



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0016

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

August 8, 2007
Subject: **LOA Passenger/Car Ferry Vessel**
Project No: FBD-1168(100)X
Pin: 11681.00
Amendment No. 1

Dear Sir/Ms:

Please make the following change to the Bid Documents.

In the Plan Sheets, ADD the attached: Seaworthy Drawing # 575-02-436 (DOC) Alarm System Specification titled "Preliminary Machinery Alarm List" four pages total.

The following question has been received.

Question: Alarm Systems Diagram, Drawing # 575-02-436, General Note # 3 refers to a Seaworthy Systems, Inc. document # 575-02-436 (DOC) for the Central Alarm System. Can a copy of this document be provided to the bidders?

Response: Please see attached documents.

Consider this change prior to submitting your bid on August 31, 2007.

Sincerely,

Scott Bickford
Contracts & Specifications Engineer




PRINTED ON RECYCLED PAPER

| NO. | REFERENCES |
|-----|---|
| 1 | SEAWORTHY DRAWING 575-02-436 ALARM SYSTEM |
| 2 | SPECIFICATION |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
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| 10 | |

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| APPROVALS: | SUBMIT DATE | APPRVD BY | EXAMINED DATE | RE-SUBMIT DATE | APPRVD BY | APPRVD DATE |
|------------|-------------|-----------|---------------|----------------|-----------|-------------|
| OWNER | - | - | - | - | - | - |
| USCG | - | - | - | - | - | - |
| ABS | - | - | - | - | - | - |
| USPHS | - | - | - | - | - | - |

| | | | | | |
|---------------------------|-------------------------|--------------|---|---|--|
| CHECKED JAH 1-15-04 | AUTH* WAW 1-15-04 | SCALE NTS |  <p>Seaworthy Systems, Inc. P.O. BOX 965 ESSEX, CT 06426 USA TEL: (860) 767-9061 FAX: (860) 767-1263</p> | MAINE STATE FERRY 517A MAIN STREET ROCKLAND, ME 04841 | TITLE RO-RO / PASS FERRY PRELIMINARY MACHINERY ALARM LIST |
| DRAWN WRP | ORIG. DATE 10-29-05 | | | DRG No. 575-02-436A | REV. - |

STATE OF MAINE FERRY LIST OF MONITORED ALARM POINTS

| No. | ALARM CONDITION | SENSOR TYPE | COMMENT 1 | COMMENT 2 |
|-------------------------------------|--------------------------------|---------------------|---------------------------------------|---------------------|
| LIST #1. GROUP ALARMS | | | | |
| 1 | FIRE | CONTACT | SPRINKLER/CO ₂ REL. ACTIV. | |
| 2 | FLOOD | CONTACT | BILGE ALARM PANEL | |
| 3 | MAIN PROPULSION | CONTACT | MAIN ENGINE PANEL | |
| 4 | GENERATING PLANT | CONTACT | SSDG PANEL | |
| 5 | AUXILIARY SYSTEMS | CONTACT | MACHINERY ALARM PANEL | |
| 6 | STEERING | CONTACT | STEERING GEAR ALARM PANEL | |
| LIST #2. EMERGENCY GENERATOR | | | | |
| 1 | STARTING BATTERY CHARGE. LOW | VOLTAGE TRANSDUCER | 4-20mA OUTPUT | MANUFACTURER SUPPLY |
| 2 | ENGINE FAILURE TO START | CONTACT | CONTACT | MANUFACTURER SUPPLY |
| 3 | BATTERY CHARGER FAILURE | CONTACT | CONTACT | MANUFACTURER SUPPLY |
| 4 | FUEL TANK LEVEL | LEVEL TRANSDUCER | 4-20mA OUTPUT | MANUFACTURER SUPPLY |
| 5 | FUEL LEVEL LOW | LEVEL SWITCH | CONTACT | MANUFACTURER SUPPLY |
| 6 | BEARING TEMP. HIGH | RTD | | MANUFACTURER SUPPLY |
| 7 | WINDING TEMP. HIGH | RTD | | MANUFACTURER SUPPLY |
| 8 | COOLANT TEMP. HIGH | TEMPERATURE SEWITCH | CONTACT | MANUFACTURER SUPPLY |
| LIST #3. MAIN ENGINE (PORT) | | | | |
| 1 | L.O. TEMPERATURE. H | PRESSURE TRANSDUCER | 4-20mA TRANSD. | MANUFACTURER SUPPLY |
| 2 | FUEL PRESS. LOW | PRESSURE TRANSDUCER | 4-20mA TRANSD. | MANUFACTURER SUPPLY |
| 3 | LUB OIL PRESS. LOW | PRESSURE TRANSDUCER | 4-20mA TRANSD. | MANUFACTURER SUPPLY |
| 4 | COOLANT TEMP. HIGH | RTD | | MANUFACTURER SUPPLY |
| 5 | EXHAUST TEMP. HIGH | THERMOCOUPLE | | MANUFACTURER SUPPLY |
| 6 | GEARBOX LUB LEVEL. LOW | FLOAT SWITCH | CONTACT | MANUFACTURER SUPPLY |
| 7 | GEARBOX THRUST BRG. TEMP. HIGH | RTD | | MANUFACTURER SUPPLY |
| LIST #4. MAIN ENGINE (STBD.) | | | | |
| 1 | L.O. TEMPERATURE. H | 4-20mA TRANSD. | | MANUFACTURER SUPPLY |
| 2 | FUEL PRESS. LOW | 4-20mA TRANSD. | CONTACT | MANUFACTURER SUPPLY |
| 3 | LUB OIL PRESS. LOW | 4-20mA TRANSD. | CONTACT | MANUFACTURER SUPPLY |
| 4 | COOLANT TEMP. HIGH | RTD | | MANUFACTURER SUPPLY |
| 5 | EXHAUST TEMP. HIGH | T.COUPLE | | MANUFACTURER SUPPLY |
| 6 | GEARBOX LUB LEVEL. LOW | FLOAT SWITCH | CONTACT | MANUFACTURER SUPPLY |
| 7 | GEARBOX THRUST BRG. TEMP. HIGH | RTD | | MANUFACTURER SUPPLY |

STATE OF MAINE FERRY LIST OF MONITORED ALARM POINTS

| No. | ALARM CONDITION | SENSOR TYPE | COMMENT 1 | COMMENT 2 |
|-----|--|-------------------------|----------------|---------------------------|
| | LIST #7, MISC. MCY SPACE ALARMS | | | |
| 1 | FUEL LEVEL SWITCH, H | MOBBREY TYPE M | CONTACT | 575-02-261 |
| 2 | FUEL LEVEL SWITCH, L | MOBBREY TYPE M | CONTACT | 575-02-261 |
| 3 | FUEL LEVEL XMITTER | 4-20mA LEVEL TRANSDUCER | ANALOG | 575-02-261 |
| 4 | FUEL LEVEL SWITCH, L | MOBBREY TYPE M | CONTACT | 575-02-261 |
| 5 | FIREMAIN PRESSURE SWITCH, L | COMMERCIAL, NEMA 4 | CONTACT | 575-02-521 |
| 6 | SPRINKLER PRESS. SW, L | COMMERCIAL, NEMA 4 | CONTACT | 575-02-521 |
| 7 | SEWAGE TANK LVL. SW., H | MOBBREY TYPE M | CONTACT | 575-02-528 |
| 8 | SEWAGE TANK LVL. XMITTER | 4-20mA LEVEL TRANSDUCER | ANALOG | 575-02-528 |
| 9 | BILGE ALARM SW, H (Ø) | GEMS LS-270 | CONTACT | 575-02-529 |
| 10 | L.O. TANK LEVEL XMITTER | 4-20mA LEVEL TRANSDUCER | ANALOG | 575-02-543 |
| 11 | L.O. TK LEVEL SW, H | MOBBREY TYPE M | CONTACT | 575-02-543 |
| 12 | EMERG. AIR PRESS. SW, L | COMMERCIAL, NEMA 4 | CONTACT | 575-02-551 |
| 13 | START AIR PRESS. SW, LOW | COMMERCIAL, NEMA 4 | CONTACT | 575-02-551 |
| 14 | WASTE OIL TK. LVL. SW, H | MOBBREY TYPE M | CONTACT | 575-02-583 |
| 15 | OILY WATER TK. LVL. SW, H | MOBBREY TYPE M | CONTACT | 575-02-583 |
| 16 | WASTE OIL TK. LVL. XMITTER | 4-20mA LEVEL TRANSDUCER | ANALOG | 575-02-583 |
| 17 | OILY WATER TK. LVL. XMITTER | 4-20mA LEVEL TRANSDUCER | ANALOG | 575-02-583 |
| 18 | FRESH WATER TK. LVL. XMITTER | 4-20mA LEVEL TRANSDUCER | ANALOG | 575-02-583 |
| 19 | SHAFT BRAKE AIR PRESS. L | COMMERCIAL, NEMA 4 | CONTACT | 575-02-551 |
| 20 | BOILER TROUBLE | | CONTACT | MANUFACTURER SUPPLY |
| 21 | PORT ME TROUBLE | | CONTACT | MANUFACTURER SUPPLY |
| 22 | STBD ME TROUBLE | | CONTACT | MANUFACTURER SUPPLY |
| 23 | NO. 1 DG TROUBLE | | CONTACT | MANUFACTURER SUPPLY |
| 24 | NO. 2 DG TROUBLE | | CONTACT | MANUFACTURER SUPPLY |
| 25 | BT TROUBLE | | CONTACT | MANUFACTURER SUPPLY |
| 26 | FIRE | | CONTACT | MANUFACTURER SUPPLY |
| 27 | CO2 DISCHARGE | | CONTACT | CO2 SYSTEM DRAWING |
| 28 | LOW BUS VOLTAGE | | CONTACT | EMER. SWITCHBOARD DRAWING |
| 29 | EDG RUNNING | | CONTACT | EMER. SWITCHBOARD DRAWING |
| 30 | NO. 1 STEERING GEAR TROUBLE | | CONTACT | STEERING GEAR SYSTEM |
| 31 | NO. 2 STEERING GEAR TROUBLE | | CONTACT | STEERING GEAR SYSTEM |
| 32 | EDG TROUBLE | | CONTACT | MANUFACTURER SUPPLY |
| 33 | DC1 VOLTAGE LOW | | CONTACT | N/A |
| 34 | DC2 VOLTAGE LOW | | CONTACT | N/A |
| 35 | DC3 VOLTAGE LOW | | CONTACT | N/A |
| 36 | DC4 VOLTAGE LOW | | CONTACT | N/A |
| 37 | DC5 VOLTAGE LOW | | CONTACT | N/A |
| | LIST #8, BOW THRUSTER | | | |
| 1 | ENGINE STARTING AIR PRESS., LOW | PRESSURE TRANSDUCER | 4-20mA TRANSD. | MANUFACTURER SUPPLY |
| 2 | LUB OIL PRESS. LOW | PRESSURE TRANSDUCER | 4-20mA TRANSD. | MANUFACTURER SUPPLY |
| 3 | BOW THRST. POWER PACK., PRESS. LOW | PRESS. SWITCH | CONTACT | MANUFACTURER SUPPLY |