

BROWN BROADCAST SERVICES

I N C O R P O R A T E D

Michael D. Brown, President 3740 S.W. Comus St. Portland, Oregon, U.S.A. 97219-7418
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12/5/2003

Robert Gates
Audio Division, Media Bureau, FCC
Washington, DC
202-418-0986

Re: Summary of Amendment to Minor Change Application for K205BJ, Bend, OR
BPFT-20031124ALW
State of Oregon Acting By and Through the State Board of Higher Education ("Applicant")

Mr. Gates:

In response to your email of 12/01/03 regarding potential disruption to the pattern of K285DH, the Applicant will be amending its above-referenced pending application, to specify a higher antenna height on the tower. Attached is a tower sketch of this plan. Based on this, and our assurances that any coaxes would be closely attached to tower legs, Kathrein/Scala Sales Engineer Mike Johnson issued the attached letter indicating that K205BJ should have "no anticipated significant adverse affect" on the pattern of K285DH.

Here are the numbers in detail: The Applicant's pending application for K205BJ calls for a Shively 6812, 2 bay, half-wavelength omni-directional antenna mounted at 11 meters (36 feet) AGL. We are amending this to be 14.47 meters (47.5ft) AGL. With rounding, the amendment will specify 14m AGL. This would put the two bays at 13.6m and 15.3m AGL.

Meanwhile, K285DH currently operates with a Scala CA-2 2-bay directional antenna (one horizontal bay, one vertical bay). Their licensed antenna height is 10m AGL. K285DH also has a CP to install a Scala CA-2 (horizontal-only) 2 bay directional antenna at 10m AGL. The actual center of radiation, without rounding, will be 9.9m (32.5ft) AGL. The two CA-2 bays will be half-wavelength spaced, which will put them at 9.2m and 10.6m AGL.

Therefore, the uppermost bay of K285DH would be 3.0 meters below the lowermost bay of K205BJ, as amended. Scala's standard is that its directional antennas should have one-wavelength clearance vertically from other antennas. On channel 285, one-wavelength is 2.85m. The 4.6m separation mentioned in Mr. Johnson's letter is a center-to-center (of radiation) distance.

Thus, the amended antenna position for K205BJ should have no adverse affect of K285DH. It is expected that the new antenna for K285DH will be installed at the same time that K205BJ is built, further insuring that all the necessary separations are maintained.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael D. Brown", followed by a long horizontal flourish line.

Michael D. Brown
Brown Broadcast Services, Inc.

Antennas • Filters

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December 05, 2003

Attn: Michael D. Brown
Brown Broadcast Services Inc.
3740 SW Comus St.
Portland, OR 97219-7418

Dear Mr. Brown:

Ref: BPFT20031124ALW
Relocating of FM Translator K205BJ

Thank you for your drawings and narrative regarding the proposed relocating of the K205BJ Non-Directional FM translator antenna to be co-located with K285DH.

With the proposed vertical spacing of 4.6 meters (greater than 1 wavelength of the K285DH 104.9 Frequency), there is no anticipated significant adverse effect to the directional radiation pattern of station K285DH from the relocating of the K205BJ Non-Directional antenna or the routing of the transmission line.

This opinion carries no performance guarantee and is based solely on the data provided by Brown Broadcast Services Inc. and the practical experience of our sales engineers. It is by no means a comprehensive analysis and Kathrein-Scala recommends Brown Broadcast Services Inc. to engage the services of a qualified communications firm for a definitive evaluation. The furnished data has not been verified by Kathrein-Scala for completeness or accuracy.

Please feel free to contact me if you need further assistance.

Best regards,

Mike Johnson

Mike Johnson,
Sales Engineer
KATHREIN INC., SCALA DIVISION
mjohnson@kathrein.com

36"

24"

50'

Radiation Center 47.5'

45'

K205BJ

40'

35'

30'

CA 2

24"

32.5' Radiation center

K285DH

CA 2