Outfitter SAT Phone Installation

I. Purpose:

The Outfitter SAT phone is to be installed and hooked up to ADaM as a primary remote dial in communication tool for the ARCS. It will also be used as an emergency fax/phone when land lines are malfunctioning. The land lines will still be maintained as the primary means for phone/fax communications.

The existing Inmarsat B hardware currently at each site may be activated for faster data transmissions using Outfitter as the sat phone service provider.

The billing is handled by pre-purchasing specific blocks of time. When the pre-paid time has been used up the Outfitter system warns so TWP can purchase more time up front. If not, the service is cut off. This should protect TWP from accumulating large sat phone bills without knowing it.

II. Cautions and Hazards:

- SAT phone use should be limited because of the high costs

III. Requirements:

None.

IV. Procedure:

A. Steps:

To install and integrate the Nera Worlphone with ADaM on Nauru/Manus:

A satellite terminal is relatively easy to set up. A direct line of sight between the satellite and the satellite phone is required, i.e., there can be no obstructions such as trees, metal window screens, or buildings. Some windows may have a solar coating on them that will block a signal. Please follow these simple steps:

1. Lift the antenna (lid of terminal) and turn the power on. The hard case that the world phone is in is the antenna. Install it in the external mounting case and mount it on the roof.

2. Select the proper satellite for the geographic area you are in. Mount the antenna.

3. The antenna must be aimed at the satellite. The easiest way to find the satellite is to slowly move the antenna around until the bars on the LCD display go as high as possible (strongest signal is shown when bar is about half way across the screen).

4. Install the worldphone in the D-van. Install new fax machine in D-Van. Make necessary connection to the fax machine. You should be able to test voice and fax at this point.

5. Connect the worldphone to ADaM by using the ‘db9’ cable supplied. Put one end in the worldphone and the other end in comm port ‘b’ in the back of the ADaM CPU. There should be no need to use any kind of adapters for this connection.

6. From the console window, type 'tip /dev/cua/b'. You should get a connected message and then you can type ‘AT’ and press ‘return’ and you should get an ‘OK’ back from the modem. To exit the tip session, press ‘~.’ (tilde-dot).

7. Configure ADaM's B port for dial-in connections. To do this, go to the console su to root and type 'admintool'. This will bring up the admin tool screen. You can select serial ports under the browser menu item. When you select the ‘B’ port in the list, select ‘modify’ under the edit menu. When the modify screen comes up, select 'Modem - Dial in only' from the template list and clock OK. Then exit admintool.

8. Test the setup by calling the inmarsat worldphone from another computer. You will get a non-ppp connection and should be prompted with the adam login prompt.

B. Outfitter additional Set-up instructions for Windows 95 dial-up networking to work with Inmarsat mini-m. (FYI only).

The data option on the Inmarsat mini-M terminal emulates a Hayes-compatible mode. As such, nearly all applications that require a dial-up modem connection can use the Inmarsat mini-M terminal. Most applications use the Dial-Up Networking built into Windows 95. These applications include the usual mail clients such as Netscape mail, Eudora, and Microsoft Exchange. Setting up these applications to work with an Inmarsat mini-M terminal requires only two simple steps:

1. Install a modem driver for Inmarsat mini-M
    - Dial-Up Networking and the correct network protocols must be installed (e.g. TCP/IP, NETBEUI). This normally has already been done if your computer has been used for Internet dial-up connections before.
    - Select Modems from Control Panel
    - Click Add button to install new modem
    - If installing on a PC with pCMCIA slots, a dialog box may appear prompting for type of modem to install –PCMCIA or Other. Select Other then Next.
    - Check 'Don't detect my modem; I will select it from a list.' And press Next
    - In the Manufacturer's list, choose Standard Modem Types.
    - In the Models dialog, choose **Standard 9600 bps modem**. Click Next.
    - In the 'Select the port to use with this modem' dialog box, choose the appropriate communications
2. Set up Dial-Up Networking connection
    - From My Computer Dial | Dial-Up-Networking double-click Make New Connection.
    - Type a brief description of the connection's purpose into the "Type a Name…" dialog box, e.g., 'Eudora POP via Inmarsat mini-M'
    - Choose the 9600bps modem that was created in the previous step.
    - Click the Configure button to configure modem.
    - On the General tab, set the maximum speed to the DTE speed of the terminal. This is configurable on the terminal and is typically set to 9600.
    - On the Connection tab, click the Advanced button
    - Check 'Use flow control' and Select Hardware (RTS/CTS)
    - In the Extra Settings field, type: +ws45=0;
    - Check Record a log file
    - Click OK, OK, then Next
    - Enter the complete number as dialed via Inmarsat terminals (e.g. 001 + city code + area code + number +) in the telephone number field. Leave the Area Code and Country Code Fields at default. Click Finish.
    - Right-Click on the icon for the connection you just created and select Properties.
    - Uncheck 'Use country code and area code.' Click OK.

V. References:

None.

VI. Attachments:

None.