
COX

Research and Technology, Inc.

DUPLEX SUBMERSIBLE PUMP
CONTROL PANEL
AMBER TRACE

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

VOLTAGE	<u>120/208V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>2.7</u>	
FLA	<u>8.4</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>GR</u>	
CATALOG NUMBER	<u>JSV3C60-E2.7</u>	

CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Fiberglass</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		

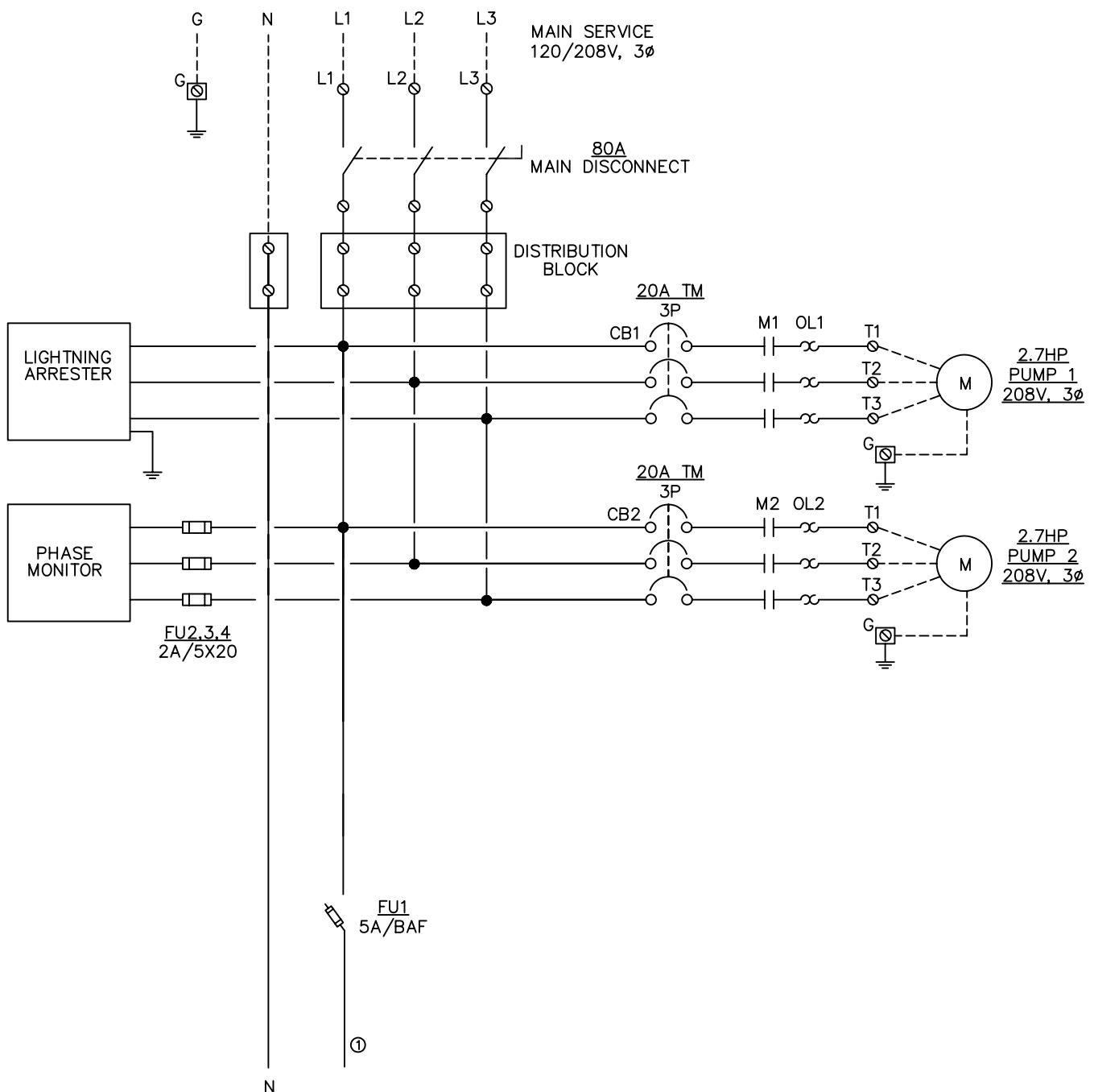
OPTIONS:

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

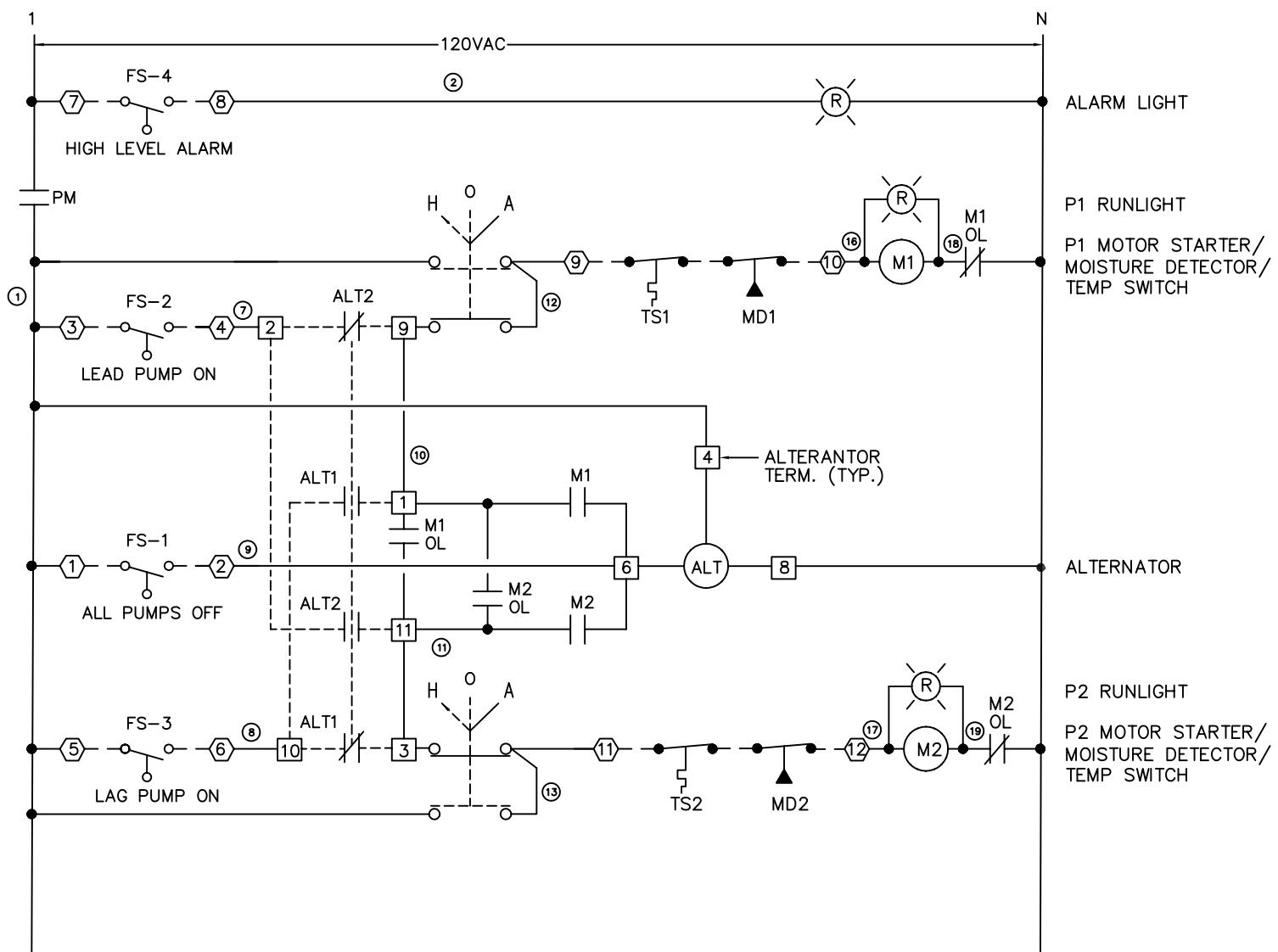
SOLD TO: Delta Process - New Orleans, LA
TAG : AMBER TRACE

SHIP TO: Delta Process - Denham Springs, LA

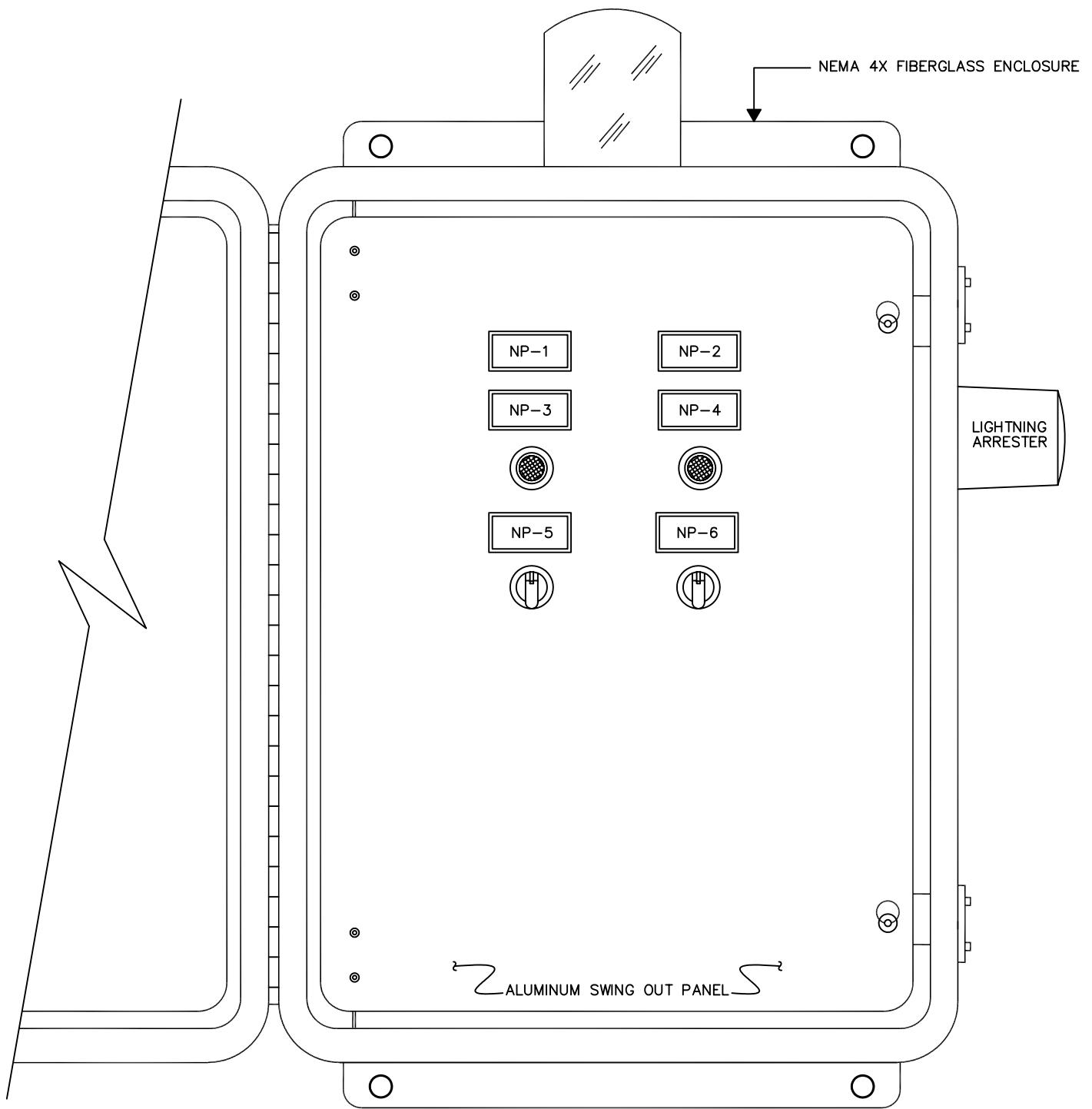
Drawing Title	PANEL DESCRIPTION		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
			S/N	Sales Engineer	Application Engineer	DRAWN	BY	APPROVED	BY	DATE
DATE 12/27/05	Project Title DUPLEX PUMP CONTROL PANEL	<u>COX</u> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER					
				Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2244					
					SHEET NUMBER 1					



	Drawing Title					
	POWER DIAGRAM					
DATE 12/27/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
	Project Title	<hr/> COX <hr/> Research and Technology, Inc. <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER
	CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2244
						SHEET NUMBER 2



	Drawing Title CONTROL DIAGRAM							
DATE 12/27/05		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY	DATE	
	Project Title		<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
	CONTROL PANEL						DRAWING NUMBER CP-2244	
							SHEET NUMBER 3	

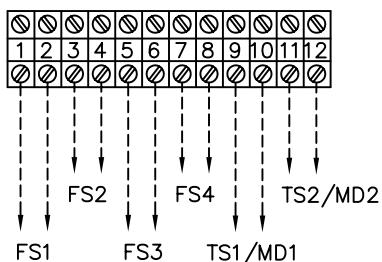
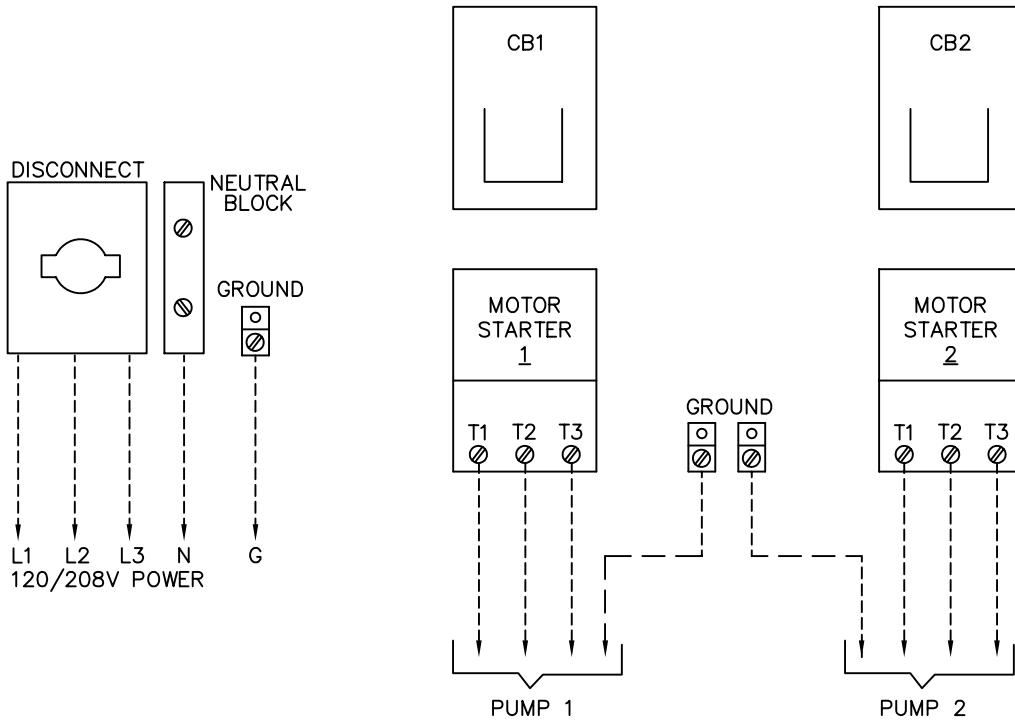


NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA

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

	Drawing Title ENCLOSURE						
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY	BY
DATE 12/27/05	Project Title CONTROL PANEL	<hr/> COX <hr/> Research and Technology, Inc. <hr/>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2244 SHEET NUMBER 4	



FS1 – FLOAT SWITCH 1
 ALL PUMPS OFF
 FS2 – FLOAT SWITCH 2
 LEAD PUMP ON
 FS3 – FLOAT SWITCH 3
 LAG PUMP ON
 FS4 – FLOAT SWITCH 4
 HIGH LEVEL ALARM
 TS1/MD1 – TEMP. SWITCH/MOISTURE DETECTOR 1
 TS2/MD2 – TEMP. SWITCH/MOISTURE DETECTOR 2

	Drawing Title				
	EXTERNAL CONNECTIONS				
DATE 12/27/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
Project Title CONTROL PANEL	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2244 SHEET NUMBER 5

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200RLDF	ENCLOSURE
1a	1	ALLIED	BP2420AL	BACKPLATE
2	2	SQUARE D	8536SB02V02	MOTOR STARTER
3	6	SQUARE D	B14.0	HEATER PACK
4	2	SQUARE D	QOU320	CB1, CB2
5	1	TIMEMARK	261DT120	ALTERNATING RELAY
6	2	ACI	JR22P3M20B	HOA SWITCH
7	2	ACI	JR22FR	RED LIGHT
8	1	AC/DC	BL5-R-120	ALARM LIGHT
9	1	SSAC	PLMU-11	PHASE MONITOR
10	1	MARATHON	1323580	DISTRIBUTION BLOCK
11	1	MARATHON	1321580	NEUTRAL BLOCK
12	1	DELTA	LA603	LIGHTNING ARRESTER
13	1	ABB	OT63E3	DISCONNECT
14	2	SQUARE D	9999S04	O.L. AUX. CONTACT
15				

Drawing Title BILL OF MATERIALS								
DATE 12/27/05	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		BY	DATE
Project Title CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER				
				DRAWING NUMBER		CP-2244		
			SHEET NUMBER		6			