
COX

Research and Technology, Inc.

CORNERSTONE DUPLEX PUMP CONTROL PANEL

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

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	10	
FLA	26	
TYPE OF PUMP	Self Priming	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER		
CONTROL VOLTAGE	24VAC	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Float Switch	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

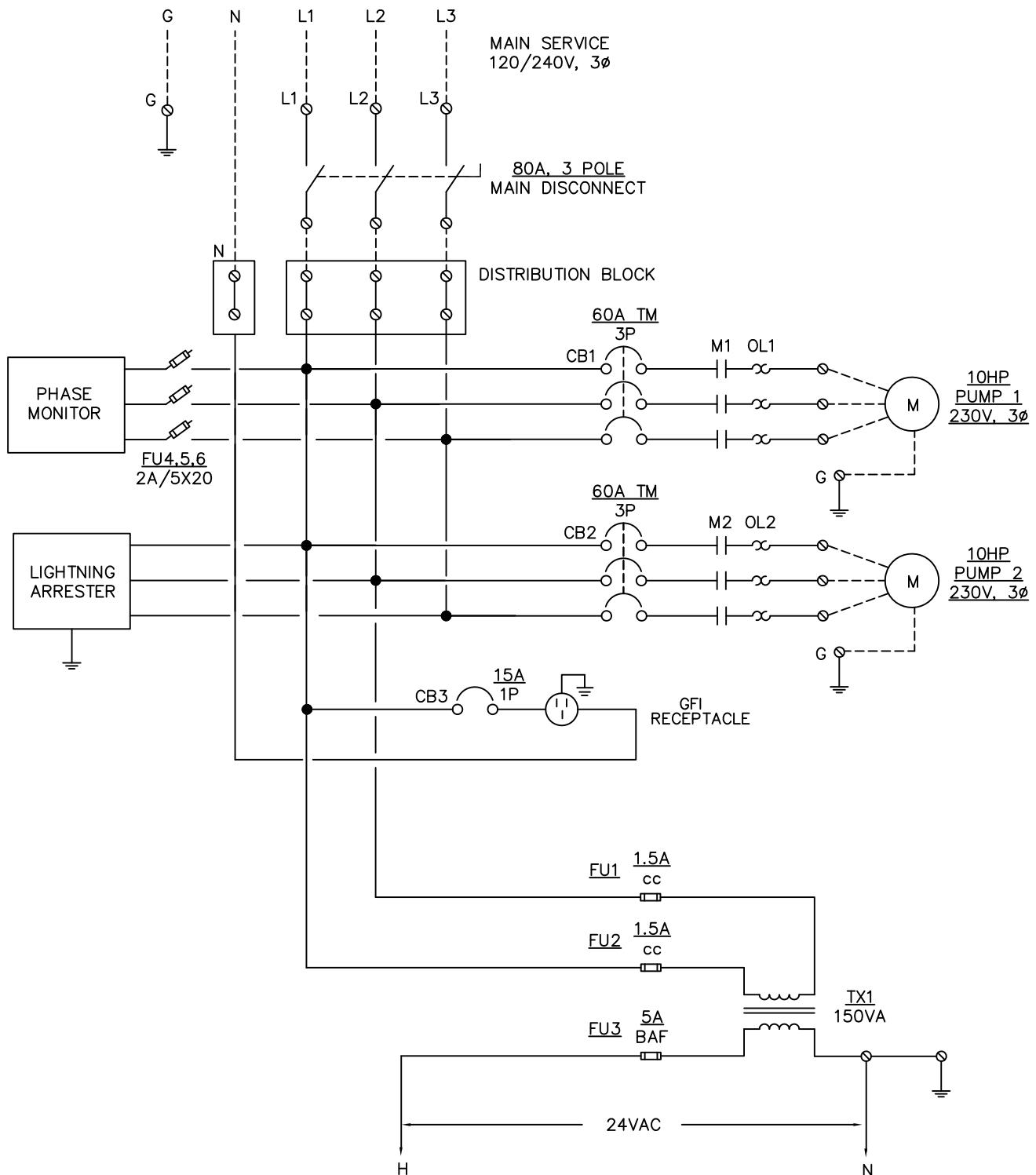
OPTIONS:

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	X	
LIGHT FLASHER	X	
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS	_____	
GROUND FAULT RECPT.	X	
GREEN RUN LIGHTS VS. RED	X	
POLE, BOX, SEAL	_____	
INTRINSICALLY SAFE RELAYS	_____	
HIGH TEMP. LOCKOUT, MANUAL RESET	X	
ECONOMY VERSION	_____	

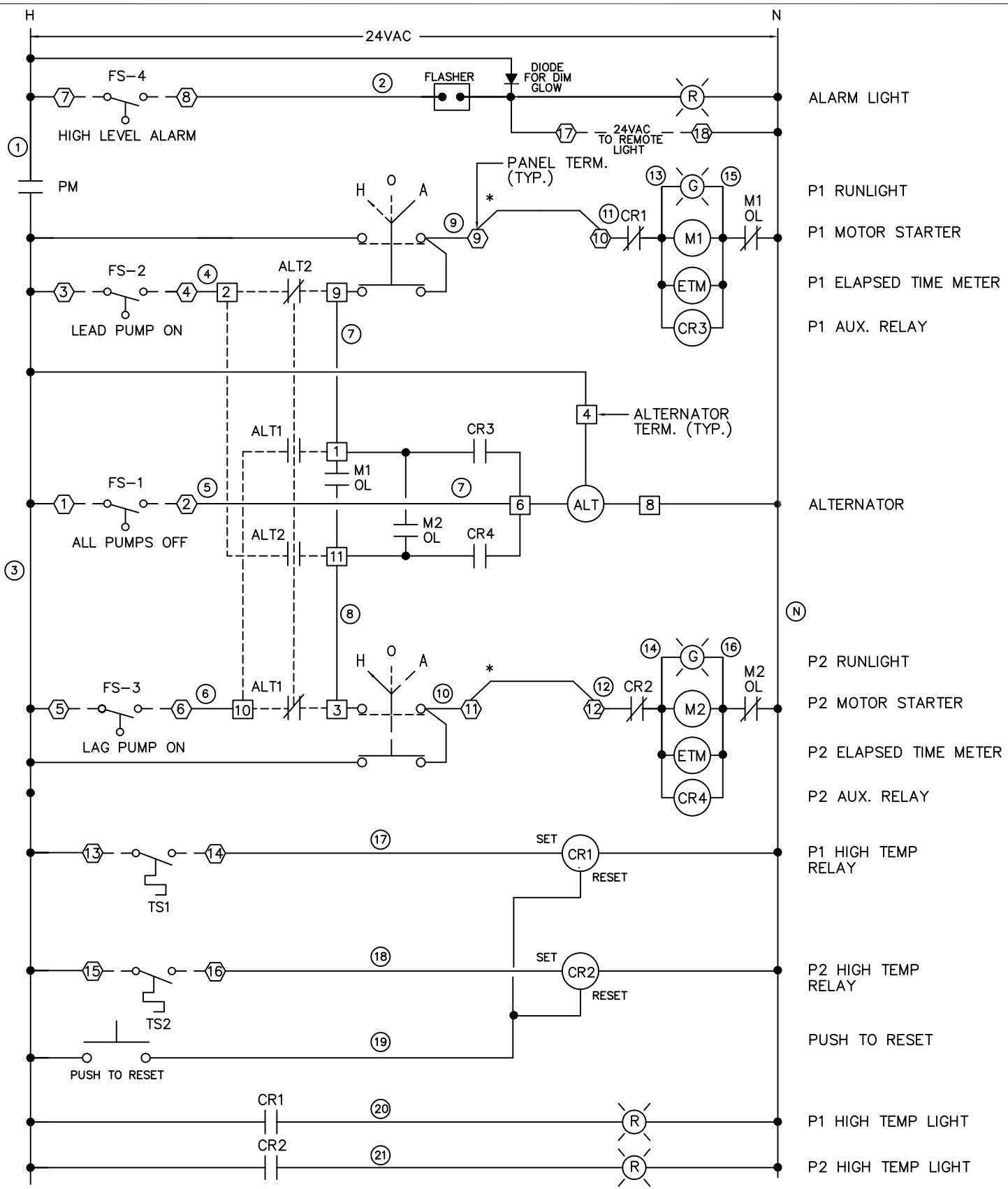
SOLD TO: Delta Process - Bossier City, LA
TAG : CORNERSTONE

SHIP TO: Delta Process - Shreveport, LA

Drawing Title	PANEL DESCRIPTION		REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
						DATE APPROVED BY	DATE APPROVED BY	DATE BY
DATE 10/17/03	Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER				
			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1685				
				SHEET NUMBER 1				

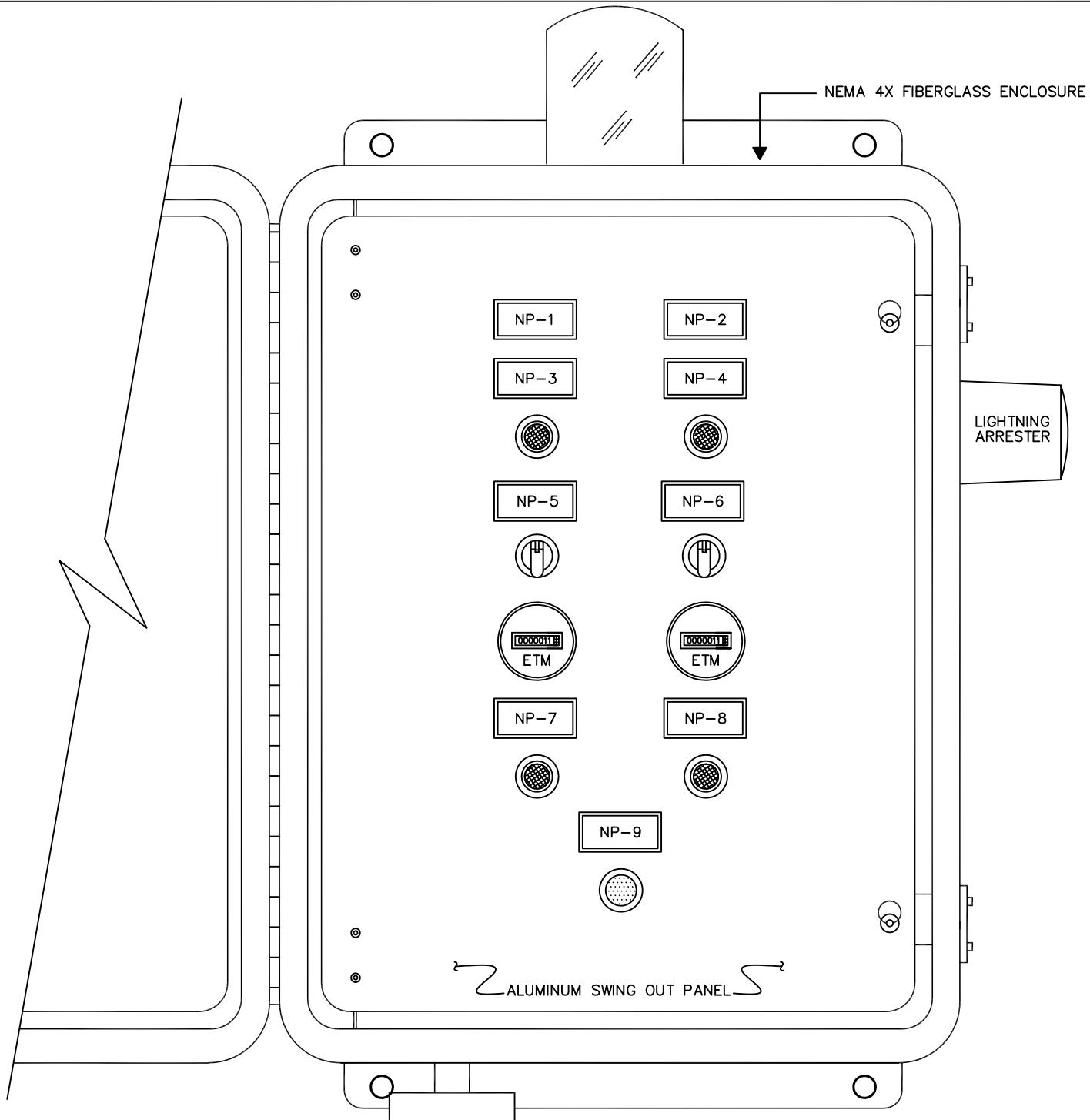


	Drawing Title							
	POWER DIAGRAM							
DATE 10/17/03	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY		
	Sales Engineer	Application Engineer R.C.					APPROVED BY	
	Project Title		COX Research and Technology, Inc.		PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL							
			P.O. Box 77808 Baton Rouge, LA 70809		DRAWING NUMBER CP-1685			
			Ph. (225)756-3271 Fax (225)756-1030		SHEET NUMBER 2			



HIGH TEMP LOCKOUT, MANUAL RESET

* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

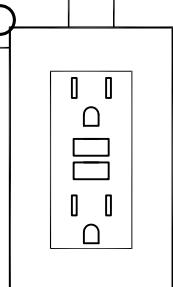


VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	HIGH TEMP
NP-8	HIGH TEMP
NP-9	HIGH TEMP RESET

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					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 10/17/03	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY C. RACHAL	BY DATE	
	Project Title	<hr/> <hr/> <hr/> COX <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			DRAWING NUMBER	
					CP-1685	
					SHEET NUMBER	
					4	

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM30240RL	ENCLOSURE
1a	1	ALLIED	A30240P	BACKPLATE
1b	1	ALLIED	A30240SP	DEAD FRONT
2	2	SQUARE D	8911DPS033V14	MOTOR STARTER
3	2	SQUARE D	B32.0	O.L. HEATER
4	2	SQUARE D	QOU360	CB1, CB2
5	2	ACI	JR22FR	RED PILOT LIGHT
6	2	ACI	JR22P3M20B	HOA SWITCH
7	2	GRASSLIN	UWZ48E	ETM
8	1	SQUARE D	QOU115	CB3
9	1	MARATHON	1323580	DISTRIBUTION BLOCK
10	1	MARATHON	1321580	NEUTRAL BLOCK
11	1	SSAC	PLMU-11	PHASE MONITOR
12	1	ABB	OT63E3	MAIN DISC. SWITCH
13	2	ACI	JR22FG	GREEN PILOT LIGHT
14	1	ACI	JR22AN11B	PUSH BUTTON
15	1	CH	CHSA03	LIGHTNING ARRESTER
16	1	TIMEMARK	261DT24	ALTERNATOR
17	1	SQUARE D	9999S04	O.L. AUX. CONTACTS
18	1	AC/DC	BL5-R-24	H.L. LIGHT
19	1	FEDERAL SIGNAL		REMOTE ALARM LIGHT
20	1	STOCK		GFI
21	2	IDECA	RH2LBUAC24V	LATCHING RELAY
22	2	IDECA	SH3B-05	BASE
23	1	ABB	T4150PSF1	TRANSFORMER

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 10/17/03			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
				C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title		COX			PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.			DRAWING NUMBER CP-1685			
						SHEET NUMBER 5			