
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	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>10</u>	
FLA	<u>14</u>	
TYPE OF PUMP	<u>SP</u>	(Self-Priming, Submersible)
MANUFACTURER	<u></u>	
CATALOG NUMBER	<u></u>	
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>SS</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u>Floats</u>	(Floats, Bubbler, Other)
CAPACITORS	<u>No</u>	(Yes, No)
CAPACITOR WIRING FIGURE	<u>N/A</u>	
THERM. & SEAL FAIL WIRING FIGURE	<u></u>	

OPTIONS:

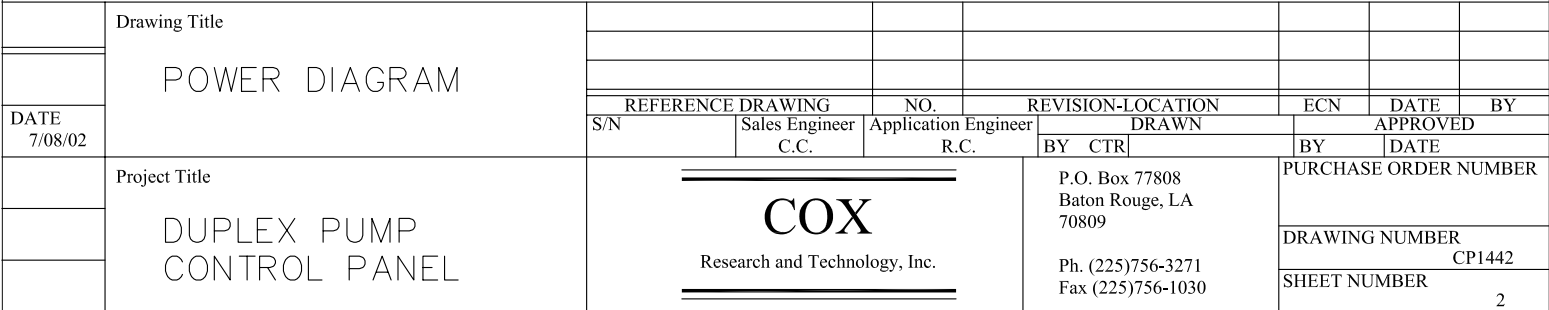
SEAL FAIL LIGHTS	<u></u>	(Submersible Only)
SEAL FAIL RELAYS	<u></u>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	<u></u>	(Submersible Only)
HT PUMP SHUTDOWN	<u>X</u>	(Self-Primer, Submersible)
ALARM HORN	<u>X</u>	
ALARM LIGHT	<u>X</u>	
LIGHT PANEL MTD	<u>X</u>	
LIGHT REMOTE MTD	<u></u>	
LIGHT FLASHER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

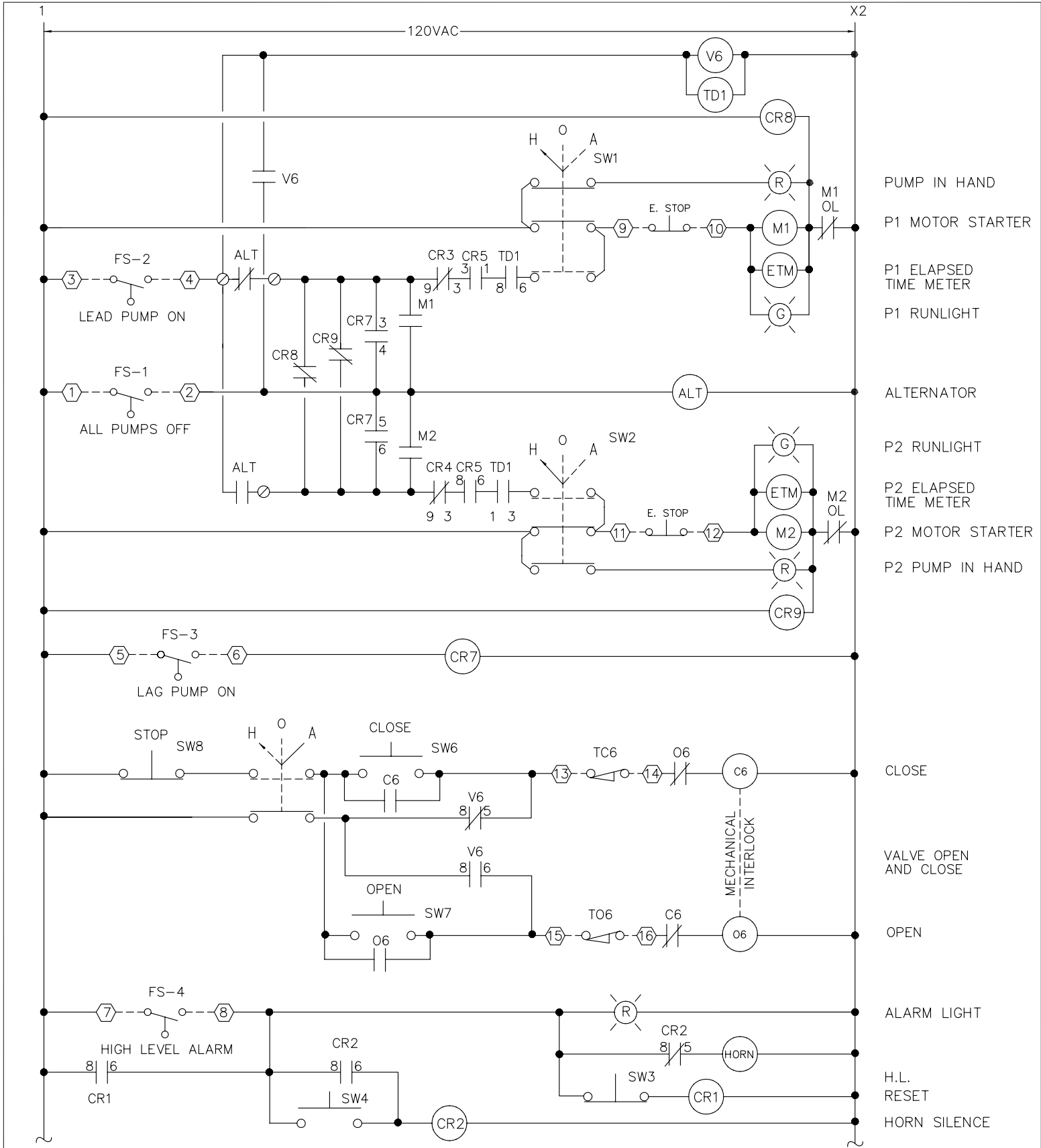
SOLD TO: Delta Process - Bossier City, LA

TAG : KCS 10 H.P.

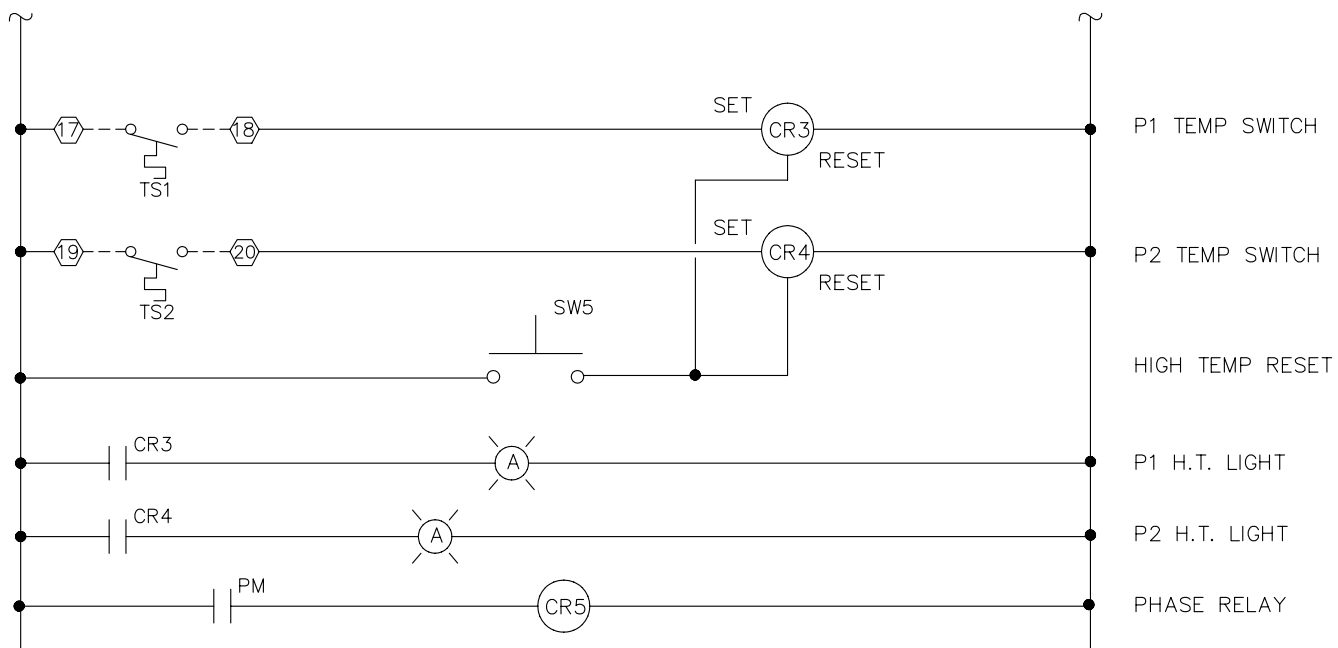
SHIP TO: Delta Process - Denham Springs, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE 7/08/02		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY CTR	ECN	DATE
	Project Title	<div style="text-align: center;"> COX Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
	DUPLX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP1442
							SHEET NUMBER 1

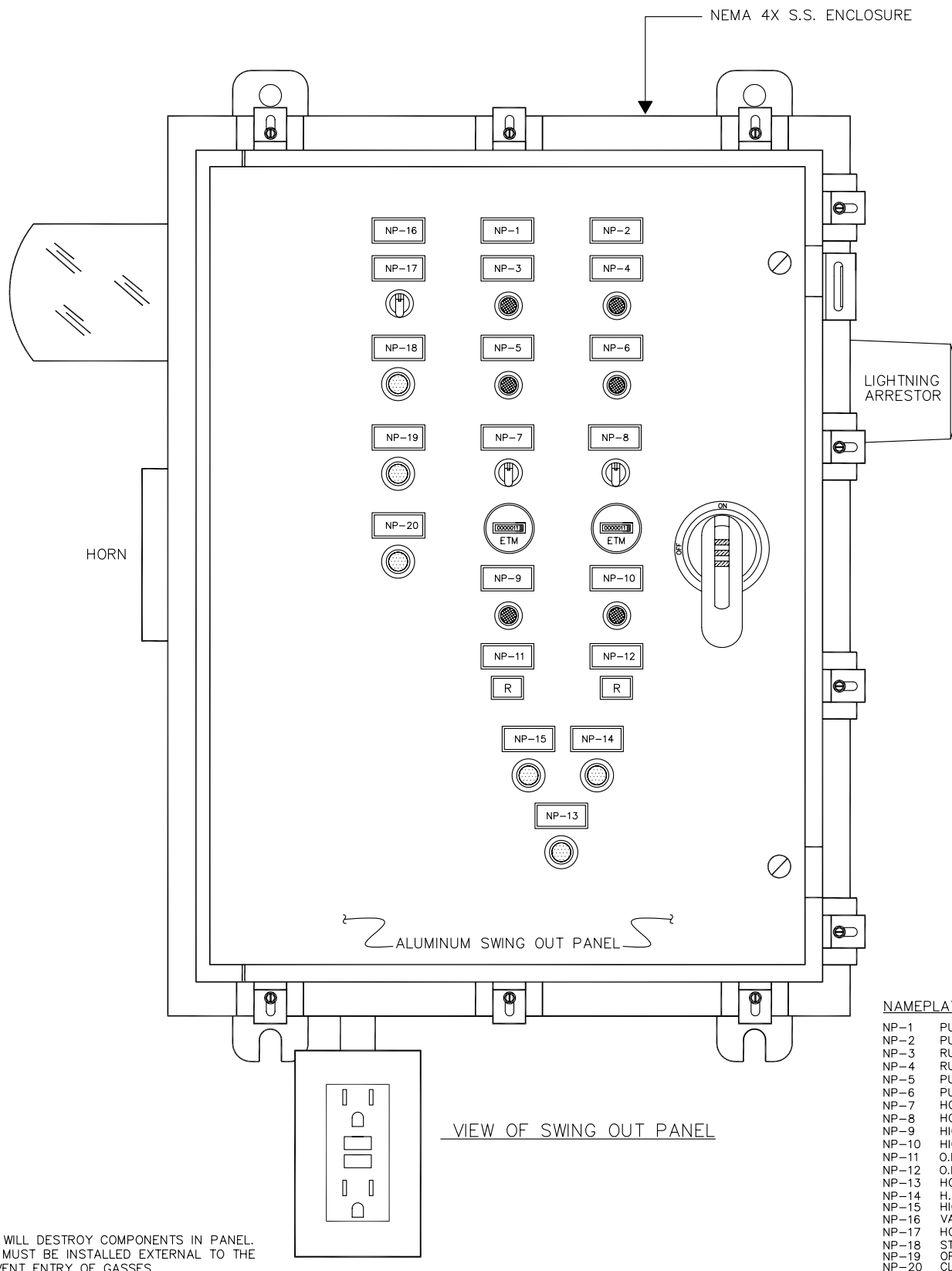




Drawing Title									
CONTROL DIAGRAM									
DATE 7/08/02	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	DATE	BY
	S/N		Sales Engineer C.C.		Application Engineer R.C.		DRAWN		APPROVED
Project Title						BY CTR		BY	DATE
DUPLEX PUMP CONTROL PANEL						P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
						Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP1442	
								SHEET NUMBER 3	



	Drawing Title							
	CONTROL DIAGRAM							
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
7/08/02		S/N	Sales Engineer	Application Engineer				
			C.C.	R.C.	BY	CTR	BY	DATE
	Project Title				PURCHASE ORDER NUMBER			
	DUPLEX PUMP	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808		DRAWING NUMBER	
	CONTROL PANEL				Baton Rouge, LA		CP1442	
					Ph. (225)756-3271		SHEET NUMBER	
					Fax (225)756-1030		4	



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		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
7/08/02		S/N	Sales Engineer	Application Engineer					
			C.C.	R.C.	BY	CTR	BY	DATE	
	Project Title								PURCHASE ORDER NUMBER
	DUPLEX PUMP								
	CONTROL PANEL								
									DRAWING NUMBER
									CP1442
									SHEET NUMBER
									5

COX

Research and Technology, Inc.

P.O. Box 77808
Baton Rouge, LA
70809

Ph. (225)756-3271
Fax (225)756-1030

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	OHB65L5	DISC. SWITCH HANDLE
21	1	ABB	EXP5X265	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

	Drawing Title						
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>						
DATE 7/08/02		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
				DRAWN BY CTR	APPROVED BY DATE		
	Project Title	<div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px;"> <h1 style="margin: 0;">COX</h1> <p style="margin: 0;">Research and Technology, Inc.</p> </div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER <div style="text-align: right;">CP1442</div> SHEET NUMBER <div style="text-align: right;">6</div>
	DUPLEX PUMP CONTROL PANEL						