

THE TROY RECORD COMPANY

The following information was taken from statement by George E. Gautney, associate of John Barrett, Radio Consulting Engineer, Earle, Building, Washington, 4, D.C. in connection with the modification of application for construction permit in changing the transmitter station site from one originally selected and which formed the basis for FCC Form 319 application filed by the above applicant for a 10 KW Class "B" Metropolitan FM station.

7550 Square miles over-all service area coverage

Transmitter and antenna site located near School #7, nine miles to east of the City of Troy, N.Y. and near Cropseyville.

Elevation of transmitter and antenna site 1430 feet.

3 KW FM transmitter output (General Electric).

13 KW effective radiated power (ERP).

GE 6-bay FM Circular Type Antenna. (Height approx 60 ft.)

Height of self-supporting tower 90 feet.

Over-all height of combined tower and FM antenna - 150 feet.

Field Gain of GE 6-bay FM circular antenna - 2.34

Over-all height of tower plus antenna above mean sea level 1580 feet. Adding 2 feet required for light bracket, the absolute over-all height will be 1582 feet.

Distance from ground level to the center line of the radiating section of the GE 6-bay FM circular antenna will be 125 feet and will also be 1555 feet above mean sea level.

Transmission Line (coaxial cable) will be approximately 200 feet of concentric copper 3 1/8" diameter as manufactured by Communication Products, Inc., having an efficiency (est.) of 93.4%.

The antenna will be supplied with 2.37 KW, giving effective radiated power (ERP) of 13 KW.

Radials and profiles were prepared and analyzed for distances of 2 to 10 miles (Radials A, B, C, D, E, F, G and H) from which it was determined that the effective antenna height is 587 ft.

There are no other radio stations within 8 miles (radius).

Ernest A Barbeau
Radio Station Conslt.
Schenectady, N.Y.
2/8/47

92.5 mc
Frequency

BOUNDARY OUTLINE (approx.)

by cities, towns and villages of the
proposed service area coverage of

THE TROY RECORD COMPANY'S NEW FM
RADIO BROADCAST STATION.

Primary (Urban) Coverage
High Noise Level Area

1000 uv/m Contour

NORTH	-	Ft. Edward Argyle Cossayuna
NORTH-EAST	-	Salem Hoosick Falls North Bennington, Vt.
EAST	-	Substantially zero coverage.
SOUTH-EAST	-	Substantially zero coverage.
SOUTH	-	Chatham Stuyvesant Falls Coxsackie
SOUTH-WEST	-	Greenville Rensselaerville
WEST	-	Esperence Delanson Gallupville Fort Johnson Fort Hunter
NORTH-WEST	-	Perth Hagadorn Mills Porter's Corners

Secondary (Rural) Coverage
Low-Noise Level Area

50 uv/m Contour

NORTH	-	Hague-on-Lake George Putnam Adirondack Olmsteadville West Rutland, Vt.
NORTH-EAST	-	Wallingford, Vt. Londonderry, Vt. Manchester Depot, Vt.
EAST	-	Substantially zero coverage.
SOUTH-EAST	-	Substantially zero coverage.
SOUTH	-	Sheffield, Mass. Salisbury, Conn. Millerton, N. Y. Stanfordville, N. Y. Rhinebeck, N. Y. Kingston, N. Y.
SOUTH-WEST	-	Margaretville Fleishmans Andes
WEST	-	Cooperstown Richfield Springs Mohawk Herkimer
NORTH-WEST	-	Speculator Indian Lake

Prepared by:

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