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# COX

Research and Technology, Inc.

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## DUPLEX PUMP CONTROL PANEL LAKWOOD UNIT #6

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

|                                  |             |  |
|----------------------------------|-------------|--|
| VOLTAGE                          | 120/240V    | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ                         | 3/60        |  |
| NO. MOTORS                       | 2           |  |
| HP                               | 15          |  |
| FLA                              | 38          |  |
| TYPE OF PUMP                     | Submersible | (Self-Priming, Submersible)                      |
| MANUFACTURER                     | BARNES      |  |
| CATALOG NUMBER                   | 4SE1504L    |  |
|                                  |             |  |
| 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 |             |  |

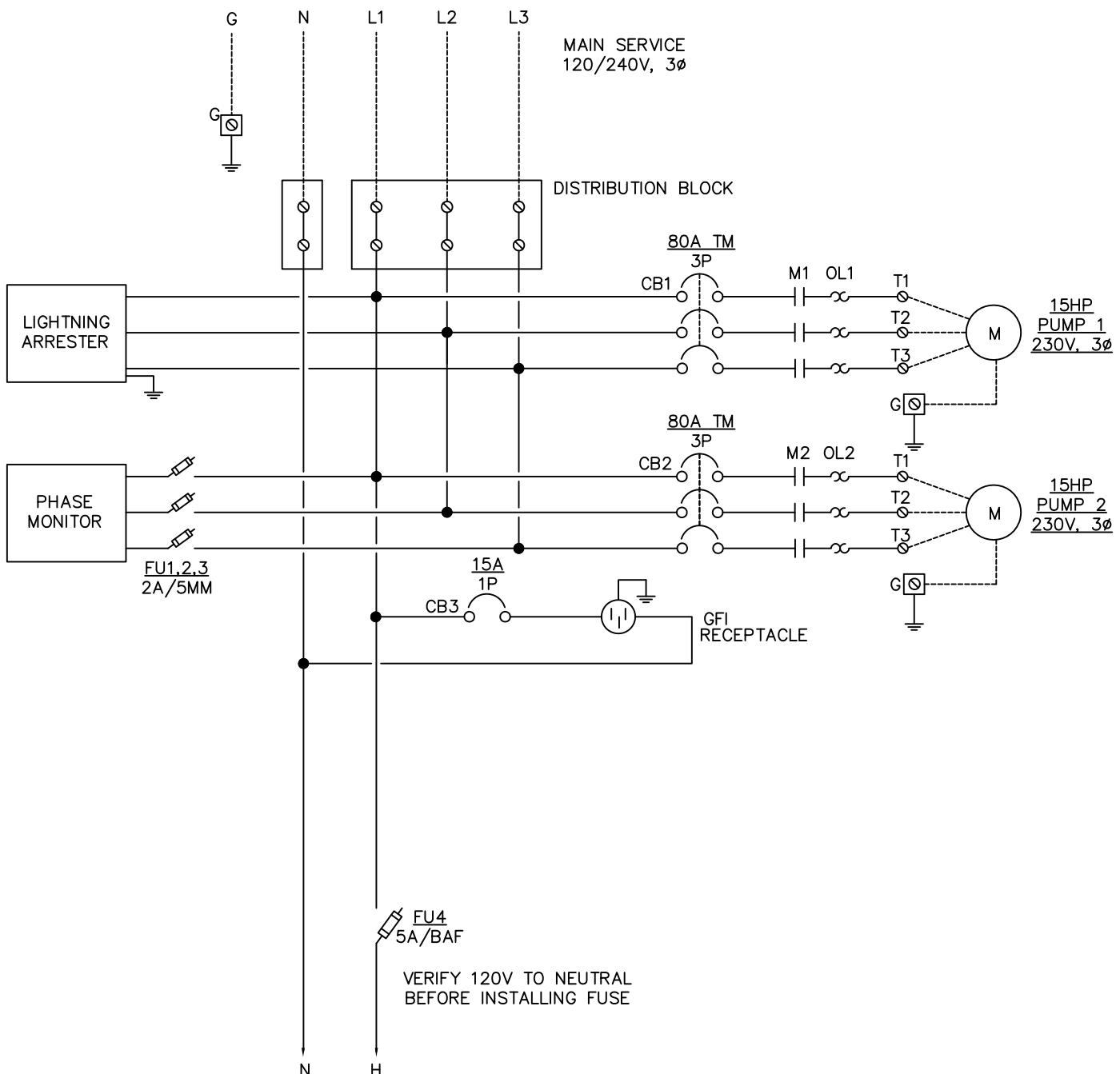
OPTIONS:

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

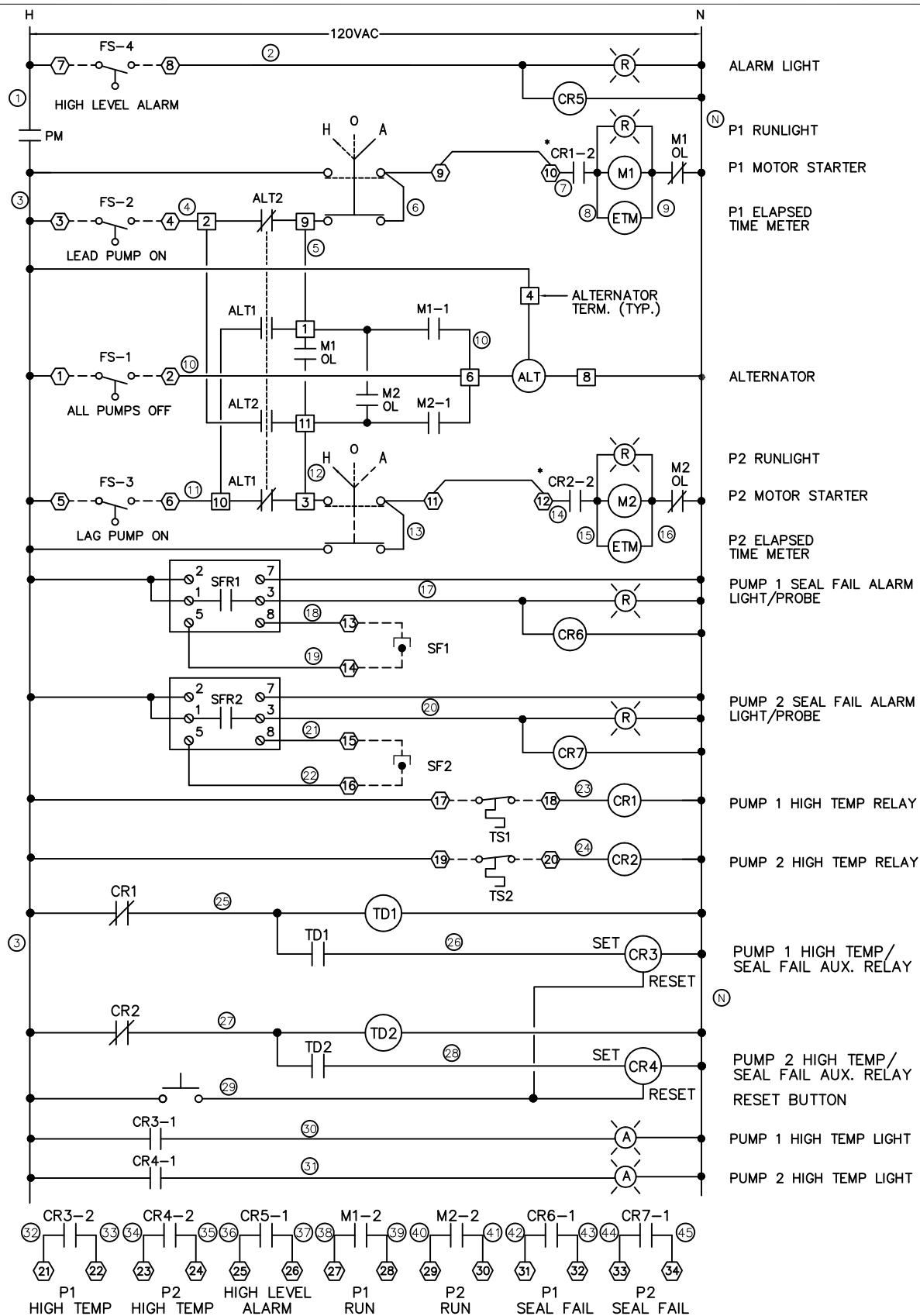
SOLD TO: Delta Process - Bossier City, LA  
TAG : LAKWOOD UNIT #6

SHIP TO: Delta Process - Ruston, LA

|                 |   |   |  |   |      |    |
|-----------------|---|---|--|---|------|----|
|                 | Drawing Title<br><br><b>PANEL DESCRIPTION</b>             |   |  |   |      |    |
|                 |   |   |  |   |      |    |
|                 |   |   |  |   |      |    |
|                 |   |   |  |   |      |    |
| DATE<br>9/15/05 | REFERENCE DRAWING<br>S/N                                  | NO.<br>Sales Engineer<br>C.C.               | REVISION-LOCATION<br>DRAWN<br>R.C.<br>BY C. RACHAL                                       | ECN   | DATE | BY |
|                 |   |   |  |   |      |    |
|                 |   |   |  |   |      |    |
|                 |   |   |  |   |      |    |
|                 | Project Title<br><br><b>DUPLEX PUMP<br/>CONTROL PANEL</b> | <u>COX</u><br>Research and Technology, Inc. | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br><br>Ph. (225)756-3271<br>Fax (225)756-1030 | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER<br>CP-2153<br><br>SHEET NUMBER<br>1 |      |    |

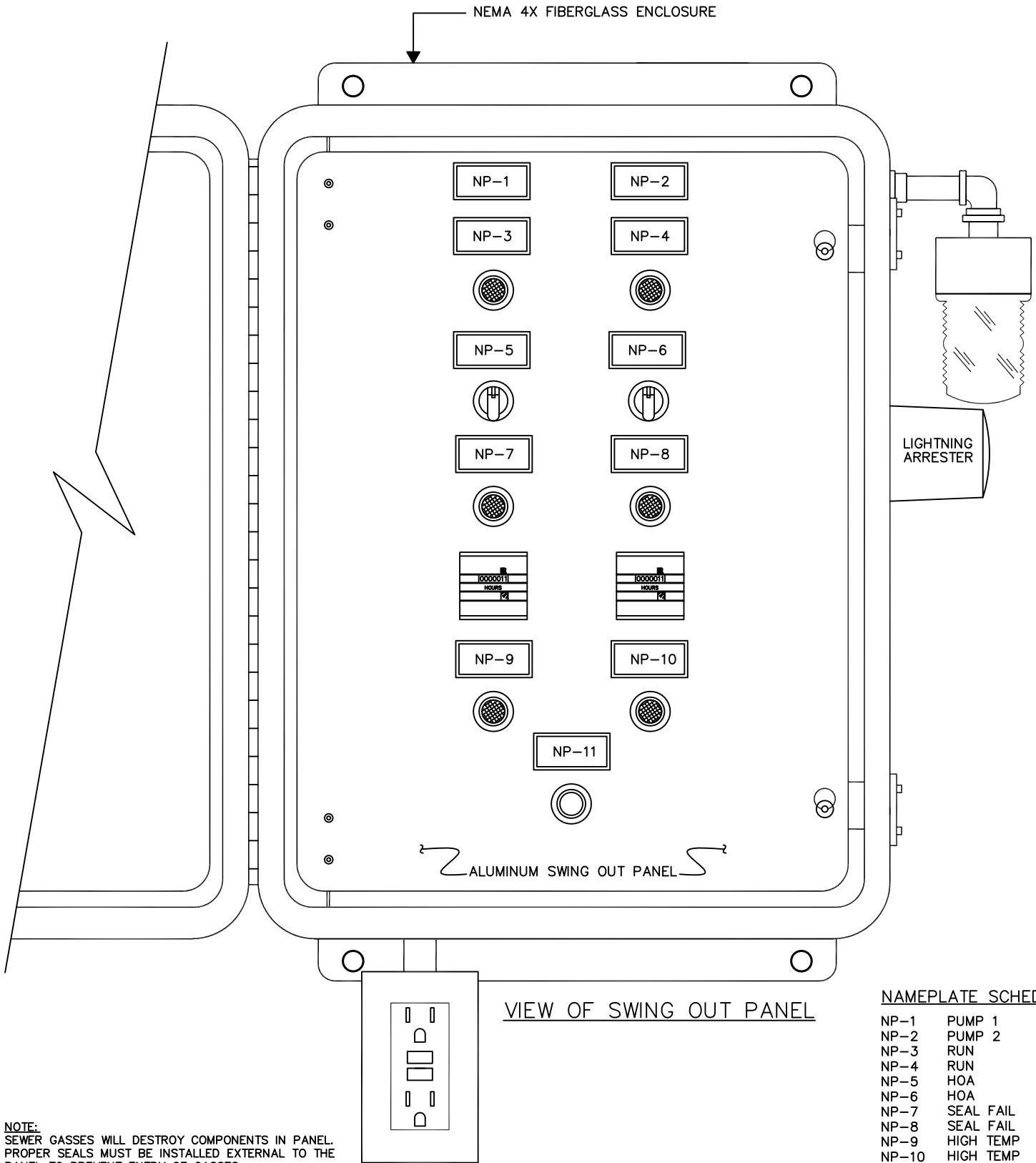


|                              |                          |                               |  |     |                       |         |
|------------------------------|--------------------------|-------------------------------|--|-----|-----------------------|---------|
|                              | Drawing Title            |                               |  |     |                       |         |
|                              | POWER DIAGRAM            |                               |  |     |                       |         |
|                              |                          |                               |  |     |                       |         |
|                              |                          |                               |  |     |                       |         |
| DATE<br>9/15/05              | REFERENCE DRAWING<br>S/N | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>DRAWN<br>Application Engineer<br>R.C. | ECN | DATE                  | BY      |
|                              |                          |                               |  |     |                       |         |
|                              |                          |                               |  |     |                       |         |
|                              |                          |                               |  |     |                       |         |
| Project Title                |                          |                               |  |     | PURCHASE ORDER NUMBER |         |
| DUPLEX PUMP<br>CONTROL PANEL | COX                      | Research and Technology, Inc. |  |     | DRAWING NUMBER        | CP-2153 |
|                              |                          |                               |  |     | SHEET NUMBER          | 2       |
|                              |                          |                               |  |     |                       |         |



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

| Drawing Title                |                   |                        |                              |  | ECN                 | DATE | BY |
|------------------------------|-------------------|------------------------|------------------------------|--|---------------------|------|----|
|                              | REFERENCE DRAWING |                        | NO.                          | REVISION-LOCATION  |                     |      |    |
| DATE<br>9/15/05              | S/N               | Sales Engineer<br>C.C. | Application Engineer<br>R.C. | DRAWN<br>BY C. RACHAL  | APPROVED<br>BY DATE |      |    |
| Project Title                |                   |                        |                              |  |                     |      |    |
| DUPLEX PUMP<br>CONTROL PANEL | COX               |                        |                              | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br>Ph. (225)756-3271<br>Fax (225)756-1030 |                     |      |    |
|                              |                   |                        |                              |  |                     |      |    |
|                              |                   |                        |                              |  |                     |      |    |
|                              |                   |                        |                              |  |                     |      |    |



| NAMEPLATE SCHEDULE |                 |
|--------------------|-----------------|
| NP-1               | PUMP 1          |
| NP-2               | PUMP 2          |
| NP-3               | RUN             |
| NP-4               | RUN             |
| NP-5               | HOA             |
| NP-6               | HOA             |
| NP-7               | SEAL FAIL       |
| NP-8               | SEAL FAIL       |
| NP-9               | HIGH TEMP       |
| NP-10              | HIGH TEMP       |
| NP-11              | HIGH TEMP RESET |

|                 |                              |   |                      |  |                           |         |
|-----------------|------------------------------|---|----------------------|--|---------------------------|---------|
|                 | Drawing Title                |   |                      |  |                           |         |
|                 | ENCLOSURE                    |   |                      |  |                           |         |
|                 |                              | REFERENCE DRAWING                           | NO.                  | REVISION-LOCATION                          | ECN                       | DATE BY |
| DATE<br>9/15/05 | S/N                          | Sales Engineer                              | Application Engineer | DRAWN                                      | APPROVED                  |         |
|                 |                              | C.C.  | R.C.                 | BY C. RACHAL                               | BY DATE                   |         |
|                 | Project Title                | <u>COX</u><br>Research and Technology, Inc. |                      | P.O. Box 77808<br>Baton Rouge, LA<br>70809 | PURCHASE ORDER NUMBER     |         |
|                 | DUPLEX PUMP<br>CONTROL PANEL |   |                      | Ph. (225)756-3271<br>Fax (225)756-1030     | DRAWING NUMBER<br>CP-2153 |         |
|                 |                              |   |                      |  | SHEET NUMBER<br>4         |         |

## BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER  | PART NO.     | DESCRIPTION         |
|------|-----|---------------|--------------|---------------------|
| 1    | 1   | ALLIED        | AM24200RL/DF | ENCLOSURE           |
| 1a   | 1   | ALLIED        | MP2420P      | BACKPLATE           |
| 2    | 2   | CUTLER HAMMER | CE15HNS3AB   | MOTOR STARTER       |
| 3    | 2   | CUTLER HAMMER | C316KNA3C    | O.L. RELAY (29-42A) |
| 4    | 2   | SQUARE D      | QOU380       | CB1, CB2            |
| 5    | 1   | TIMEMARK      | 261DT120     | ALTERNATING RELAY   |
| 6    | 4   | ACI           | JR22FR       | RED PILOT LIGHT     |
| 7    | 2   | ACI           | JR22P3M20B   | HOA SWITCH          |
| 8    | 1   | TOMAR         | 490S-120R    | STROBE              |
| 9    | 1   | MARATHON      | 1323580      | DISTRIBUTION BLOCK  |
| 10   | 1   | SSAC          | PLMU-11      | PHASE MONITOR       |
| 11   | 2   | REDINGTON     | 711-0190     | ELAPSED TIME METER  |
| 12   | 1   | SQUARE D      | QOU115       | CB3                 |
| 13   | 1   | STOCK         |              | GFI                 |
| 14   | 2   | SSAC          | LLC54AA      | SEAL FAIL RELAY     |
| 15   | 1   | DELTA         | LA603        | LIGHTNING ARRESTER  |
| 16   | 2   | ACI           | JR22FY       | AMBER PILOT LIGHT   |
| 17   | 5   | IDEC          | RY2SUAC120V  | CR1,2,5,6,7         |
| 18   | 2   | CUTLER HAMMER | C320KGS3     | AUXILIARY CONTACTS  |
| 19   | 2   | OMRON         | 4KN15        | TIME DELAY          |
| 20   | 2   | MAGNECRAFT    | W388AMLCPX-9 | LATCHING RELAY      |
| 21   | 1   | ACI           | JR22AN11B    | PUSH BUTTON         |
| 22   | 1   | MARATHON      | 1321580      | NEUTRAL BLOCK       |
| 23   |     |               |              |                     |
| 24   |     |               |              |                     |
| 25   |     |               |              |                     |

|                 |                              |  |  |                |  |                   |                       |      |    |
|-----------------|------------------------------|--|--|----------------|--|-------------------|-----------------------|------|----|
|                 | Drawing Title                |  |  |                |  |                   |                       |      |    |
|                 | BILL OF MATERIALS            |  |  |                |  |                   |                       |      |    |
|                 |                              |  | REFERENCE DRAWING  |                | NO.  | REVISION-LOCATION | ECN                   | DATE | BY |
| DATE<br>9/15/05 |                              |  | S/N  | Sales Engineer | Application Engineer   | DRAWN             | APPROVED              |      |    |
|                 |                              |  | R.C.   | BY C. RACHAL   | BY   | DATE              |                       |      |    |
|                 | Project Title                |  | <br>COX<br><small>Research and Technology, Inc.</small> |                | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br><br>Ph. (225)756-3271<br>Fax (225)756-1030 |                   | PURCHASE ORDER NUMBER |      |    |
|                 | DUPLEX PUMP<br>CONTROL PANEL |  |  |                |  |                   | DRAWING NUMBER        |      |    |
|                 |                              |  |  |                |  |                   | CP-2153               |      |    |
|                 |                              |  |  |                | SHEET NUMBER   |                   | 5                     |      |    |