

The unit is an integrated transceiver/antenna/GPS design using a floating 10 to 32 VDC power supply. The unit is configured for automatic reduced position transmissions when the vessel is stationary (i.e., in port). It allows for port stays without power drain or power shut down. The unit restarts normal position transmission automatically when the vessel goes to sea.

The TT-3026-NMFS provides operation down to +/-15 degree angles. Although the unit has the capability of two-way communication to send and receive private e-mail and other messages; it can only use this capability when additional equipment not required by NMFS is purchased (i.e., a laptop, personal computer, or message display terminal). A configuration option is available to automatically send position reports to a private address, such as a fleet management company.

General Procedure for Acquiring and Installing Approved VMS

A vessel owner wishing to purchase either of the approved systems may contact the entity identified under the heading VMS Provider Addresses for Thrane & Thrane TT-3022D-NMFS and TT-3026-NMFS. The owner should identify himself or herself as a vessel owner in the "U.S. South Atlantic Rock Shrimp Fishery." The Thrane & Thrane transceiver set the vessel owner purchases will be configured for the Rock Shrimp Fishery.

To use the TT-3022-NMFS or the TT-3026-NMFS, the vessel owner will need to establish an Inmarsat-C system use contract with an approved Inmarsat-C communications service provider. The owner will be required to complete the Inmarsat-C "Registration for Service Activation for Maritime Mobile Earth Station." The owner should consult with LandSea Systems when completing this form.

LandSea Systems personnel will perform the following before shipment: (a) Configure the transceiver according to NOAA Fisheries Office for Law Enforcement specifications for the South Atlantic Rock Shrimp Fishery; (b) download the predetermined NMFS position reporting and broadcast command identification numbers into the unit; (c) test the unit to ensure operation when installation has been completed on the vessel; and (d) forward the Inmarsat service provider and the transceiver identifying information to the NOAA Fisheries Office for Law Enforcement.

III. Approved Communications Service Providers

NOAA Fisheries Office for Law Enforcement has approved the below-listed Telenor and Xantic satellite communications services for the South Atlantic Rock Shrimp Fishery.

A. Telenor Satellite Services/Inmarsat-C

Inmarsat-C is a store-and-forward data messaging service. Inmarsat-C allows users to send and receive information virtually anywhere in the world, on land, at sea, and in the air. Inmarsat-C supports a wide variety of applications including Internet e-mail*, position and weather** reporting, a free daily news service*, and remote equipment monitoring and control. Mariners can use Inmarsat-C free of charge to send critical safety at sea messages as part of the U.S. Coast Guard's Automated Mutual-Assistance Vessel Rescue system and of the NOAA Shipboard Environmental Acquisition System programs**. (Features marked with * require use of attached laptop; features marked with ** can be accessed using the TT3022D.)

For the Telenor address, look under the heading VMS Provider Addresses.

Inmarsat-C features: Vessel owners wishing to use Inmarsat-C will need to purchase an Inmarsat-C transceiver approved for the fishery. The owner will need to complete an Inmarsat-C system use contract with Telenor, including a provision for a mobile earth station license (FCC requirement). The transceiver will need to be commissioned with Inmarsat according to Telenor instructions. The owner should refer to and follow the configuration, installation, and service activation procedures for the specific transceiver purchased.

B. Xantic

Xantic is a global leader in providing Vessel Monitoring Services to the fishing industry. By installing on the vessel an Inmarsat-C transceiver approved by NOAA Fisheries Office for Law Enforcement, fishermen can send and receive E-mail*, to and from land; the transceiver automatically sends vessel position reports to the NOAA Fisheries Office for Law Enforcement, and is fully compliant with the International Coast Guard Search and Rescue Centers**. (Features marked with * require use of attached laptop, features marked with ** can be accessed from the TT3022D.)

XANTIC Vessel Monitoring System Services are being sold through its Service Provider, LandSea Systems, Inc. For the LandSea and XANTIC

addresses, look under the heading VMS Provider Addresses.

XANTIC Features offered through LandSea Systems: Customer Service supports the security and privacy of vessel accounts and messages with the following: (a) Password authentication for vessel owners or agents and for the NOAA Fisheries Office for Law Enforcement to prevent unauthorized changes or inquiries; and (b) separation of private messages from NOAA Fisheries Office for Law Enforcement messages. (The Office for Law Enforcement receives VMS-related position reports, only.)

Billing is separated between accounts for the vessel owner and the NOAA Fisheries Office for Law Enforcement. VMS position reports and vessel-initiated messaging are paid for by the vessel owner. Messaging initiated from the Office for Law Enforcement operations center is paid for by NOAA.

LandSea Systems provides customer service for XANTIC users to support and establish two-way transmission of transceiver unit configuration commands between the transceiver and land-based control centers. This supports the Office for Law Enforcement's message needs and, optionally, fishermen's private message needs.

The vessel owner can configure automatic position reports to be sent to a private address, such as to a fleet management company. The vessel can send and receive private e-mail and other messages when the transceiver has such an input device as a laptop or personal computer attached.

Vessel owners wishing to use XANTIC services will need to purchase an Inmarsat-C transceiver approved for the fishery. The owner will need to complete an Inmarsat-C system use contract with XANTIC, including a mobile earth station license (FCC requirement). The transceiver will need to be commissioned with Inmarsat according to XANTIC's instructions. The owner should refer to and follow the configuration, installation, and service activation procedures for the specific transceiver purchased.

General Procedures Regarding Communication Service Providers

It is recommended that the vessel owner keep for his or her records and that Telenor and Xantic have on record the following identifying information: (a) Signed and dated receipts and contracts; (b) transceiver serial number; (c) Telenor or Xantic customer number, user name and password; (d) e-mail address of transceiver; (e) Inmarsat identification number; (f) owner name;