

# Wayne County

18 South Main  
Loa, Utah 84747

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September 12, 2011

Federal Communications Commission  
Video Division, Media Bureau  
Hossein Hashemzadeh; Mohammad Habib

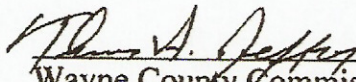
## Request for a channel 22 Digital TV Translator STA at Capitol Reef National Park

Capitol Reef National Park, is located in Wayne County, Utah. There are approximately 25 to 30 people who live at the park year round. These residents have expressed a desire to add a PBS station (KUED) to compliment the three digital TV Translator services they currently have.

The addition of a PBS station would be of great benefit to the year round residents of this park and would also be used by thousands of tourists who visit Capitol Reef National Park in their RV's on a daily basis.

Wayne County asks for your consideration in this request.

Sincerely,

  
Wayne County Commissioner

9-13-11  
Date

## **Digital TV Translator STA Engineering Request**

Applicant: Wayne County

Mailing Address: 18 south main

City: Loa                      State: UT                      ZIP code: 84747

Telephone: 4358362765

FCC Registration Number: 0005807458

Contact Representative: Mauri Parsons

Mailing address:                      P.O. Box 473  
   Monroe, Utah 84754

Community of License: Fruita (Capitol Reef National Park)      State: UT

Application Purpose: Digital TV Translator STA Engineering Request



**Section III - Engineering (Digital)****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: 22

2. Translator Input Channel No. : 40

3. Primary station proposed to be rebroadcast:

Facility Identifier	Call Sign	City	State	Channel
69396	KUED	Salt Lake City	Utah	42

4. Antenna Location Coordinates: (NAD 27)

Latitude:

Degrees 38 Minutes 17 Seconds 46.4 ☒ North ☐ South

Longitude:

Degrees 111 Minutes 17 Seconds 30 ☒ West ☐ East

5. Antenna Structure Registration Number:

☒ Not Applicable [Exhibit 11]

☐ Notification filed with FAA

6. Antenna Location Site Elevation Above Mean Sea Level: 1928 meters

7. Overall Tower Height Above Ground Level: 6.1 meters

8. Height of Radiation Center Above Ground Level: 5.2 meters

9. Maximum Effective Radiated Power (ERP): .031 kW

10. Transmitter Output Power: .001 kW

11. a. Transmitting Antenna:

Before selecting Directional "Off-the-Shelf", refer to "Search for Antenna Information" under [CDBS Public Access](http://licensing.fcc.gov/prod/cdbs/pubacc/prod/cdbs_pa.htm) (http://licensing.fcc.gov/prod/cdbs/pubacc/prod/cdbs\_pa.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 PR-450CU

b. Electrical Beam Tilt: degrees ☒ Not Applicable

c. Mechanical Beam Tilt: degrees toward azimuth degrees True ☐ Not Applicable

d. Directional Antenna Relative Field Values: ☒ N/A (Nondirectional or Off-the-Shelf)

Rotation (Degrees): 109

☐ 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	

Description: ENGINEERING QUESTION 5, ANTENNA STRUCTURE REGISTRATION #.

ANTENNA REGISTRATION #, NOT APPLICABLE.

RULES- FAA~77.15

TOWER IS LESS THAN 200 FEET IN HEIGHT ABOVE THE GROUND LEVEL AT THIS SITE.

TOTAL TOWER HEIGHT IS MORE THAN 20,000 FEET FROM THE NEAREST POINT OF THE NEAREST LANDING AND TAKEOFF AREA OF ANY AIRPORT.

[Previous](#)

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e. Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?

☐ Yes ☒ No

[Exhibit 12]

If Yes, attach an Exhibit (see instructions for details).

#### 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.

12. **Out-of-channel Emission Mask:** ☒ Simple ☐ Stringent ☐ Full Service

#### CERTIFICATION

13. **Interference :** The proposed facility complies with all of the following applicable rule sections. 47.C.F.R Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030. ☒ Yes ☐ No  
See Explanation in [Exhibit 13]

14. **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 14]

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.

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

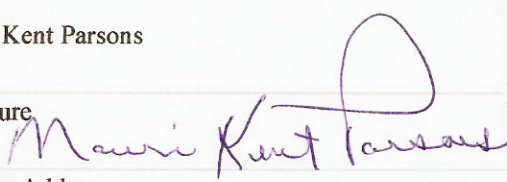
- ☐ The applicant is applying for a digital companion channel for which no suitable channel from channel 2-51 is available.
- ☐ Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licenses of the spectrum comprising the proposed 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.

16. **Channels 60-69.** If the proposed channel is within channels 60-69, the applicant certifies compliance with the following requirements, as applicable:

- ☐ Pursuant to Section 74.786(e), the applicant has notified, within 30 days of filing this application, all commercial wireless licenses 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.
- ☐ Pursuant to Section 74.786(e), the applicant proposing operation on channel 63, 64, 68 and 69 ("public safety channels") has secured a coordinated spectrum use agreements(s) with 700 MHz public safety regional planning committee(s) and state administrator(s) of the region(s) and state(s)



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 Mauri Kent Parsons		Relationship to Applicant (e.g., Consulting Engineer) Field Engineer	
Signature 		Date 9/9/2011	
Mailing Address 390 south 500 east P.O. Box 473			
City Monroe		State or Country (if foreign address)	Zip Code 84754
Telephone Number (include area code) 4355273508		E-Mail Address (if available) mauriparsons@hotmail.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).