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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
TOWN OF WISNER  
LIFT STATION #4

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

CP-2210

|                                  |              |  |
|----------------------------------|--------------|--|
| VOLTAGE                          | 120/240V     | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ                         | 3/60         |  |
| NO. MOTORS                       | 2            |  |
| HP                               | 5            |  |
| FLA                              | 15.2         |  |
| TYPE OF PUMP                     | Self-Priming | (Self-Priming, Submersible)                      |
| MANUFACTURER                     | GR           |  |
| 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       | (Floats, Bubbler, Other)                         |
| CAPACITORS                       | No           | (Yes, No)  |
| CAPACITOR WIRING FIGURE          | N/A          |  |
| THERM. & SEAL FAIL WIRING FIGURE |              |  |

## OPTIONS:

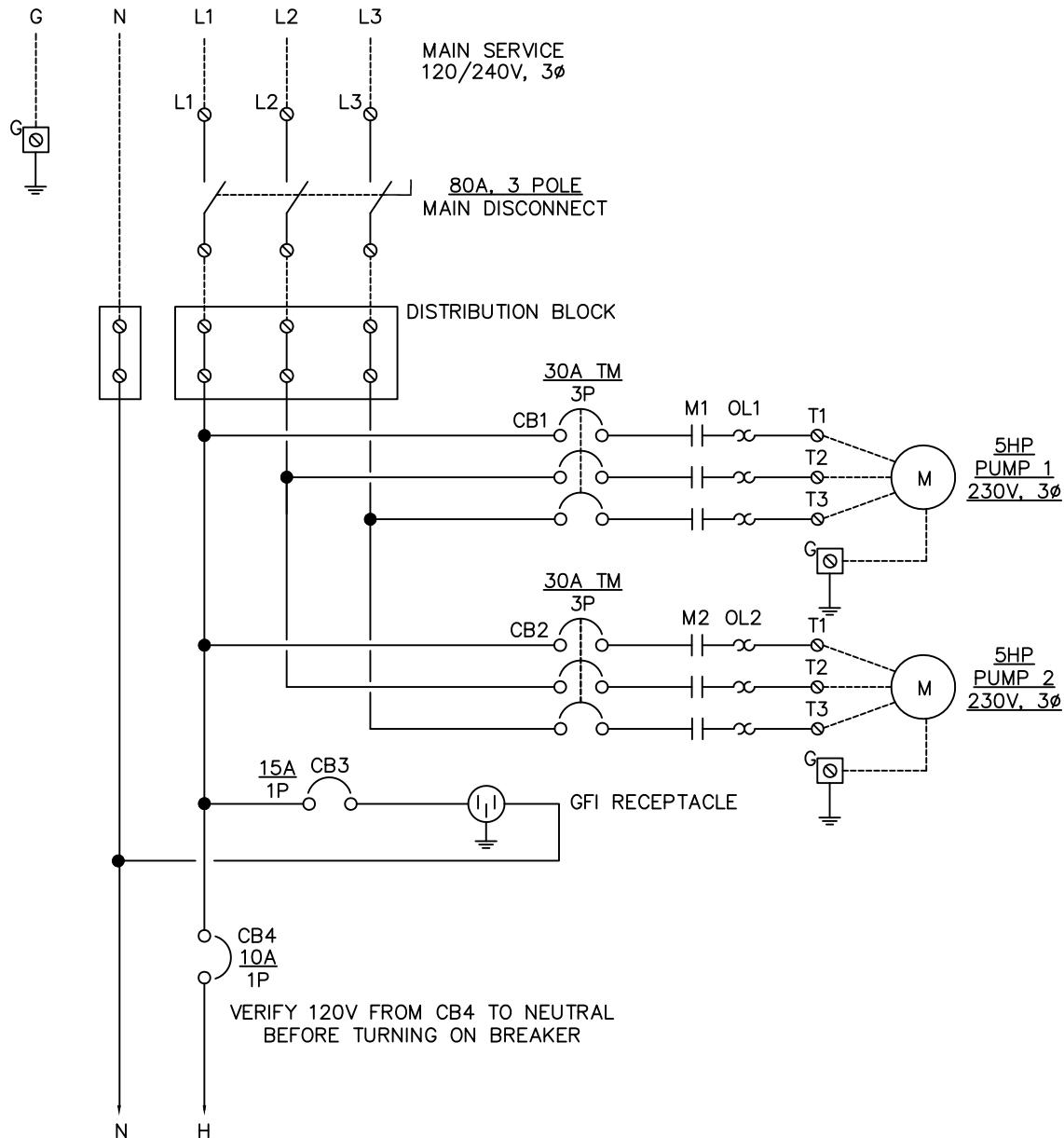
|                                  |                          |                            |
|----------------------------------|--------------------------|----------------------------|
| SEAL FAIL LIGHTS                 | <input type="checkbox"/> | (Submersible Only)         |
| SEAL FAIL RELAYS   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

SOLD TO: Delta Process - Ruston, LA  
TAG : Town of Wisner  
Lift Station #4

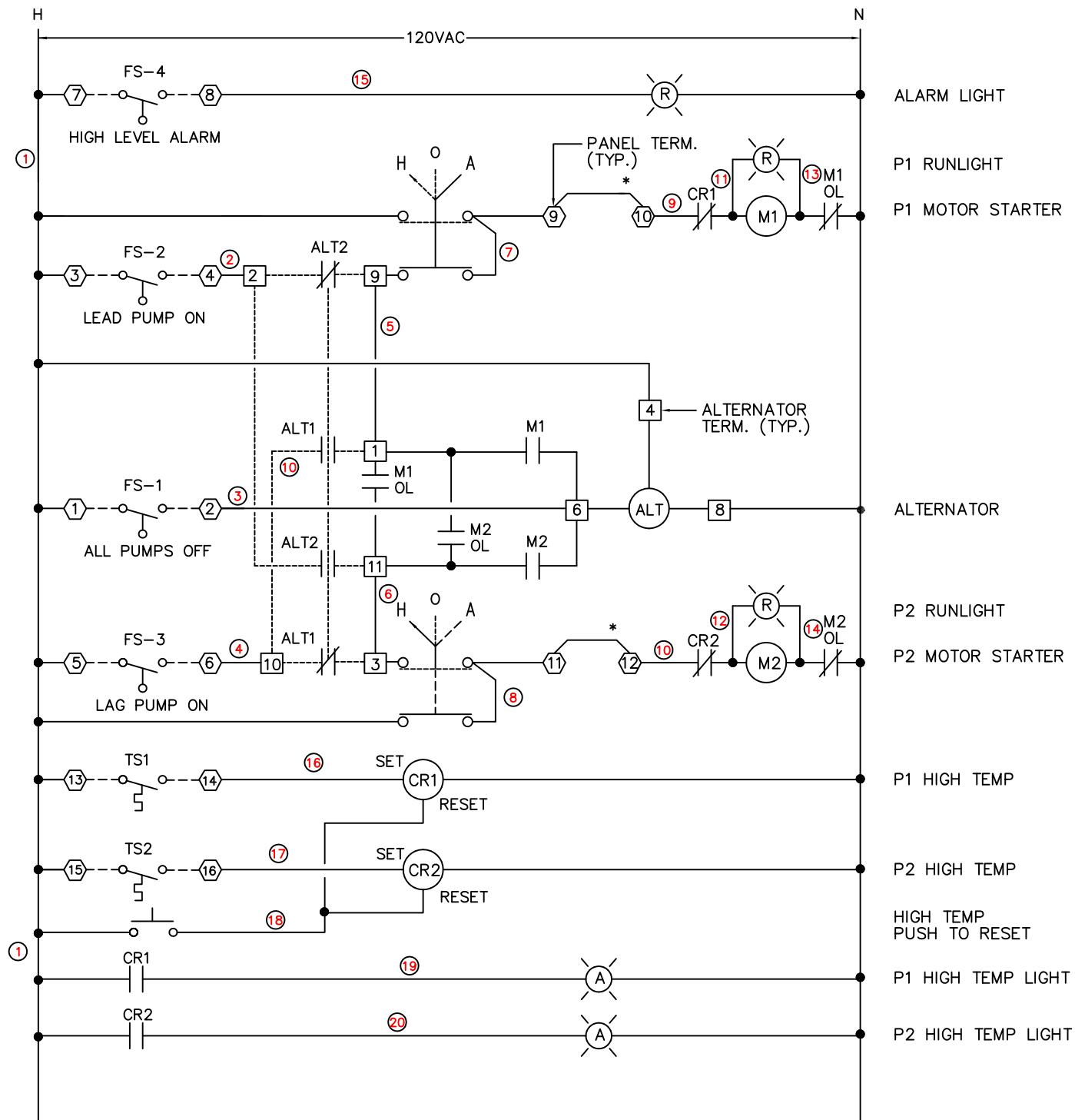
SHIP TO: Delta Process - Ruston, LA

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|  |   |  |   |  |                           |  |  |
|--|---|--|---|--|---------------------------|--|--|
|  | Drawing Title<br><br><b>PANEL DESCRIPTION</b><br><br>DATE<br>11/28/05 |  |   |  |                           |  |  |
|  |   |  |   |  |                           |  |  |
|  |   |  |   |  |                           |  |  |
|  |   |  |   |  |                           |  |  |
|  | Project Title<br><br><b>DUPLEX PUMP<br/>CONTROL PANEL</b>             |  | <b>COX</b><br>Research and Technology, Inc. | P.O. Box 77808<br>Baton Rouge, LA<br>70809 | PURCHASE ORDER NUMBER     |  |  |
|  |   |  |   | Ph. (225)756-3271<br>Fax (225)755-1030     | DRAWING NUMBER<br>CP-2210 |  |  |
|  |   |  |   |  | SHEET NUMBER<br>1         |  |  |

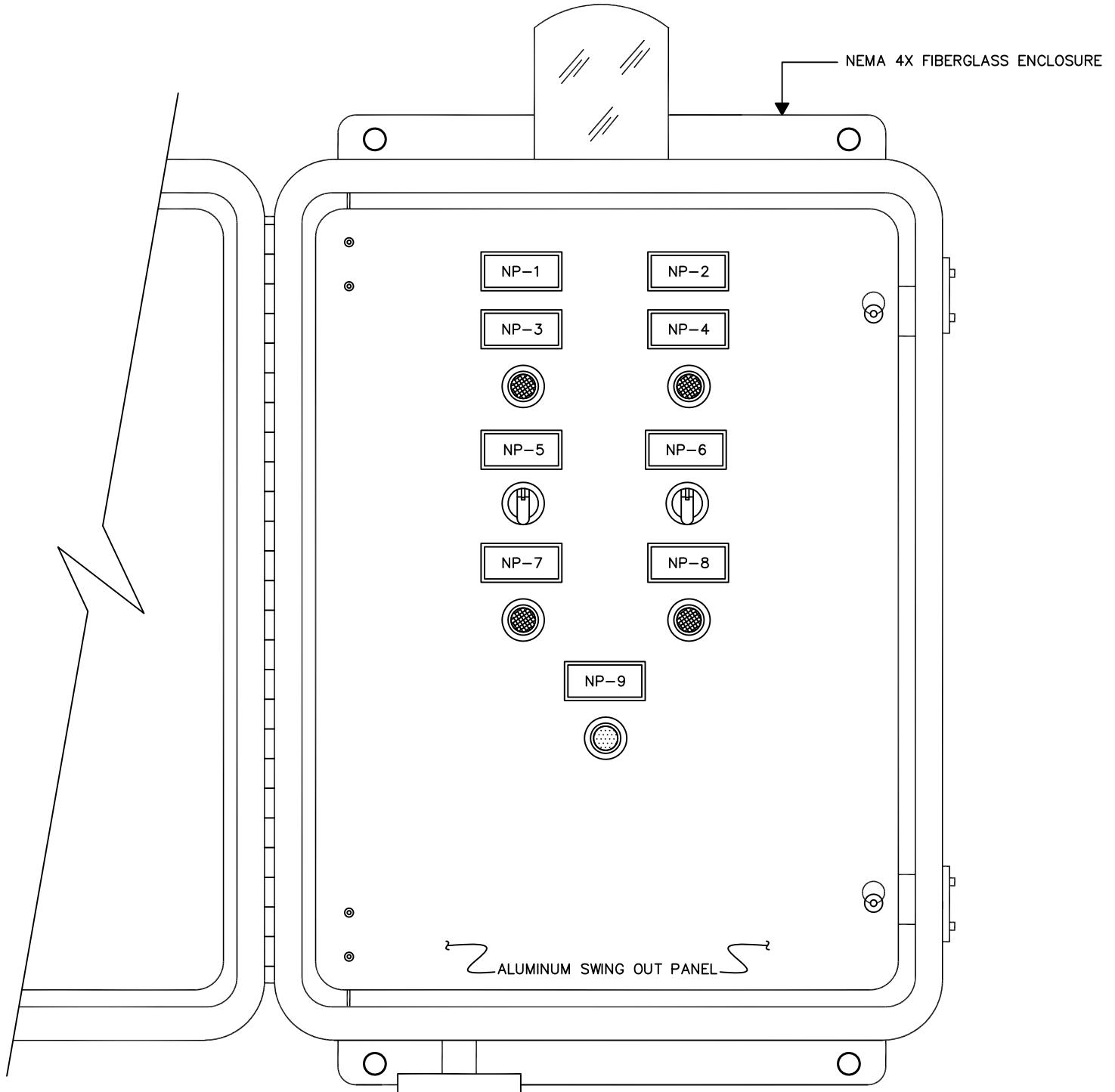


|   |                                      |  |   |  |
|---|--------------------------------------|--|---|--|
|   | Drawing Title<br><br>POWER DIAGRAM   |  |   |  |
|   |                                      |  |   |  |
|   |                                      |  |   |  |
| DATE<br>11/28/05                                  | REFERENCE DRAWING<br>S/N             | NO.<br>Sales Engineer<br>C.C.  | REVISION-LOCATION<br>DRAWN<br>Application Engineer<br>R.C.                  | ECN<br>APPROVED<br>BY<br>C. RACHAL<br>BY<br>DATE |
| Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL | COX<br>Research and Technology, Inc. | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br>Ph. (225)756-3271<br>Fax (225)755-1030 | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER<br>CP-2210<br>SHEET NUMBER<br>2 |  |



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

|                  | Drawing Title<br><br>CONTROL DIAGRAM              |                                      |                              |                       |                   |  |                           |      |    |
|------------------|---|--------------------------------------|------------------------------|-----------------------|-------------------|--|---------------------------|------|----|
|                  |   | REFERENCE DRAWING                    |                              | NO.                   | REVISION-LOCATION |  | ECN                       | DATE | BY |
| DATE<br>11/28/05 | S/N   | Sales Engineer<br>C.C.               | Application Engineer<br>R.C. | DRAWN<br>BY C. RACHAL | APPROVED<br>BY    |  |                           |      |    |
|                  | Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL | COX<br>Research and Technology, Inc. |                              |                       |                   | P.O. Box 77808<br>Baton Rouge, LA<br>70809 | PURCHASE ORDER NUMBER     |      |    |
|                  |   |                                      |                              |                       |                   | Ph. (225)756-3271<br>Fax (225)755-1030     | DRAWING NUMBER<br>CP-2210 |      |    |
|                  |   |                                      |                              |                       |                   |  | SHEET NUMBER<br>3         |      |    |



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

#### NAMEPLATE SCHEDULE

|      |                 |
|------|-----------------|
| NP-1 | PUMP 1          |
| NP-2 | PUMP 2          |
| NP-3 | RUN             |
| NP-4 | RUN             |
| NP-5 | HOA             |
| NP-6 | HOA             |
| NP-7 | HIGH TEMP       |
| NP-8 | HIGH TEMP       |
| NP-9 | HIGH TEMP RESET |

|   |   |                               |   |  |   |    |
|---|---|-------------------------------|---|--|---|----|
| Drawing Title                                     |   |                               |   |  |   |    |
| ENCLOSURE   |   |                               |   |  |   |    |
| DATE<br>11/28/05                                  | REFERENCE DRAWING<br>S/N  | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | ECN<br>DRAWN<br>BY C. RACHAL   | DATE<br>APPROVED<br>BY  | BY |
| Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL | <hr/> <hr/> <hr/> <b>COX</b><br>Research and Technology, Inc. <hr/> <hr/> |                               |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br><br>Ph. (225)756-3271<br>Fax (225)755-1030 | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER CP-2210<br><br>SHEET NUMBER 4 |    |

# BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO.     | DESCRIPTION         |
|------|-----|--------------|--------------|---------------------|
| 1    | 1   | STAHLIN      | RJ1816HPLDF  | ENCLOSURE           |
| 1a   | 1   | STAHLIN      | BP1816AL     | BACKPLATE           |
| 2    | 2   | ABB          | A16-30-10-84 | MOTOR STARTER       |
| 3    | 2   | ABB          | TA25DU19     | O.L. RELAY (13-19A) |
| 4    | 2   | SQUARE D     | QOU330       | CB1, CB2            |
| 5    | 1   | TIMEMARK     | 261DT120     | ALTERNATING RELAY   |
| 6    | 2   | ACI          | JR22FY       | AMBER PILOT LIGHT   |
| 7    | 2   | ACI          | JR22FR       | RED PILOT LIGHT     |
| 8    | 2   | ACI          | JR22P3M20B   | HOA SWITCH          |
| 9    | 1   | ACI          | JR22AN11B    | PUSH BUTTON         |
| 10   | 1   | SQUARE D     | QOU115       | CB3                 |
| 11   | 2   | MAGNECRAFT   | W388AMLCPX-9 | LATCHING RELAYS     |
| 12   | 1   | AC/DC        | BL5-R-120    | ALARM LIGHT         |
| 13   | 1   | ABB          | OT63E3       | DISCONNECT SWITCH   |
| 14   | 1   | SQUARE D     | QOU110       | CB4                 |
| 15   | 1   | MARATHON     | 1323580      | DISTRIBUTION BLOCK  |
| 16   | 1   | MARATHON     | 1321580      | NEUTRAL BLOCK       |
| 17   | 1   | STOCK        |              | GFI RECEPTACLE      |
| 18   |     |              |              |                     |
| 19   |     |              |              |                     |
| 20   |     |              |              |                     |
| 21   |     |              |              |                     |
| 22   |     |              |              |                     |
| 23   |     |              |              |                     |
| 24   |     |              |              |                     |
| 25   |     |              |              |                     |

|   |      |                   |  |                      |                           |              |                       |          |    |
|---|------|-------------------|--|----------------------|---------------------------|--------------|-----------------------|----------|----|
| Drawing Title                                     |      |                   |  |                      |                           |              |                       |          |    |
|   |      |                   |  |                      |                           |              |                       |          |    |
| BILL OF MATERIALS                                 |      | REFERENCE DRAWING |  | NO.                  | REVISION-LOCATION         |              | ECN                   | DATE     | BY |
|   |      | S/N               | Sales Engineer   | Application Engineer | DRAWN                     |              |                       | APPROVED |    |
| DATE<br>11/28/05                                  | C.C. | R.C.              | BY C. RACHAL   | BY                   | DATE                      |              |                       |          |    |
| Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL |      |                   |  |                      |                           |              | PURCHASE ORDER NUMBER |          |    |
|   | COX  |                   | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br><br>Ph. (225)756-3271<br>Fax (225)756-1030 |                      | DRAWING NUMBER<br>CP-2210 |              |                       |          |    |
|   |      |                   |  |                      |                           |              |                       |          |    |
|   |      |                   |  |                      |                           | SHEET NUMBER |                       | 5        |    |