MOTOROLA SOLUTIONS

FCC ID: **AZ489FT7061**

Date: March 30, 2016

Office of Engineering and Technology
Laboratory Division
Equipment Authorization Branch
Federal Communications Commission Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Application for Class 2 Permissive Change of Transmitter with FCC ID: **AZ489FT7061**

Dear Sir or Madam:

Motorola Solutions Inc (8000 West Sunrise Boulevard, Fort Lauderdale, Florida) herein submit Class 2 Permissive Change application for certification of the subject transmitter.

A permissive change is requested for the subject transmitter:

Product Name	Product Description
APX 8000	This transmitter is primarily intended for use within a hand-held portable radio.

A. Description of changes:

- Adding APX 8000XE to existing filing (added IC Model: 8000XE1, 8000XE2, 8000XE3).
  - Mechanical Changes: Option to include larger control top for enhanced ergonomics
  - Electrical changes: None (same PCBs: RF, Vocon, Expansion)
  - The new XE control top is pin-to-pin compatible to the old chassis, has the same basic function as the old control top, and does not change the electrical or radiated performance of the radio.
- Adding Bluetooth Low Energy (BT 4.0) to both APX 8000 and APX 8000XE
  - No hardware changes. The BT/Wi-Fi chipset has always been capable of both BT2.0 and BT4.0, however no use cases existed during APX 8000 product launch, so BT LE wasn't enabled in firmware. With latest SW available for both APX 8000 and APX 8000XE, BT LE feature will be enabled.
  - The device is not a software defined radio. Just activating the BT LE feature on the module that previously existed in the product. New radios that come directly from the factory will have both the classic BT and BT LE options embedded into the radio. Radios in the field will either be updated via dongle or software downloaded by customers who are pre-authorized via an account in place with Motorola Solutions.
  - The end user is still unable to change the allowable frequency ranges or modify power outside of the approved ranges
  - Adding as a DTS C2PC for software filling since it was already a composite.
- Adding Part 22 Digital and Part 74 Digital to both APX 8000 and APX 8000XE

B. Performance different:

- No radiated or conducted degradation seen with the addition of the XE control top, and no other hardware changes. EME report enclosed which also confirms no SAR degradation.

C. Conclusion:

- The APX8000XE is electrically identical to the previously granted APX8000. Additional test data has been included to add BLE and Part 22 and 74 Digital to both APX 8000 and APX 8000XE.

The subject transmitter still complies with Section 90.203 and 80.203(b) of the Rules in that the operator cannot directly program transmit frequencies using the unit's normally accessible external controls.

Enclosed is a complete Certification Application. Please contact me if you require any additional information.

Deanna Zakharia

Digitally signed by Deanna Zakharia
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