

APPLICATION FOR MODIFICATION OF STATION LICENSE
QANTUM OF CAPE COD LICENSE COMPANY, LLC
WCOD-FM RADIO STATION
CH 291B - 106.1 MHZ - 50.0 KW
HYANNIS, MASSACHUSETTS
June 2008

EXHIBIT A

WCOD-FM Transmission System Calculations

Effective Radiated Power:	
Horizontal	50.0 kilowatts
Vertical	50.0 kilowatts
Antenna:	Shively 6810-5R
	5 bay full wavelength spaced.
Horizontal gain	2.7
Transmission Line:	Andrew HJ8-50B
(318 feet)	3 inch air dielectric
	89.9% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	20.599 kilowatts
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Facilities Authorized:	Channel 291B - 106.1 MHz
Effective Radiated Power:	50.0 kilowatts (H/V)
Geographic Coordinates: ²	North Latitude 41° 43' 44"
	West Longitude 70° 10' 02"
Antenna Center of Radiation:	Above Ground 101.0 meters
	Above MSL 125.0 meters
	HAAT 131.0 meters
Antenna Structure Registration #:	1007750

2) Corrected coordinates.