

PARTIAL PROOF OF PERFORMANCE

WIFI

1460KHz 5KW/1KW DA-2

FLORENCE, NEW JERSEY

May 21, 2019

WIFI is licensed to serve Florence, New Jersey on 1460kHz with 5kW daytime and 1kW night and has been awarded an FM translator which specifies location on a tower in the WIFI array. As a condition of the construction permit for the new translator a partial proof must be conducted before and after installation of the new FM antenna on the WIFI array. This report documents that before and after proof of performance.

The sample system was checked for basic integrity and cable lengths were verified before the start of this process.

MEASUREMENT PROCEDURE

Eight or more points from the original 1992 proof of performance report were measured in each of the four monitor radial directions and the measurements documented before the antenna was mounted on the tower and then again after the antenna had been mounted and the pattern fine adjusted back to normal operation.

Several Field strength meters were used for the measurements and all were compared and found to match within the manufacturers rated tolerance. The meters were:

Potomac PI4100 SN 380 cal May15 2018

Potomac FIM 41 SN204

Potomac FIM41 SN208

SUMMARY

The WIFI array was found to be within the standard pattern before and after installation of the new FM translator antenna. A Form 302 will be filed to make the operating parameters at the after proof of performance the licensed parameters and to specify a new monitor point location on radial 347 to replace a previous monitor point location that now has difficulty with access.

PATTERN SUMMARY

Radial 39.5 degrees

1992 Full Proof	69.3mV/m
Standard Pattern	103.0mV/m
Before partial	63.2 mV/m
After partial	88.1 mV/m

Radial 227.5 degrees

1992 Full Proof	127.7mV/m
Standard Pattern	130.4mV/m
Before Partial	106.8mV/m
After Partial	101.0mV/m

Radial 284.5 degrees

1992 Full Proof	110.4mV/m
Standard Pattern	110.4mV/m
Before Partial	53.7mV/m
After Partial	57.7mV/m

Radial 347 degrees

1992 Full Proof	111.2mV/m
Standard Pattern	112.7mV/m
Before Partial	84.9mV/m
After Partial	101.0mV/m

