

ENGINEERING EXHIBIT
Application for License to Cover
Auxiliary Antenna Construction Permit
Digital Television Station

prepared for

Ramar Communications, Inc.

KJTV-TV Lubbock, TX

Facility ID 55031

Ch. 35 255 kW 267 m

Ramar Communications, Inc. ("Ramar") is the licensee of digital television station KJTV-TV, Channel 35, Lubbock TX, Facility ID 55031 (file# 0000074582). A Construction Permit ("CP", file# 0000059338) authorizes KJTV-TV to utilize an auxiliary antenna at an effective radiated power ("ERP") of 470 kW.

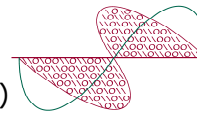
The KJTV-TV auxiliary antenna facility has been constructed and, due to limited power handling capacity, can operate at a maximum of 255 kW ERP, which is reduced from the authorized value of 470 kW. *Ramar* herein seeks a license to cover the CP, and requests that the license be issued to specify a reduced ERP of 255 kW, a change that can be specified at the licensing stage pursuant to §73.1675(c)(1). The directional antenna, antenna location, and antenna height all match the values authorized in the CP.

Electronic filing provided by the FCC's Licensing and Management System ("LMS") does not provide opportunity for the applicant to change the authorized ERP on an auxiliary antenna license application. LMS has pre-filled the ERP to 470 kW as a fixed value. Therefore the operating constants as supplied in the LMS form responses do not represent the actual parameters to be licensed. The following summary provides the operating parameters that correspond to the as-built 255 kW ERP auxiliary antenna facility. The applicant requests that the auxiliary antenna license be issued to specify 255 kW ERP, requiring a TPO of 16.03 kW.

Engineering Exhibit

Ramar Communications, Inc. (KJTV-TV auxiliary antenna)

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Chesapeake RF Consultants, LLC

Radiofrequency Consulting Engineers
Digital Television and Radio

	<u>LMS pre-filled</u>	<u>As-Built Values for License</u>
Transmitter Power Output (TPO):	29.5 kW 14.70 dBk	16.03 kW 12.05 dBk
Transmission Line Loss (LL):	1.17 dB	1.17 dB
Antenna Input Power (AIP):	13.53 dBk	10.88 dBk
Max. Antenna Power Gain (AG):	13.19 dB	13.19 dB
Effective Radiated Power (ERP):	26.72 dBk 470 kW	24.07 dBk 255 kW

Chesapeake RF Consultants, LLC

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August 2, 2019

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