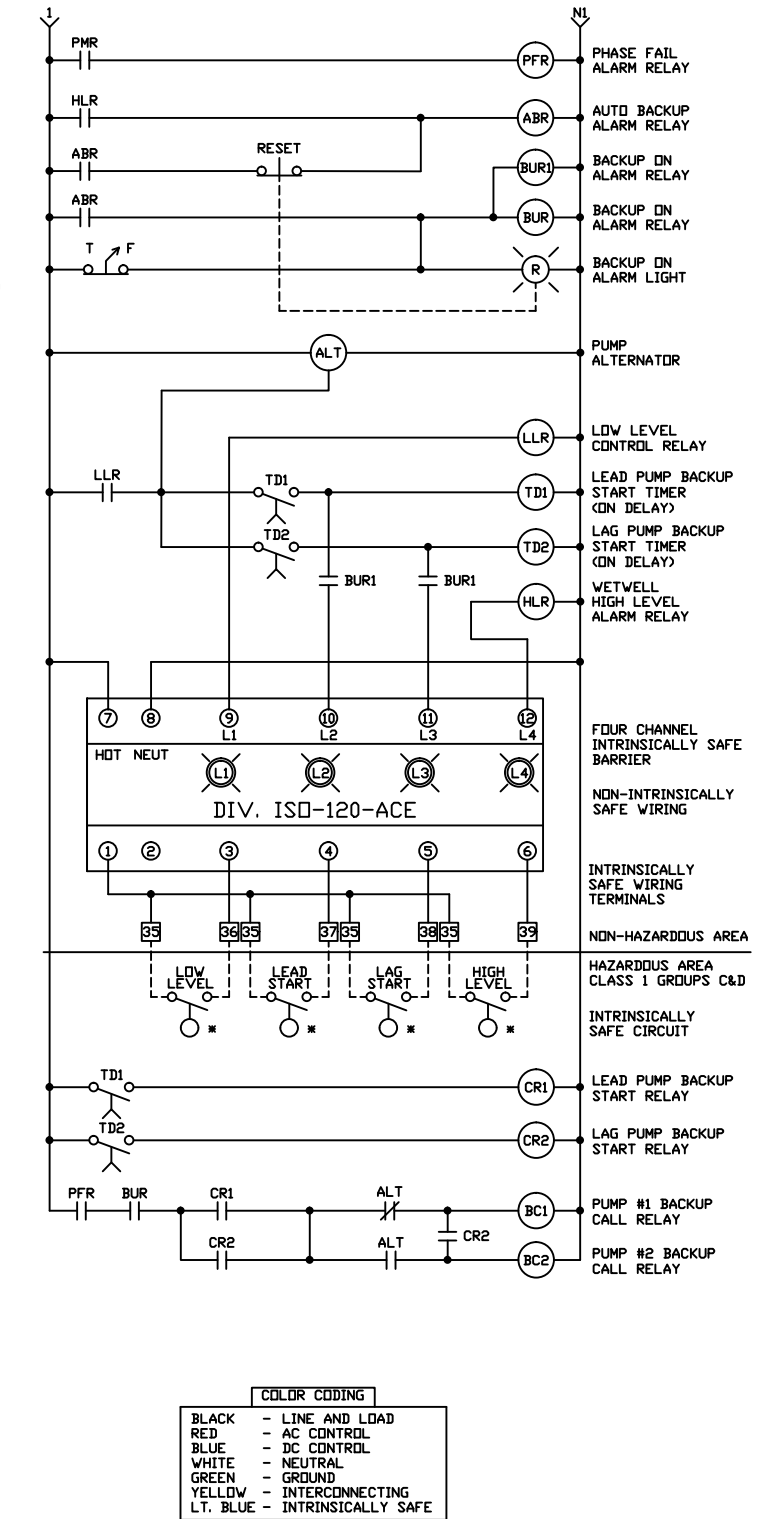
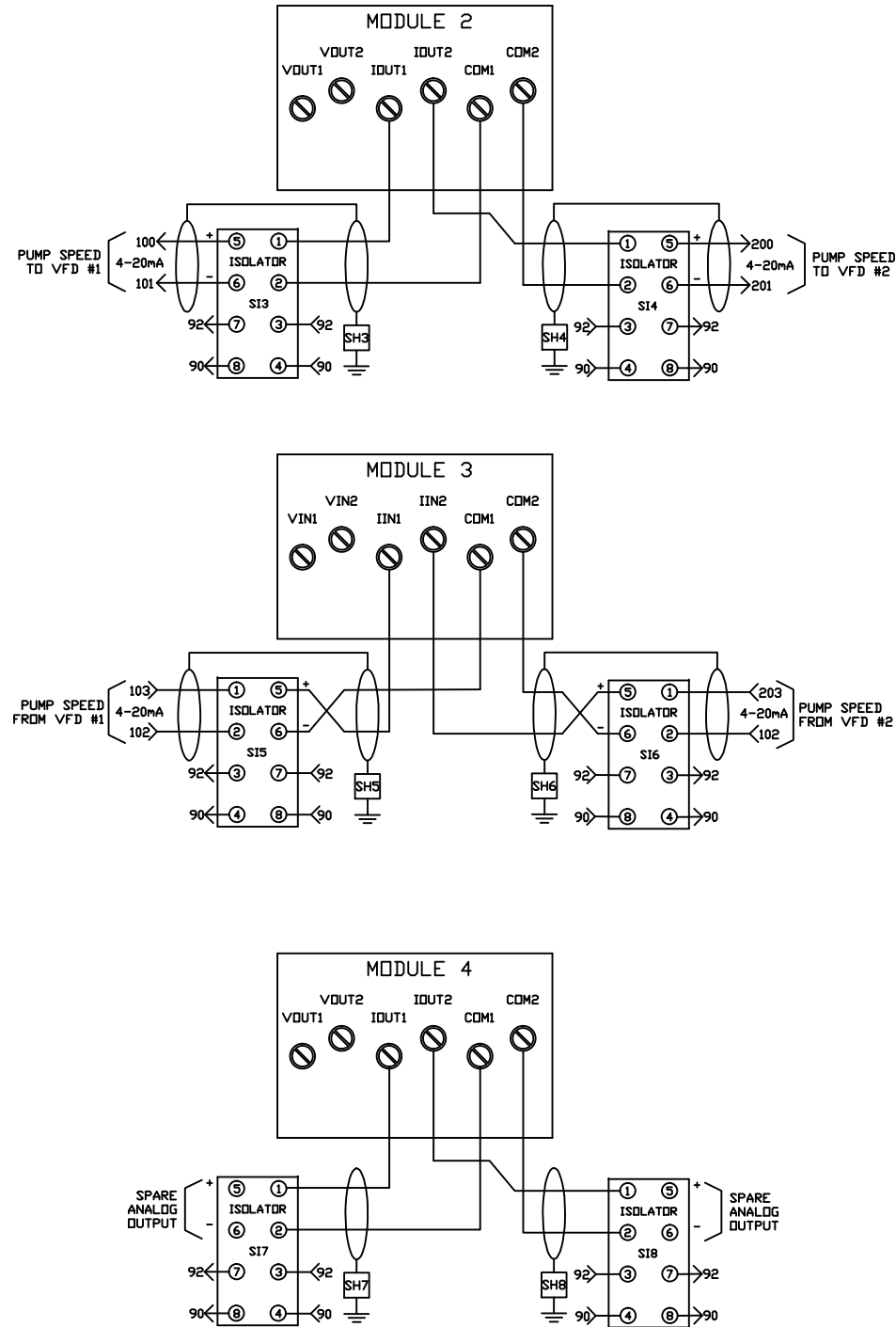
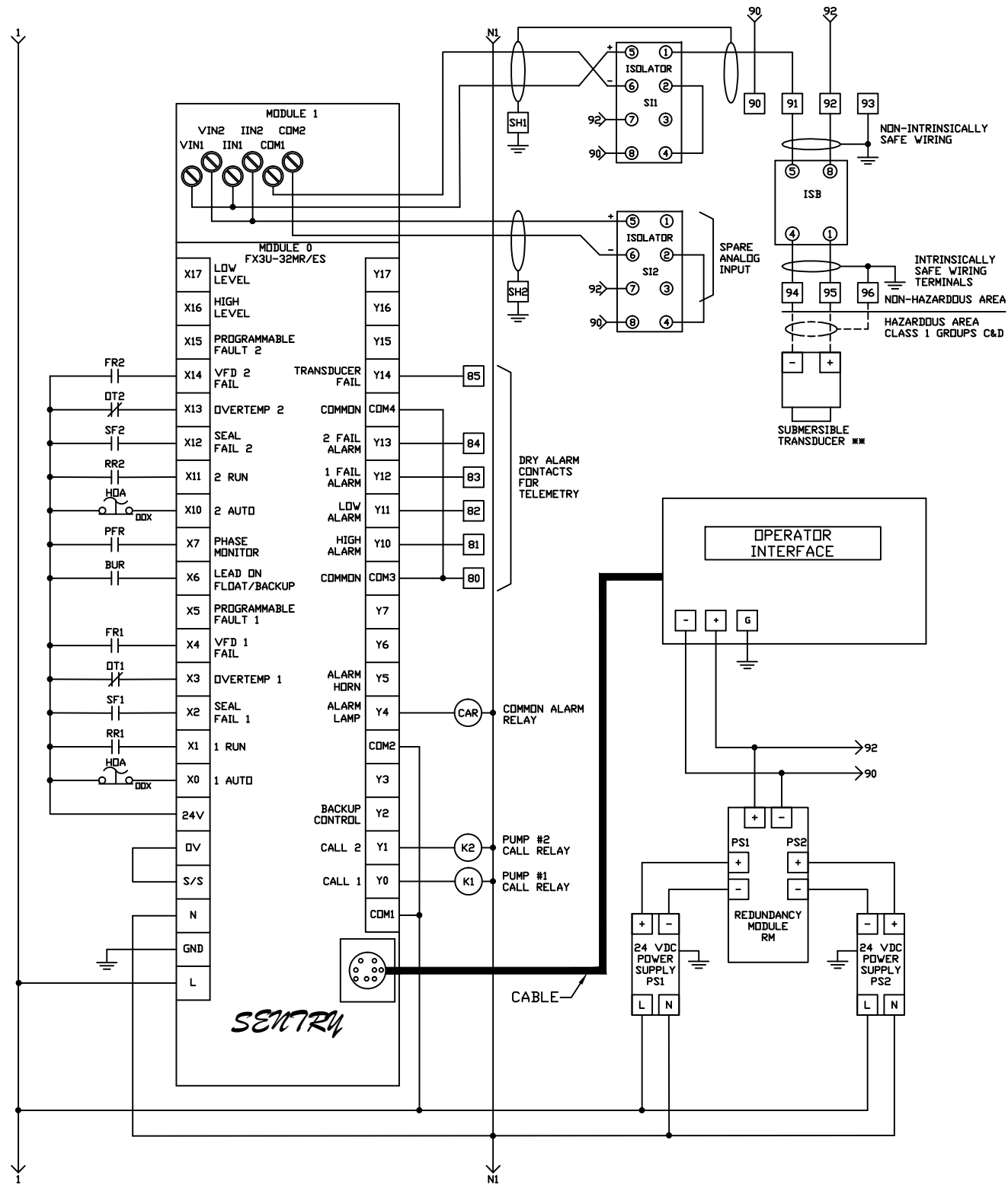




NOTES:
CONTROL PANEL SHALL BEAR SERIALIZED U.L. 698A LABEL.

* FLOAT TYPE LEVEL SENSING SWITCH IN SEWAGE WETWELL. CABLE LENGTH FROM WIRING TERMINALS TO SWITCH MUST BE LESS THAN 1000 FEET IN ACCORDANCE WITH DIVERSIFIED ELECTRONICS CONTROL DRAWING NO. 193.

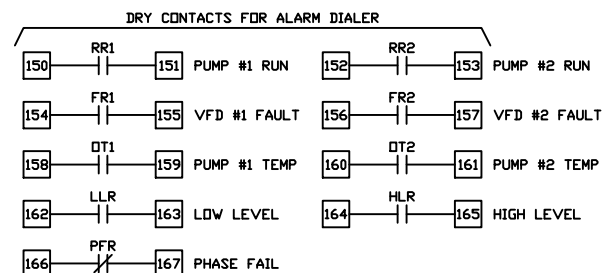
** TRANSDUCER TYPE LEVEL SENSING IN SEWAGE WETWELL. CABLE LENGTH FROM WIRING TERMINALS TO TRANSDUCER MUST BE LESS THAN 4150 FEET, OR A MAXIMUM OF .249uF CAPACITANCE AND 9.15mH INDUCTANCE.

THE DISTANCE BETWEEN INTRINSICALLY SAFE FIELD WIRING TERMINALS AND NON-INTRINSICALLY SAFE INTERNAL WIRING AND THE DISTANCE BETWEEN NON-INTRINSICALLY SAFE FIELD WIRING TERMINALS AND INTRINSICALLY SAFE INTERNAL WIRING SHALL NOT BE LESS THAN 5 INCHES. ALL INTRINSICALLY SAFE CIRCUITS MUST BE RUN IN SEPARATE CONDUITS OR RACEWAYS. NEC 504

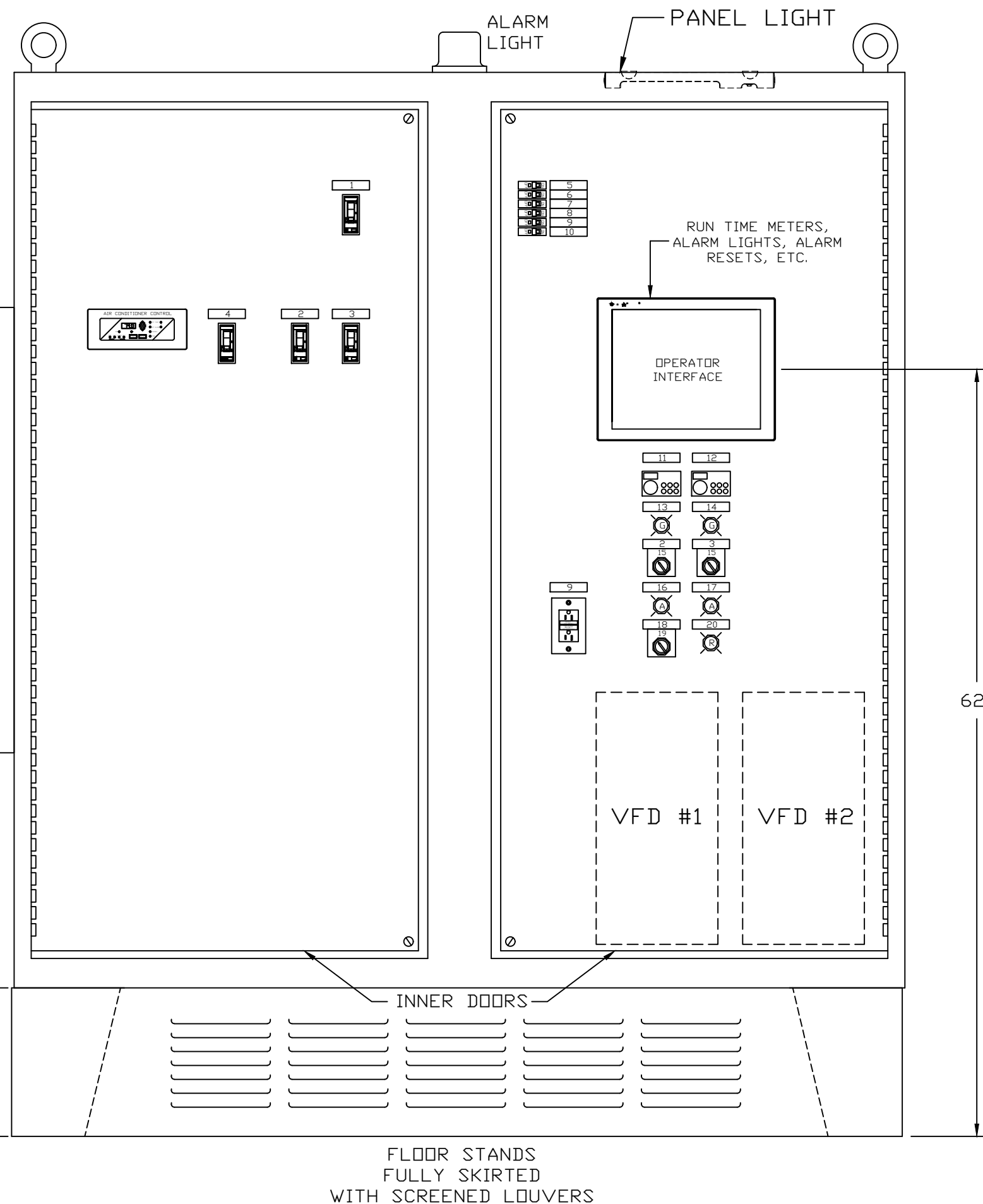
WIRING FROM GROUND TERMINAL MUST BE TO GOOD EARTHING MEMBER IN NON-HAZARDOUS AREA OF PANEL AND LESS THAN 1 OHM RESISTANCE. EARTH GROUNDING MUST BE IN 2 PLACES. NEC 250

INSTALL IN ACCORDANCE WITH ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE.

WARNING:
SUBSTITUTION OF COMPONENTS MAY IMPAIR THE INTRINSIC SAFETY.



REV. NO.	REVISION	BY	DATE	DESIGNED BY:	DATE	USEMCO USEMCO INCORPORATED P.O. BOX 550 (608) 372-5911 TOMAH W.I. 54660 DESCRIPTION SPRINGBROOK	DWG. NO. AAC 19058B	JOB NO.
		CHK'D		JD	4/12			
1	ADDED DRY ALARM CONTACTS FOR DIALER	JD	6/19	DRAWN BY:	DATE			
		JD	19	JD	19			
2	CORRECTED ISOLATOR WIRING	JD	8/9	CHECKED BY:	DATE			
		JD	19					
3	ADDED BUR1 RELAY	JD	9/11	SCALE				
		JD	19					



NEMA 4X
STAINLESS STEEL TWO DOOR ENCLOSURE
WITH 3-POINT PADLOCKABLE HANDLES
74"H x 72"W x 12"DP
OUTER DOORS NOT SHOWN

NAMEPLATE LEGEND

1. MAIN
2. PUMP 1
3. PUMP 2
4. AIR CONDITIONER
5. LOAD CENTER MAIN
6. CONTROL
7. HEATER
8. PANEL LIGHT
9. CONVENIENCE
10. SPARE
11. PUMP 1 VFD
12. PUMP 2 VFD
13. PUMP 1 RUN
14. PUMP 2 RUN
15. HAND OFF AUTO
16. PUMP 1 FAIL
17. PUMP 2 FAIL
18. CONTROL MODE
19. TRANSDUCER FLOAT
20. BACKUP RESET

REV. NO.	REVISION	BY CHK'D	DATE	DESIGNED BY: JD	DATE 4/24	USEMCO USEMCO INCORPORATED P.O. BOX 550 (608) 372-5911 TOMAH WI. 54660	
				DRAWN BY: JD	DATE 19		
				CHECKED BY:	DATE	DESCRIPTION SPRINGBROOK	
				SCALE		DWG. NO. PNL19058	JOB NO.

Bill of Materials

No.	Description	Unit	Status
CP19058	Springbrook	EA	Certified

Number	Description	Unit	Quantit
Operation 110 ASSEMBLE PANEL			
322296.2	LIGHT STROBE FEDERAL LP3S-120R	EA	1.00
361201	INSULATION ARMAFLEX 1/2x48x36	EA	12.00
365294	LATCH SPRING W/KNURLED KNOB #57-10-201-10	EA	4.00
420362.0430E	VFD 30HP 480V 47A MITSUBISHI #FR-F840-00470-E3-N6 F800 SERIES VARIABLE TORQUE ETHERNET COMMUNICATIONS 30 HP (SLD) 480VAC FRAME SIZE "F" NEMA 1 SLD INPUT RATING 58.4A SLD OUTPUT RATING 47A	EA	2.00
420380.07	VFD ADAPTOR MITSU FR-ADP PANEL MOUNTING ADAPTER FOR FR-DU07 AND FR-DU08 F700 AND F800 DRIVES	EA	2.00
421400	BREAKER PLUG-IN SQD QO110	EA	3.00
421406	BREAKER PLUG-IN SQD QO120	EA	2.00
421412	BREAKER PLUG-IN SQD QO130	EA	1.00
421494.07	BAR GROUND KIT SQD PK7GTA	EA	1.00
421494.21	RETAINING KIT SQD PK2MB	EA	1.00

421495	BREAKER INT ASSY QON6-12L100	EA	1.00
421700	BREAKER 2 PL SQD HDL 26015 25 KA @ 240 VAC 18 KA @ 480 VAC 14 KA @ 600 VAC	EA	1.00
421731	BREAKER 3 PL SQD HDL 36080 25 KA @ 240 VAC 18 KA @ 480 VAC 14 KA @ 600 VAC	EA	2.00
421739	BREAKER 3 PL SQD JDL 36200 25 KA @ 240 VAC 18 KA @ 480 VAC 14 KA @ 600 VAC	EA	1.00
422305	RELAY PROBE ATC DIVERSIFIED SPM-120-AAA-100K 4.7K-100K OHM DPDT	EA	2.00
422309.3	RELAY INT. SAFE ISO-120-ACE DIVERSIFIED 120 VAC FOUR CHANNELS WITH LED'S NON-LATCHING U.L. 913 LISTED	EA	1.00
422339.10	RELAY 10A IDEC RH2B-U-AC120V	EA	12.00
422339.30	RELAY 10A IDEC RH4B-U-AC120V	EA	6.00
422345	RELAY ALT 10A DIV. ARA-120-ABA QUOTE #BA101118-04	EA	1.00
422348.1	RELAY PH MNTR DIV. SUA-440-ASA QUOTE #BA101118-04	EA	1.00
422367.3	BARRIER INT SAFE PEPPERL+FUCHS #Z787	EA	1.00
423380.8	POWER SUPPLY PHOENIX 3.5 AMP 24VDC #2866747	EA	2.00
423380.80	REDUNDACY MODULE PHOENIX 24VDC #2320173	EA	1.00
423383.69	TVSS PHOENIX #2905228 PLT-SEC-T3-120-FM . REPLACES #28 56 81 2 PT-2-PE/S-120AC	EA	1.00

423386.15	TVSS CRITEC TDX100M480D 480 VOLT 3 PHASE 3W + GROUND 100KA PER PHASE AUDIBLE ALARM LED STATUS FORM A REMOTE CONTACTS	EA	1.00
423418	BLOCK TERMINAL ABB-GRAY #1SNK506010R0000 ZS6	EA	9.00
423418.0	BLOCK TERMINAL ABB-BLUE #1SNK506020R0000 ZS6-BL	EA	13.00
423418.1	BLOCK TERMINAL ABB-YELLOW #1SNK506060R0000 ZS6-YL	EA	28.00
423418.3	BLOCK TERMINAL ABB-GN/YL #1SNK506150R0000 GROUNDING ZS6-PE	EA	4.00
423418.4	END SECTION COVER ABB SNK #1SNK505910R0000 ES4	EA	2.00
423418.5	END STOP ABB-GRAY SNK #1SNK900001R0000 BAM3	EA	4.00
423480.1	SOCKET RD 8 PIN DIV. RB-08 RATED 10 AMP AT 600 VOLT	EA	1.00
423480.2	SOCKET RD 8 PIN IDEC SR2P-06	EA	2.00
423481.2	SOCKET RD 11 PIN IDEC SR3P-06	EA	2.00
423484	SOCKET MIDGET 2P IDEC SH2B-05	EA	12.00
423486	SOCKET MIDGET 4P IDEC SH4B-05	EA	6.00
425012.00	TIMER 120VAC DIVERSIFIED TBC-120-ABA ON DELAY - 1.0 to 1023 SECONDS QUOTE #BA101118-04	EA	2.00
425200.02	RTM 120VAC 60HZ ENM #T55A2A 6 DIGIT RESETTABLE HOUR METER	EA	2.00
425305	TRNSFMR 3KVA SQD #3S1F	EA	1.00

426115	FUSE 250V TIME-DELAY 20 AMP CLASS RK5 200,000 A.I.R. 2" LONG x 9/16" DIAMETER (BUSSMANN FRN-R-20) (LITTELFUSE FLN-R-20) (MERSEN TR-20R)	EA	1.00
426153	FUSE 600V TIME-DELAY 15 AMP CLASS RK5 200,000 A.I.R. 5" LONG x 13/16" DIAMETER (BUSSMANN FRS-R15) (LITTELFUSE FLS-R15) (MERSEN TRS15R)	EA	2.00
426211.0001	FUSE 600V FAST-ACTING 1 AMP CLASS CC 200,000 A.I.R. 1-1/2" LONG x 13/32" DIAMETER (BUSSMANN KTK-R-1) (LITTELFUSE KLKR-001) (MERSEN ATMR1)	EA	3.00
426516.2	BLOCK FUSE MARATHON 6CC30A3SQ 13/32" X 1 1/2" FUSE SIZE	EA	1.00
426521	BLOCK FUSE MARATHON F30A1S FOR 9/16" x 2" FUSES	EA	1.00
426521.15	BLOCK FUSE MARATHON 6F30A2B	EA	1.00
428905.1	WIRE DUCT BASE 1.5" x 3" PANDUIT F1.5 x 3 LG6 OR TYTON SL-1.5 x 3G	FT	20.00
428905.2	WIRE DUCT BASE 1" x 2" PANDUIT F1 x 2 LG6	FT	8.00
428908.1	WIRE DUCT COVER 1.5" PANDUIT C1.5LG6 OR TYTON TC1.5G	FT	20.00
428908.2	WIRE DUCT COVER 1" PANDUIT C1LG6	FT	8.00
429084.001	LABEL CAUTION (YELLOW) Caution: The distance between intrinsically safe field wiring terminals and non-intrinsically safe internal wiring and the distance between non-intrinsically safe field wiring terminals and intrinsically safe internal wiring shall not be less than 5 inches. All intrinsically safe circuits must be run in separate conduits or raceways. NEC 504	EA	1.00

429084.0020	LABEL CAUTION (ORANGE) WARNING: TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING.	EA	1.00
429084.003	LABEL INFORMATION (WHITE) INTRINSICALLY SAFE WIRING ONLY	EA	1.00
429084.004	LABEL INFORMATION (WHITE) INTRINSICALLY SAFE FIELD WIRING TERMINALS	EA	1.00
429084.005	LABEL CAUTION (YELLOW) Warning: Substitution of components may impair intrinsic safety.	EA	1.00
429084.006	LABEL UL ISR INFORMATION Provides intrinsically safe circuit extensions for use in Class _____ Groups _____ Hazardous Locations when connected per installation (Manual or Instructions) No. _____.	EA	1.00
429094.02	DECAL USEMCO 2 7/16"x7 1/8" .020 MILL ALUMINUM BLK PRINT W/468 ADHESIVE	EA	1.00
429094.04	DECAL USEMCO 2"x3" MADE IN USA	EA	1.00
429096.1	LABEL U.L. INDUSTRIAL PANEL UL-698A RELATING TO HAZARDOUS LOCATION WITH INTRINSICALLY SAFE CIRCUIT EXTENSIONS FILE NUMBER E183474 - WITH ASSIGNED UL NUMBER UL TO ASSIGN NUMBER AND SEND INFORMATION TO Empire Screen Printing N5206 Marco Road, Onalaska, WI 54650 FAX #608-783-3306 TO BE PRINTED	EA	1.00
429105	DECAL USEMCO LIMITED WARRANTY 1 YEAR 3" X 4.75" WHITE BACKGROUND BLACK LETTERS	EA	1.00

WORDING AS FOLLOWS:

All control panels manufactured by USEMCO, Inc.
are guaranteed to be free from defect in
workmanship and material for a period of one (1)
year from date of shipment.

Any part claimed defective will be either repaired
or replaced, our option, when returned to our
factory transportation charges paid. This
guarantee only covers defect which have developed
in the service for which the controls have been
designed.

The liability of the company shall not in any case exceed the cost of correcting defects in USEMCO'S controls or parts, upon the above mentioned one year, all such liability shall terminate.

USEMCO shall not in any event be liable for indirect or consequential damages.

USEMCO, Inc.
Tomah, WI 54660

429118.43	LABELS "WARNING" LABELTAC #LT46WARN ORANGE "WARNING" HEADER ON WHITE LABEL 4 X 6 DIECUT ORDER 200 PER ROLL	EA	1.00
432360.1	PLC, MITSU, FX3U, DC/RELAY FX3U-32MR/ES 16 DC IN AND 16 RELAY OUT	EA	1.00
432370	PLC, MITSU, 2 ANALOG IN FX2N-2AD	EA	2.00
432372	PLC, MITSU, 2 ANALOG OUT FX2N-2DA	EA	2.00
432390.1	PLC, MITSU, GOT 1000 CABLE GT01-C30R4-8P REPLACES FX-50DU-CAB0	EA	1.00
432396.3	PLC, MITSU, 15 OIT COLOR #GT2715-XTBD GT27 15" XVGA COLOR TOUCHSCREEN	EA	1.00
432507.3	MEMORY SECURE DIGITAL CARD 8GB TRANSCEND #TS8GSDHC10 OR EQUAL CLASS 10 PROSHOT SDHC PE225766	EA	1.00
450004	LINE REACTOR, MTE #RL-04503 480 VOLT - 30HP - 5% IMPEDANCE	EA	2.00
462357	RECEPT GFCI 15A 125V P&S 1597-I NEMA 5-15R 10KA RATING	EA	1.00
462899.10	ENCL N4X TWO DR HOF A74H7212SS LP3PT TYPE 304 STAINLESS STEEL WITH 3-POINT LATCHES	EA	1.00
463225.50	ENCL BP HOF A-72P72	EA	1.00
463344.50	SKIRT KIT, S/S HOFFMAN 12"H x 72"W SPECIAL TYPE 304 STAINLESS STEEL WITH	EA	1.00

	BRUSHED FINISH AND SCREENED LOUVERS TWO SKIRTS PER KIT		
463449.731	AIR COND ICEQUBE 6000 BTU S/S IQ6000VXS-236-SS-N4X-CP3-LA-XC-IHO-IHO4 240V 1 PHASE SIDE MOUNT STAINLESS STEEL NEMA TYPE 3R/4X CORROSIVE PACKAGE LOW AMBIENT PACKAGE REMOTE CONTROLLER INTERNAL HEAT OPTION 400W INTERNAL HEATER	EA	1.00
465497.85	CABLE ASSY CAT 5E PATCH CORD 14 FOOT LENGTH AUTOMATION DIRECT PN C5E-STPOR-S14 CAT-5E, STP, SHIELDED, ORANGE RJ45 TO RJ45	EA	2.00
469004	LUG ALUM SOLDERLESS MAX. #2 ILSCO TA-2, BLACKBURN ADR-2, BURNDY KA2U OR EQUAL	EA	3.00
469005.0018	LUG POWER KIT SQD #PDC6HD6 (6) 14-6 AWG (3) LUGS PER KIT	EA	1.00
469073.8	HEATER PANEL SCE-HF8001B SAGINAW 800 WATT 115 VOLT	EA	2.00
470018.6	CURRENT LOOP ISOLATOR PHOENIX 28 64 40 6 MINI MCR-SL-I-I	EA	8.00
470600	SWITCH SEL 2 SQD 9001 KS-11B	EA	1.00
470620	SWITCH SEL 3 SQD 9001 KS-43B	EA	2.00
472080	BLOCK CONTACT SQD 9001 KA1 ONE NORMALLY OPEN AND CLOSED	EA	7.00
480016.4	LIGHT LED STEGO 120V MAG MNT #02540.0-00-0003 ON/OFF SWITCH MAGNETIC MOUNT 13.8"	EA	1.00
480150	LIGHT SQD TRANS 9001 KT1R9 PUSH-TO-TEST	EA	1.00
480151.1	LIGHT SQD TRANS 9001 KP1G9	EA	2.00

480151.502	LIGHT SQD TRANS 9001 KP1Y9	EA	2.00
500549.135AL	FLANGE, INNERDOOR 8"x 3.5"	EA	4.00
500573.10AL	INNERDOOR 74x72x20 N4X 3-PT 24"DP	EA	2.00
500586.X02	STANDOFF BOTTOM LEG SQD H SERIES ADJUSTABLE 4 1/4 - 6 3/8"	EA	2.00
500586.X03	STANDOFF BOTTOM LEG SQD J SERIES ADJUSTABLE 4 1/4 - 6 3/8"	EA	2.00
500586.X04	STANDOFF BOTTOM LEG DIST 6 & 8 CIRCUIT SQD QON LOAD CENTER ADJUSTABLE 4 1/4 TO 6 3/8" DEPTH	EA	2.00
500586.Z11	STANDOFF TOP PLATE SQD 3-HXL	EA	1.00
500586.Z12	STANDOFF TOP PLATE SQD 1-JXL	EA	1.00
500586.Z15	STANDOFF TOP PLATE DIST 6 & 8 CIRCUIT SQD QON LOAD CENTER	EA	1.00
Operation 210 SHIP LOOSE ITEMS			
320323	FLOAT ECO SUSP MT GSI50NO NON-MERCURY	EA	4.00
470017.411	TRANSDUCER BLUE RIBBON BIRDCAGE #01-001-AA-CZ 5PSI, 4-20mA, 50FT CABLE	EA	1.00