
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

VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>1</u>	
HP	<u>50</u>	
FLA	<u>67.7A</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 3R</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Stainless Steel</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(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		(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		

SOLD TO:

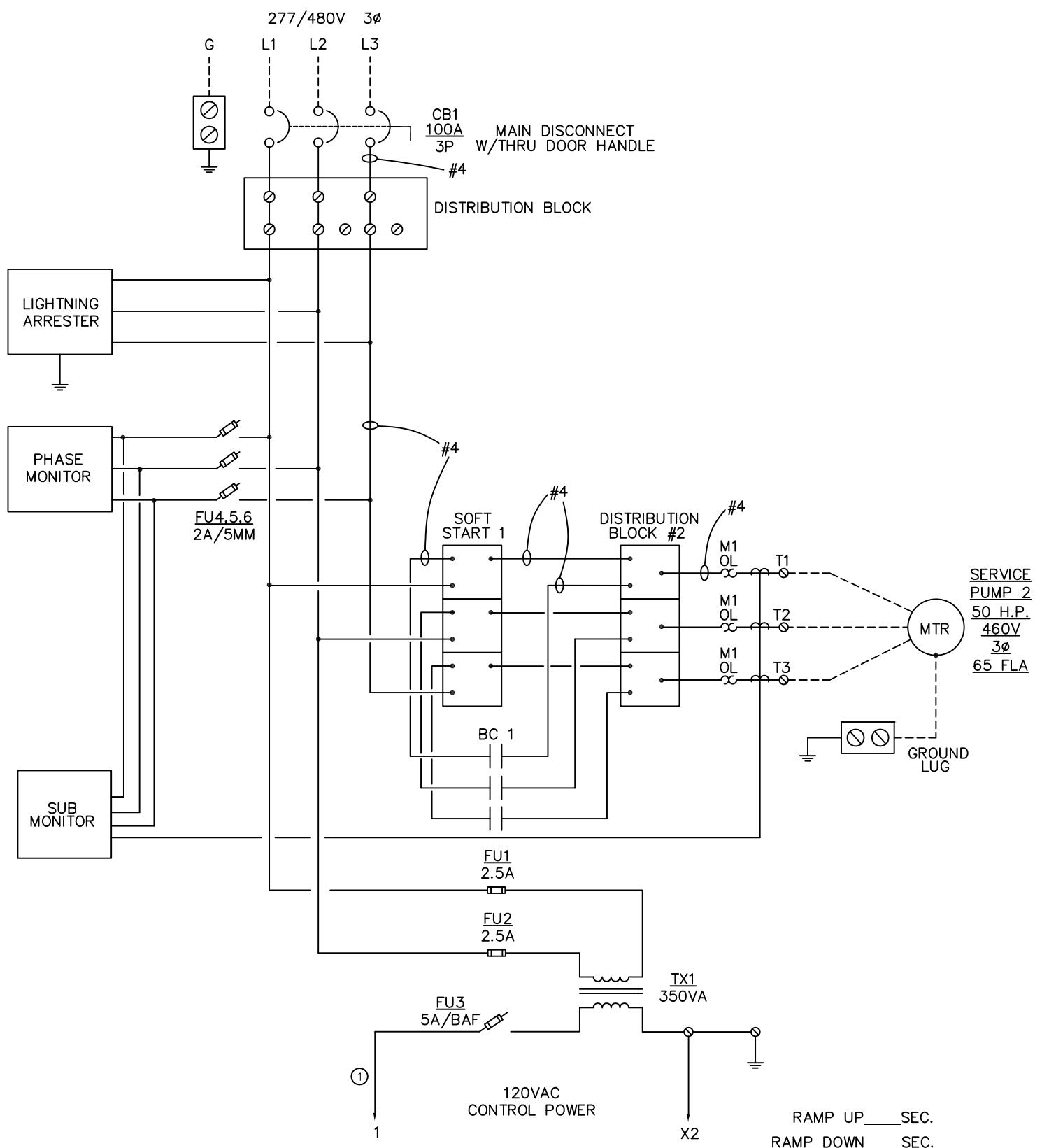
SOED
TAG:

Delta Downs Water Treatment Plant

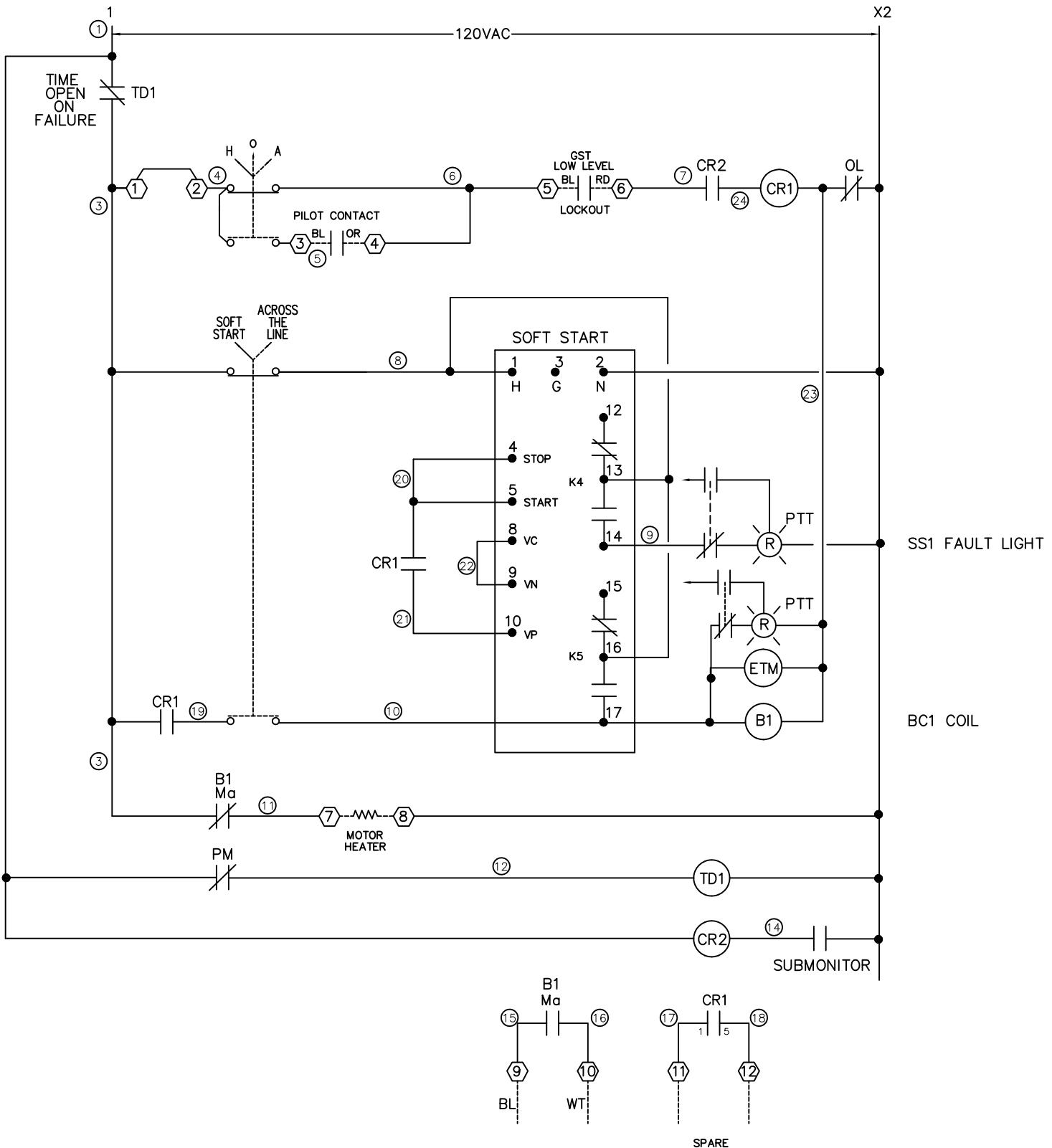
Service Pump 2

SHIP TO:

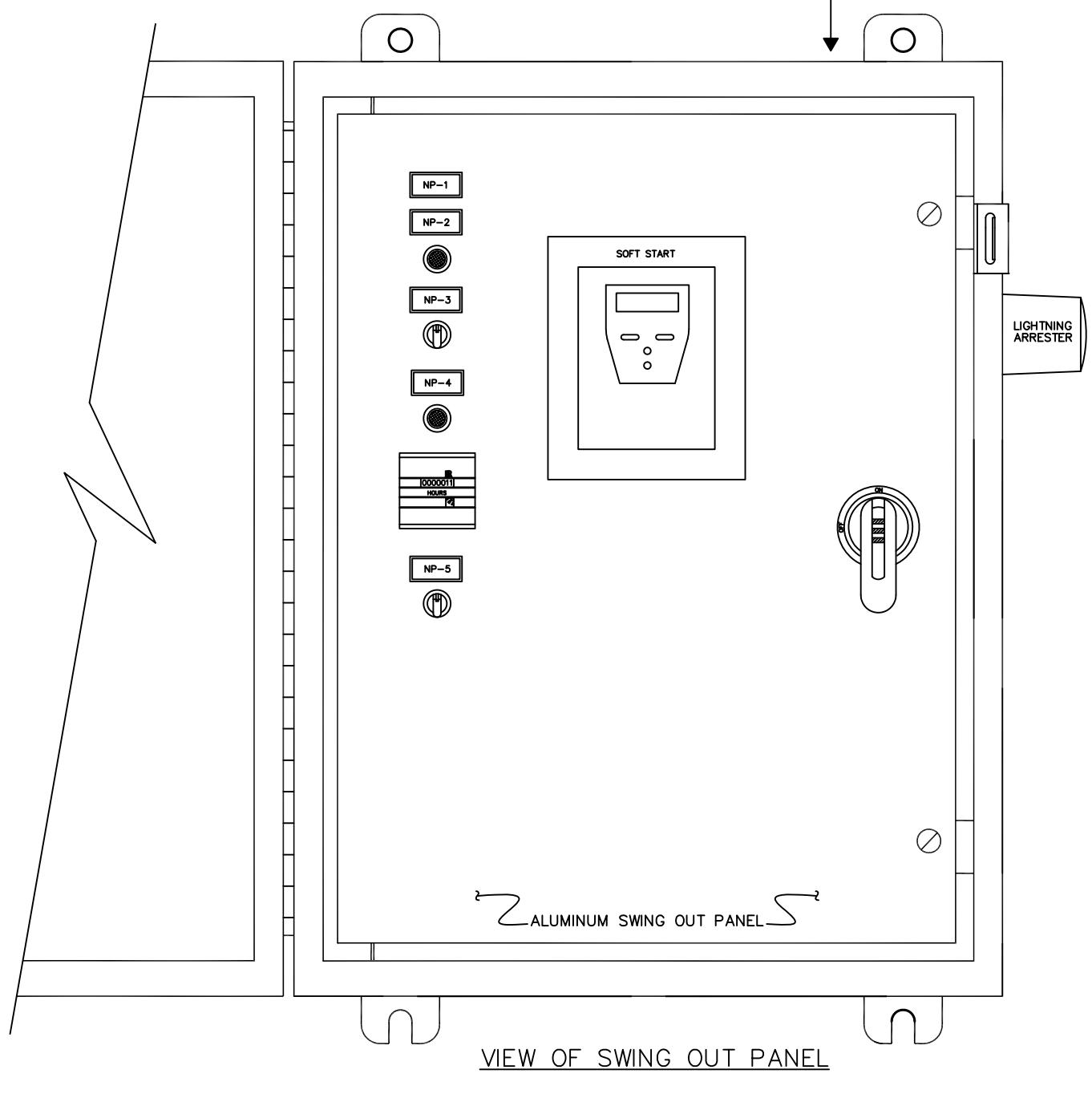
	Drawing Title PANEL DESCRIPTION 9/02/04 8/31/04					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
S/N	Sales Engineer C.C.	Application Engineer R.C.		DRAWN BY C. RACHAL	APPROVED BY	DATE
	Project Title SERVICE PUMP 2 CONTROL PANEL	<hr/> <hr/> COX Research and Technology, Inc. <hr/> <hr/>	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1886		
				SHEET NUMBER 1		



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



NAMEPLATE SCHEDULE

NOTE:

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

	Drawing Title ENCLOSURE						
DATE 9/02/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN BY	DATE APPROVED BY DATE
	Project Title SERVICE PUMP 2 CONTROL PANEL	<hr/> COX 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 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	OXP10X500	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 BILL OF MATERIALS								
	REFERENCE DRAWING S/N		NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL		ECN	DATE BY	
DATE 9/02/04	Sales Engineer	Application Engineer R.C.	DRAWN BY	APPROVED BY		DATE		
Project Title SERVICE PUMP 2 CONTROL PANEL	 COX <small>Research and Technology, Inc.</small>				P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER	
	DRAWING NUMBER CP-1886							
	SHEET NUMBER 5							