

Section III - Engineering (Analog)

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. All items must be completed. The response "on file" is not acceptable.

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

TECH BOX

1. Channel: 32

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

3. Antenna Location Coordinates: (NAD 27)
26 ° 15 ' 21.3 " N S Latitude
98 ° 09 ' 43.04 " E W Longitude

4. Antenna Structure Registration Number: 1053092
 Not applicable

See Explanation in Exhibit No.

 FAA Notification Filed with FAA

5. Antenna Location Site Elevation Above Mean Sea Level: 29.8 meters

6. Overall Tower Height Above Ground Level: 152.1 meters

7. Height of Radiation Center Above Ground Level: 140.2 meters

8. Maximum Effective Radiated Power (ERP) Towards Radio Horizon: 6 kW

9. Maximum ERP in any Horizontal and Vertical Angle: 6 kW

10. Transmitting Antenna: Nondirectional Directional "Off-the-shelf" Directional composite

Manufacturer <u>PSI</u>	Model <u>PSILP24BD</u>
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Directional Antenna Relative Field Values:
 Rotation: 230 ° No rotation N/A (Nondirectional)

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	1	60	.21	120	.22	180	.24	240	.22	300	.21
10	.95	70	.23	130	.21	190	.24	250	.25	310	.22
20	.79	80	.26	140	.21	200	.24	260	.26	320	.29
30	.5	90	.27	150	.23	210	.23	270	.27	330	.50
40	.29	100	.26	160	.24	220	.21	280	.26	340	.79
50	.22	110	.25	170	.24	230	.21	290	.23	350	.95
Additional Azimuths											

CERTIFICATION

11. **Interference.** The proposed facility complies with all of the following applicable rule sections. 47 C.F.R. Sections 73.6016, 73.6017, 73.6018, 73.6019, 73.6020, 73.6027 and 74.794(b).

Yes No See Explanation in Exhibit No.

12. **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.

Yes No See Explanation in Exhibit No.

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.

Exhibit No.

13. **Channels 52-59.** If the proposed channel is within channels 52-59, the applicant certifies compliance with the following requirements, as applicable:

Yes No See Explanation in Exhibit No.

The applicant is applying for a digital companion channel for which no suitable channel from channel 2-51 is available.

Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.

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 Manuel Cavazos III	Relationship to Applicant (e.g., Consulting Engineer) Director of Engineering	
Signature	Date	
Mailing Address 801 N. Jackson		
City McAllen	State or Country (if foreign address) TX	ZIP Code 78501
Telephone Number (include area code) 956-687-4848	E-Mail Address (if available) scavazos@entravision.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).

Entravision RFR Calculator
by Sonny Cavazos

		Angle	Field
Relative field factor	0.06		60 0.07
Power in Watts	6000		65 0.07
RCAGL	140		70 0.07
Frequency	578		75 0.07
Microwatts	0.037882798		80 0.07
mW/cm squared	0.00003788280		85 0.07
			90 0

MPE Limit for General Population / Uncontrolled Environments	0.385333333	Calculated Emmission	0.00003788280	Percentage of Limit for General Population / Uncontrolled Environments
MPE Limit for Occupational / Controlled Environments	1.92474	Calculated Emmission	0.00003788280	Percentage of Limit for Occupational / Controlled Environments

Entravision Communications

KLIA-L
 BLTTL19980622JE
 Latitude: 26-15-23 N
 Longitude: 098-13-49 W
 ERP: 12.00 kW
 Channel: 32N
 Frequency: 581.0 MHz
 AMSL Height: 115.0 m
 Elevation: 36.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: Yes
 Elec Tilt: 0.0
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0050
 Dielec Const: 15.0
 Refractivity: 311.0
 Receiver HI AG: 10.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

Currently Licensed

Proposed STA

-  > 100.0 dBu
-  74.0 - 100.0
-  64.0 - 74.0
-  54.0 - 64.0

74 dBu

