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PSB # 706-B SUPERSEDES # 706 APC # 388/398 EXPIRATION Date: N/A

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Memo to: Distribution List

From: Product Services Schaumburg

Subject: Programming Guide For Transparent MSF5000 Line Code Detect Falsing Problems

This procedure addresses a falsing issue where clear audio received by the Base Station over the wireline is wrongfully interpreted by the station as secure audio, which causes the station to briefly go into the secure mode. A symptom of this condition is that the station occassionally de-keys during a clear transmission even though low level guard tone is present. Once the falsing condition is over, the station reverts back to clear mode but needs to see high level guard tone/function tone to rekey. Also, when this condition occurs the "TX CD" led on the secure board may flash briefly.

The following procedure is to be used on any MSF5000/10000 station equipped to operate as a wireline controlled transparent station. By definition, transparent operation means that no secure encryption/decryption capabilities exist in the MSF5000 station. Encode/Decode stations do not have the problem described.

PROGRAMMING INSTRUCTIONS (REQUIRES MSF RSS/RIB BOX)

Determine the firmware version of your station's secure board by resetting the station and reading off the firmware version numbers as they display. The firmware version numbers are displayed in order starting with the SSCB, then TTRC, and finally the secure board firmware. (For example, the display reads 3.25, 4.22, then 3.17. The secure firmware version is 3.17). the secure version will either be 3.xx or 4.xx, and you need to know which one you have.

1) Use radio service software to read the station codeplug; save a copy of this onto a disk in case the codeplug gets corrupted inadvertantly. Proceed to step 2 that applies to your radio.

2A) VERSION 3.XX SECURE PROGRAMMING INFORMATION ONLY

Go to the main menu of the radio service software and hit the alt and f5 keys at the same time. At the IPCB command prompt, type the following commands, being carefull to match upper/ lower case:

/Ael637163BB20590055E

(follow by a return; station should respond with "A")

/Ael6431647B20590055E

(follow by a return; station should respond with "A")

/Ael64F1653B20590055E

(follow by a return; station should respond with "A")

/Ag

(follow by a return and wait 15 seconds; if any error message occurs proceed by selecting f2 to enter command. Station should respond with "A")

Hit f10 to exit back to the main menu of the radio service software.

2B) VERSION 4. XX SECURE PROGRAMMING INFORMATION ONLY Go to the main menu of the radio service software and hit the alt and f5 keys at the same time. At the IPCB command prompt, type the following commands, and be careful to match upper/lower case:

/Ael638163CB20590055E

(follow by a return; station should respond with "A")

/Ael6441648B20590055E

(follow by a return; station should respond with "A")

/Ael6501654B20590055E

(follow by a return; station should respond with "A")

/Ag

(follow by a return; and wait 15 seconds; if an error message occurrs proceed by selecting f2 to enter command. Station should respond with "A") Hit f10 to exit back to the main menu of the radio service software.

3) Go to the get/save menu, then select the f2 key to read data from the station. After reading the station codeplug, program it back to the station. This step is important as it resets the codeplug checksum. You might also want to save a copy of the codeplug to an archive disk at this time. The station should be operational after the above steps have been completed. These changes are implemented in production as of 1/2/92. This bulletin is issued for informational purposes only.