

APPLICATION FOR LICENSE

**DIGITAL TELEVISION STATION
KENV-DT
ELKO, NEVADA
FACILITY ID: 63845**

RUBY MOUNTAIN BROADCASTING COMPANY

MAY, 2015

APPLICATION FOR LICENSE

The following engineering statement and attached exhibits have been prepared for **Ruby Mountain Broadcasting Company** ("Ruby"), licensee of digital television station KENV-DT at Elko, Nevada, and are in support of their application for license.¹ This application seeks to cover changes authorized under application file number 0000001056 submitted on December 18, 2014, and granted on January 21, 2015.

The specified application for construction permit was filed in order to correct the geographic coordinates associated with the facility, as well as antenna height data. No actual physical change occurred with the KENV-DT facility. Rather the requested change in antenna parameters was an administrative action. Since the submission of the application for construction permit was submitted, an additional set of more accurate geographic coordinates was determined. As a result, this application for license seeks to, while maintaining the elevation data, adjust the geographic coordinates slightly. The adjustment is in compliance with the provisions of Section 73.1690 of the Commission's Rules.

The coordinates for the facility are specified in the *Antenna Location Data* section of the form, and are summarized in the following table.

	NAD 83 Latitude	NAD 83 Longitude	NAD 27 Latitude	NAD 27 Longitude
Application	40-41-59.4 N	115-54-10.3 W	40-41-59.7 N	115-54-07.0 W
Actual	40-41-58.8 N	115-54-10.9 W	40-41-59.1 N	115-54-07.6 W

¹ The Facility ID for KENV-DT at Elko, Nevada is 63845.

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The NAD 27 coordinates listed were derived from the NAD 83 coordinates through the use of the *Corpscon* coordinate conversion utility. Since the coordinate difference is less than one second, the application of Section 73.1690 is applicable.

It should be noted that the geographic coordinates specified on the construction permit are in substantial error from both of the sets of values provided above. Specifically the coordinates listed on the construction permit are 40-42-00 Latitude and 115-54-01 West Longitude. The origin of this set of coordinates is unknown, as they are inconsistent with the current license, any prior submissions, the current construction permit, or reality. For reference purposes, a copy of the construction permit as well as the submission of the current application for construction permit in the LMS are attached to this engineering statement. Additionally, the engineering database lists incorrect coordinates. A copy of the engineering data associated with the construction permit is also attached.

The *Operating Constants* section of the LMS has technical limitations that are resulting in the necessity of the submission of slightly inaccurate data. Without changing the constants slightly, it would have been impossible to file the form. This issue is tied to the necessity of the submission of operating constants in units of dBk, the limitation on constant submission to two decimal places, and the automatic calculation function of this portion of the LMS. It is believed that this issue will plague future submissions, especially those where the transmitter power is low because of the transformation from Watts to dBk.

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The transmitter output power is 235 Watts, which corresponds to -6.29 dBk. The transmission line loss is 0.207 dB, and the actual antenna gain is 8.26 dB. These values sum to 1.76 dBk, which transforms to 1.50 kW. Since the LMS does not allow the input of three digits past the decimal point for transmitter power output, the TPO must be specified as 0.24 kW. This results in a transformation to -6.20 dBk. Therefore, at the first entry, the data is now off by 0.09 dBk, which is approximately 21 Watts. Unfortunately, this error is nearly ten percent of the actual transmitter power output in this case.

Due to the issues with the transmitter power output value, it was necessary to adjust the transmission line loss value to 0.30 dB from 0.21 dB. This change allowed for the antenna input power to be the correct value of -6.50 dBk. The antenna gain at 8.26 dB is the correct value. The end result is the values sum properly to 1.76 dBk, i.e. 1.5 kW, however, the TPO and LL values are not strictly correct. The following table summarizes what the actual values are assuming dBk with two significant figures.

Transmitter Power Output (TPO)	-6.29 dBk	0.235 kW
Transmission Line Loss (LL)	0.21 dB	
Antenna Input Power (AIP)	-6.50 dBk	
Maximum Antenna Power Gain (AG)	8.26 dB	
Effective Radiated Power	1.76 dBk	1.5 kW

As was previously mentioned, there were no actual physical construction activities that occurred with the KENV-DT facility. The construction permit listed one special condition or restriction. This condition pertains to the notification of health care facilities in the vicinity of the transmitter site. It is respectfully requested that this special condition be deleted from the

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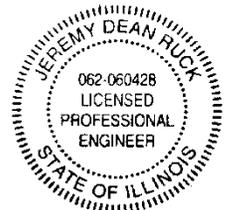
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construction permit as *not applicable* in this instance because no actual changes were made to the facility.

Although not stated as a condition on the construction permit, Ruby certifies that it will coordinate with all other users of the site to ensure that workers and other personnel are not exposed to levels of radiofrequency radiation in excess of the applicable safety standards. Such coordination activities will include, but are not necessarily limited to, a reduction in transmitter power or cessation of operation.

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature
License Expires November 30, 2015

Jeremy D. Ruck, PE
May 28, 2015

JEREMY RUCK & ASSOCIATES, INC.

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(REFERENCE COPY - Not for submission)

Modification of a Licensed Facility for DTV Application

File Number: **0000001056** | Submit Date: **12/18/2014** | Call Sign: **KENV-DT** | Facility ID: **63845** | FRN: **0003708583**
 State: **Nevada** | City: **ELKO**
 Service: **DTV** | Purpose: **Minor Modification BLCDT-20100915ABQ** | Status: **Granted** | Status Date: **01/21/2015**
 Filing Status: **Active**

General Information

Section	Question	Response
Attachments	Are attachments (other than associated schedules) being filed with this application?	Yes

Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	Yes
	Indicate reason for fee exemption:	Application for construction permit is to correct existing geographic coordinates on file based on recent survey.
	Is the applicant exempt from FCC regulatory Fees?	No
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	
	Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	No

**Applicant
Information**

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
RUBY MOUNTAIN BROADCASTING, LLC Applicant Doing Business As: RUBY MOUNTAIN BROADCASTING, LLC	J. Dominic Monahan, Esq. PO Box 10747 RENO, NV 89510 United States	+1 (775) 336-6216	DHILL@INTERWESTCOM.COM	Other

Authorization Holder Name

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

**Contact
Representatives
(2)**

Contact Name	Address	Phone	Email	Contact Type
J. DOMINIC MONAHAN LUVAAS COBB	POST OFFICE BOX 10747 EUGENE, OR 97440 United States	+1 (541) 484-9292	DMONAHAN@LUVAASCOBB.COM	Legal Representative
Jeremy D. Ruck , PE . <i>CONSULTING ENGINEER</i> Jeremy Ruck & Associates, Inc.	Jeremy D. Ruck, PE Jeremy Ruck & Associates, Inc. P.O. Box 415 Canton, IL 61520 United States	+1 (309) 647-1200	jeremy@jeremyruck.com	Technical Representative

Alien Ownership

Question	Response
1) Is the applicant a foreign government or the representative of any foreign government as specified in Section 310(a) of the Communications Act?	No
2) Is the applicant subject to the provisions set forth under Section 310(b) of the Communications Act, for a broadcast, common carrier, aeronautical en route, or aeronautical fixed radio station Authorization?	No
3) Is the applicant an alien or the representative of an alien? (Section 310(b)(1))	
4) Is the applicant a corporation, or non-corporate entity, that is organized under the laws of any foreign government? (Section 310(b)(2))	
5) Is the applicant an entity of which more than one-fifth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any entity organized under the laws of a foreign country? (Section 310(b)(3))	
6) Is the applicant directly or indirectly controlled by any other entity of which more than one-fourth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any entity organized under the laws of a foreign country? (Section 310(b)(4))	
7) Has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application?	
8) Has there been any change in the applicant's foreign ownership since issuance of the declaratory ruling(s) cited in response to Question 7?	
8a) Enter the File or Docket Number of the Petition for Declaratory Ruling that the applicant has filed for its foreign ownership in connection with this application pursuant to Section 310(b)(4) of the Communications Act. It is not necessary to file a request for a foreign ownership declaratory ruling if the applicant attaches a showing that the requested authorization(s) is exempt from the provisions of Section 310(b)(4).	
9) Does the applicant's foreign ownership comply with the declaratory ruling(s) cited in response to Question 7?	

Basic Qualifying Questions

Section	Question	Response
Revoked Application	Has the Applicant or any party to this application had any FCC station Authorization revoked or had any application for an initial, modification or renewal of FCC station Authorization denied by the Commission?	No
State or Federal Convictions	Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	No

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	63845
	State	Nevada
	City	ELKO
	DTV Channel	10
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	2

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	40° 41' 59.4" N+
	Longitude	115° 54' 10.3" W-
	Structure Type	LTOWER-Lattice Tower
	Overall Structure Height	26 meters
	Support Structure Height	26 meters
	Ground Elevation (AMSL)	2241 meters
Antenna Data	Height of Radiation Center Above Ground Level	20.0 meters
	Height of Radiation Center Above Average Terrain	562.2 meters
	Height of Radiation Center Above Mean Sea Level	2261.0 meters
	Effective Radiated Power	1.5 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	28357
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TF-6AH
	Rotation	
	Electrical Beam Tilt	0.75
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

**Parties to the
Application (0)**

Information not provided.

Attributable Interest

Section	Question	Response
Equity and Financial Interests	Applicant certifies that equity and financial interests not set forth by the applicant parties are non-attributable.	Yes
Other Authorizations	Does the applicant or any party to the application have an attributable interest in any other broadcast station(s).	Yes
Multiple Ownership	Is the applicant or any party to the application the holder of an attributable radio or television joint sales agreement or an attributable radio or television time brokerage agreement in the same market as the station subject to this application?	No
	Applicant certifies that the proposed facility complies with the Commission's multiple ownership rules and cross-ownership rules.	Yes
	Applicant certifies that the proposed facility: (a) does not present an issue under the Commission's policies relating to media interests of immediate family members; (b) complies with the Commission's policies relating to future ownership interests; (c) complies with the Commission's restrictions relating to the insulation and non-participation of non-party investors and creditors	Yes
	Does the Applicant claim status as an "eligible entity," that is, an entity that qualifies as a small business under the Small Business Administration's size standards for its industry grouping (as set forth in 13 C.F.R. § 121-201), and holds: (a) 30 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet; or (b) 15 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet, provided that no other person or entity owns or controls more than 25 percent of the outstanding stock or partnership interests; or (c) more than 50 percent of the voting power of the corporation that will own the media outlet (if such corporation is a publicly traded company)?	No

**Construction
Permit
Certifications**

Section	Question	Response
Environmental Effect	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See Section 1.1306 of 47 C.F.R.)	No
Broadcast Facility	The proposed facility complies with the applicable engineering standards and assignment requirements of 47 C.F.R. Sections 73.616, 73.622(i), 73.623(e), 73.625, 73.1030, and 73.1125.	Yes

**Legal
Certifications**

Section	Question	Response
Character Issues	<p>Applicant certifies that neither applicant nor any party to the application has or had any interest in, or connection with:</p> <p>(a) any broadcast application in any proceeding where character issues were left in unresolved or were resolved adversely against the applicant or party to the application; or</p> <p>(b) any pending broadcast application in which character issues have been raised.</p>	Yes
Adverse Findings	<p>Has the Applicant or any party to this application had an adverse finding or an adverse final action taken by any court or administrative body in a civil or criminal proceeding brought under any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?</p>	No
Program Service Certification	<p>Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.</p>	Yes
Local Public Notice	<p>Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.</p>	Yes
Auction Authorization	<p>Is the applicant submitting an application to obtain a construction permit as a result of winning an auction?</p>	No
Equal Employment Opportunity (EEO)	<p>If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report.</p>	N/A

Certification

Section	Question	Response
<p>General Certification Statements</p>	<p>The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).</p>	
	<p>The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002(c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.</p>	
<p>Authorized Party to Sign</p>	<p>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</p> <p>Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application.</p> <p>WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).</p>	
	<p>I certify that this application includes all required and relevant attachments.</p>	<p>Yes</p>
	<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Timothy Yock <i>Director</i></p> <p>12/18/2014</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
KENV-DT 301 Technical Exhibit 12182014.pdf	Applicant	All Purpose	Comprehensive Technical Exhibit
KENV-DT 301 Technical Exhibit 12182014.pdf	Applicant	Construction Permit Certifications	KENV-DT 301 Technical Exhibit
ORGANIZATIONAL CHART.pdf	Applicant	Attributable Interest	Organizational Chart



United States of America
FEDERAL COMMUNICATIONS COMMISSION
TELEVISION BROADCAST STATION
CONSTRUCTION PERMIT

Official Mailing Address:

RUBY MOUNTAIN BROADCASTING, LLC
1790 VASSAR STREET
RENO NV 89502

Facility Id: 63845
Analog TSID: 2074
Digital TSID: 2075
Call Sign: KENV-DT
Permit File Number: 0000001056

This Permit Modifies Permit No.: BLCDT-20100915ABQ

Authorizing Official:

Kevin R. Harding

Kevin R. Harding

Associate Chief

Video Division

Media Bureau

Grant Date: 1-21-15

This permit expires 3:00 a.m.
local time, 36 months after the
grant date specified above.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Name of Permittee: RUBY MOUNTAIN BROADCASTING, LLC

Station Location: NV-ELKO

Frequency (MHz): 192 - 198

Channel: 10

Hours of Operation: Unlimited

Callsign: KENV-DT

Permit No.:

Transmitter: Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Antenna type: (directional or non-directional): Non-Directional

Description: DIE, TF-6AH

Beam Tilt: 0.75 Degrees Electrical

Major lobe directions (degrees true): Not Applicable

Antenna Coordinates: North Latitude: 40 deg 42 min 00 sec

West Longitude: 115 deg 54 min 01 sec

Transmitter output power: As required to achieve authorized ERP.

Maximum effective radiated power (Average): 1.5 kW
1.8 DBK

Height of radiation center above ground: 20 Meters

Height of radiation center above mean sea level: 2261 Meters

Height of radiation center above average terrain: 562.2 Meters

Antenna structure registration number: None

Overall height of antenna structure above ground: 26 meters.

Special operating conditions or restrictions:

- 1 The grant of this construction permit is subject to the condition that, with ample time before commencing operation, you make a good faith effort to identify and notify health care facilities (e.g., hospitals, nursing homes, see 47 CFR 15.242(a)(1)) within your service area potentially affected by your DTV operations. Contact with state and/or local hospital associations and local governmental health care licensing authorities may prove helpful in this process. During this pre-broadcast period, you must provide all notified entities with relevant technical details of your operation, such as DTV channel, targeted on-air date, effective radiated power, antenna location, and antenna height. You are required to place in the station's public inspection file documentation of the notifications and contacts made and you may not commence operations until good faith efforts have been made to notify affected health care facilities. During this pre-broadcast period and for up to twenty (20) days after commencing operations, should you become aware of any instances of medical devices malfunctioning or that such devices are likely to malfunction due to your DTV operations, you must cooperate with the health care facility so that it is afforded a reasonable opportunity to resolve the interference problem. At such time as all provisions of this condition have been fulfilled, and either upon the expiration of twenty (20) days following commencement of operations or when all known interference problems have been resolved, whichever is later, this condition lapses.

*** END OF AUTHORIZATION ***



TV Query results are derived from the public files available [here](#). Requests to correct data should be referred to [Hossein Hashemzadeh](#). Comments on the TV Query may be referred to [Dale Bickel](#).

Resize Results

Resize

Search Parameters:

Facility ID No.: 63845
Lower Channel: 2
Upper Channel: 69

TV Query Results

Thu May 28 11:21:02 2015 Eastern time

Print Results

(one page per record)

KENV-DT

NV ELKO

USA

DT

LIC

Licensee: RUBY MOUNTAIN BROADCASTING, LLC

Service Designation: DT Digital television station

Transmit Channel: 10 192 - 198 MHz Licensed

Virtual Channel: 10 (viewer sees this channel number)

Network affiliation: NBC

File No.: BLCDT-20100915ABQ Facility ID number: 63845

CDBS Application ID No.: 1398973

40° 41' 52.00" N Latitude

115° 54' 13.00" W Longitude (NAD 27)

Polarization: Horizontal (H)

Effective Radiated Power (ERP): 1.5 kw ERP

Antenna Height Above Average Terrain: 567. meters HAAT -- Calculate HAAT

Antenna Height Above Mean Sea Level: 2268. meters AMSL

Antenna Height Above Ground Level: 20. meters AGL

TV Zone: 2

Non-Directional

Antenna ID No.: 89931

Pattern Rotation: 0.0

Antenna Make: RCA

Antenna Model: TF-6AH

KENV-DT NV ELKO USA

DT CP

Licensee: RUBY MOUNTAIN BROADCASTING, LLC

Service Designation: DT Digital television station
Transmit Channel: 10 192 - 198 MHz Construction Permit
Virtual Channel: 10 (viewer sees this channel number)

Network affiliation: NBC

File No.: 0000001056 Facility ID number: 63845
CDBS Application ID No.: 2000698

40° 42' 0.00 " N Latitude
115° 54' 0.70 " W Longitude (NAD 27)

Polarization: Horizontal (H)
Effective Radiated Power (ERP): 1.5 kW ERP
Antenna Height Above Average Terrain: 562.2 meters HAAT -- Calculate HAAT
Antenna Height Above Mean Sea Level: 2261. meters AMSL
Antenna Height Above Ground Level: 20. meters AGL

TV Zone: 2

Non-Directional Antenna ID No.: 28357 Pattern Rotation: 0.0

First Record

*** 2 Records Retrieved ***

Return to TV Query Data Entry screen



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