LOHNES & CULVER
A Limited Liability Company
TELECOMMUNICATIONS CONSULTANTS

P.O. Box 881 Silver Spring, MD 20918-0881
Ph. 301-776-4488
Fax 301-776-4499

Request for Digital LPTV Engineering STA
Technical Facility Proposal

Analog low power television station WHDC-LP in Charleston, South Carolina is requesting Special Temporary Authorization (STA) to operate a digital facility for the purpose of resuming on-air operation. Because the new Licensing and Management System (LMS) will not allow the station to submit a request for an Engineering STA to operate in the digital mode, this request is being filed in the form of a legal STA with a description of the technical facility proposal provided as an attachment.[1] It specifies the same antenna location that is currently authorized for WHDC-LP in the outstanding construction permit to flash-cut the station to digital operation.[2] However, the STA facility will employ a different nondirectional antenna mounted at a lower height of radiation center and will operate at reduced effective radiated power.

The technical specifications are outlined in the following two pages.

Respectfully submitted,

Lohnes & Culver LLC

Scott Turpie

December 1, 2015

[1] This request for temporary authority to operate WHDC-LP in the digital mode is being filed in the form of a Legal STA as directed by the FCC Video Division staff.

[2] WHDC-LP was granted authority to flash-cut to digital operation – see File Number BDFCDVL-20130308AEW.

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	10548
	State	South Carolina
	City	CHARLESTON
	LPD Channel	12

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1059860
Coordinates (NAD83)	Latitude	32° 47' 45.0" N+
	Longitude	079° 50' 26.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	318.2 meters
	Support Structure Height	317.3 meters
	Ground Elevation (AMSL)	1.5 meters
Antenna Data	Height of Radiation Center Above Ground Level	33.5 meters
	Height of Radiation Center Above Mean Sea Level	35.0 m
	Effective Radiated Power	.117 kW

Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	
Antenna Manufacturer and Model	Manufacturer:	PSI
	Model	PSIVLP2OI-12
	Rotation	
	Electrical Beam Tilt	Not Applicable
	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	
	Out-of-Channel Emission Mask:	Stringent