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STAMP AND RETURN

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September 9, 2011

VIA COURIER

Marlene H. Dortch, Esq., Secretary
Federal Communications Commission
Media Bureau Services
c/o U.S. Bank
Government Lockbox #979089, SL-MO-C2-GL
1005 Convention Plaza
St. Louis, MO 63101-1200
Attn: Media Bureau, Video Division

Re: Capitol Broadcasting Company, Inc.
*Application for Experimental Special Temporary Authority
Raleigh, North Carolina (Television Channel 48)*

Dear Ms. Dortch:

Transmitted herewith, on behalf of Capitol Broadcasting Company, Inc. ("Capitol"), are an original and four (4) copies of an application for an experimental special temporary authority ("STA") to conduct experimental video operations in Raleigh, North Carolina.

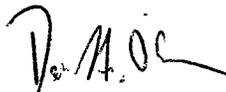
I am authorized to certify, on behalf of Capitol, that neither the applicant nor any other party to this application is subject to denial of Federal benefits, including FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862A.

Enclosed is an FCC Form 159 and payment in the amount of \$175.00 in payment of the application filing fee. Please date-stamp the enclosed extra copy and return it to the courier.

If you have any questions or concerns regarding this application or related matters, please contact the undersigned.

Respectfully submitted,

WILKINSON BARKER KNAUER, LLP



David A. O'Connor
Counsel for Capitol Broadcast Company, Inc.

Enclosures
cc (via e-mail): Kevin Harding, FCC

Capitol Broadcasting Company, Inc.
Application for Experimental Special Temporary Authority
Television Station WRAL-TV
Raleigh, North Carolina
Television Channel 48

DESCRIPTION OF EXPERIMENT

Capitol Broadcasting Company, Inc. (“Capitol”), the licensee of full power television station WRAL-TV, channel 48, Raleigh, NC, Facility ID No. 8688 (“WRAL-TV”) is requesting an experimental Special Temporary Authority (“STA”) to test a low powered digital on-channel booster transmission at a building in downtown Durham, North Carolina. The experimental equipment will be used to determine the feasibility of employing an on-channel booster facility which is received on the roof of a three-story building and re-transmitted on-channel at a lower height above ground. The Media Bureau granted Harris Corporation an experimental STA to operate substantially similar experimental equipment at the National Association of Broadcasters convention in April 2011.¹

The success of the experiment could demonstrate how low powered on-channel boosters could be employed to fill-in service ‘holes’ in a mobile or pedestrian reception-type coverage scenario.

The specific technical information is as follows:

Capitol Contact:

Peter Sockett, Director of Engineering Operations

Phone: 919-821-8573

Email: PSockett@wral.com

Date of Proposed Operation

September 20 – September 30, 2011

Location of Proposed Operation:

SunTrust Bank Building, 512 South Mangum St., Durham, NC, 27701

Coordinates: 35-59-29° N. L. / 78-54-11° W. L. (NAD27)

Mode of operation: Fixed receiver and transmitter

Proposed Equipment to be Installed:

Harris Corporation, 5-Watt Prototype ATSC Transmitter.

¹ See Letter from Kevin R. Harding, Associate Chief, Video Division, Media Bureau, Federal Communications Commission, to Harris Corporation, File No: 1800E1-KRH, March 24, 2011.

Particulars of Operation:

Frequency: 674-680 MHz (Channel 48)

Transmitting antenna: Electronics Research, Inc., AL4

Effective radiated power: 25 W RMS

Transmitting antenna height: 3 m AGL (121 m AMSL)

Receiving antenna height: 14 m AGL (on roof SunTrust Building)

Emission designator: 6M00D2F

Modulation: 8VSB

Necessary bandwidth: 6 MHz

Capitol requests a waiver of the Section 5.115 station identification requirements because the equipment is not capable of transmitting such information and due to the short duration of the experimental operation.

Capitol will receive and re-transmit the unaltered digital signal of WRAL-TV from Channel 48 using a low-powered on-channel repeater. This transmission will take place 48.8 km from the WRAL-TV transmitter site and it will be located well within the 41 dBu, f(50,90), service contour of WRAL-TV. Because the main full-service station of WRAL-TV occupies Channel 48 in this area, no interference is expected with respect to the proposed low-powered experimental operation. However, it is noted that there are no adjacent channel facilities located within 30 km of the proposed transmitter site location. In any case, Capitol acknowledges that any experimental authority will be conditioned on a non-interference-causing basis.

The proposed experimental STA could demonstrate new, spectrally-efficient options for fill-in service to mobile and pedestrian type digital receivers. Therefore, a grant of this application would serve the public interest. Capitol respectfully requests expedited grant of this request in time to complete the experimentation within the planned time window.

READ INSTRUCTIONS CAREFULLY
BEFORE PROCEEDING

FEDERAL COMMUNICATIONS COMMISSION
REMITTANCE ADVICE
FORM 159

Approved by OMB
3060-0589
Page No. 1 of 1

(1) LOCKBOX # 979089	SPECIAL USE ONLY	
FCC USE ONLY		
SECTION A - PAYER INFORMATION		
(2) PAYER NAME (if paying by credit card enter name exactly as it appears on the card) Wilkinson Barker Knauer, LLP	(3) TOTAL AMOUNT PAID (U.S. Dollars and cents) \$175.00	
(4) STREET ADDRESS LINE NO. 1 2300 N Street, NW, Suite 700		
(5) STREET ADDRESS LINE NO. 2		
(6) CITY Washington	(7) STATE DC	(8) ZIP CODE 20037
(9) DAYTIME TELEPHONE NUMBER (include area code) 202-783-4141	(10) COUNTRY CODE (if not in U.S.A.)	
FCC REGISTRATION NUMBER (FRN) REQUIRED		
(11) PAYER (FRN) 0003775731	(12) FCC USE ONLY	
IF MORE THAN ONE APPLICANT, USE CONTINUATION SHEETS (FORM 159-C) COMPLETE SECTION BELOW FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEET		
(13) APPLICANT NAME Capitol Broadcasting Company, Inc.		
(14) STREET ADDRESS LINE NO. 1 c/o Wilkinson Barker Knauer, LLP		
(15) STREET ADDRESS LINE NO. 2 2300 N Street, NW, Suite 700		
(16) CITY Washington	(17) STATE DC	(18) ZIP CODE 20037
(19) DAYTIME TELEPHONE NUMBER (include area code) 202-783-4141	(20) COUNTRY CODE (if not in U.S.A.)	
FCC REGISTRATION NUMBER (FRN) REQUIRED		
(21) APPLICANT (FRN) 0001961713	(22) FCC USE ONLY	
COMPLETE SECTION C FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEET		
(23A) CALL SIGN/OTHER ID	(24A) PAYMENT TYPE CODE MGT	(25A) QUANTITY 1
(26A) FEE DUE FOR (PTC) \$175.00	(27A) TOTAL FEE \$175.00	FCC USE ONLY
(28A) FCC CODE 1	(29A) FCC CODE 2	
(23B) CALL SIGN/OTHER ID	(24B) PAYMENT TYPE CODE	(25B) QUANTITY
(26B) FEE DUE FOR (PTC)	(27B) TOTAL FEE	FCC USE ONLY
(28B) FCC CODE 1	(29B) FCC CODE 2	
SECTION D - CERTIFICATION		
CERTIFICATION STATEMENT I, <u>David A. O'Connor</u> , certify under penalty of perjury that the foregoing and supporting information is true and correct to the best of my knowledge, information and belief.		
SIGNATURE <u>David A. O'Connor</u>		DATE <u>9/9/11</u>
SECTION E - CREDIT CARD PAYMENT INFORMATION		
MASTERCARD _____ VISA _____ AMEX _____ DISCOVER _____		
ACCOUNT NUMBER _____		EXPIRATION DATE _____
I hereby authorize the FCC to charge my credit card for the service(s)/authorization herein described.		
SIGNATURE _____		DATE _____

Date	Invoice No.	Description	Amount
09/09/11	68493	Filing Fee	\$175.00

FCC001

Total: \$175.00

Wilkinson Barker Knauer, LLP
 2300 N Street N.W., Suite 700
 Washington, D.C. 20037-1128

68-444
560

87346

Date 09/09/11

\$175.00

PAY One Hundred Seventy Five and 00/100 Dollars

TO THE ORDER OF
 FEDERAL COMMUNICATIONS COMMISSION

UNITED BANK
 A Subsidiary of United Bankshares, Inc.

James R. Gorman
 AUTHORIZED SIGNATURE

⑈087346⑈ ⑈05600445⑈ ⑈2195001280⑈