

ENGINEERING EXHIBIT

Application for Modification of Construction Permit

prepared for

Mountain Licenses, L.P.
KCYU-LP Yakima, Washington
Facility ID 58694
Ch. 41 25.4 kW

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FCC Form 346, Section III - Engineering

Exhibit 6

Statement A	Allocation Considerations - Interference Analysis
Table 1	OET 69 Interference Analysis Results Summary

Exhibit 7

Statement B	Environmental Considerations
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This material supplies a "hard copy" of the engineering portions of this application as entered October 3, 2003 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.

SECTION III - ENGINEERING DATA

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel Number:
41

2. Frequency Offset: No offset Zero offset Plus offset Minus offset

3. Translator Input Channel No. :

4. Primary station proposed to be rebroadcast:

Call Sign	City	State	Channel
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5. Antenna Location Coordinates: (NAD 27)
 Latitude:
 Degrees 46 Minutes 31 Seconds 57 North South
 Longitude:
 Degrees 120 Minutes 30 Seconds 37 West East

6. Antenna Structure Registration Number: 1235050
 Not Applicable Notification filed with FAA

7. Antenna Location Site Elevation Above Mean Sea Level: 602 meters

8. Overall Tower Height Above Ground Level: 15.2 meters

9. Height of Radiation Center Above Ground Level: 12.1 meters

10. Maximum Effective Radiated Power (ERP) Towards Radio Horizon: 25.4 kW

11. Maximum ERP in any Horizontal and Vertical Angle: 25.4 kW

12. Transmitting Antenna:
 Before selecting Directional "Off-the-Shelf", refer to "Search for Antenna Information" under [CDBS Public Access](http://svartifoss2.fcc.gov/prod/cdbspubacc/prod/cdbsp_a.htm) (http://svartifoss2.fcc.gov/prod/cdbspubacc/prod/cdbsp_a.htm). Make sure that the Standard Pattern is marked Yes and that the relative field values shown match your values. Enter the Manufacturer (Make) and Model exactly as displayed in the Antenna Search.
 Nondirectional Directional "Off-the-shelf" Directional composite
 Manufacturer SCA Model SL-8

Directional Antenna Relative Field Values: N/A (Nondirectional or Directional "Off-the-shelf")

Rotation (Degrees): No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0		10		20		30		40		50	
60		70		80		90		100		110	
120		130		140		150		160		170	
180		190		200		210		220		230	
240		250		260		270		280		290	
300		310		320		330		340		350	
Additional Azimuths											

Relative Field Polar Plot

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

13. **Interference** : The proposed facility complies with all of the following applicable rule sections. Yes No

	Check all those that apply.	See Explanation in [Exhibit 6]
	TV broadcast analog system protection.	
	a. <input checked="" type="checkbox"/> 47 C.F.R. Section 74.705	
	Digital TV station protection.	
	b. <input checked="" type="checkbox"/> 47 C.F.R. Section 74.706	
	Low Power TV and TV translator station protection.	
	c. <input checked="" type="checkbox"/> 47 C.F.R. Section 74.707	
14.	<p>Environmental Protection Act. The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine RF compliance, an Exhibit is required.</p> <p>By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.</p>	<p style="text-align: right;"><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p style="text-align: right;">See Explanation in [Exhibit 7]</p>
PREPARERS CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.		

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name ROBERT J. CLINTON	Relationship to Applicant (e.g., Consulting Engineer) CONSULTANT	
Signature	Date 10/3/2003	
Mailing Address CAVELL, MERTZ, & DAVIS, INC. 7839 ASHTON AVENUE		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20109 - 2883
Telephone Number (include area code) 7033929090	E-Mail Address (if available) BCLINTON@CMDCONSULTING.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Exhibits

Exhibit 6

Description: EXHIBIT 6 - STATEMENT A

EXHIBIT 6 - STATEMENT A - NATURE OF THE PROPOSAL - ALLOCATION CONSIDERATIONS

Attachment 6

Description
EXHIBIT 6 - STATEMENT A

Exhibit 7

Description: EXHIBIT 7 - STATEMENT B

EXHIBIT 7 - STATEMENT B - ENVIRONMENTAL CONSIDERATIONS

Attachment 7

Description
EXHIBIT 7 - STATEMENT B



[Help](#) | [Home](#)

Search returned: 1 matching antenna

Antenna Search Results

Antenna Make	Model	Service	Antenna Id	Standard Pattern	Relative Field Values
SCA	SL-8	TV	16237	Y	Click for Details



[Help](#) | [Home](#)

Antenna Make		Model		Service		Antenna Id					
SCA		SL-8		TV		16237					
Antenna relative field values:											
0°	1	10°	0.99	20°	0.99	30°	0.97	40°	0.94	50°	0.91
60°	0.85	70°	0.78	80°	0.73	90°	0.68	100°	0.66	110°	0.65
120°	0.65	130°	0.66	140°	0.68	150°	0.69	160°	0.7	170°	0.71
180°	0.72	190°	0.7	200°	0.69	210°	0.67	220°	0.65	230°	0.64
240°	0.64	250°	0.65	260°	0.66	270°	0.69	280°	0.74	290°	0.79
300°	0.85	310°	0.89	320°	0.93	330°	0.96	340°	0.98	350°	0.99
Additional Azimuths:											

[Relative Field Polar Plot](#)

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ENVIRONMENTAL CONSIDERATIONS
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The instant proposal is not believed to have a significant environmental impact as defined under Section 1.1306 of the Commission's Rules. Consequently, preparation of an Environmental Assessment is not required.

Nature of The Proposal

Mountain Licenses, L.P., (“*MLLP*”) proposes herein to modify the Construction Permit for KCYU-LP, LPTV Channel 41, Yakima, Washington (file number BPTTL-19980601YL). The instant proposal herein seeks a minor modification to specify a new transmitter location, a different antenna system, and a slightly higher effective radiated power (“ERP”) than that authorized.

The proposed KCYU-LP antenna will be side mounted on an existing structure (Antenna Structure Registration number 1235050) at an existing “tower farm” area atop Ahtanum Ridge. According to information provided by the applicant, no change in the overall antenna supporting structure height is proposed, thus no change in structure lighting or marking is anticipated. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

Human Exposure to Radiofrequency Radiation

MLLP will participate in a radiofrequency (“RF”) electromagnetic field exposure safety program, along with other broadcasters and FCC licensees that utilize the Ahtanum Ridge antenna farm. Following construction of the proposed facility, *MLLP* will commission RF exposure measurements (and/or detailed calculations) to evaluate the level of RF exposure resulting from the KCYU-LP facility. As necessary, based on these results and considering all emitters, appropriate

Exhibit 7 - Statement B
ENVIRONMENTAL CONSIDERATIONS

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exposure abatement procedures will be established and followed, in order to comply with the Commission's exposure limits. Such abatement procedures may involve the restriction of access to certain areas and/or facility modifications to reduce RF levels.

Considering the post-construction measurement and an appropriate abatement program, members of the general public will not be exposed to RF levels in excess of the Commission's guidelines. Site access will continue to be restricted and controlled through the use of locked gates, and RF exposure warning signs will continue to be posted.

Safety of Tower Workers and the General Public

With respect to worker safety, authorized personnel will be trained and/or supervised as necessary for access to any "controlled" areas. A site exposure policy will be employed protecting maintenance workers from excessive exposure when work must be performed on the tower in areas where high RF levels may be present. Such protective measures may include, but will not be limited to, restriction of access to areas where levels in excess of the guidelines may be expected, power reduction, or the complete shutdown of facilities when work or inspections must be performed in areas where the exposure guidelines will be exceeded. On-tower RF exposure measurements may also be undertaken to establish the bounds of safe working areas. *MLLP* will coordinate exposure procedures with all pertinent stations.

Conclusion

Based on the preceding, it is believed that the instant proposal may be categorically excluded from environmental processing under Section 1.1306 of the Rules, hence preparation of an Environmental Assessment is not required.