

**Station K69AH • Digital Channel 22 • The Dalles, OR**

**Technical Summary for Special Temporary Authority**

**A. Station Information**

Call Sign	K69AH
Facility Identifier	50631
Type	TV Translator
Community of License	The Dalles, OR
File Number of Original Construction Permit	BLTT19920624JD
Proposed Service Type	Digital TV Translator
Station Proposed to be Rebroadcast	KPDJ, Vancouver, WA
Translator Input Channel	30

**B. Antenna Location Coordinates**

<u>NAD27</u>	
45° 42' 43.0" N	
121° 06' 58.0" W	

**C. Heights**

Antenna Structure Registration Number	N/A
Antenna Location Site Elevation Above Mean Sea Level	963.0 m
Overall Tower Height Above Ground Level	20.0 m
Height of Radiation Center Above Ground Level	18.0 m

**D. Proposed Operation**

Channel	22
Transmitter Power Output	0.029 kW
Effective Radiated Power	0.300 kW

**E. Transmission System**

Antenna:	
Make	Kathrein
Model	771-304
Pattern	Non-Directional
Polarization	Horiz
Azimuth pattern orientation	N/A °T
Electrical beam tilt	1.75 °

Out-Of-Channel Emission Mask	Stringent
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**REQUEST FOR SPECIAL TEMPORARY AUTHORITY  
ENGINEERING STATEMENT  
MEREDITH CORPORATION  
FILE NUMBER BLTT19920624JD  
TELEVISION TRANSLATOR STATION K69AH  
THE DALLES, OREGON  
CH. 22, 0.3 KW-ND, 597 MTR HAAT**

This statement supports a request for Special Temporary Authority submitted by Meredith Corporation (Meredith) licensee of K69AH a television translator station licensed to serve The Dalles, Oregon. K69AH is currently an analog television translator authorized to operate on channel 69.

The analog K69AH transmitter has failed. Notice of suspended operations previously was provided to the Commission. Full repair of the transmitter is problematic, and Meredith is not in a position to quickly implement the translator's digital displacement relief permit (FCC File No. BDISDTT-20100804ABI) to move to DTV Channel 22, but it is possible to operate digitally on Channel 22 at a reduced power of 0.3 kW. Accordingly, Meredith hereby is proposing such operation.

An engineering study was performed comparing the coverage of digital operation at 0.3 kW to that of the analog facility. The results indicate that the proposed digital service area, even at the reduced power, exceeds that of the analog service area. Additionally, Meredith notes that grant of this STA request effectively will allow for the elimination of the translator's out-of-core analog operations.

For the reasons mentioned above Meredith believes a grant of this STA would be in the best interest of K69AH viewers and is consistent with the goals of the Commission by moving to an in-core television channel.

An interference and coverage analysis was performed using channel 22 as the displacement channel. The analysis was performed using the methodology stated in OET-69 using same software (tv\_process\_2010) utilized by the Commission for analyzing interference into current users and pending applicants and, therefore, should yield similar results. The results of that analysis indicate the proposed facility operating under STA is in compliance with 47 C.F.R. Sections 74.709, 74.793(e), 74.793(g), 74.793(h) and 73.1030.

The proposed operation is on one of the channels listed as requiring additional measures to protect frequencies used by the Global Positioning System ("GPS"), as described in Section 74.794(b). Meredith certifies that it will install an appropriately FCC-certified transmitter or a low-pass filter (or equivalent device) as required.



**REQUEST FOR SPECIAL TEMPORARY AUTHORITY  
ENVIRONMENTAL AND RADIO FREQUENCY EXPOSURE STATEMENT  
MEREDITH CORPORATION  
FILE NUMBER BLTT19920624JD  
TELEVISION TRANSLATOR STATION K69AH  
THE DALLES, OREGON  
CH. 22, 0.3 KW-ND, 18 MTR AGL**

The proposed request for Special Temporary Authority (STA) will not involve any major change in height using an existing antenna on the current tower. No change in tower location or height is proposed and the proposed modification will not result in any environmental impact. The overall tower structure, including all appurtenances, does not exceed 61 meters and, therefore, does not require an Antenna Registration Number.

The K69AH digital facility, operating at STA on channel 22, was evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the antenna is located 18 meters above ground level. The proposed operation was evaluated using Far-Field Equation (1) on page 30 of Supplement A to OET Bulletin No. 65 (August 1997). The ERP utilized in the calculations was set to the maximum ERP value of 0.3 kW which is the total power radiated in the horizontal plane. A conservative minimum elevation-plane antenna relative field value ["F" in Equation (1)] of 0.3 was used in the calculations. The maximum calculated power density at 2 meters (6.6 feet) above ground level is 0.0035 mW/cm<sup>2</sup> which is 0.20% of the FCC's recommended limit of 1.74 mW/cm<sup>2</sup> for an occupational/controlled environment and 1.01% of 0.35 mW/cm<sup>2</sup> for general public/uncontrolled exposure. The proposed operation is therefore categorically excluded under Section 1.1306 of the Commission's rules from having to consider the contributions of other stations at the site.

Access to the transmitting tower and any radio frequency generating equipment is restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

