

## ALERT TONES

Type of Tone	Name	Explanation
3 Short High-Tones (after requesting a busy channel) upon pressing the PTT button)	Automatic Call Back or Talk Permit	Channel is available for previously requested transmission. System is accepting your transmission.
Low-Pitched Tone (upon pressing the PTT button during Transmit) (Operation Error)	Talk Prohibit/ Out-of-Range or Time-Out Timer or Illegal Mode	Out of trunked radio system range or system is out of service. Present transmission will soon be disabled. You have entered a mode where normal system traffic will be missed, or you attempted something that is not allowed. (See examples below.)
High-Pitched Tone every 10 seconds in unmuted receive condition	Failsoft	System central controller failure. The radio reverts from trunked operation to operation similar to a conventional repeater. Others may share the channel.

## Trunking Operation

### Failsoft

If the trunked system's central controller fails for any reason, the radio indicates *failsoft*. In this condition, the radio transmits and receives on a pre-determined frequency in a conventional mode.

Failsoft ensures that you will have communications capability at all times. Radios can be programmed by a qualified radio technician so that units that normally communicate on the same trunked mode will be assigned to the same failsoft repeater frequency. Since the normal trunking features do not operate during failsoft, much of the privacy of trunked systems is lost. You must share the channel with other users until the failure is corrected.

### Site Trunking

In a SmartZone system, if the zone controller for a particular site fails, the site enters into a site-trunking operational mode. In this mode of operation, the user can only communicate with other units at the same site.

Radios in a SmartZone system can be programmed by a qualified radio technician to display STE TRNK (W7) or STE TRUNK (W9) when site trunking becomes active. The display alternates with the current mode display as long as the radio remains in site trunking. The radio also sounds a valid-key chirp when it first detects site trunking.

### Out-of-Range Indication

The out-of-range display/audible indication feature can be enabled by a qualified radio technician. OUT OF RANGE and the current selected mode are alternately displayed, and a low-pitched tone sounds every six seconds:

- When the radio is out of range of the system and can no longer lock onto the control channel
- When the radio is in failsoft and cannot lock onto the failsoft channel.

The out-of-range indication remains in effect until one of the following conditions occur:

- The radio locks on a control channel
- The radio locks on a failsoft channel
- The radio is turned off

Harris County ITC

MCS 2000  
Mobile Radio

USER GUIDE  
Law Enforcement Model



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## SmartZone Backup Operations

### A) .Radio operation in Site Trunking

Site trunking occurs when a site is not longer able to participate in wide-area calls controlled by the zone controller. Radios operating in site trunking can only communicate with other radios at that site.

The radio will of course always be looking for a wide-area trunking site to lock onto if it roams into range of one.

1. When a site goes into site trunking, the radio will receive this indication and will display

#### "SITE TRUNKING"

2. The display will alternate between the current trunked mode and the site trunking display for as long as the radio remains in site trunking.
3. Users should have a pre-determined backup Tower site when the System is in Site Trunking.

## CHANGING TO DIRECT ON ITAC-5:

### Steps:

Note : You first must be on I-Tac5 to do this!

1. PRESS THE MENU BUTTON ONCE.
2. TURN THE CHANNEL SELECT CLOCKWISE (RIGHT) UNTIL RADIO DISPLAYS READS " REPEATER / DIRECT ".
3. PRESS THE SELECT BUTTON (SEL) ONCE.
4. TURN THE CHANNEL SELECT KNOB CLOCK WISE(RIGHT) AGAIN. UNTIL RADIO DISPLAYS " DIRECT ".
5. PRESS THE SELECT BUTTON.  
THE RADIO IS NOW SET FOR ITAC-5 DIRECT MODE .

### Tower prefixes

HO = Houston Tower  
HU = Huffman Tower  
TO = Tomball Tower  
CL = Clodine Tower  
AL = Alvin Tower  
TM = Tamina Tower

## **MCS2000 Radio**

### General Operations

- **Radio On/Off and Volume Control**  
Turns the radio on/off by depressing this Button.
  - **Home Button**  
Returns you to the Assigned Home Channel from any Talk Group or Zone.
  - **RSSI Button**  
Displays the Received Signal Strength of the current signal.
  - **ZONE Button**  
Selects Zones by depressing this button once and turning the **Mode Selector Knob**. Pressing the Zone Button again will deselect. Each Zone contains 16 Channels or Talk Groups
  - **DIM Button**  
This Button will dim the Back Lighting on the Display. (4- display levels.)
  - **MENU Button**  
Enter the menu selection list by pressing this button.
  - **SEL Button**  
Pressing the SEL Button will select the currently displayed item.
  - **DEL Button**  
To delete an undesirable mode in the scan list

