
COX

Research and Technology, Inc.

DELTA DOWNS
WATER TREATMENT PLANT
SERVICE PUMP 2
CONTROL PANEL

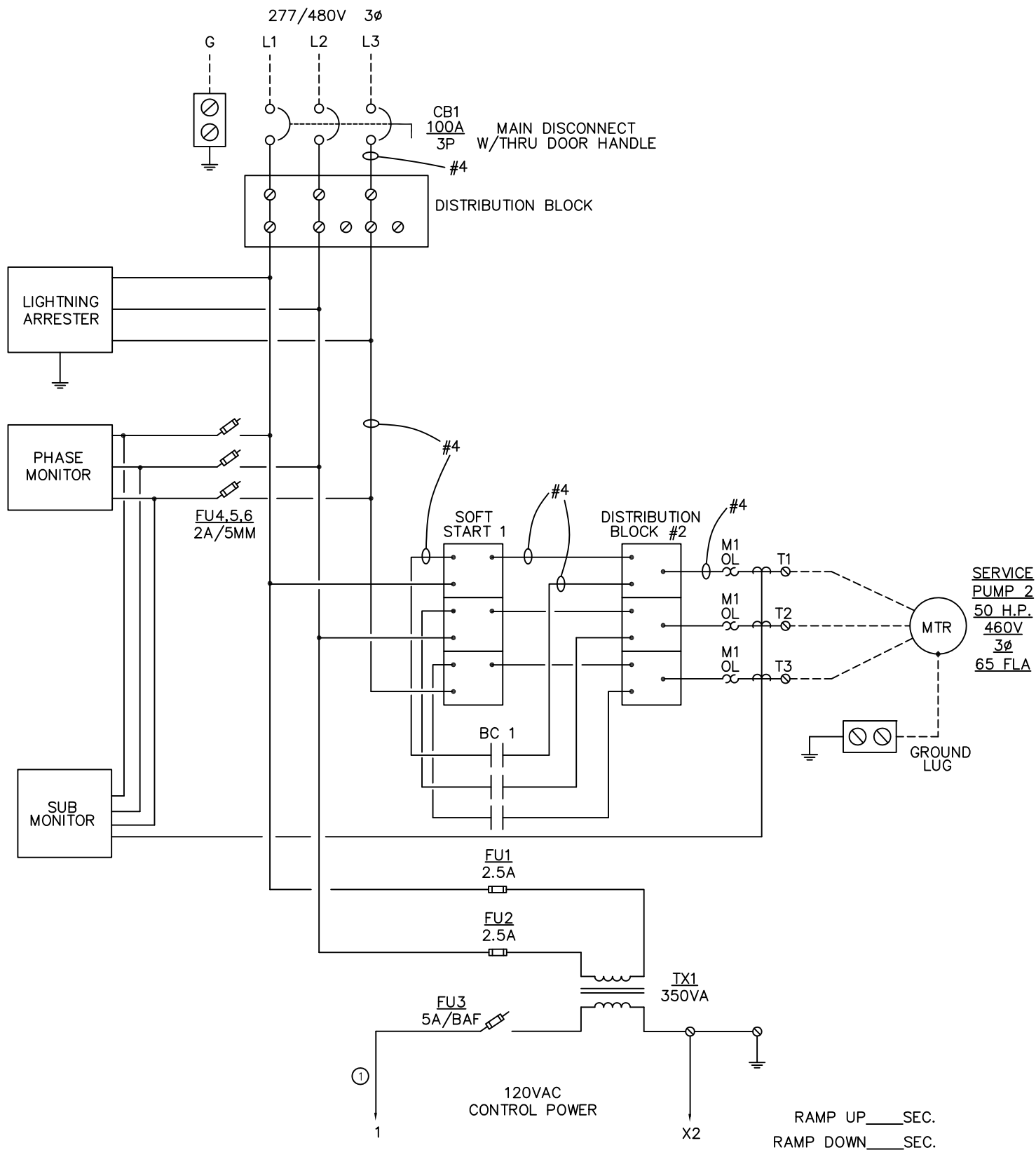
Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

CP-1886

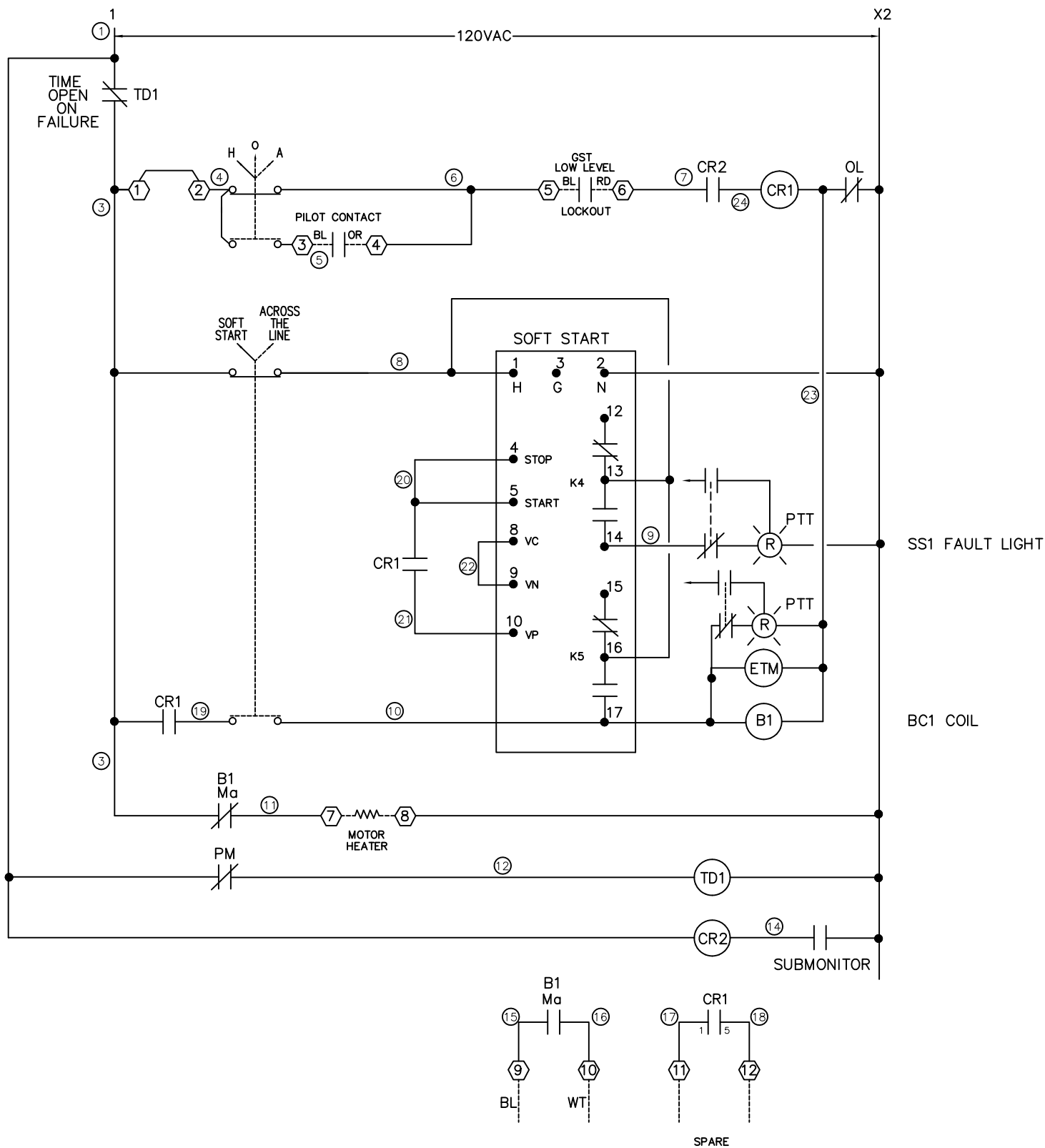
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

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

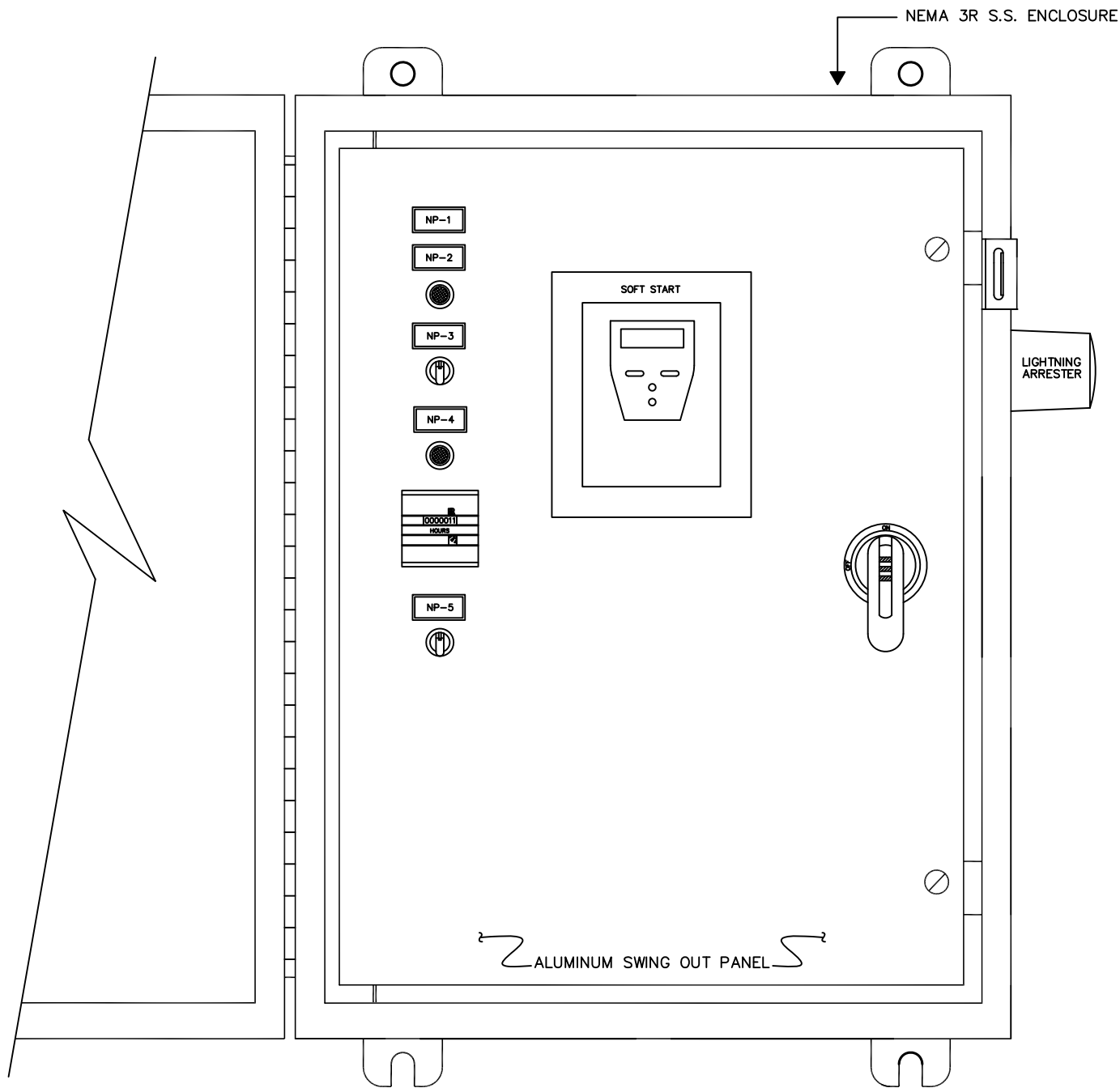
SHIP TO: _____
 _____[illegible]



	Drawing Title								
	POWER DIAGRAM								
DATE	9/02/04	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	BY	DATE		
	Project Title	COX			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
	SERVICE PUMP 2 CONTROL PANEL	Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1886			
						SHEET NUMBER 2			



	Drawing Title								
	CONTROL DIAGRAM								
DATE	9/02/04	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	BY	DATE		
	Project Title	COX			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
	SERVICE PUMP 2 CONTROL PANEL	Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1886		
							SHEET NUMBER 3		



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.

NAMEPLATE SCHEDULE

NP-1	PUMP
NP-2	RUN
NP-3	HOA
NP-4	SOFT START FAULT
NP-5	SOFT START/ACROSS THE LINE

DATE 9/02/04	Drawing Title							
	ENCLOSURE							
REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	DATE	BY
S/N		Sales Engineer C.C.		Application Engineer R.C.		DRAWN BY C. RACHAL		APPROVED BY
Project Title								DATE
SERVICE PUMP 2 CONTROL PANEL								PURCHASE ORDER NUMBER
								DRAWING NUMBER
								CP-1886
								SHEET NUMBER
								4

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S302410REPL	ENCLOSURE
1a	1	EBE	3024P	BACKPLATE
1b	1	EBE	A3024SP	DEAD FRONT
2	1	ABB	S3N100TW	CB1 480V 3P 100A
3	1	ABB	TA75DU80	O.L. RELAY (60-80A)
4	1	ABB	PST72-600-70	SOFT START
5	1	ABB	DB80	MOUNT KIT FOR O.L.
6	1	ABB	75N3-30-11-84	BYPASS CONTACTOR
7	2	MARATHON	1323580	DISTRIBUTION BLOCK
8	1	DELTA	LA603	LIGHTNING ARRESTER
9	1	SSAC	PLMU-11	PHASE MONITOR
10	2	A-B	800H-QRT10R	RED PTT LIGHT
11	1	A-B	800H-JR2A	HOA SWITCH
12	1	REDINGTON	711-0190	ETM
13	1	OMRON	MK3PN5SAC120	CR1
14	1	OMRON	H3YN2AC120	TD1
15	1	A-B	800H-HR2A	2 POSITION SWITCH
16	1	FRANKLIN ELECTRIC	SUBMONITOR	PUMP PHASE PROTECTION
17	1	ABB	K5VDM	MECHANISM
18	1	ABB	OX10X500	SHAFT
19	1	ABB	OHB65J10	HANDLE
20	2	ABB	K4TC	LUGS FOR C.B.
21	1	ABB	T4350PSF1	TRANSFORMER W/COVERS
22	2	ABB	K4LCH	SHROUD FOR C.B.
23	1	ABB	CAL5-11	AUX. CONTACT
* 24	1	SIEMENS	3RW3046-1AB14	SOFT START
* 25	1	SIEMENS	CQD 3100	CB1
* 26	1	SIEMENS	RHOCQVD	THRU DOOR HANDLE
* 27	1	SIEMENS	40HP32A	BYPASS CONTACTOR
* 28	1	SIEMENS	48BSK3M10	O.L.
29				

* ALTERNATE MATERIALS

	Drawing Title						
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
9/02/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY DATE	
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <h3 style="margin: 0;">COX</h3> <p style="margin: 0; font-size: small;">Research and Technology, Inc.</p> </div>			<p style="margin: 0; font-size: small;">P.O. Box 77808 Baton Rouge, LA 70809</p> <p style="margin: 0; font-size: small;">Ph. (225)756-3271 Fax (225)756-1030</p>		<p style="margin: 0; font-size: small;">PURCHASE ORDER NUMBER</p> <hr/> <p style="margin: 0; font-size: small;">DRAWING NUMBER CP-1886</p> <hr/> <p style="margin: 0; font-size: small;">SHEET NUMBER 5</p>
	SERVICE PUMP 2 CONTROL PANEL						