



TECHNICAL NOTE 03-96

RANS SYSTEM

REPLACEMENT OF MOBILE MAP PLUS ENCODER WITH RANS ENCODER

DATED MAY 30, 1996

BACKGROUND

*The Mobile Map Plus System provides visual graphic indication of alarms in remote locations and in vehicles. The **RANS System** provides voice annunciation to alarms to driving patrols over portable alarm receivers and/or the facility radio system. There are times when a facility using the Mobile Map Plus system wishes to change over to the RANS System. Under certain circumstances, the changeover can be accomplished by changing the alarm signal encoder, replacing the field-installed equipment, and making minor adjustments to the system. This information describes the system changeover under these circumstances.*

PROCEDURE

This procedure assumes that you have an operating Mobile Map Plus (MMP) system and you will be converting to a RANS System with no changes in operating radio frequency or alarm connections. Remove power from the complete system (including the alarm system providing alarms to the encoder) before making any changes.

1. The RANS and Mobile Map Plus encoders are the same size and have the same mounting. This procedure assumes that the encoder is installed inside a Perimeter Products MMI enclosure. The power, alarm, and signal output connections are generally the same for both units, except that the RANS board has a loudspeaker connection allowing you to listen to the alarm messages as they are produced.
 - A. Disconnect and label if necessary the wiring from the MMP encoder.
 - B. Remove the MMP encoder board and install the RANS board in the same location, with the same orientation, using the same screws.
 - C. Attach connections to the RANS board:
 1. Connect the power leads. The power is 12VDC coming from the UPS-1 power supply board. Connect to J10, observing polarity.
 2. Connect the alarm inputs by plugging in the 60-pin ribbon cable into the board-mounted connector.
 3. Connect the signal output (to the transmitter) to J11, Xmit Out. Observe the same polarity as with the MMP board. This is important so the trans-

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- mitter is properly keyed.
4. Connect the loudspeaker provided with the RANS board to J13, Spkr. Polarity is not important. Using the hardware provided, mount the loudspeaker face down to the mounting studs located to the upper right of the RANS board.
 - D. Install new model number/serial number label inside MMI enclosure to identify new RANS board for warranty purposes.
 - E. Recheck all connections and power the system in accordance with the installation manual. Test individual alarm messages through loudspeaker first before proceeding.
2. Dempsey has said that you will try to reuse the transmitter installed for the MMP system. This has worked well in the past. We have enclosed a tested transmitter module just in case.

Return the transmitter module to **CDT** if you do not use it.

- A. The key is to verify that the alarm signal quality and transmit range is acceptable. Radio test equipment is needed to perform exact system measurements.
 - B. The transmitter antenna should be replaced if possible because the existing one has been installed for many years and the newer ones have more signal gain.
3. The portable receivers for this project have been delayed because of problems with the manufacturer. They will be shipped to you in about 2-1/2 weeks.

If you have any questions, or have any problems during installation, please contact me. I am in the office at about 0600 (0900 your time).