
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
EXXON AFRICA
AERATION AND PUMP TANK

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

VOLTAGE	380V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/50	
NO. MOTORS	2/1	
HP	1 1/2	
FLA	3.0A/1.5A	
TYPE OF PUMP	Submersible/Compressor	
MANUFACTURER	Franklin Electric/Thomas	
CATALOG NUMBER	23452416/QR100	

CONTROL VOLTAGE	110V	(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	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

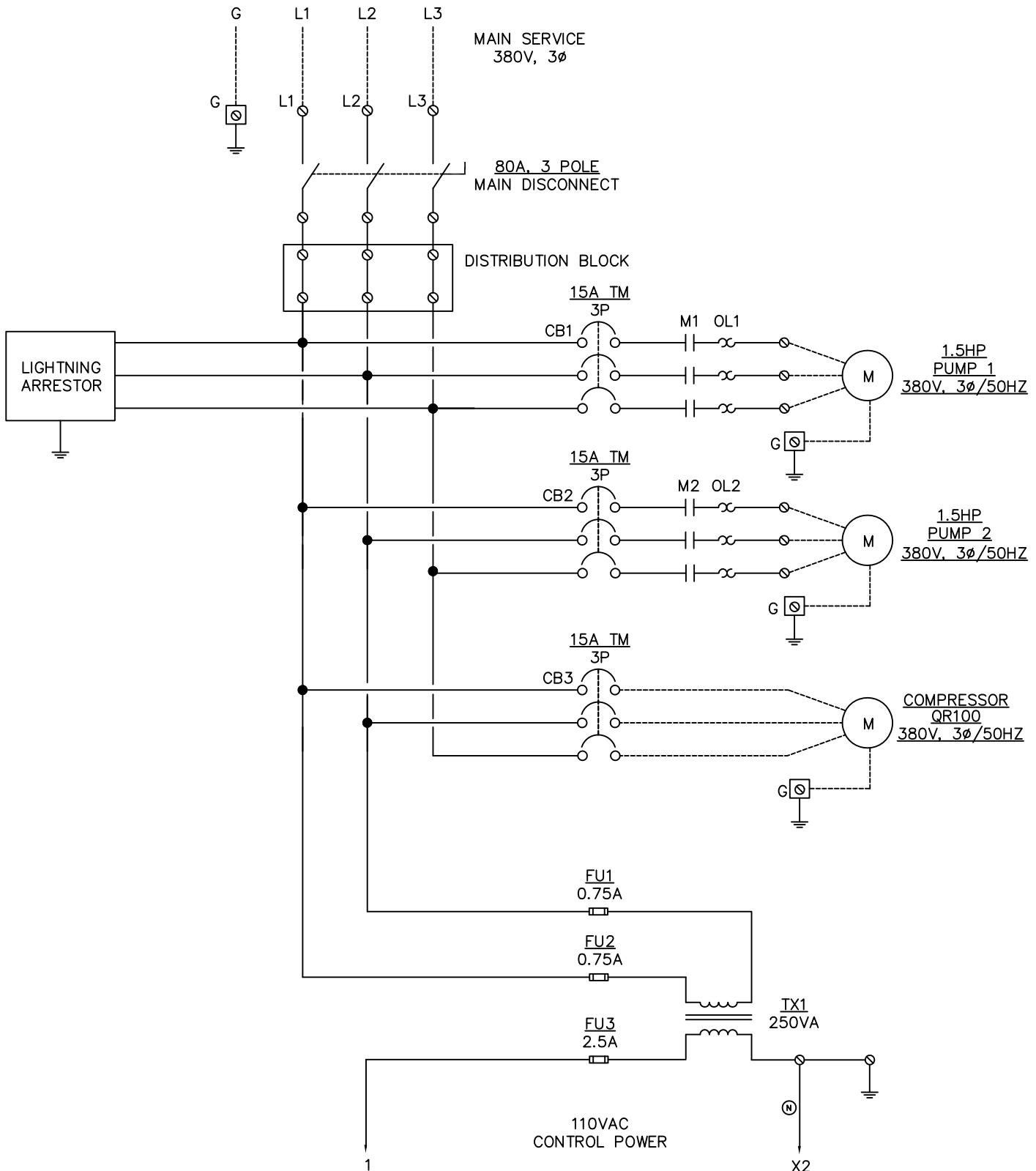
OPTIONS:

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

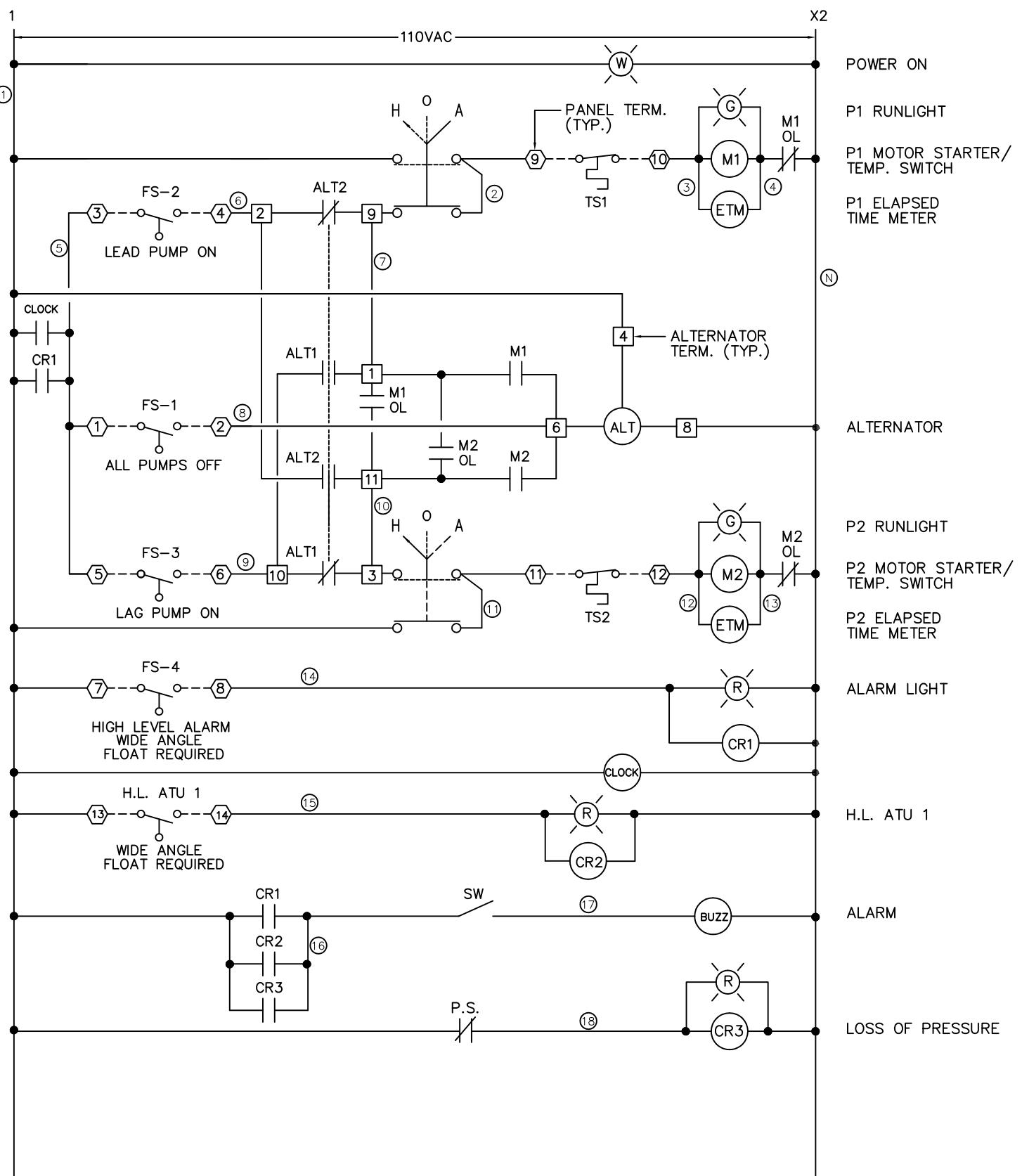
SOLD TO: Delta Environmental - Denham Springs, LA
TAG : EXXON AFRICA
AERATION AND PUMP TANK

SHIP TO: Delta Environmental - Denham Springs, LA

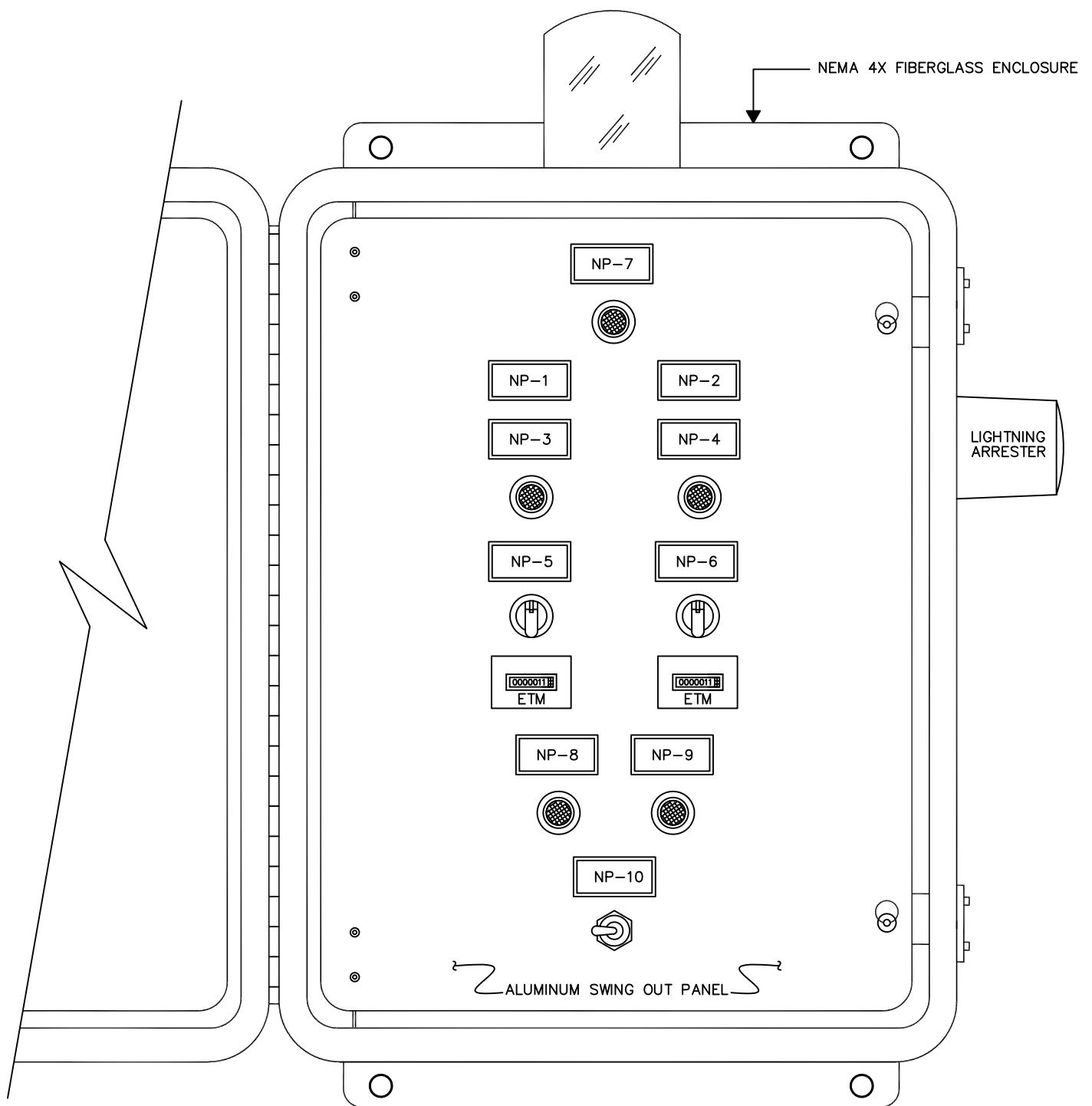
	Drawing Title							
	PANEL DESCRIPTION							
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
		S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED	BY
DATE 8/11/04			C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title DUPLEX PUMP CONTROL PANEL	<u>COX</u> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1870			
					SHEET NUMBER 1			



	Drawing Title POWER DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 8/11/04		Application Engineer R.C.			
	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 CP-1870 SHEET NUMBER 2	



	Drawing Title CONTROL DIAGRAM							
DATE 8/11/04		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN		APPROVED		
			BY	CTR		BY	DATE	
	Project Title DUPLEX PUMP CONTROL PANEL REVISION W/CLOCK & CLOCK OR	<hr/> <hr/> COX <hr/> <hr/> 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-1870		
						SHEET NUMBER 3		



NAMEPLATE SCHEDULE

VIEW OF SWING OUT PANEL

NOTE:

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

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	POWER ON
NP-8	ATU/HIGH LEVEL
NP-9	LOSS OF PRESSURE
NP-10	BUZZER SILENCE-NORMAL

	Drawing Title ENCLOSURE DATE 8/11/04						
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE	BY
				BY C. RACHAL	APPROVED BY	DATE BY	
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> <hr/> COX Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
					DRAWING NUMBER CP-1870		
					Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER 4	

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU4.0	O.L. RELAY (2.8-4.0A)
5	3	ABB	S1N015TL	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FG	GREEN PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	DONGAN	50-0250-058	TRANSFORMER
10	1	AC/DC	BL5-R-120	ALARM LIGHT
11	2	GRASSLIN	FWZ 55K 120/50	ELAPSED TIME METER
12	1	ACI	JR22FW	WHITE PILOT LIGHT
13	1	DELTA	LA603	LIGHTNING ARRESTER
14	1	GRASSLIN	FM/1 QRTUZH-L	50 Hz CLOCK 24 HOUR
15	2	ACI	JR22FR	RED PILOT LIGHT
16	3	OMRON	G2R2SAC120	CR1,2,3
17	1	MARATHON	1323580	DISTRIBUTION BLOCK
18				
19				
20				
21				
22				
23				
24				
25				

	Drawing Title BILL OF MATERIALS					
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
DATE 8/11/04	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 CP-1870 SHEET NUMBER	5