COX

Research and Technology, Inc.

SIMPLEX PUMP
CONTROL PANEL
BARKSDALE AFB
WATER AND FUEL TANK

Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

CP-1549

VOLTAGE	120/208V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	1	
HP	2	
FLA	12.5	
TYPE OF PUMP	Self–Priming	(Self–Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

OPTIONS:

SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self–Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER		
PHASE MONITOR		
NEMA RATED STARTERS		
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET	X	
ECONOMY VERSION		

SOLD TO: Delta Process, Denham Springs
TAG : Barksdale AFB
Water & Fuel Tank

SHIP TO: Delta Process, Bossier City

Drawing Title

PANEL DESCRIPTION

DATE 4/10/03

REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY

S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE

Project Title

SIMPLEX CONTROL PANEL

COX
Research and Technology, Inc.

P.O. Box 77808
Baton Rouge, LA
70809

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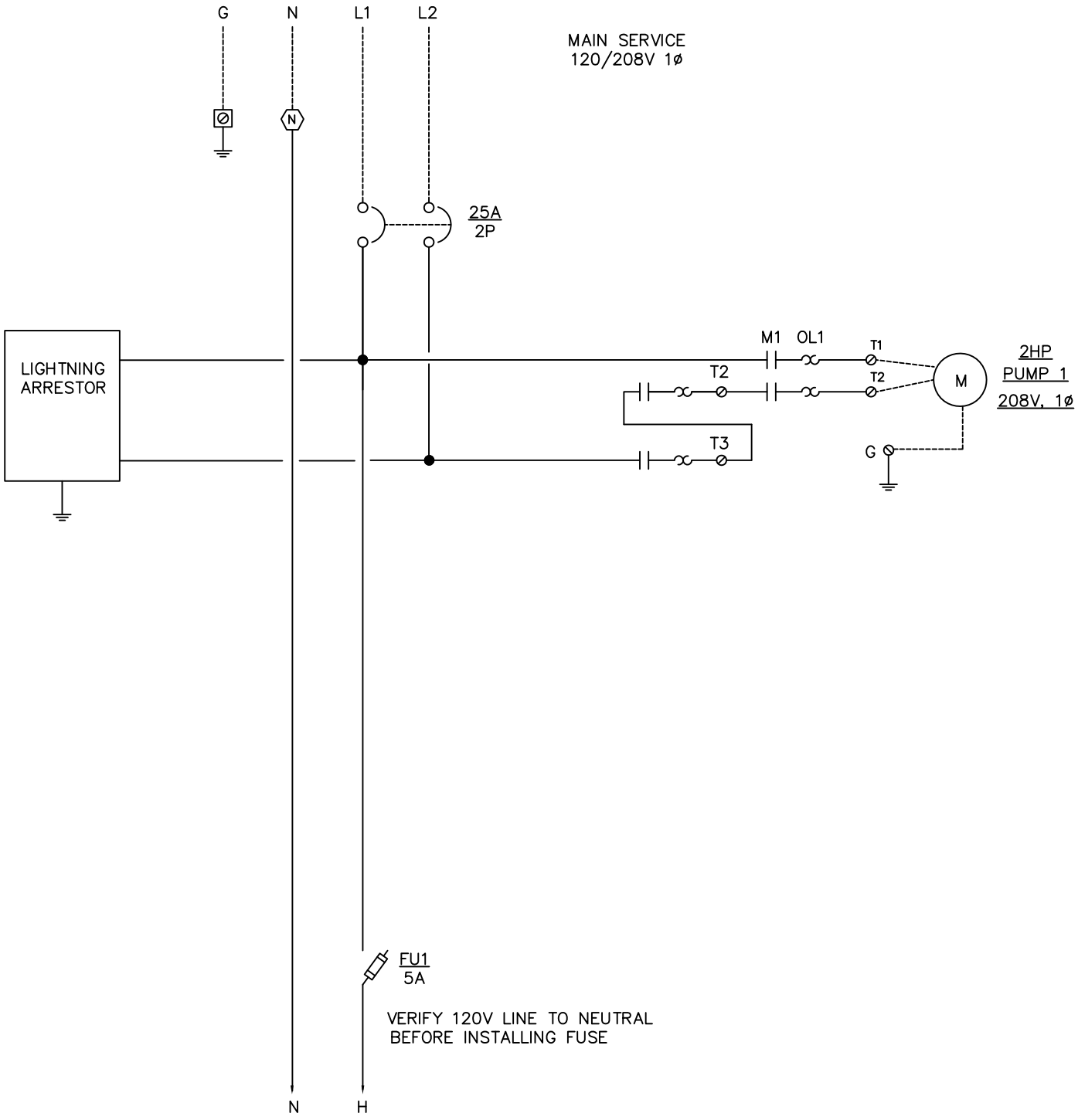
PURCHASE ORDER NUMBER

DRAWING NUMBER CP-1549

SHEET NUMBER 1



	Drawing Title							
	POWER DIAGRAM							
DATE 4/10/03		REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY	DATE
	Project Title						PURCHASE ORDER NUMBER	
	SIMPLEX CONTROL PANEL						DRAWING NUMBER	CP-1549
							SHEET NUMBER	2

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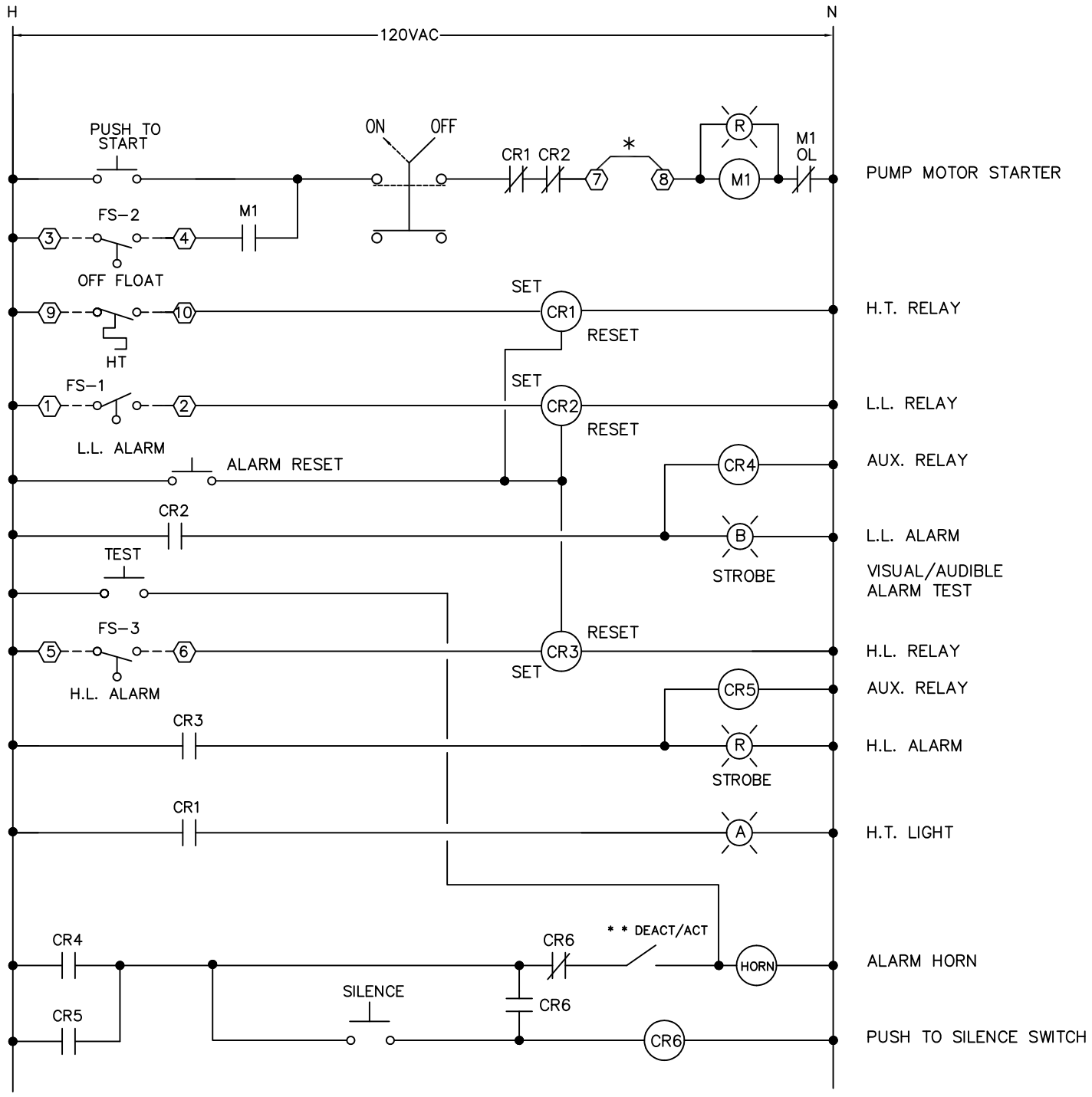
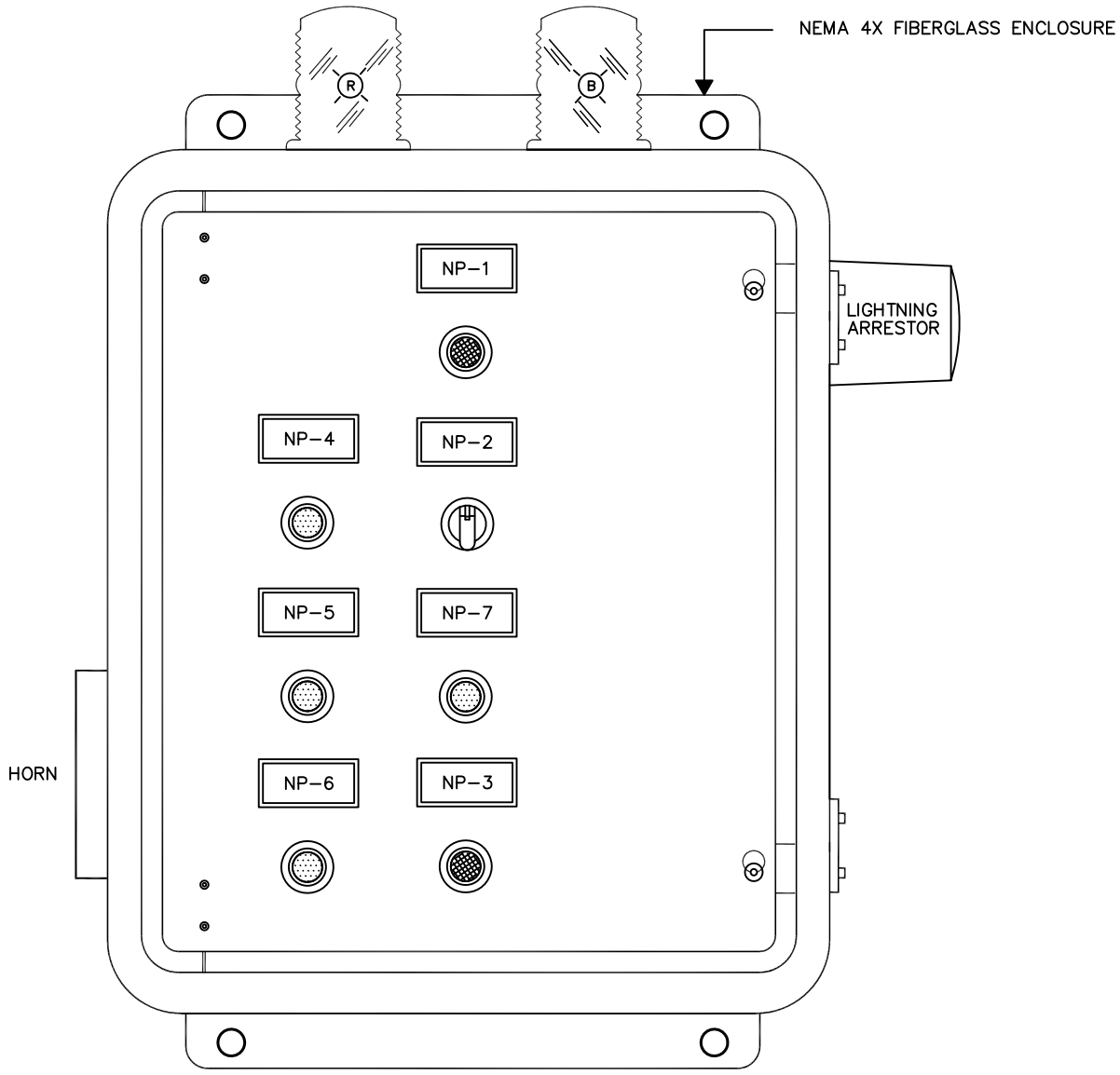


* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

* * DEACTIVATE/ACTIVATE SWITCH LOCATED ON BACKPLATE

	Drawing Title: CONTROL DIAGRAM							
DATE 4/10/03		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	APPROVED DATE	
	Project Title: SIMPLEX CONTROL PANEL	COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER	DRAWING NUMBER CP-1549	SHEET NUMBER 3	



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	RUN
NP-2	OFF-ON
NP-3	PUSH TO START
NP-4	ALARM RESET
NP-5	ALARM TEST
NP-6	HORN SILENCE
NP-7	HIGH TEMP

NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL. PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE PANEL TO PREVENT ENTRY OF GASSES.

Drawing Title

ENCLOSURE

DATE 4/10/03

REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY

S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.	R.C.	BY C. RACHAL	BY	DATE

Project Title

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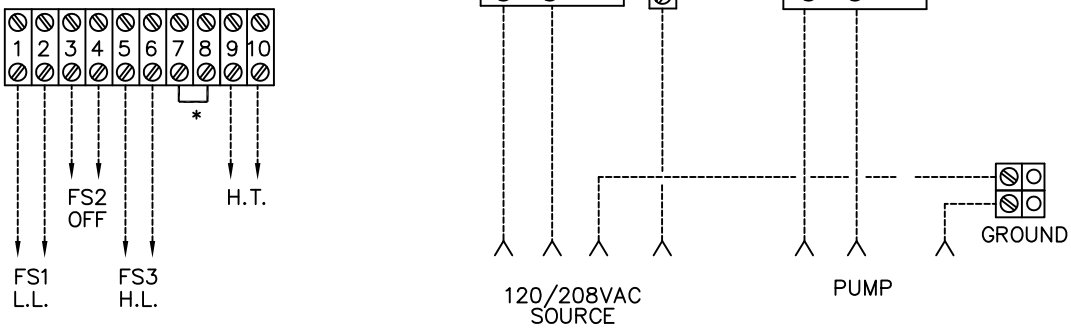
PURCHASE ORDER NUMBER

DRAWING NUMBER CP-1549

SHEET NUMBER 4

FS1 – FLOAT SWITCH 1
L.L. ALARM
FS2 – FLOAT SWITCH 2
PUMP OFF
FS3 – FLOAT SWITCH 3
HIGH LEVEL ALARM
HT – HIGH TEMP PROBE



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title							
	EXTERNAL CONNECTIONS							
DATE 4/10/03		REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	APPROVED DATE	
	Project Title							
	SIMPLEX CONTROL PANEL							

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PURCHASE ORDER NUMBER

DRAWING NUMBER CP-1549

SHEET NUMBER 5

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	ABB	A16-30-10-84	MOTOR STARTER
3	1	ABB	TA25DU14	O.L. RELAY (10-14A)
4	1	SQUARE D	QOU225	CIRCUIT BREAKER
5	1	ACI	JR22FR	RED PIOLT LIGHT
6	1	ACI	JR22P2M11B	OFF/ON SWITCH
7	1	ACI	JR22FY	YELLOW PILOT LIGHT
8	3	ACI	JR22AN11B	P.B. RESET
9	1	CH	CHSA01	LIGHTNING ARRESTER
10	1	FEDERAL SIGNAL	LP3P120B	BLUE STROBE
11	1	FEDERAL SIGNAL	LP3P120R	RED STROBE
12	3	P & B	KUL-11A15S-120	LATCHING RELAY CR1,2,3
13	3	OMRON	G2R2SAC120	CONTROL RELAYS
14	1	EDWARDS	870P-N5	HORN
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

Drawing Title

BILL OF MATERIALS

DATE 4/10/03

REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
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SHEET NUMBER 6