
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL KCS 10 H.P.

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

CP1442

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	10	
FLA	14	
TYPE OF PUMP	SP	
MANUFACTURER		
CATALOG NUMBER		

CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	SS	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

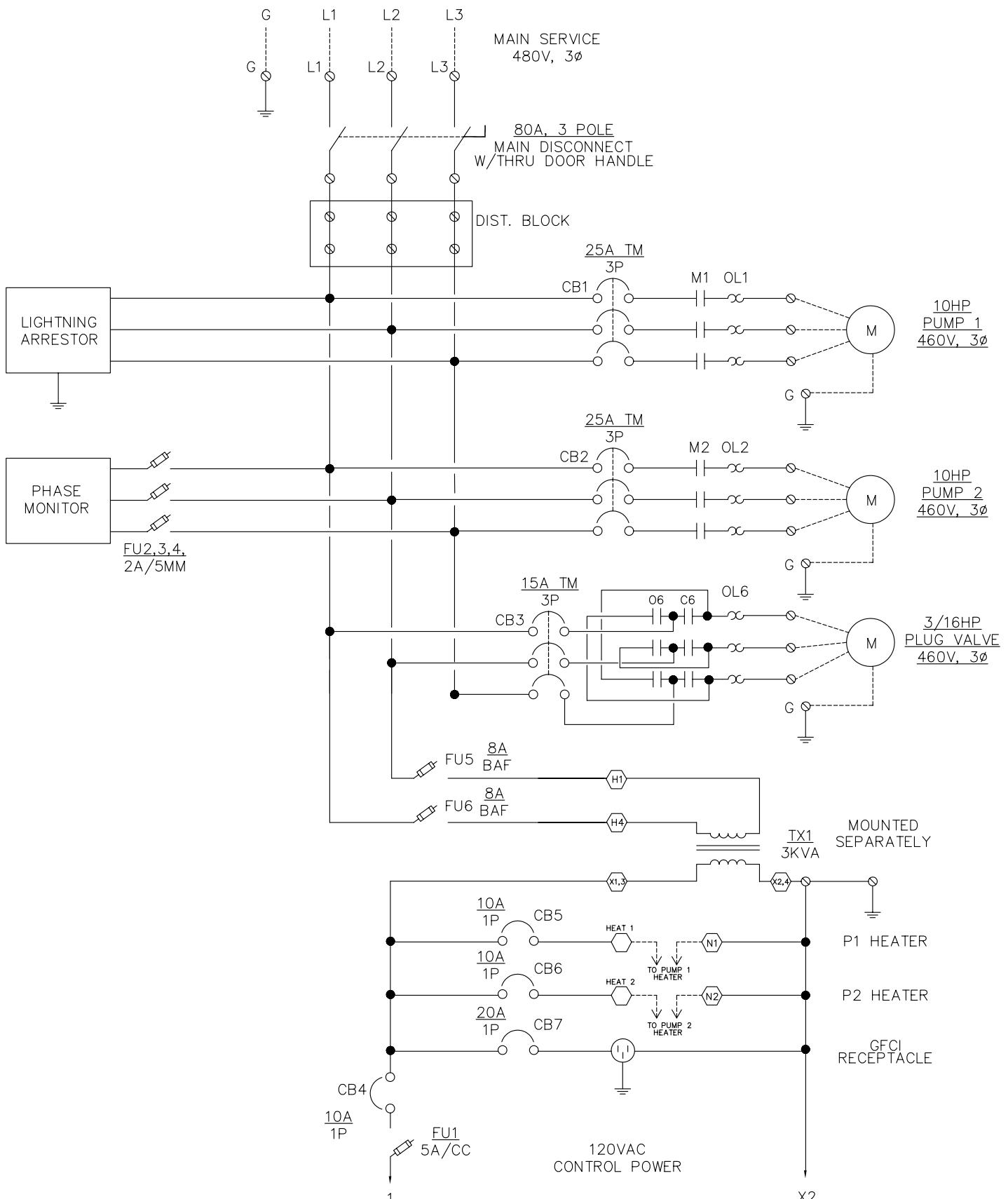
OPTIONS:

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	X	
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTOR	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS	X	
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 : KCS 10 H.P.

SHIP TO: Delta Process - Denham Springs, LA

Drawing Title	PANEL DESCRIPTION						ECN	DATE	BY
	REFERENCE DRAWING		NO.	REVISION-LOCATION					
DATE 7/08/02	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED				
	C.C.		R.C.	BY CTR	BY				
Project Title	<hr/> COX <hr/> Research and Technology, Inc. <hr/>						PURCHASE ORDER NUMBER		
DUPLEX PUMP CONTROL PANEL							DRAWING NUMBER		
							CP1442		
							SHEET NUMBER		
							1		



Drawing Title

POWER DIAGRAM

DATE
7/08/02

Project Title

DUPLEX PUMP
CONTROL PANEL

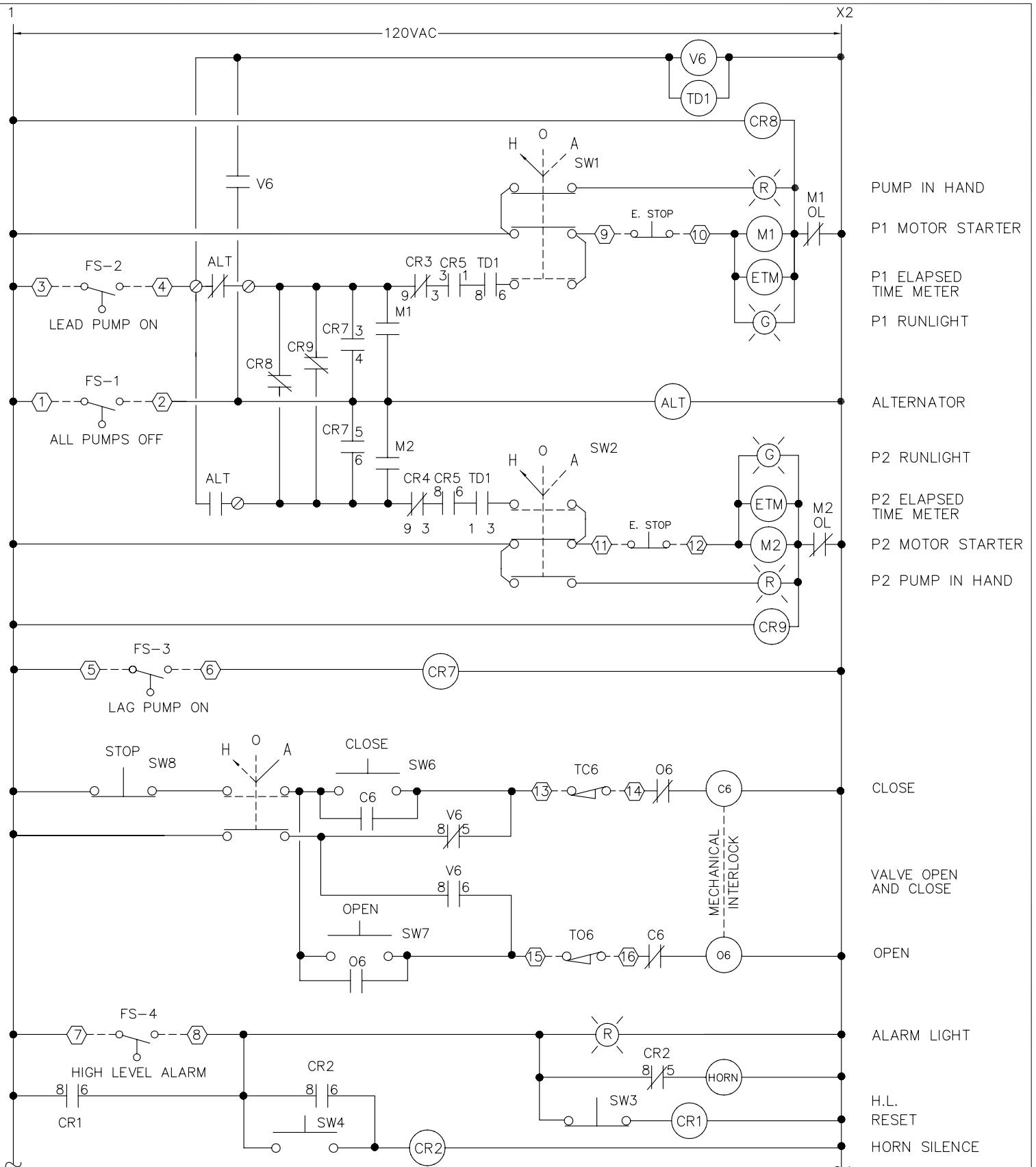
COX
Research and Technology, Inc.

P.O. Box 77808
Baton Rouge, LA
70809Ph. (225)756-3271
Fax (225)756-1030

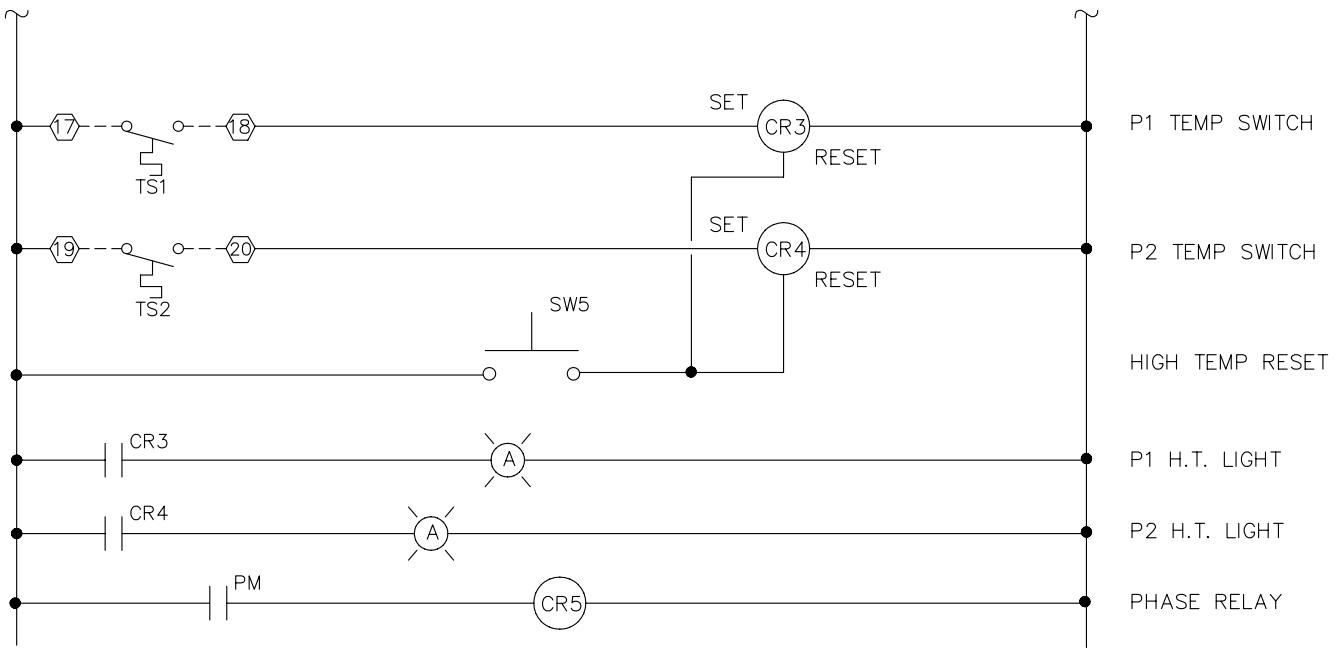
PURCHASE ORDER NUMBER

DRAWING NUMBER CP1442

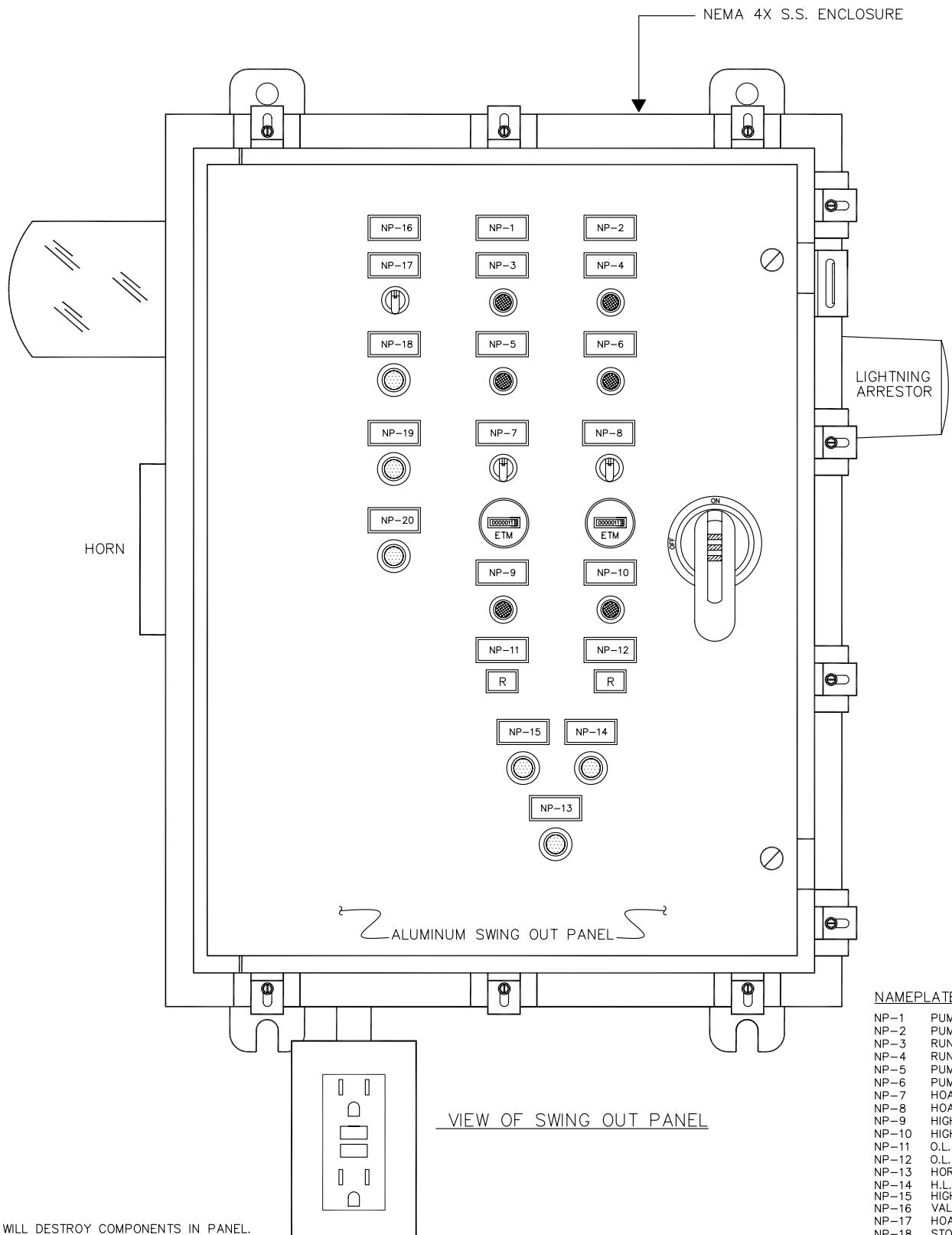
SHEET NUMBER



	Drawing Title CONTROL DIAGRAM					
DATE 7/08/02		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY DATE
	Project Title DUPLEX PUMP 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 CP1442 SHEET NUMBER 3	



	Drawing Title						
	CONTROL DIAGRAM						
DATE 7/08/02		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY	BY DATE
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 CP1442		
					SHEET NUMBER 4		



NAMEPLATE SCHEDULE	
NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	PUMP IN HAND
NP-6	PUMP IN HAND
NP-7	HOA
NP-8	HOA
NP-9	HIGH TEMP
NP-10	HIGH TEMP
NP-11	O.L. RESET
NP-12	O.L. RESET
NP-13	HORN SILENCE
NP-14	H.L. RESET
NP-15	HIGH TEMP RESET
NP-16	VALVE
NP-17	HOA
NP-18	STOP
NP-19	OPEN
NP-20	CLOSE

	Drawing Title								
	ENCLOSURE	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
DATE 7/08/02		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED			
			C.C.	R.C.	BY CTR	BY	DATE		
Project Title	DUPLEX PUMP CONTROL PANEL	<hr/> COX <hr/> Research and Technology, Inc. <hr/>		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER				
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER		CP1442		
					SHEET NUMBER		5		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S362410N4X	ENCLOSURE
1a	1	EBE	A3624P	BACKPLATE
1b	1	EBE	A3624SP	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	FURNAS	14DP32BF81	MOTOR STARTER
4	6	FURNAS	K57	O.L. RELAY (14A)
5	2	ABB	S3N025TW	CB1, CB2
6	1	FURNAS	47AB10AF	ALTERNATING RELAY
7	1	SQUARE D	3S1F	TRANSFORMER
8	1	AC/DC	BL5-R-120	ALARM LIGHT
9	1	C-H	CHSA03	LIGHTNING ARRESTER
10	1	SSAC	PLMU-11	PHASE MONITOR
11	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
12	1	EDWARDS	870PN5	HORN
13	2	P&B	KUL-11A15S-120	LATCHING RELAY CR 3,4
14	1	OMRON	2 SAC 120	CR7
15	2	A-B	800-QR10R	RED PILOT LIGHT
16	2	A-B	800-QR10G	GREEN PILOT LIGHT
17	2	A-B	800-QR10A	AMBER PILOT LIGHT
18	3	A-B	800H-JR2A	HOA SWITCH
19	6	A-B	800H-AR2A	P.B.
20	1	ABB	0HB65L5	DISC. SWITCH HANDLE
21	1	ABB	0XP5X265	DISC. SWITCH SHAFT
22	1	ABB	S3N015TW	CB3
23	1	ABB	A9M-30-10-84	MECH. INT. CONTACTOR
24	1	DAYTON	6A854	TIME DELAY RELAY
25	1	STOCK		GFI W/WEATHER PROOF BOX
26	1	HOFFMAN		6 MTH SUPPLY DESSICANT PKS
27	3	SQ D	QOU 110	CB 4,5,6
28	3	MARATHON	6SC30A1I	FUSE HOLDER
29	1	SQ D	QOU 120	CB 7
30	1	BUSSMAN	16220-3	DIST. BLOCK
31	4	DAYTON	5Z454	CR1,2,5,6
32	2	OMRON	1SAC120	CR8,9
33	1	ABB	TA25DU0.63	O.L.6

DATE 7/08/02	Drawing Title BILL OF MATERIALS						
		REFERENCE DRAWING S/N	DRAWING Sales Engineer C.C.	NO. Application Engineer R.C.	REVISION-LOCATION DRAWN BY CTR	ECN	DATE APPROVED BY
Project Title DUPLEX PUMP CONTROL PANEL	 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 CP1442	
						SHEET NUMBER 6	