Title: Approved Subscriber Equipment

Index: 103-B

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Author: Dietrich DeBoer, PCITD Wireless Services

Owner: Technical Working Group

1. Purpose
   a. This policy describes the equipment currently approved by the PCWIN Board of Directors for use on the PCWIN voice radio network

2. Background
   a. PCWIN is a large regional radio network with many different agencies dependent upon its effectiveness and security for their operations. In order to control the many variables that could affect a system of this size the basic subscriber equipment to be used on the network has been restricted to the following list of equipment items

3. Policy Statement
   a. The following list enumerates the core items allowed on the PCWIN network
   b. Accessories manufactured by Motorola may also be permitted on the PCWIN network
      i. Non-Motorola accessories must be purchased with caution as compatibility and serviceability may be compromised with aftermarket equipment
      ii. Technical specifications of each radio are provided to aid in additional accessory purchases
      iii. Contact your maintenance provider to determine what maintenance services, system compatibility and warranty are covered before you purchase ancillary items.

   **PUBLIC SAFETY PORTABLE RADIOS & ACCESSORIES**

1. Single Band 800MHz Motorola APX6000 Series Radios
   Model 2.5 w/Limited Keypad
   Model 3.5 w/Full Keypad

   Standard configuration for both models must include:
   - APX Antenna 700/800/GPS (NAF5085A)
   - TDMA Operation (QA00580)
   - ASTRO Digital CAI Operation (Q806)
   - Smartzone Operation (H38)
   - P25 9600 Baud Trunking (Q361)
   - Programming Over P25 (OTAP) (G996)
   - Radio Packet Data (Q947)
   - Advanced System Key – Software Key (QA01749)
   - Advanced System Keys (ASK-DVN4046)
2. Rugged Single Band 800MHz Motorola APX6000XE Series Radios
   Model 2.5 w/Limited Keypad
   Model 3.5 w/Full Keypad
FOR USE IN EXTREME ENVIRONMENTS
Standard configuration for both models must include:
- APX Antenna 700/800/GPS (NAF5085A)
- TDMA Operation (QA00580)
- ASTRO Digital CAI Operation (Q806)
- Smartzone Operation (H38)
- P25 9600 Baud Trunking (Q361)
- Programming Over P25 (OTAP) (G996)
- Radio Packet Data (Q947)
- Advanced System Key – Software Key (QA01749)
- Advanced System Keys (ASK-DVN4046)
- APX6000XE Rugged Radio (AQ02006)
- H499 Rugged
  - FM LIION IMPRES 2300 MAH Battery (NNTN8092) w/FM Certification
  - IP67 (1m/30min)
  - Extreme 1-Sided Noise Reduction (QA01833)
- High Impact Green (QA01427)

3. Dual Band 800MHz/UHF or VHF Radio Motorola APX7000 H97TGD9PW1N
Includes front and top displays and full keypad
Standard configuration must include:
- 7/800MHZ Primary Band (QA00569)
- VHF Secondary Band (QA00574) or
  - UHF Secondary Band (Consult sales about selections for Range 1 or Range 2)
- Large Color Display and Full Keypad (QA00577)
- Enable Dual Band Operation (QA00579)
- ASTRO Digital CAI Operation (Q806)
- Smartzone Operation (H38)
- P25 9600 Baud Trunking (Q361)
- TDMA Operation (QA00580)
- Programming Over P25 (OTAP) (G996)
- Radio Packet Data (Q947)
- Advanced System Key – Software Key (QA01749)
- IMPRES Lion 2900 mAh standard battery (NNTN7038)
- Belt Clip 3.0” (QA01222)
4. Rugged Dual Band 800MHz/UHF or VHF Radio Motorola APX7000XE Model H49TGD9PW1AN

Includes front and top displays and full keypad
Standard configuration must include:

- 7/800MHZ Primary Band (QA00569)
- VHF Secondary Band (QA00574) or
  - UHF Secondary Band (Consult sales about selections for Range 1 or Range 2)
- Large Color Display and Full Keypad (QA00577)
- Enable Dual Band Operation (QA00579)
- ASTRO Digital CAI Operation (Q806)
- Smartzone Operation (H38)
- P25 9600 Baud Trunking (Q361)
- TDMA Operation (QA00580)
- Programming Over P25 (OTAP) (G996)
- Radio Packet Data (Q947)
- Advanced System Key – Software Key (QA01749)
- APX7000XE Housing Green (AQ01427AC)
- IMPRES FM/Delta T 2300 mAh standard battery (NNTN8092)
- APX7000XE Universal Carry Holder (PMLN5331)

ACCESSORIES

Accessories for APX6000:

IMPRES Remote Speaker Microphone (PMMN4062)
- Accessory connector IP67 Submersible
- One wire compatible
- Listed as compatible with APX6000

Standard Battery (PMMN4403)
- Impress compatible
- IP67 Submersible

APX6000 Universal Carry Holder w/3.0” Belt Clip (PMLN5709)
- Listed as compatible with APX6000
Accessories for APX6000XE:

IMPRES XE Remote Speaker Microphone (NNTN8203)

Intrinsically Safe: Motorola approved accessories are a critical part of the specific radio and accessory system certified by a recognized testing organization as intrinsically safe. Non-Motorola approved accessories are not certified as part of the overall Motorola APX system. Use of non-Motorola approved accessories could result in equipment that is unapproved or unsafe in a hazardous environment.

- Accessory connector IP67 Submersible
- Intrinsically Safe (FM Approved)

- One Wire compatible
- Listed as compatible with APX6000XE

Intrinsically Safe Battery (NNTN8092)

- Impress compatible
- FM Approved
- IP67 Submersible

APX6000XE Universal Carry Holder w/3.0” Belt Clip (PMLN5880)

Chargers:

IMPRES Single Unit Charger (WPLN7080)
IMPRES Multi Unit Charger w/o Displays
IMPRES Vehicle Charger for ASTRO Digital APX Series (NNTN7624B)

PUBLIC SAFETY MOBILE RADIOS

1. Single Band 800 MHz Motorola APX6500 M25URS9PW1N

Standard Specifications for all Mounting Types

- ASTRO Digital CAI OP APX (G806)
- Smartzone Operation (G51)
- P25 Trunking Software (G361)
- Smartzone Omnilink Multizone System SW (G173)
- TDMA Operation (GA00580)
- Advanced System Key – Software Key (QA01749)
- Advanced System Keys (ASK-DVN4046)
- Over the Air Provisioning (G996)
- RS232 Packet Data Interface (W947)
- Palm Microphone (W22)
- Auxiliary Spkr 7.5 Watt (B18) w/Corresponding Kit (HSN4031)
- Antenna – ANT 3DB Low-Profile 762-870 (G174) w/Corresponding Kit (HAF4013)
Additionally, specify and order the correct control head and mounting hardware for your installation type:

1. Dash/Console Mount
   a. Control Head
      i. APX05 Control Head (G442)
      ii. Control Head Software (G444)
   b. Mounting
      i. Dash Mount 05 (G66)

2. Trunk/Remote Mount
   a. Control Head
      i. APX05 Control Head (G442)
      ii. Control Head Software (G444)
   b. Mounting
      i. Remote Mount Mid Power (G67)

3. Dual Control Head Mount
   a. Control Head
      i. APX05 Control Head (G442)
      ii. Control Head Software (G444)
      iii. 05 Dual Control Head Option (GA00092)
   b. Mounting
      i. Remote Mount Mid Power (G67)
      ii. Cables Lengths
         1. Remote Mount CBL 10 Feet (G618)
         2. Remote Mount CBL 17 Feet (G628)
         3. Remote Mount CBL 30 Feet (G610)
         4. Remote Mount CBL 50 Feet (G609)
         5. Remote Mount CBL 75 Feet (G607)
         6. Remote Mount CBL 115 Feet (G879)
   c. Speakers and Microphones – Order quantity two each

2. MOTORCYCLE RADIOS – Motorola Single Band 800 MHz APX7500 M3OURS9PW1N

Standard Specifications for all Mounting Types
- ASTRO Digital CAI OP APX (G806)
- Smartzone Operation (G51)
- P25 Trunking Software (G361)
- Smartzone Omnilink Multizone System SW (G173)
- TDMA Operation (GA00580)
- Advanced System Key – Software Key (QA01749)
Advanced System Keys (ASK-DVN4046)
Over the Air Provisioning (G996)
RS232 Packet Data Interface (W947)

Control Head
- APX 05 Control Head (G442)
- Control Head Software (G444)
- APX7500 Motorcycle CH SFW (G138)

Mounting
- Remote Motorcycle Mount (G67BA)
- MC remote mount option is $400 DUP

Antenna
- Antenna – ANT 3DB Low-Profile 762-870 (G174) w/Corresponding Kit (HAF4018)

Microphone
- Hand Mic, GCAI Water Resistant (G892)

Speaker
- Auxiliary Speaker Motorcycle (B18) w/Corresponding Kit (HSN6063)

3. APX7500 Dual Band Mobile – Mid Power Trunk/Remote Mount – Motorola M30TSS9PW1N

Standard specifications must include:
- 7/800 MHz Primary Band (GA00244)
- VHF MP Secondary Band (GA00308) or
  - UHF Secondary Band (Consult sales staff for Range 1 and Range 2 options)
- Enable Dual Band Operation (GA00579)
- ASTRO Digital CAI OP APX (G806)
- Smartzone Operation (G51)
- P25 Trunking Software (G361)
- TDMA Operation (GA00580)
- Advanced System Key – Software Key (QA01749)
- Advanced System Keys (ASK-DVN4046)
- Over the Air Provisioning (G996)
- RS232 Packet Data Interface (W947)
Control Head
- APX 05 Control Head
- Control Head Software
- Remote Mount Mid Power

Antenna
- Ant ¼ Wave 762-870 MHZ
- For VHF: ¼ Wave Roof Top 150.8-162

Microphone
- Keypad MIC GCAI

Speaker
- Auxiliary Spkr 7.5 Watt

PUBLIC WORKS PORTABLE RADIOS

1. Motorola APX4000 Model 2 w/Limited Keypad

Standard specifications must include:
- TDMA Operation (QA00580AF)
- Enh: 3600 or 9600 Baud SIN (QA02756AB)
- Programming Over P25 (OTAP) (G996AZ)
- Packet Data (IV&D And RS232) (Q947BG)
- Advanced System Key – Software Key (QA01749AB)

PORTABLE ACCESSORIES

Remote Speaker Microphone: IMPRES Remote Speaker Microphone (PMMN4062)

Battery:
- Standard Battery (NNTN8128)
- Intrinsically Safe Battery (NNTN8129)
- Impress compatible
- IP67 Submersible

Charger:
- IMPRES Single Unit Charger (WPLN4232)
- IMPRES Multi Unit Charger w/o Displays (WPLN4212)

Belt Clip: APX4000 2.0” Hard Plastic Belt Clip (PMLN4651)

PUBLIC WORKS MOBILE RADIOS

1. Motorola APX4500
4. **Applies to**
   a. All PCWIN members and participants

5. **Supporting Rules**
   a. None

6. **Conditions for Exemption or Waiver**
   a. If an agency desires core equipment not included in the itemized list, that agency must receive approval from the PCWIN Executive Director.