

September 30, 2013

To: Elite Electronic Engineering  
Re: Class II Permissive Change for ABZ89FC5810B to Verify H-Mask for Digital Emissions  
800 MHz Gen 2 GTR 8000 Base Radio Transmitter

This memo is in regards to a Motorola Solutions type approved transmitter, equipment type ABZ89FC5810B. ABZ89FC5810B was originally granted FCC type approval on May 22, 2013.

A copy of the current grant is included on the following page.

There is no change being requested to the grant per this action. The purpose of this permissive change is to definitively show that the 12.5 kHz digital emissions generated by this transmitter do in fact comply to 90.210 (h), the "H-mask", for NPSAC applications in addition to 90.210 (d), the "D-mask".

Occupied bandwidth data is included in this package to show "H-mask" compliance for the emission designators, as follows:

9K80D7E, 9K80D7D, 9K80D7W for P25 Two Slot TDMA Digital Modulation (H-DQPSK)  
8K70D1E, 8K70D1D, 8K70D1W for P25 FDMA Linear Simulcast Modulation (LSM)  
8K10F1E, 8K10F1D, 8K10F1W for P25 FDMA Compatible 4-Level Frequency Modulation (C4FM)

No schematics or photos are included in this package. This proposed change maintains the existing specifications of the equipment. The equipment will be completely compatible and interchangeable with the existing equipment currently shipped under equipment type ABZ89FC5810B, and the form, fit, and function of the base radio is identical to the equipment that is currently in production.

For the filing package currently on record with the FCC, all exhibits are considered current and valid. The exhibits shown in the 'List of Exhibits' herein are supplemental to the information currently on record.

Please contact me if you need further information or have any issues or questions.  
Regards,



Ken Weiss  
Motorola Solutions

TCB

GRANT OF EQUIPMENT  
AUTHORIZATION

TCB

## Certification

Issued Under the Authority of the  
Federal Communications Commission  
By:Elite Electronic Engineering, Inc.  
1516 Centre Circle  
Downers Grove, IL 60515

Date of Grant: 05/22/2013

Application Dated: 05/21/2013

Motorola Solutions, Inc.  
1301 East Algonquin Road  
Schaumburg, IL 60196

Attention: Ken Weiss, Senior Staff Engineer

## NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is  
VALID ONLY for the equipment identified hereon for use under the Commission's  
Rules and Regulations listed below.

FCC IDENTIFIER: ABZ89FC5810B

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Station Transmitter

Notes: Non-Broadcast Transmitter

Grant Notes	FCC Rule Parts	Frequency Range (MHz)	Output Watts	Frequency Tolerance	Emission Designator
BC EF	90	851.0 - 870.0	100.0	1.0 PM	8K70D1E
BC EF	90	851.0 - 870.0	100.0	1.0 PM	8K70D1D
BC EF	90	851.0 - 870.0	100.0	1.0 PM	8K70D1W
BC EF	90	851.0 - 870.0	100.0	1.0 PM	8K10F1E
BC EF	90	851.0 - 870.0	100.0	1.0 PM	8K10F1D
BC EF	90	851.0 - 870.0	100.0	1.0 PM	8K10F1W
BC EF	90	851.0 - 870.0	100.0	1.0 PM	10K0F1E
BC EF	90	851.0 - 870.0	100.0	1.0 PM	10K0F1D
BC EF	90	851.0 - 870.0	100.0	1.0 PM	10K0F1W
BC EF	90	851.0 - 870.0	100.0	1.0 PM	9K80D7E
BC EF	90	851.0 - 870.0	100.0	1.0 PM	9K80D7D
BC EF	90	851.0 - 870.0	100.0	1.0 PM	9K80D7W
BC EF	90	854.0 - 870.0	50.0	1.0 PM	17K7D7D
BC EF	90	854.0 - 870.0	100.0	1.0 PM	16K0F1D
BC EF	90	854.0 - 870.0	100.0	1.0 PM	16K0F3E
BC EF	90	851.0 - 870.0	100.0	1.0 PM	11K0F3E
BC EF	90	851.0 - 854.0	100.0	1.0 PM	14K0F1D
BC EF	90	851.0 - 854.0	100.0	1.0 PM	14K0F3E

Output power is conducted. The antenna(s) used for this transmitter must be fixed-mounted on outdoor permanent structures. RF exposure compliance is addressed at the time of licensing, as required by the responsible FCC Bureau(s), including antenna co-location requirements of 1.1307(b)(3).

BC: The output power is continuously variable from the value listed in this entry to 5%-10% of the value listed.

EF: This device may contain functions that are not operational in U.S Territories except as noted in the filing. This grant has extended frequencies as noted in the filing and Section 2.927(b) applies to this authorization.