

REPLACEMENT DIGITAL TELEVISION TRANSLATOR
GRIFFIN LICENSING, LLC
NEW FILL-IN DIGITAL TV TRANSLATOR
CH 30 - 566-572 MHZ - 1.0 KW
CANEY, KANSAS
August 2011

EXHIBIT D

Digital Replacement Translator Proposed Transmission System Calculations

Effective Radiated Power:	
Horizontal	1.0 kilowatt (maximum)
Antenna:	Kathrein/Scala Antenna Model 770-881
Horizontal gain (maximum):	Power gain 6.310
Transmission Line:	Andrew Corporation HJ7-50A
(375 feet)	1 5/8 inch air dielectric 64.3% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.2465 kilowatt (246.5 watts)