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| TOWNSHIP FIRE DEPARTMENT CHAPTER 2: STANDARD OPERATING GUIDELINES | |
| Part 1: Response Guidelines Subject: ICM Tx Unit Functionality (PASS) Page 1 of 2 Effective Date: 10-29-92 | Section: 2-1-7 Review/Revised Date: 02-22-10 |

- 7.01 Purpose. To provide for operating the ICM Tx Unit.
- 7.02 Goal. The ICM Tx unit shall be tested, inspected and maintained according to this guideline before and after each use, and at scheduled inspections for this equipment.
- 7.03 How to Use ICM Tx Unit:
- A) The ICM Tx Unit is assembled to the gauge line hose and serves as the transmitter for the Night Fighter Heads-Up Display System.
 - B) The ICM Tx Unit turns on automatically when the user opens the SCBA cylinder valve. As the pressure reaches approximately 200 psi, both visible and audible alarms activate automatically, indicating that the unit is functional. When the system is pressurized above 25% of the rated service pressure, the alarm enters the Monitor (normal) Mode. The unit remains in the Monitor Mode until the user shuts off the cylinder air and presses reset button twice in quick succession.
 - C) If the user is motionless for approximately 20 seconds, the ICM Tx Unit enters pre-alarm. During pre-alarm the RED LED on the ICM Tx Unit flashes slowly. Also, during the pre-alarm, an ORANGE LED will be displayed in the Night Fighter Receiver. Movement of the unit cancels the alarm.
 - D) If the user remains motionless for 30 seconds, the ICM Tx Unit enters full alarm. During the full alarm, the PASS repeatedly sounds two high-pitched tones followed by a buzz. During full alarm the RED LED on the ICM Tx Unit also flashes rapidly.
 - E) The ICM Tx Unit can be set into fill alarm at any time (even without air pressure) by pressing the opaque alarm button on the front of the unit.
 - F) The ICM Tx Unit has three control buttons.
 - a. The RESET/OFF (yellow) button resets the device from the full alarm mode. It also shuts the unit off after the cylinder valve is closed and all air pressure is bled from the unit.

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- b. The center opaque lighted alarm button (green/red) activates the alarm mode with or without air pressure.
 - c. The top mode button (green) will refresh the receiver display, set the receiver to continuous mode, and change the ICM Tx Unit digital display mode between pressure remaining and calculated service life remaining.
- G) The PASS function uses RED and GREEN light-emitting diodes (LEDS) behind the opaque alarm button to display its status visually:
- a. GREEN LEDs start to flash when the cylinder valve is opened and shows that the device is operational.
 - b. RED LEDs flash slowly when the device is in pre-alarm and flash rapidly when the device is in full alarm.
- H) The ICM Tx Unit operates using four standard AA alkaline batteries and notifies the user when the batteries need to be replaced by emitting an audible beep (1 beep every 5 seconds), displaying an empty battery icon on the LCD screen, and by using a YELLOW LED on the Night Fighter Receiver Display.
- 7.05 Temperature Alarm. The ICM Tx Unit has heat sensors designed to sound a warning alarm when the unit reaches a predetermined temperature. The unit is designed with built-in heat sensors, one which senses outer surface temperature and another that determines temperatures inside the device. A chirping sound will indicate high temperature. The ICM Tx Unit should be worn on top of all protective gear facing the primary source of heat. Also be advised the ICM Tx Unit does not replace the judgment and specialized training of firefighters in determining when to vacate the area.
- 7.06 Battery Replacement. Remove the cover on the back side of the unit which is secured by four (4) screws. Lift the old batteries from its compartment and replace with four (4) new batteries. Replace the cover making sure that the gasket seal is in place and has not been damaged.
- 7.07 Repair Information. Other than the battery, there are no serviceable parts inside this unit. Should it malfunction and require servicing, tag the entire unit out of service and notify TFD Chief 5.