

KLEIN BROADCAST ENGINEERING, L.L.C.

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**FCC FORM 301 APPLICATION
for
FM BROADCAST STATION CONSTRUCTION PERMIT
(a minor change application)
(FCC FACILITY ID # 44012)
N R C BROADCASTING, INC.
K T U N (FM)
FM CHANNEL 269 C1 / 101.7 mHz.
EAGLE , COLORADO**

MARCH 2005

INTRODUCTION and ENGINEERING STATEMENT

The firm of Klein Broadcast Engineering, L.L.C., has been retained by the applicant, NRC Broadcasting, Inc., who is the licensee of FM Broadcast Station KTUN at Eagle, Colorado. The instant application requests an Effective Radiated Power of 12 kilowatts for KTUN in both the Horizontal and Vertical Planes. The application also requests a modification of the licensed directional antenna pattern for Station KTUN as specified herein. The applicant requests this application be processed under 47 C.F.R. Section 73.215 of the Rules and Regulations of the Federal Communications Commission, a contour protection grant with respect to Station KSMT at Breckenridge, Colorado.

Engineering Exhibit E-1 is a complete FCC FM Channel Spacing Study that shows compliance with 47 C.F.R. Section 73.207 of the Commission's Rules for the proposed transmitter site location coordinates. This study demonstrates the proposed KTUN main transmission facility is clear to all known station, allocations and proposed allotments under 47 CFR Section 73.207 of the Rules and Regulations of the Federal Communications Commission with the following exceptions:

Station KSMT at Breckenridge, Colorado, is short-spaced under Section 47 CFR 73.207 but is clear under 47 CFR Section 73.215. The directional antenna system proposed herein affords Station KSMT contour protection of a maximum class A facility with 6.0 kilowatts ERP at 100 meters HAAT from the existing site location coordinates of Station KSMT.

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Exhibit E-1 shows a short-spacing to the Class C Station KKCS at Colorado Springs, Colorado. Under the terms of FCC Construction Permit, File Number BPH-20040106ABD, Station KKCS is downgraded to Class C2 and the FCC Table of Allotments was ordered to be amended as such. Station KKCS has filed FCC Form 302-FM, an application for Station License to cover the above captioned construction permit. The FCC Form 302-FM application has been assigned FCC File Number, BLH-20050128ALV and specifies the completed construction of the new main class C2 transmission facility for Station KKCS at Colorado Springs, Colorado. The class C2 facility for Station KKCS is clear to Station KTUN as proposed under 47 CFR Section 73.207, therefore the class C facility of Station KKCS at Colorado Springs, Colorado, will not be afforded FM Channel spacing protection because it has been deleted.

Engineering Exhibit E-2 is a contour map prepared to show the proposed computed contours for the facility specified herein. It clearly shows the predicted 60dBu f(50,50) and 70dBu f(50,50) contours. The City Limit Boundaries of the Principal Community, Eagle, Colorado, are also clearly marked as determined by the 2000 U.S. Census. This exhibit demonstrates the predicted 70dBu contour encompasses the entire principal community of Eagle, Colorado. This exhibit was generated using the DMA 3 Arc Second Digitized Terrain Datafile and the FCC Standard Contour Prediction Method f(50,50) with 360 Radials.

Exhibit E-2A is a map showing the Interfering and Protected contours of station KTUN and KSMT. This exhibit clearly shows compliance with the contour protection requirements of 47 C.F.R. Section 73.215 with respect to Station KSMT at Breckenridge, Colorado. This map exhibit was prepared using the DMA 3 Arc Second Digitized Terrain Datafile and the FCC Standard Contour Prediction Method, f(50,50) and f(50,10) with 360 Radials.

Exhibit E-3 is a Polar Plot of the proposed directional antenna pattern to be employed at Station KTUN.

Exhibit E-3A is a Tabulation of the directional antenna pattern proposed herein, calculated every one degree for 360 degrees.

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Engineering Exhibit E-10RHS is a complete and comprehensive RF Radiation Hazard Study/Evaluation of the facility proposed in the instant application. Based on the calculations and findings contained therein, the proposed new main transmission facility complies with all of the requirements of the FCC O.S.T. Bulletin #65, Guidelines for Human Exposure to Non-Ionizing Radio Frequency Radiation, as amended to date.

The instant application proposes the following specifications for the new KTUN main transmission facility:

Transmitter Site Location Coordinates: NL: 39 – 44 – 18 / WL: 106 – 47 – 58 (NAD-27)

Ground Level AMSL at proposed site: 3146 meters AMSL

Overall Height Above Ground of Antenna Support Structure: 30 meters AGL

Overall Height Above Mean Sea Level of Antenna Support Structure: 3176 meters AMSL

Antenna Radiation Center Above Ground Level: 25 meters AGL

Antenna Radiation Center Above Mean Sea Level: 3171 meters AMSL

Antenna Support Structure Registration Number: Not Required

HAAT: 667 meters

Effective Radiated Power: 12.0 kW H & V

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An analysis of the engineering data presented herein demonstrates compliance of the proposed facility with all of the applicable Rules and Regulations of the Federal Communications Commission as amended to date. Therefore, the applicant and licensee of FM Broadcast Station KTUN at Eagle, Colorado, NRC Broadcasting, Inc., requests the Commission consider and GRANT the instant application for the facility requested herein under the Rules and Regulations of the Federal Communications Commission, as amended to date.

Respectfully submitted,

Elliott Kurt Klein, Consulting Broadcast Engineer

For the firm:

KLEIN BROADCAST ENGINEERING, L.L.C.

21 March 2005

NRC Broadcasting, Inc.
FM Broadcast Station K T U N
Eagle, Colorado