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# COX

Research and Technology, Inc.

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## DUPLEX BLOWER CONTROL PANEL SLUMBERGER

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

VOLTAGE	480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	2	
FLA	3.4	
TYPE OF PUMP	Blower	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

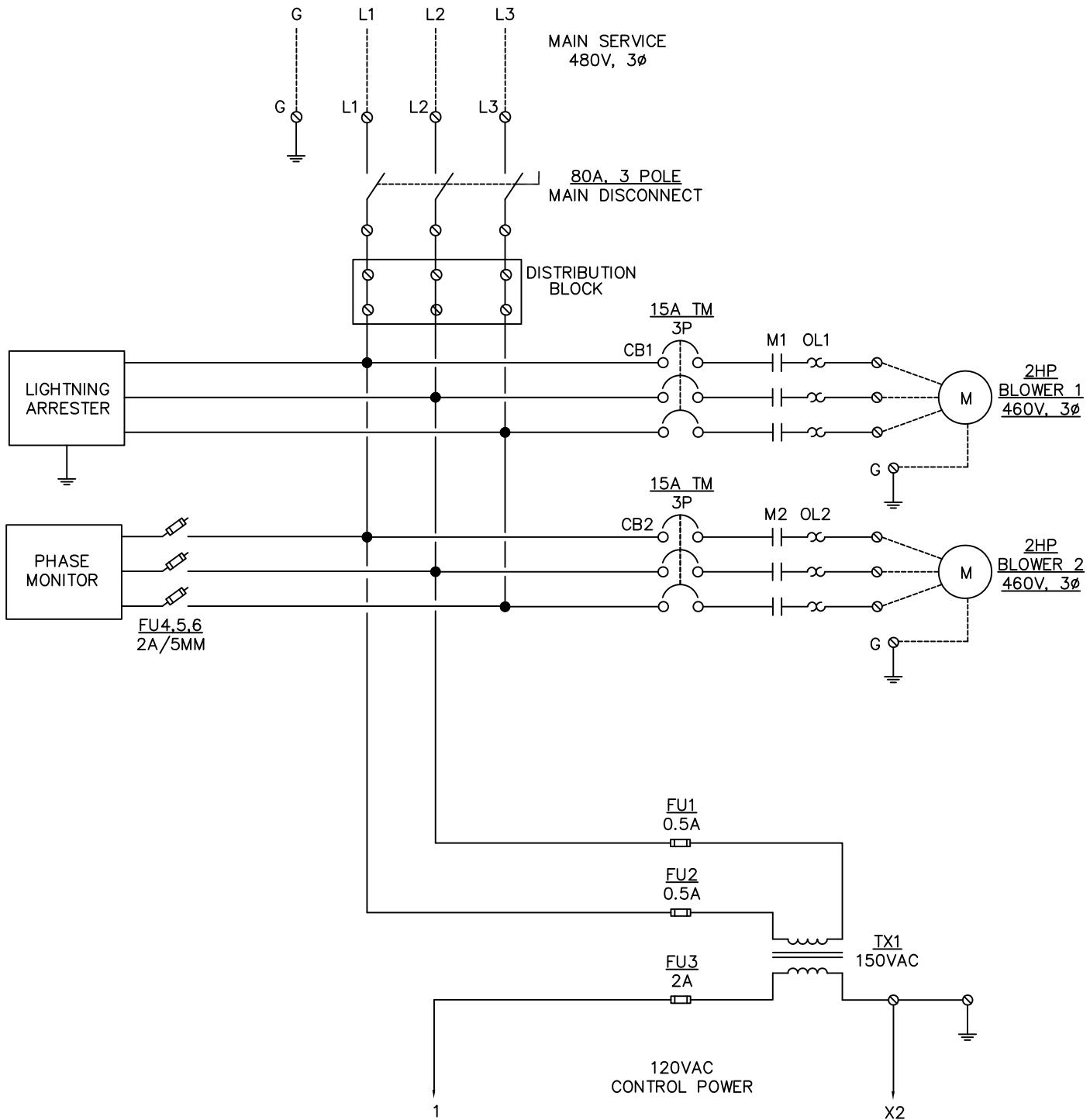
OPTIONS:

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		
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		

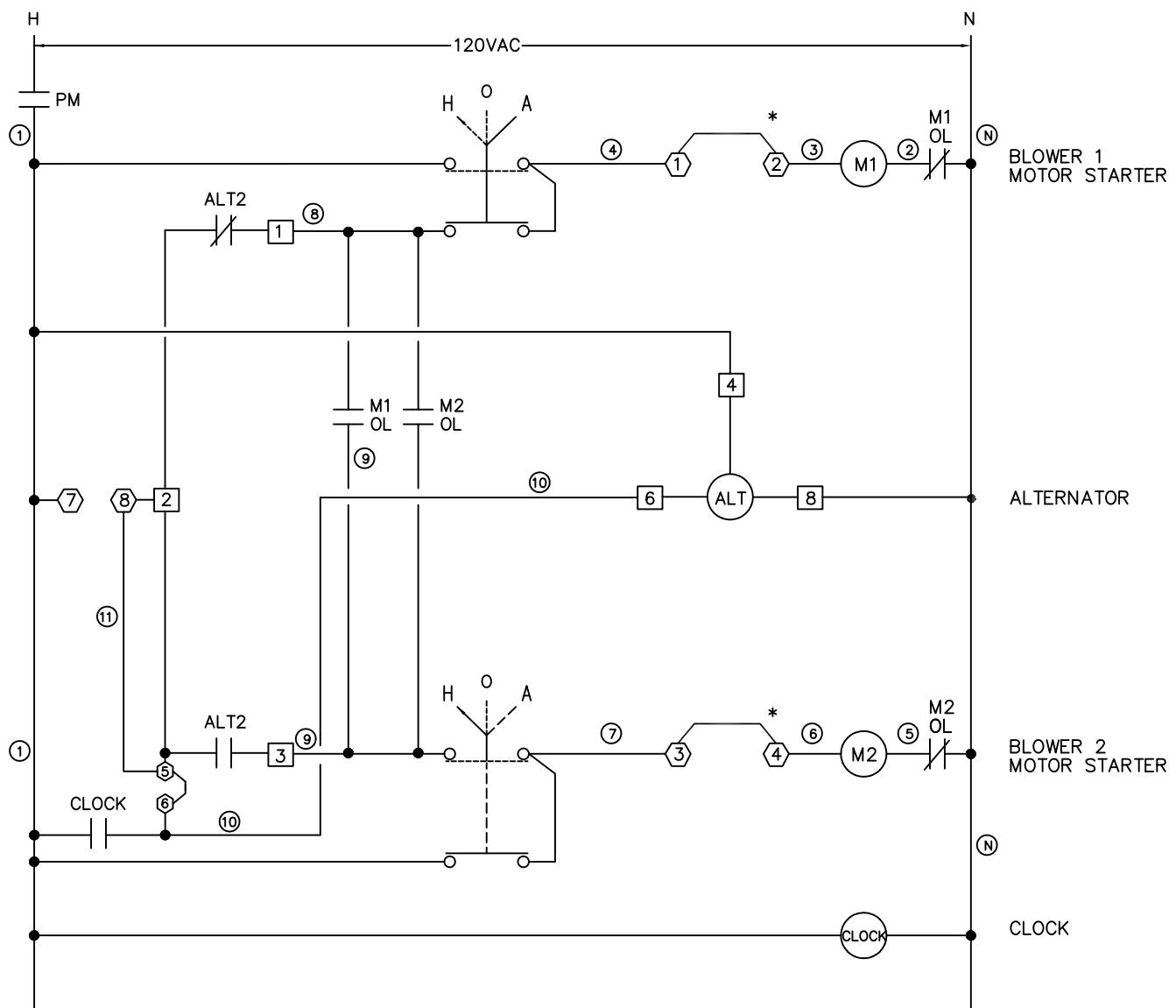
SOLD TO: Delta Process - Denham Springs, LA  
TAG : SLUMBERGER

SHIP TO: Delta Process - Denham Springs, LA

Drawing Title	PANEL DESCRIPTION	REFERENCE DRAWING		NO. R.C.	REVISION-LOCATION		ECN	DATE BY
		S/N	Sales Engineer C.C.		DRAWN BY C. RACHAL	APPROVED BY DATE		
DATE 10/27/03	Project Title  DUPLEX BLOWER CONTROL PANEL				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
					Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1687	SHEET NUMBER 1	



	Drawing Title  <b>POWER DIAGRAM</b>				
DATE 10/27/03	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE APPROVED BY
	Project Title  <b>DUPLEX BLOWER CONTROL PANEL</b>	<b>COX</b> 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-1687  SHEET NUMBER 2	

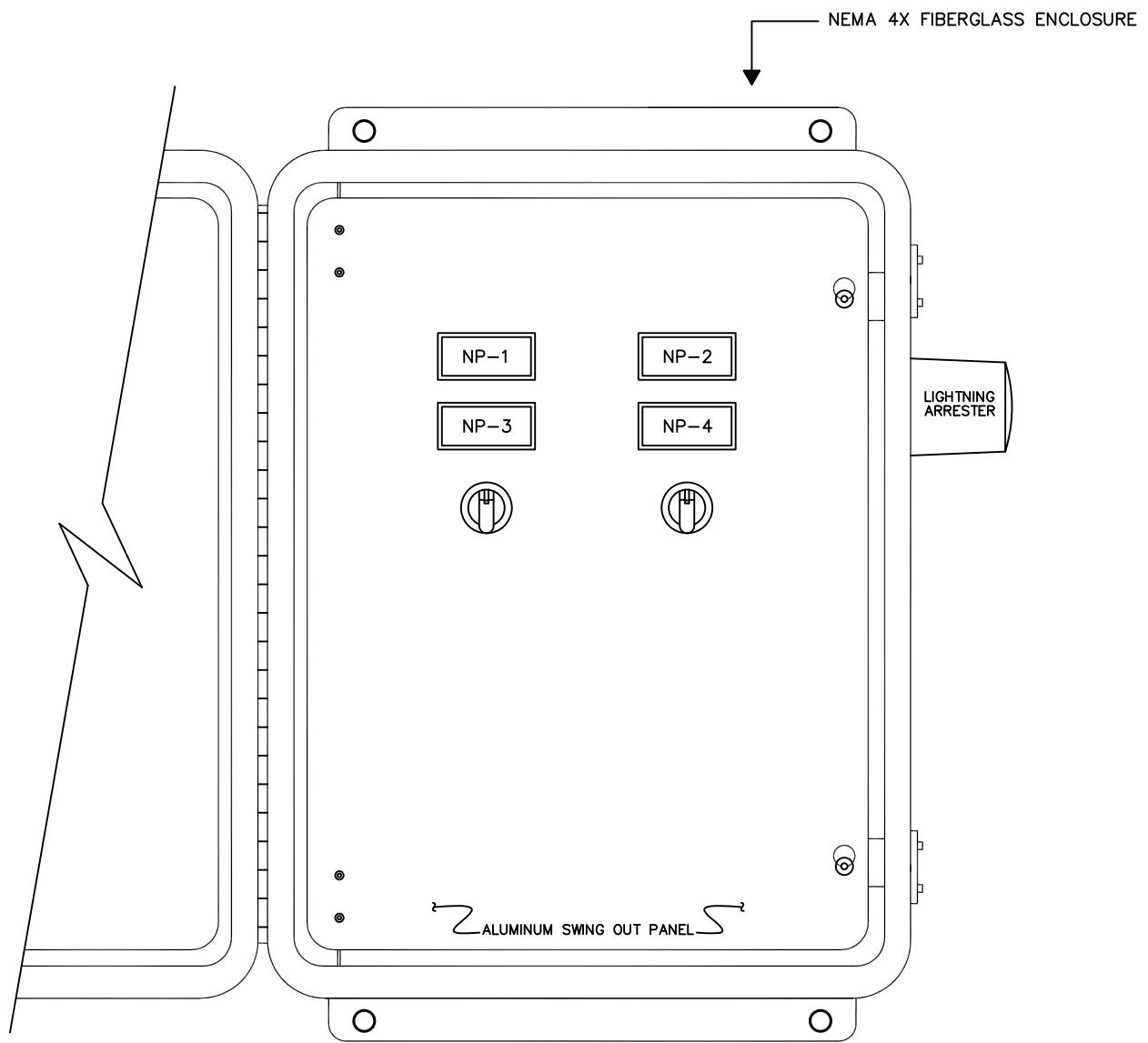


PANEL IS DESIGNED TO RUN AERATORS WITH A MINIMUM OF 15 MINUTES OF OFF TIME BETWEEN ALTERNATION. PINS PUSHED OUT ON CLOCK INDICATE RUN TIME. PINS PUSHED IN INDICATE OFF TIME. EACH PIN IS EQUAL TO 15 MINUTES.

IF NO OFF TIME IS REQUIRED BETWEEN ALTERNATION, REMOVE JUMPER FROM TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS TERMINALS ⑦ AND ⑧. NOW AERATORS WILL RUN CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU WISH THE AERATORS TO ALTERNATE. ALL REMAINING PINS SHOULD BE PUSHED OUT.

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title									
	CONTROL DIAGRAM									
DATE 10/27/03	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN		DATE BY	
	S/N	Sales Engineer	Application Engineer	R.C.	DRAWN	BY C. RACHAL	BY	APPROVED	DATE	BY
	Project Title									
	DUPLEX BLOWER CONTROL PANEL				COX		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
							DRAWING NUMBER		CP-1687	
							SHEET NUMBER		3	



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

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

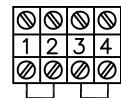
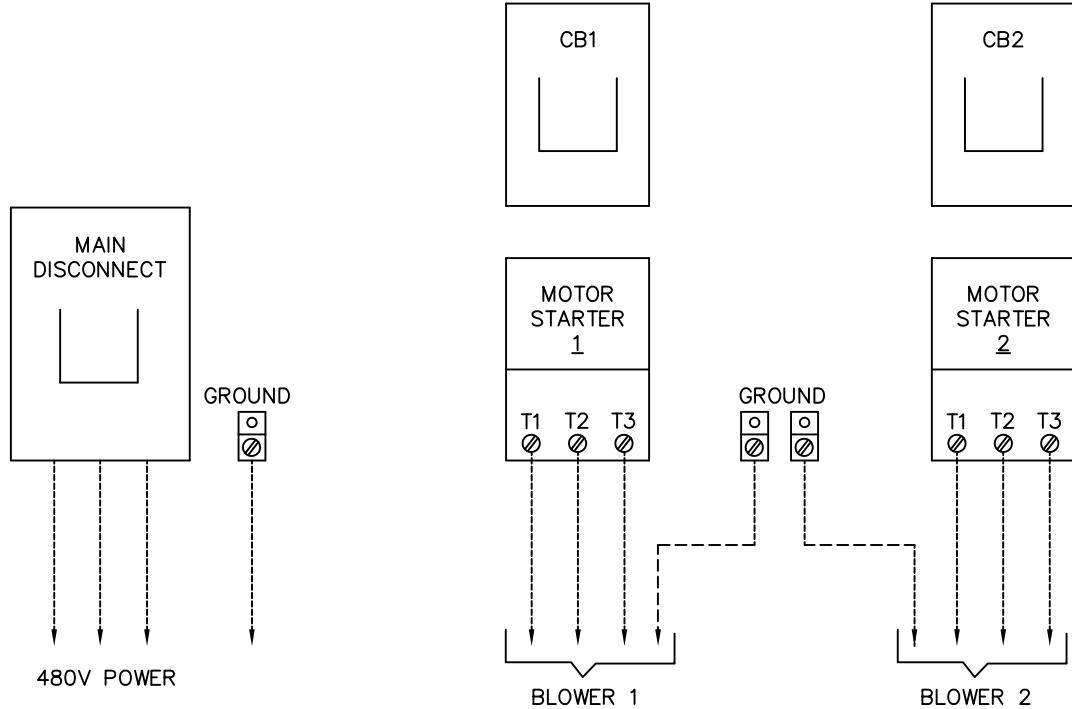
NP-1	BLOWER 1
NP-2	BLOWER 2
NP-3	HOA
NP-4	HOA

Drawing Title	REFERENCE DRAWING			NO.	REVISION-LOCATION	ECN	DATE	BY
	S/N	Sales Engineer	Application Engineer					
ENCLOSURE	C.C.		R.C.	BY	C. RACHAL	BY	DATE	
DATE 10/27/03								
Project Title								
DUPLEX BLOWER CONTROL PANEL								

**COX**  
Research and Technology, Inc.

P.O. Box 77808  
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PURCHASE ORDER NUMBER
DRAWING NUMBER
CP-1687
SHEET NUMBER
4



REMOVE JUMPERS & INSTALL  
LOCKOUT DEVICES IF REQUIRED

	Drawing Title					
DATE 10/27/03	EXTERNAL CONNECTIONS	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
	Project Title					
	DUPLEX BLOWER 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-1687 SHEET NUMBER 5	

## BILL OF MATERIAL

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	S1N015TL	CB1, CB2
4	2	ABB	A16-30-10-84	MOTOR STARTER
5	2	ABB	TA25DU4.0	OVERLOAD (2.8-4.0A)
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22P3M20B	HOA SWITCH
8	1	SQUARE D	9070TF150D1	CONTROL TRANSFORMER
9	1	C-H	CHSA03	LIGHTNING ARRESTER
10	1	GRASSLIN	FM/1 STUZH-L	TIMER
11	1	SSAC	PLMU11	PHASE MONITOR
12	1	MARATHON	1323580	DISTRIBUTION BLOCK
13				
14				
15				
16				
17				
18				
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22				
23				
24				
25				

	Drawing Title						
	BILL OF MATERIALS						
DATE 10/27/03			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
	S/N	Sales Engineer	Application Engineer		DRAWN		APPROVED
		C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title		COX		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX BLOWER CONTROL PANEL		Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1687	
						SHEET NUMBER 6	