY
1	INCOMING FREIGHT	MARATHON	INCOMING FREIGHT ESTIMATE
1	06177-GEN		GENERATOR, SYNCHRONOUS, 743RDL4052, 1470 KW, 1837.5 KVA @ .8 PF, 105 OVER 40C TEMP RISE NAMEPLATE RATING, 480V, 3 PH, 1800 RPM, 60 HZ, CLASS F INSULATION, 1600 KW, 2000 KVA @ .8 PF, 105 OVER 40C TEMP RISE DESIGN RATING, 2 BEARINGS
1	MARATHON EXTENDE		EXTENDED WARRANTY, 18 MONTHS FROM STARTUP OR 24 MONTHS FROM SHIPMENT
1	49355K95	MILWAUKEE VALVE	VALVE, BALL, 1" NPT, MEDIUM PRESSURE, CARBON STEEL, LOCKABLE HANDLE
1	S854PD120Z36	MINCO	PROBE, RTD, TIP SENSITIVE, 3/16" DIAMETER, 100 OHM PLATINUM, +/- .1% AT 0 C, .00385 TCR
1	S854PD120Z36		PROBE, RTD, TIP SENSITIVE, 3/16" DIAMETER, 100 OHM PLATINUM, +/- .1% AT 0 C, .00385 TCR
1	S854PD120Z36		PROBE, RTD, TIP SENSITIVE, 3/16" DIAMETER, 100 OHM PLATINUM, +/- .1% AT 0 C, .00385 TCR
1	S854PD120Z36		PROBE, RTD, TIP SENSITIVE, 3/16" DIAMETER, 100 OHM PLATINUM, +/- .1% AT 0 C, .00385 TCR
1	S854PD120Z36		PROBE, RTD, TIP SENSITIVE, 3/16" DIAMETER, 100 OHM PLATINUM, +/- .1% AT 0 C, .00385 TCR

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<u>Qty.</u>	<u>Part No</u>	<u>Mfg Name</u>	<u>Description</u>
1	FG214	MINCO	HOLDER, RTD, SPRING LOADED, TWIST KNOB, 3/16" PROBE DIAMETER, 1/2-14 NPT PROCESS THREAD, 1/2-14 NPT "CH" THREAD, O-RING SEAL, 300 SERIES STAINLESS STEEL, 2.6" LENGTH
1	S854PD120Z36		PROBE, RTD, TIP SENSITIVE, 3/16" DIAMETER, 100 OHM PLATINUM, +/- .1% AT 0 C, .00385 TCR
1	FG214		HOLDER, RTD, SPRING LOADED, TWIST KNOB, 3/16" PROBE DIAMETER, 1/2-14 NPT PROCESS THREAD, 1/2-14 NPT "CH" THREAD, O-RING SEAL, 300 SERIES STAINLESS STEEL, 2.6" LENGTH
1	FG214		HOLDER, RTD, SPRING LOADED, TWIST KNOB, 3/16" PROBE DIAMETER, 1/2-14 NPT PROCESS THREAD, 1/2-14 NPT "CH" THREAD, O-RING SEAL, 300 SERIES STAINLESS STEEL, 2.6" LENGTH
1	FG214		HOLDER, RTD, SPRING LOADED, TWIST KNOB, 3/16" PROBE DIAMETER, 1/2-14 NPT PROCESS THREAD, 1/2-14 NPT "CH" THREAD, O-RING SEAL, 300 SERIES STAINLESS STEEL, 2.6" LENGTH
1	FG214		HOLDER, RTD, SPRING LOADED, TWIST KNOB, 3/16" PROBE DIAMETER, 1/2-14 NPT PROCESS THREAD, 1/2-14 NPT "CH" THREAD, O-RING SEAL, 300 SERIES STAINLESS STEEL, 2.6" LENGTH
1	FG214		HOLDER, RTD, SPRING LOADED, TWIST KNOB, 3/16" PROBE DIAMETER, 1/2-14 NPT PROCESS THREAD, 1/2-14 NPT "CH" THREAD, O-RING SEAL, 300 SERIES STAINLESS STEEL, 2.6" LENGTH
1	S854PD120Z36		PROBE, RTD, TIP SENSITIVE, 3/16" DIAMETER, 100 OHM PLATINUM, +/- .1% AT 0 C, .00385 TCR
1	FG214		HOLDER, RTD, SPRING LOADED, TWIST KNOB, 3/16" PROBE DIAMETER, 1/2-14 NPT PROCESS THREAD, 1/2-14 NPT "CH" THREAD, O-RING SEAL, 300 SERIES STAINLESS STEEL, 2.6" LENGTH
1	40945K81	ORANGE RESEARCH INC.	SWITCH, PRESSURE DIFFERENTIAL, W/ DIAL GAUGE, 3-15 PSID SETPOINT RANGE, BRASS, 1/4" NPT FEMALE CONNECTIONS, 2% ACCURACY, 2% REPEATABILITY, NEMA 4 ENCLOSURE, SPDT, 150F AMBIENT MAX, 5000 PSIG MAX
1	NAW2000-N02G-1C	SMC	REGULATOR, W/ 5 MICRON FILTER, AIR, 0-30 PSIG RANGE
1	AW20 N02G-CZ		REGULATOR, W/ 5 MICRON FILTER, AIR, 0-160 PSIG RANGE

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<u>Qty.</u>	<u>Part No</u>	<u>Mfg Name</u>	<u>Description</u>
1	AW20 N02G-CZ	SMC	REGULATOR, W/ 5 MICRON FILTER, AIR, 0-160 PSIG RANGE
1	9007C62ED	SQUARE D	SWITCH, LIMIT, STANDARD BOX PLUG-IN, 2 N.O. & 2 N.C. CONTACTS, TOP PUSH ROD PLUNGER ADJUSTABLE, SPRING RETURN, CLASS 9007, TYPE C, NEMA & UL TYPE 6P
1	AO-40-2	THERMAL TRANSFER	COOLER, AIR TO OIL, SIZE 40, 2 PASS, 5450 CFM, 78 DBA @ 7 FT, 1/2 HP, 1140 RPM, NEMA 56C MOTOR MOUNT, 300 PSIG MAX, 400F MAX
1	3957K261	THERMOCOUPLE	THERMOWELL, STRAIGHT SHANK, .385" BORE DIAMETER, 3/4" NPT MALE, 4" BORE DEPTH, 2 1/2" INSERTION LENGTH, 3/4" LAG LENGTH, BRASS, 1/2" NPT FEMALE PORT
1	3957K11		THERMOWELL, STRAIGHT SHANK, .260" BORE DIAMETER, 3/4" NPT MALE, 4" BORE DEPTH, 2 1/2" INSERTION LENGTH, 3/4" LAG LENGTH, BRASS, 1/2" NPT FEMALE PORT
1	3957K11		THERMOWELL, STRAIGHT SHANK, .260" BORE DIAMETER, 3/4" NPT MALE, 4" BORE DEPTH, 2 1/2" INSERTION LENGTH, 3/4" LAG LENGTH, BRASS, 1/2" NPT FEMALE PORT
1	5406-20-16	TOMPKINS	ADAPTER, 1 1/4" NPTF MALE TO 1" NPTF FEMALE, STEEL, 1150 PSIG
1	5406-24-20		ADAPTER, 1 1/2" NPTF MALE TO 1 1/4" NPTF FEMALE, STEEL, 1000 PSIG
1	5406-24-20		ADAPTER, 1 1/2" NPTF MALE TO 1 1/4" NPTF FEMALE, STEEL, 1000 PSIG
1	5406-20-12		ADAPTER, 1 1/4" NPTF MALE TO 3/4" NPTF FEMALE, STEEL, 1150 PSIG
1	SS1MM01X12	UNAFLEX	HOSE, FLEXIBLE, 1" X 12" FF, STYLE SS-1, 321 STAINLESS HOSE, 304 STAINLESS OVERBRAID, CARBON STEEL MALE NPT BOTH ENDS, 12"OVERALL LENGTH
1	SS1MM01X12		HOSE, FLEXIBLE, 1" X 12" FF, STYLE SS-1, 321 STAINLESS HOSE, 304 STAINLESS OVERBRAID, CARBON STEEL MALE NPT BOTH ENDS, 12"OVERALL LENGTH
1	SS1FF04X5		HOSE, FLEXIBLE, 4" X 5" FF, STYLE SS-1, 321 STAINLESS HOSE, 304 STAINLESS OVERBRAID, CARBON STEEL 150# FLANGES BOTH ENDS, 5" OVERALL LENGTH

Bill of Materials

Skid

University of South Carolina

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Friday, October 06, 2006

Mfr	PartNo	Description	Qty
-	9770K44	VALVE, CHECK, 3/4" NPT, CLASS 125, 2 15/16" OVERALL LENGTH, BRONZE, METAL TO METAL SEAT, 406F MAX, 14.3 Cv	1
-	9770K44	VALVE, CHECK, 3/4" NPT, CLASS 125, 2 15/16" OVERALL LENGTH, BRONZE, METAL TO METAL SEAT, 406F MAX, 14.3 Cv	1
-	86495777	Siphon, 1/4" NPT, 180 Degree, SCH 80, Carbon Steel	3
ABB	18311-0-1822101 70	TRANSDUCER, I/P (CURRENT TO PNEUMATIC), NEMA 4 4X, 4-20 mA INPUT, 3-15 PSIG OUTPUT	1
AI-TEK	70085-1010-004	SENSOR, PASSIVE SPEED, 5/8-18 UNF-2A X 1.125" THREAD W/ LOCKNUT, 1/2" NPT W/ 10' LEADS, 4.3 V(P-P) @ 600 IN/SEC, 130 OHMS MAX, 32-46 Mh, RED	2
	LEAD POSITIVE		
Anchor Flange	W43-24-24U	FLANGE, 1 1/2" SAE 4 BOLT, 1 1/2" NPTF, CODE 61, WITH HARDWARE	2
Anchor Flange	W43-20-20U	FLANGE, 1 1/4" SAE 4 BOLT, 1 1/4" NPTF, CODE 61, WITH MOUNTING	2
Anchor Flange	W43-12-12U	FLANGE, 3/4" SAE 4 BOLT, 3/4" NPTF, CODE 61, WITH MOUNTING HARDWARE	2
Asco	8321G1-24VDC	VALVE, SOLENOID, 3 WAY, 24V DC, 1/4" NPT, NORMALLY CLOSED, 9/32" PRESSURE ORIFICE, 11/32" EXHAUST ORIFICE	2
Ashcroft	K17M0242C1750	TRANSMITTER, PRESSURE, 1.0% ACCURACY, 1/4 NPT-M, 4-20 mA, 1/2" NPT-M W/ 36" LEADS, 0-750 PSIG RANGE	1
Ashcroft	K17M0242C1200	TRANSMITTER, PRESSURE, 1.0% ACCURACY, 1/4 NPT-M, 4-20 mA, 1/2" NPT-M W/ 36" LEADS, 0-200 PSIG RANGE	1
Baldor	CM3539	MOTOR, THREE PHASE, C-FACE, TEFC, W/ BASE, .5 HP, 1140 RPM, NEMA 56C FRAME, 230/480V AC USABLE AT 208V, TYPE 3418M, 11.35 "C" DIMENSION, 1.2 FLA, 24 LBS, 72.0% FLE	1
Baldor	CM3546	MOTOR, THREE PHASE, C-FACE, TEFC, W/ BASE, 1 HP, 1760 RPM, NEMA 56TC FRAME, 208-230/480V AC, TYPE 3426M, 12.00 "C" DIMENSION, 1.7 FLA, 31 LBS, 78.5% FLE	1
Cash	47345K34	VALVE, PRESSURE REGULATING, 3/4" NPT FEMALE CONNECTIONS, PHOSPHOR BRONZE DIAPHRAGM, PTFE SEAT, 250 PSIG MAX INLET, 400F MAX, 5 1/8" OVERALL LENGTH	1
Circle S	8-T-8F-600-750F	SEPARATOR, STEAM, 8", T STYLE, CARBON STEEL, 8" 900 ANSI RF FLANGES, ASME CODE STAMP, RATED @ 615 PSIA 750F	1
Coppus	06177-TURB	TURBINE, STEAM, RLHA24, 612 PSIA 740F DESIGN 750F MAX INLET, 130 DESIGN 165 MAX PSIA EXHAUST, 60000 #/HR, 5477 RPM, 1590 KW RATED, 10" 300# RF RIGHT EXHAUST FACING STEAM END, CCW ROTATION FACING STEAM END, 202 CONSTRUCTION, 6" 600# RF COMBINATION VALVE	1
Fabco-Air Inc.	MQ1-1/8X1/2-1-2-DR-V	CYLINDER, PNEUMATIC, MQ (SIDE TAP), 1 1/8" DIAMETER BORE, 1/2" STROKE, 1 EXTENSION STAGE, 2 RETRACTION STAGES	1
Fulflo	VJ-4R/HS/WS	VALVE, RELIEF, CAST IRON, 3/4" NPTF, BUNA O-RING, HARDENED STEEL PISTON, WS SPRING, 30-100 PSIG RANGE	1
Fulflo	VJ-4R/HS/WS	VALVE, RELIEF, CAST IRON, 3/4" NPTF, BUNA O-RING, HARDENED STEEL PISTON, WS SPRING, 30-100 PSIG RANGE	1
Geartek	LPC100L-5B-3	PUMP, GEAR, SIZE C100, LOW PRESSURE, .0085 GALLONS/REVOLUTION, COUNTERCLOCKWISE, 7/8" STRAIGHT SHAFT 1/4"SQ X 1 3/4" KEY, SAE 2X4 BOLT 'B' FLANGE, 1 1/4" SAE 4-BOLT INLET, 3/4" SAE 4-BOLT OUTLET	1
Geartek	LPC100L-5B-3	PUMP, GEAR, SIZE C100, LOW PRESSURE, .0085 GALLONS/REVOLUTION, COUNTERCLOCKWISE, 7/8" STRAIGHT SHAFT 1/4"SQ X 1 3/4" KEY, SAE 2X4 BOLT 'B' FLANGE, 1 1/4" SAE 4-BOLT INLET, 3/4" SAE 4-BOLT OUTLET	1
Hoffman	A-363612LP	ENCLOSURE, SINGLE DOOR, WALL MOUNT, 36" X 36" X 12", 14 GAUGE, GRAY, 3/8"-16 PANEL HARDWARE, STAINLESS STEEL DOOR CLAMPS, NEMA TYPE 12 & 13	1
Hoffman	A-36P36	PANEL, 33" X 33", 14 GAUGE, FOR "A" STYLE 36" X 36" BOX, WHITE	1
Hoffman	A-1210SC	BOX, SCREW COVER, 12" X 10" X 5", 14 GAUGE, EXTERNAL MOUNTING FEET, GRAY, 10-32 PANEL HARDWARE, NEMA TYPE 12 & 13	1
Hoffman	A-1210SC	BOX, SCREW COVER, 12" X 10" X 5", 14 GAUGE, EXTERNAL MOUNTING FEET, GRAY, 10-32 PANEL HARDWARE, NEMA TYPE 12 & 13	1
Hoffman	A-12P10	PANEL, 10.75" X 8.88", 14 GAUGE, FOR "A" STYLE 12" X 10" BOX, WHITE	2
John Ernst	4206K25	INDICATOR, SIGHT FLOW, MODEL 137P, 1" NPT FEMALE, PLAIN, BRASS, 125 PSIG MAX, 200F MAX, 4.375" END TO END	1
John Ernst	4206K25	INDICATOR, SIGHT FLOW, MODEL 137P, 1" NPT FEMALE, PLAIN, BRASS, 125 PSIG MAX, 200F MAX, 4.375" END TO END	1

*Bill of Materials for
University of South Carolina*

Kerotest	00075614	VALVE, NEEDLE, 1/4", HARD SEAT, 800F, 10,000 PSIG, MALE X FEMALE, STRAIGHT, ALLOY STEEL	2
Lindskog	06177-BAL	COUPLING BALANCING, BALANCE COUPLING HUBS AND ASSEMBLY, USING EXISTING ARBOR	1
Lovejoy	06177-CPG-HS	COUPLING, DI 202-6 DISC w/ 7.31" Spacer	1
Lovejoy	06177-CPG-LS	COUPLING, F4.0 GEAR	1
Lufkin	06177-GEAR	REDUCER, HELICAL GEAR, N1200C, 1700 KW @1.4 SF, 5477 RPM TO 1800 RPM, SPLIT SLEEVE BABBITT LINED BEARINGS HS & LS, 11 GPM OIL REQUIREMENT @ 25 PSIG, 18.8 KW LOSS	1
Magnaloy	M056502B	MOUNT, PUMP/MOTOR, HORIZONTAL, 56C-184C MOTOR, SAE B PUMP, 5.00" LENGTH	1
Magnaloy	M10002006	HUB, M100 COUPLING, 5/8" BORE X 3/16"SQ KEY	1
Magnaloy	M10002808	HUB, M100 COUPLING, 7/8" BORE X 1/4"SQ KEY	1
Magnaloy	M170U9	INSERT, M100 COUPLING, URETHANE	1
Marathon	06177-GEN	GENERATOR, SYNCHRONOUS, 743RDL4052, 1470 KW, 1837.5 KVA @ .8 PF, 105 OVER 40C TEMP RISE NAMEPLATE RATING, 480V, 3 PH, 1800 RPM, 60 HZ, CLASS F INSULATION, 1600 KW, 2000 KVA @ .8 PF, 105 OVER 40C TEMP RISE DESIGN RATING, 2 BEARINGS	1
Marathon	MARATHON	EXTENDED WARRANTY, 18 MONTHS FROM STARTUP OR 24 MONTHS FROM EXTENDED SHIPMENT	1
Milwaukee Valve	49355K95	VALVE, BALL, 1" NPT, MEDIUM PRESSURE, CARBON STEEL, LOCKABLE	1
Minco	S854PD120Z36	PROBE, RTD, TIP SENSITIVE, 3/16" DIAMETER, 100 OHM PLATINUM, +/- .1% AT 0 C, .00385 TCR	6
Minco	FG214	HOLDER, RTD, SPRING LOADED, TWIST KNOB, 3/16" PROBE DIAMETER, 1/2-14 NPT PROCESS THREAD, 1/2-14 NPT "CH" THREAD, O-RING SEAL, 300 SERIES	1
Orange Research	40945K81	SWITCH, PRESSURE DIFFERENTIAL, W/ DIAL GAUGE, 3-15 PSID SETPOINT RANGE, BRASS, 1/4" NPT FEMALE CONNECTIONS, 2% ACCURACY, 2% REPEATABILITY, NEMA 4 ENCLOSURE, SPDT, 150F AMBIENT MAX, 5000 PSIG	1
SMC	NAW2000-N02G-1C	REGULATOR, W/ 5 MICRON FILTER, AIR, 0-30 PSIG RANGE	1
SMC	AW20 N02G-CZ	REGULATOR, W/ 5 MICRON FILTER, AIR, 0-160 PSIG RANGE	2
Square D	9007C62ED	SWITCH, LIMIT, STANDARD BOX PLUG-IN, 2 N.O. & 2 N.C. CONTACTS, TOP PUSH ROD PLUNGER ADJUSTABLE, SPRING RETURN, CLASS 9007, TYPE C, NEMA & UL TYPE 6P	1
Thermal Transfer	AO-40-2	COOLER, AIR TO OIL, SIZE 40, 2 PASS, 5450 CFM, 78 dBA @ 7 FT, 1/2 HP, 1140 RPM, NEMA 56C MOTOR MOUNT, 300 PSIG MAX, 400F MAX	1
Thermocouple	3957K261	THERMOWELL, STRAIGHT SHANK, .385" BORE DIAMETER, 3/4" NPT MALE, 4" BORE DEPTH, 2 1/2" INSERTION LENGTH, 3/4" LAG LENGTH, BRASS, 1/2" NPT FEMALE PORT	1
Thermocouple	3957K11	THERMOWELL, STRAIGHT SHANK, .260" BORE DIAMETER, 3/4" NPT MALE, 4" BORE DEPTH, 2 1/2" INSERTION LENGTH, 3/4" LAG LENGTH, BRASS, 1/2" NPT FEMALE PORT	2
Tompkins	5406-24-20	ADAPTER, 1 1/2" NPTF MALE TO 1 1/4" NPTF FEMALE, STEEL, 1000 PSIG	2
Tompkins	5406-20-12	ADAPTER, 1 1/4" NPTF MALE TO 3/4" NPTF FEMALE, STEEL, 1150 PSIG	2
UNAFLEX	SS1FF04X5	HOSE, FLEXIBLE, 4" X 5" FF, STYLE SS-1, 321 STAINLESS HOSE, 304 STAINLESS OVERBRAID, CARBON STEEL 150# FLANGES BOTH ENDS, 5"	1
UNAFLEX	SS1MM01X12	HOSE, FLEXIBLE, 1" X 12" FF, STYLE SS-1, 321 STAINLESS HOSE, 304 STAINLESS OVERBRAID, CARBON STEEL MALE NPT BOTH ENDS, 12"OVERALL LENGTH	2
United Electric	E100-2BCB-1010	SWITCH, TEMPERATURE, SERIES 100, INTERNAL ADJUSTMENT W/ REFERENCE DIAL, 30F TO 250F RANGE COPPER BULB AND CAPILLARY, 3/8"DIA X 2 7/16" BULB, DPDT, NEMA 4X ENCLOSURE	1
United Electric	H100-701-1010	SWITCH, PRESSURE, SERIES 100, INTERNAL ADJUSTMENT 1.5 TO 30 PSIG RANGE, BUNA-N DIAPHRAGM & O-RING, BRASS 1/4" NPT FEMALE PROCESS CONNECTION, NEMA 4X ENCLOSURE, 500 PSIG MAX OVER PRESSURE	1
Valtek	50SQ	ACTUATOR, PNEUMATIC, 50 SQIN, SPRING TO EXTEND, 2" STROKE, 2.62" SPUD DIAMETER, 1"-12 STEM THREAD, W/ YOKE CLAMP AND BOLTS	1
Valtek	XLPP	POSITIONER, PNEUMATIC, XL	1
Velan	S04-2074B-02TS	VALVE, GLOBE, 3/4", THREADED, CLASS 800, VERTICAL, BOLTED BONNET, WCB, 1/2 STELLITE SEAT	4

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Wika	3481K11	GAUGE, PRESSURE, 2 1/2" DIAL SIZE, PHOSPHOR BRONZE PRESSURE TUBE, BRASS 1/4" NPT MALE PROCESS CONNECTION, ACRYLIC LENS, GLYCERIN FILLED, NIST TRACEABLE CERTIFICATE OF CALIBRATION	1
Wika	4071K101	THERMOMETER, BIMETAL STEM, 3" DIAL, BOTTOM CONNECTION, SS T304, 1% ACCURACY, 1/4" STEM DIAMETER, 1/2" NPT MALE CONNECTION, SILICONE FILLED	1
Zinga	ZAF-07-25-1	FILTER, HOUSING, 150 PSIG MAX, 3/4" NPTF PORTS, 25 PSID BYPASS, ALLUMINUM, W/ 10 MICRON ELEMENT ZAE-10L	1
Zinga	ZAE-10L	FILTER, ELEMENT, SPIN ON, 10 MICRON, FOR HOUSING ZAF-07-25-1	1

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Nomenclature	Part No.	Manufacturer	Description	Location	Qty.	Comments
FU--	1014000000	Weidmuller	Fuse block 1 1/4x1/4 fuse	CP, SP	25	
52AX	3RH1122-1AK60	SIEMENS	Relay 120VAC	CP	1	2NO, 2NC
CPCR	3RH1140-1AK60	"	"	"	1	4NO
CBC 194TX TSHX OS1 0S2,25X SPR1	3RH1140-1BB40	SIEMENS	Relay 24VDC	CP	7	4NO
94G,41	700DC-P400Z24	A-B	Relay 24VDC	"	2	4NO
BR1,2	26MB20A	Intern. rectif.	Bridge rectifier 25A, 200V	"	2	
SS/25A	077-14LU-PQYY-FQ	Crompton	LED synchroscope & s.relay	"	1	
FLT	UCS21113PH120F	Columbia	Undercabinet light fixture	CP, SP	2	
RCP-2	DRUB20	Hubbell	Din rail outlet box	CP, SP	2	
SU	IE-110	Isatrol	Surge suppressor / filter	CP	1	
SW-CP	P9CSCDOA95	GE	Control power switch	"	1	
SW-SE	24203B	Electroswitch	Synchronizing enable switch	"	1	2-pos.
PL1	P9CLBD	GE	Power available light	"	1	
AM	TK-H335-1-0110-1-0-0	Simpson	Panel meter, 0-200mVDC	"	1	
R	TKHA-15-50	"	Shunt resistor	"	1	
VM	TK-H335-1-0140-1-0-0	Simpson	Panel meter, 0-200VDC	"	1	
DGP	SR489-P5-HI-A20	GE Multilin	Generator protection relay	"	1	120VAC control power
PL1	P9CLBD	GE	Control power available light	"	1	
52G	NW30H	Masterpact	Circuit breaker		1	cat. WL3HHR33A9SFFFXCXX
	2711P-T10C4D1	A-B	Panelview Plus 1000	CP	1	Touch screen
VFB,VFG	2492-22-AHD-0-1	Yokogawa	Digital volt/frequency meter	CP	2	4-20mA output
ST1,2	T77420-10	Airpax	Turbine tach. and speed sw.	"	1	2 tach. in one housing
		Meter devices				4 single pole potential, 3 double pole current el.
GB	110-54583	co., inc.	10 pole F/C test switch	"	1	
	ECGB10	Electri center	Ground bar kit, 10 pos.	CP, SP	2	
25C		Beckwith elec.	Device 25	CP	1	Synch. check relay, with voltage verifier module
VT1A,1C	M-0388/M-0389	GE Multilin	Potential transformer, 4:1	CP	2	480/120V, 150VA
VT2A	465-480	GE Multilin	Potential transformer, 4:1	Gen. box.	1	480/120V, 150VA
RC	3RT1916-1CD00	Siemens	Suppressor for 3RH11 coil	CP	4	RC-element
	3RT1916-1DG00	Siemens	Suppressor for 3RH11 coil	"	10	Suppression diode
FU1A	ATDR20	Ferraz	20A slow blow fiberglass fuse	"	1	
FU1,21,22	313 005	Shawmut Little fuse	5A slow blow glass fuse	CP, SP	3	

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Nomenclature	Part No.	Manufacturer	Description	Location	Qty.	Comments
FU2,13	313 003	"	3A slow blow glass fuse	CP	2	
FU3,11,12,19	313 001	"	1A slow blow glass fuse	"	4	
FU4	326 010	"	10A slow blow ceramic fuse	"	1	
FU5	KLDR-10	"	10A, 600V, Time delay	"	1	
FU6,8,15,16	313.5	"	500mA slow blow glass fuse	"	4	
FU7	313.25	"	250mA slow blow glass fuse	"	1	
FU9,10	313 002	"	2A slow blow glass fuse	"	2	
FU14	313 002.5	"	2.5A slow blow glass fuse	"	1	
FU17,18	313.375	"	375mA slow blow glass fuse	"	2	
FU20	313.2	"	200mA slow blow glass fuse	"	1	
VFD-444	ID15J1F50-ER	Baldor	Variable frequency drive	SP	1	0.5HP, 230V, 2.3A, 3PH
VFD-441	ID15J101-ER	"	"	"	1	1.0HP, 230V, 4.2A, 3PH
M444	CM3539	"	Lube oil cooling fan motor	Skid	1	0.5HP, 230V, 2.4A, 3PH
M441	CM3546	"	Aux. lube oil pump motor	Skid	1	1.0HP, 230V, 3.4A, 3PH
AO1	1769-L32E	A-B	Compact logix	CP	1	
	1769-OF8C	"	8 ch. analog output module	"	1	
	1769-ECR	"	Right end cap/terminator	"	1	
DDO1, DDO2	1769-OW8I	"	8 point VAC/VDC individual isolated relay output module	"	2	
DDI1, DDI2	1769-IQ16	"	16 point 24VDC sinking /sourcing input module	"	2	
PS-PLC	1769-PA4	"	120/240VAC power supply	"	1	4A@5VDC, 2A@24VDC
AI1,AI2	1769-IF8	"	8 ch. analog input module	"	2	
	9300-RADKIT	"	Remote access dial-in mod.	"	1	RS-232
	MV169-MCM	Prosoft	Modbus	"	1	Master/slave com. mod.
	6520	Adam	5 port ind. Ethernet switch	"	1	
	GDA120-24SPB	A-B		"	2	
W1,2	0116B6708G5W	GE	White synchronizing light	"	2	Includes resistor
PL1	P9CLBD	"	Power available light	"	1	White
SW-CP	P9CSCDOA95	"	Control power switch	"	1	
PB-ES1	P9CET4RN1	"	Emergency stop pushbutton	"	1	
PB-OST	P9CPNNG	"	Mechanical overspeed test pushbutton	"	1	