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STA - REDUCED POWER REQUEST/NOTIFICATION

DIGITAL TELEVISION STATION

WLFG CHANNEL 14

GRUNDY, VIRGINIA

FACILITY ID: 37808

WLFG requests Special Temporary Authority (STA) to operate its DTS-1 site at approximately 50% of the authorized effective radiated power. DTS-2 is unaffected and normal operation continues.

Technical Details DTS-1 site:

LOCATION	LATITUDE	LONGITUDE
WLFG (DTS-1 SITE) SITE ID: 1	36-49-47.3 N	082-04-44.4 W
ANTENNA SYSTEM	ERI ATW22HS5-14H (NO CHANGE)	
	LICENSED	STA
ERP (KW)	479 KW	240 KW
TRANSMITTER POWER	AS NECESSARY TO PRODUCE ERP	

Extraordinary Circumstances:

WLFG has experienced indications of power amplifier module overloads in its main transmitter at the DTS-1 site.

The power amplifier overloads appear to originate from a possible partial failure within the channel 14 “mask-filter” (random electrical arcing). The mask filter is operating correctly within its filter specifications (i.e., the emission mask) at reduced power (recent inspection by the transmitter representative); however, that inspection indicated that a replacement of the filter is required. In order to prevent complete failure of the filter, a reduction in power in the system is required. Thus WLFG is operating at 50% power at this site.

Relief Sought:

To the extent necessary, WLFG requests waiver of the power limits as specified in 47 C.F.R. 73.1560(c) to permit reduced power as necessary (currently set and stable at 50% of the licensed ERP).

Public Interest:

Grant of this STA request is in the public interest. It will allow continued operation of the WLFG DTS site-1 transmission system (its main service area) to serve its licensed community and surrounding populations. As this is a power reduction, no increased interference will occur to any other known broadcast facility.

STA Duration:

WLFG is working diligently towards resolving this difficulty; the manufacture and replacement/installation of the mask filter is currently being evaluated by the outside companies involved. As a custom item, it is reasonable to expect that a significant period of time will be required to investigate the cause of the filter failure, devise a manufacturing solution, and then ship and install a new filter, a process that could take six or more months for the manufacturer to accomplish.

The proposed operation is fully in compliance with all areas of the Commission's rules and applicable international agreements.

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