
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
GULF STATES ENGINEERING

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

CP-1530

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	3	
FLA	4.8	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Flygt	
CATALOG NUMBER		

CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted Steel	(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:

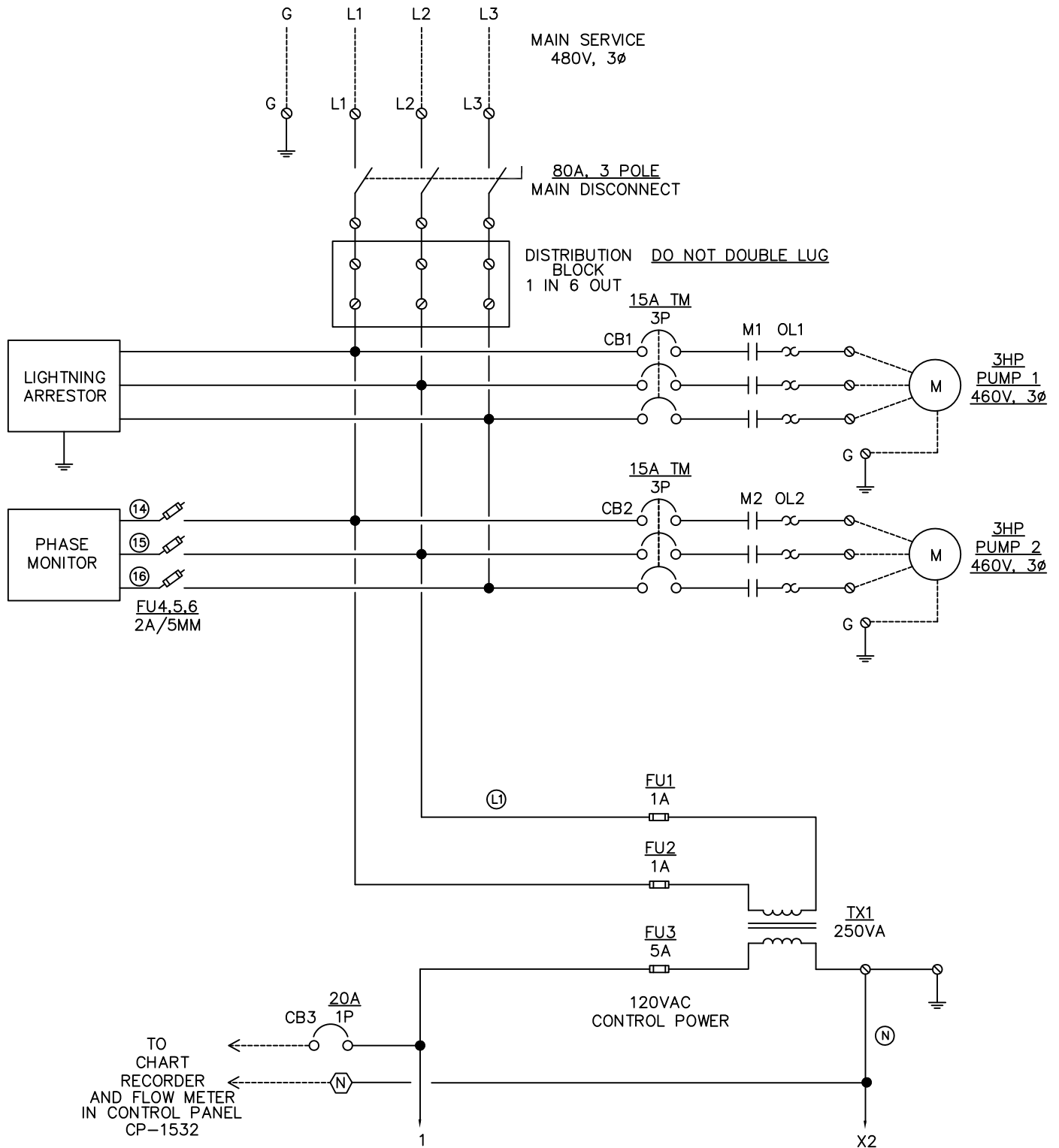
SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR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

SOLD TO: Gulf States Engineering Co., Inc.

TAG : Pump Control Panel

SHIP TO:

	Drawing Title						
	PANEL DESCRIPTION						
DATE 2/14/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY CTR	ECN	DATE
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1530 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL						



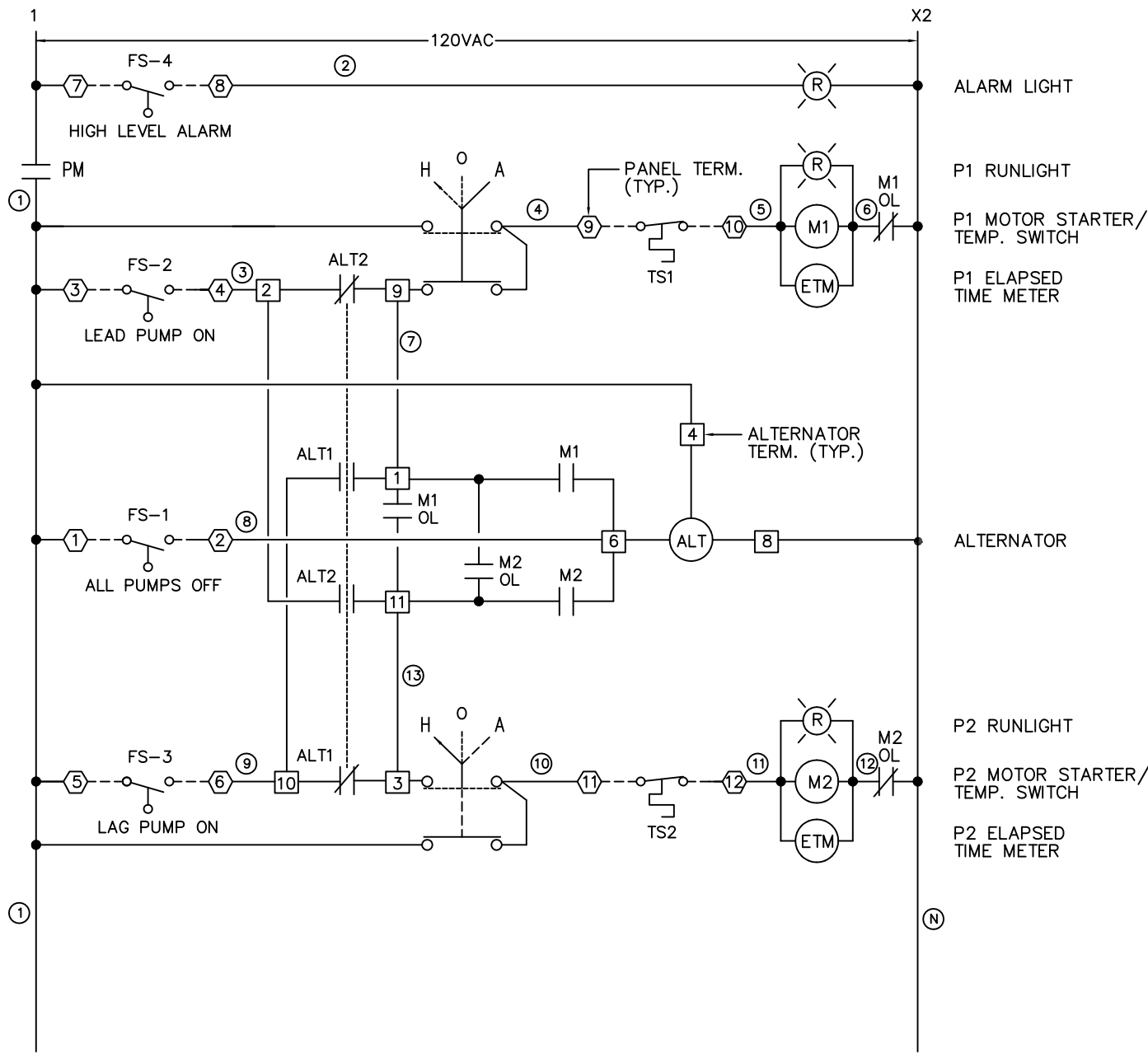
	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
2/14/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED			
	Project Title				BY	DATE			
	DUPLEX PUMP CONTROL PANEL							PURCHASE ORDER NUMBER	
								DRAWING NUMBER CP-1530	
								SHEET NUMBER	2

COX

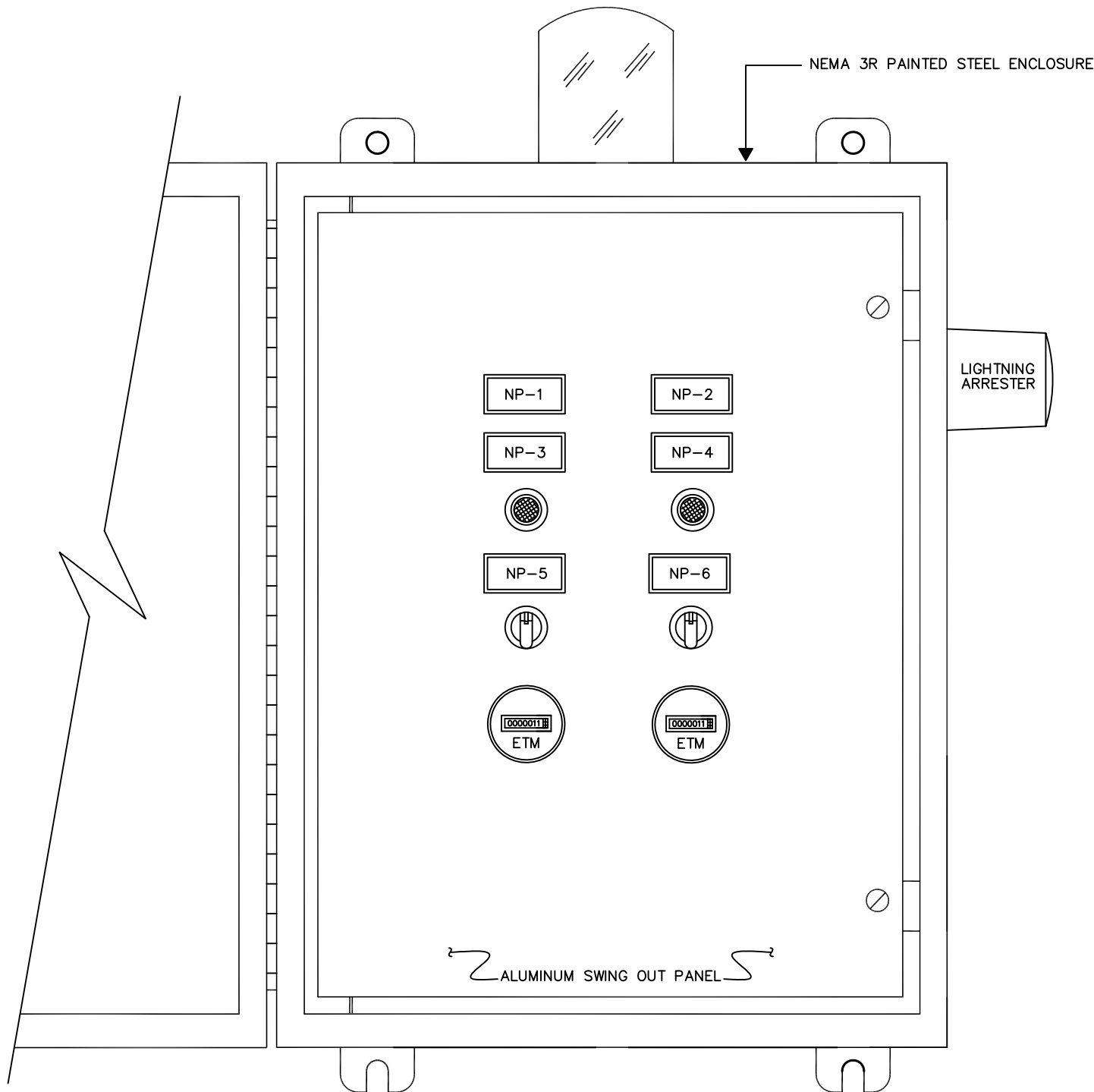
Research and Technology, Inc.

P.O. Box 77808
Baton Rouge, LA
70809

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



	Drawing Title CONTROL DIAGRAM								
DATE 2/14/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY			
	Project Title DUPLEX PUMP CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER		
							DRAWING NUMBER CP-1530		
							SHEET NUMBER 3		



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

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

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

DATE 2/14/03	Drawing Title								
	ENCLOSURE								
	Project Title		REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
	DUPLIX PUMP CONTROL PANEL		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	BY	CTR	APPROVED
			COX				P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
			Research and Technology, Inc.				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1530
									SHEET NUMBER 4

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	242010REPL	ENCLOSURE
1a	1	EBE	A2420P	BACKPLATE
1b	1	EBE	A2420SP	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU5.0	O.L. RELAY (3.5-5.0A)
5	2	ABB	S1N015TL	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	SQUARE D	9070TF250D1	TRANSFORMER
10	1	AC/DC	BL5-R-120	ALARM LIGHT
11	1	C-H	CHSA03	LIGHTNING ARRESTER
12	1	SSAC	PLMU-11	PHASE MONITOR
13	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
14	1	SQUARE D	QOU120	CB3
15	1	MARATHON	1323580	DISTRIBUTION BLOCK
16				
17				
18				
19				
20				
21				
22				
23				

	Drawing Title						
	<h3 style="margin: 0;">BILL OF MATERIALS</h3>						
DATE 2/14/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	<div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px 0;"> <h2 style="margin: 0;">COX</h2> <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;">CP-1530</div> SHEET NUMBER <div style="text-align: right;">5</div>
	DUPLEX PUMP CONTROL PANEL						