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April 16, 2015

Raymond C. Benedict
CBS Radio Stations Inc.
1800 K Street, NW
Suite 920
Washington, DC 20006

Re: KJAQ(FM), Seattle, Washington
Facility Identification No. 1091
CBS Radio Stations Inc.
File No. 20150403AAF

Request for Increased Digital Power
Hybrid IBOC Digital Operation

Dear Mr. Benedict:

This is in reference to the request for increased digital power (the "Request") filed April 3, 2015, on behalf of CBS Radio Stations Inc. ("CBS"), licensee of FM Station KJAQ(FM), Seattle, Washington.¹ CBS requests authority to operate Station KJAQ(FM) with increased digital effective radiated power ("ERP") of -10 dBc², pursuant to the Media Bureau's *Order* adopted January 27, 2010, in MM Docket No. 99-325.³

Station KJAQ(FM) is currently operating with -14 dBc digital ERP.⁴ Pursuant to the Order, this is the maximum FM digital ERP permitted without prior Commission authority. For FM stations wanting to increase digital ERP beyond -14 dBc, in the Order the Commission prescribed a procedure to be used to determine a station's maximum allowable digital ERP (up to and including -10 dBc) with respect to authorized first adjacent channel analog stations based on nonoverlap of predicted protected and interfering contours. Station KJAQ(FM) is not short-spaced to any authorized or proposed first adjacent channel FM stations, but is sufficiently close to five of them to warrant their study using the Order's procedure.⁵ In support of the Request, CBS submitted an analysis using this procedure, and reported that

¹ File No. BLH-20060710ABP.

² Decibels relative to analog carrier.

³ See *Digital Audio Broadcasting Systems And Their Impact on the Terrestrial Radio Broadcast Service*, Order, 25 FCC Rcd 1182 (2010) ("Order").

⁴ See File No. BSTA-20100218AAP.

⁵ The potentially affected first adjacent channel FM stations are: Station KRCW(FM), Fac. ID No. 49731, Royal City, Washington; Station KWLZ-FM, Fac. ID No. 13581, West Linn, Oregon (CP BPH-20110823ABX); Station KWWW-FM, Fac. ID No. 59050, Station KMMG(FM), Fac. ID No. 4758, Benton City, Washington, and Station KBDB-FM, Fac. ID No. 28208, Forks, Washington.

although the Station KJAQ(FM) facilities are predicted to create prohibited contour overlap with first adjacent channel Station KWWW-FM, because of the intervening terrain between Stations KJAQ(FM) and KWWW-FM, which includes the Cascade Mountains, the predicted contour overlap would not occur, and no interference would be caused to the Station KWWW-FM analog facilities by the proposed Station KJAQ(FM) digital facilities.

We reviewed the data and analysis submitted by CBS in support of the Request and independently verified the results. We agree that the terrain between Stations KJAQ(FM) and KWWW-FM sufficiently attenuates the Station KJAQ(FM) signal strength in the direction of Station KWWW-FM such that the prohibited contour overlap predicted using the Order's procedure would not occur. As a result, Station KWWW-FM is unlikely to receive interference from the proposed Station KJAQ(FM)'s increased digital ERP operation.

Accordingly, the Request IS HEREBY GRANTED. Station KJAQ(FM) may operate with increased digital ERP and transmitter power output ("TPO"), as follows:

Analog ERP:	52 kilowatts (kW) (Max-BT, H&V) ⁶
Digital ERP:	5.2 kW (Max-BT, H&V) ⁷
Combined TPO:	20.5 kW.

CBS must use whatever means are necessary to protect workers and the public from exposure to radio frequency radiation in excess of the Commission's exposure guidelines; *See* 47 C.F.R. § 1.1310. It may be necessary to reduce the power of the digital signal or cease hybrid operation if interference complaints are received. This authority may be modified or cancelled by the Commission without notice or right to hearing. This authority attaches to, and runs concurrently with, the main station license. CBS must post a copy of this authority with the station license.

Sincerely,



Susan N. Crawford
Audio Division
Media Bureau

cc: Daniel G. Ryson (via email)

⁶ All ERP and TPO values rounded in accordance with 47 C.F.R. § 73.212(a).

⁷ Licensee specified use of MP3 service mode and symmetric digital sidebands. Using the total digital sideband ERP values set forth in NRSC guideline "NRSC-G202, FM IBOC Total Digital Sideband Power for Various Configurations" ("NRSC-G202") (September 2010) for MP3 service mode with symmetric digital sidebands, the maximum permissible total digital sideband ERP for Station KJAQ(FM) is 6.2 kW. The licensee must adjust the station's total digital sideband ERP in accordance with NRSC-G202 if operating using a service mode other than MP3, i.e., MP1, MP2 or MP11 and symmetric digital sidebands.