

TECHNICAL EXHIBIT  
APPLICATION FOR CONSTRUCTION PERMIT  
CITICASTERS LICENSES, L.P.  
RADIO STATION KGAB  
ORCHARD VALLEY, WYOMING

July 31, 2007

650 KHZ 8.5 KW-D 500 W-N U DA-N

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Technical Narrative

The technical exhibit of which this narrative is part has been prepared on behalf of Citicasters Licenses, L.P., licensee of AM broadcast station KGAB at Orchard Valley, Wyoming. KGAB is licensed as a Class B station for operation on 650 kilohertz with daytime power of 8.5 kilowatts and nighttime power of 500 watts, operating non-directional during daytime and directional during nighttime hours. By means of this present application, the licensee proposes to update the antenna tower heights and transmitter site location coordinates as given on the existing license. No other changes are proposed with this application.

This update was recently found to be necessary by comparison of the licensed transmitter site coordinates - which date from when the station was first constructed - with the more recently surveyed tower heights and coordinates that were used when the towers were registered. The proposed change has no bearing on the allocation situation with regard to other stations, as KGAB has always operated from this site and no actual changes are being made to the licensed transmission system.

The following table shows pertinent data for the existing three towers of the KGAB array:

Tower No.	ASR No.	Coordinates(NAD83)	Coordinates(NAD27)
1(E)	1036799	41-03-09.0 N 104-49-57.0 W	41-03-09.1 N 104-49-55.1 W
2(C)	1036800	41-03-11.0 N 104-49-59.0 W	41-03-11.1 N 104-49-57.1 W
3(W)	1036801	41-03-12.0 N 104-50-02.0 W	41-03-12.1 N 104-50-00.1 W

The current license states the station's coordinates as:

41-03-09 N  
104-49-53 W

When comparing the licensed with ASR Tower 2(array center) coordinates, a discrepancy of 2.1 seconds in North Latitude and 4.1 seconds in West Longitude exists. Figure 1 shows the coordinates plotted on a satellite photograph in relation to the existing KGAB towers. As can be seen on Figure 1, the coordinates given on the ASR are correct.

A vertical survey of the towers has revealed that the radiating steel length of each tower is actually 85.2 meters or 66.5 electrical degrees. The license states a length of 86.1 meters of 67.2 degrees. Figure 2 shows a tower sketch with the corrected dimensions.

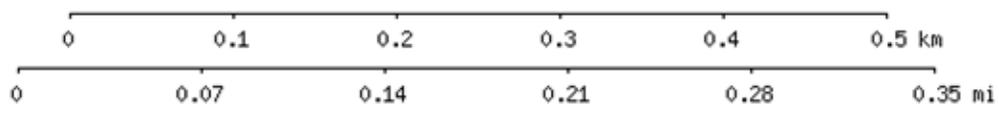
It is requested that a construction permit be issued with the updated tower heights and set of coordinates but that the requirement for a proof of performance be suspended as the station's physical location has not changed and no changes are being made to the licensed antenna system. The antenna parameters and efficiency should remain unchanged as the towers were of the height shown herein at the time of the directional antenna proof-of-performance upon which the present license is based.



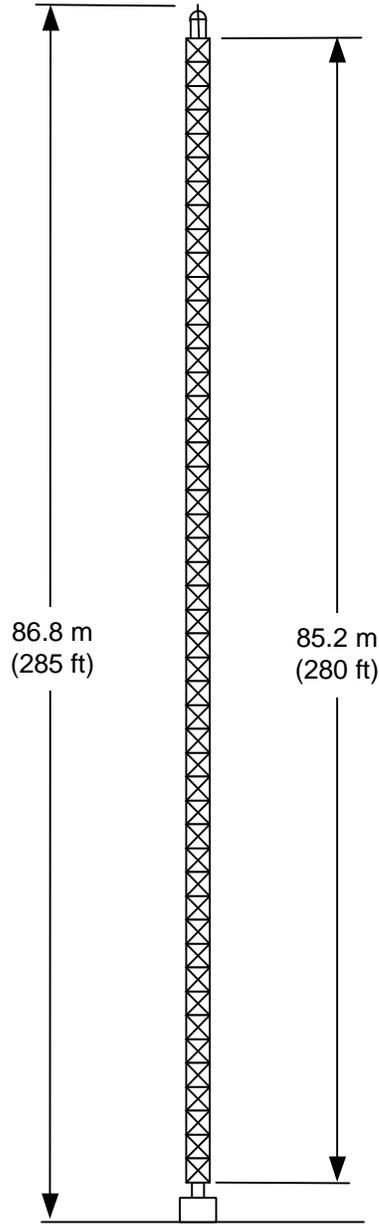
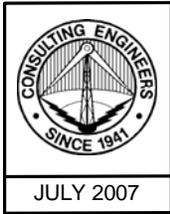
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du Treil, Lundin & Rackley, Inc.  
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July 31, 2007



**SITE LOCATIONS**  
RADIO STATION KGAB  
ORCHARD VALLEY, WYOMING  
650 KHZ 8.5 KW-D 500 W-N U DA-N  
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



Site Coordinates(NAD 27)

41° 03' 11" N  
104° 49' 57" W

All Towers

Not To Scale

<u>TWR</u>	<u>ASRN</u>
1	1036799
2	1036800
3	1036801

**SKETCH OF ANTENNA ELEMENTS**

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du Treil, Lundin & Rackley, Inc. Sarasota, Florida