

APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
W253AC FM TRANSLATOR STATION
CH 253D - 98.5 MHZ - 0.10 KW
READING, PENNSYLVANIA
January 2012

EXHIBIT A

W253AC Transmission System Calculations

Effective Radiated Power:

Horizontal	0.100 kilowatt
Vertical	0.100 kilowatt

Antenna:	Electronics Research, Inc. LPX-2E 2 bay full wave spaced antenna
Antenna System Power Gain	0.9971

Transmission Line: (417 feet)	Andrew LDF5-50A 7/8 inch foam dielectric 70.3% efficiency
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Required Transmitter Power Output To Reach Effective Radiated Power:	0.14266 kilowatt (142.7 watts)
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Facilities Authorized:	Channel 253D - 98.5 MHz
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Effective Radiated Power:	0.10 kilowatt (H/V)
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Geographic Coordinates:	North Latitude 40° 19' 28" West Longitude 75° 56' 31"
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Antenna Center of Radiation:	Above Ground 54.0 meters Above MSL 151.0 meters
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Antenna Structure Registration #:	1243948
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