



May 12, 2008

Mr. Alan Laudani  
Certification Agent  
Nemko USA  
11696 Sorrento Valley Road  
San Diego, CA 92121

Subject: Application and intended use of the BPA-5CC-7 5W Power Amplifier, FCC ID CNVHCII-5-7

References: (1) FCC email concerning type certification of CNVHCII-5-7  
(2) FCC web site for Nextel reallocation  
(3) BMS BPA-5CC-7 Installation and Operation Manual  
(4) BMS web site marketing information, BPA 5/10W amplifiers

Dear Sir/Madam:

In regards to the additional material required to address "...filing should include attestation from applicant concerning application purpose and intended device marketing and use related to FCC WTB 2 GHz Relocation...", BMS includes the following description and references to address this matter.

BMS produces power booster amplifiers suitable for OFDM transmission. The BPA-5CC-7 may be used as part of a transmission system for electronic news gathering (ENG) broadcast television signals. When operated with a BMS exciter, the system meets FCC requirements under part 74 Broadcast Auxiliary Services for mobile relay stations for both the existing and reallocation channel plans. No adjustments are necessary. The operator may change channel plans at any time. The BMS system may be licensed for dual use, both in the existing BAS 2 GHz channel plan (1990-2025 MHz) and Nextel reallocation channel plan (2025-2110 MHz).

The BPA-5CC-7 may also be used in the same application by public safety agencies in an inter-service sharing, Part 74 BAS and Part 90 Private Land Mobile Radio Service.

Please note, the BPA-5CC-7 (FCC ID CNVHCII-5-7) is a 5 Watt amplifier and was certified under Parts 74 and 90.

Regards,

A handwritten signature in blue ink that reads "G Bunney". The signature is written in a cursive, slightly slanted style.

Graham Bunney, President/General Manager  
Broadcast Microwave Services, Inc.

## Reference 1

Re: FCC ID: CNVHCII-5-7  
Applicant: Broadcast Microwave Services Inc  
Correspondence Reference Number: 50883  
Form 731 Confirmation Number: TC436086  
Date of Original E-mail: 04/17/2008

...filing should include attestation from applicant concerning application purpose and intended device marketing and use related to FCC WTB 2 GHz Relocation ([http://wireless.fcc.gov/services/index.htm?job=service\\_home&id=broadcast\\_auxiliary#2 GHz Relocation](http://wireless.fcc.gov/services/index.htm?job=service_home&id=broadcast_auxiliary#2%20GHz%20Relocation)) - see also FCC documents FCC-03-280, DA-05-2223 - 18 MHz channel bandwidth is allowed for part 74 grants (at least until transition accomplished), but new grant devices should also have 12 MHz mode

## Reference 2

[http://wireless.fcc.gov/services/index.htm?job=service\\_home&id=broadcast\\_auxiliary#2%20GHz%20Relocation](http://wireless.fcc.gov/services/index.htm?job=service_home&id=broadcast_auxiliary#2%20GHz%20Relocation)

Broadcast Auxiliary stations are used for relaying broadcast aural and television signals. ... The Broadcast Auxiliary services also include mobile TV pickups and remote pickup stations which relay signals from a remote location, back to the studio.

## **2 GHz Relocation**

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BAS licensees in the 1990-2025 MHz band ("2 GHz band") are subject to relocation (for emerging technologies such as PCS, MSS) to a new BAS channel plan in the 2025-2110 MHz band.

## Reference 3

BPA-5CC-5-7 1.99–2.5 GHz 5W Power Amplifier Installation and Operation Manual (BMS Doc #6051407907 Rev -)

### **1.4 Applications**

Portable digital video COFDM transmitters, such as the BMS 2GHz CarryCoder II, are used behind the camera in electronic news gathering (ENG) for mobile broadcast auxiliary stations (BAS). These transmitters can only provide a medium RF power (e.g. < 1W), limiting the distance between the event site and relay station. To extend the transmission range, an external amplifier is needed to boost the transmitter power in order to compensate the path loss and ensure the acceptable Received Signal Level (RSL) at the destination. The BPA-5CC-7 will increase the RF power to the maximum 10W without adding spurious signals and distortions to the transmitter output. The power amplifier output is directly connected to the 2GHz transmitting antenna.

## Reference 4

<http://www.broadcast-microwave-services.com/index.php?id=185>

Linear Power Amplifier: The BPA-(x)-CC is a 5 or 10 W linear power amplifier that increases the transmission range of several BMS transmit systems.