

**ENGINEERING STATEMENT PREPARED IN SUPPORT OF  
GRANT OF LPTV DTV APPLICATIONS  
WLNY LIMITED PARTNERSHIP WLIG-LD CH 45 DTV 15 kW ERP MINEOLA, NEW YORK  
RENARD COMMUNICATIONS CORP. WMBQ-CA CH 46 DTV 15 kW ERP MANHATTAN,  
NEW YORK**

**JULY 2009**

This statement is prepared in support of a grant of modification of construction permit for WLIG CH 45 DTV specifying full LPTV DTV facilities at Mineola, New York and grant of construction permit for full LPTV DTV facilities for WMBQ-CA CH 46 at Manhattan, New York pursuant to an interference agreement between the parties as fully described in this application.

Figure 1 attached depicts the licensed WMBQ-CA and WLIG-LD facilities and the proposed facilities. The land area and population data for each facility is tabulated below:

<u>Facility</u>	<u>Area Square kM</u>	<u>Population – 2000 Census</u>
WLIG-LD CH 26 DTV 51 dBu	578.8	641,021 Persons
WLIG-LD CH 45 DTV 51 dBu	4,082.7	11,215,459
Gain	3,503.9	10,574,438
WMBQ-CA CH 46 74 dBu	827.7	5,690,797
WMBQ-CA CH 46 51 dBu	3,665.3	10,144,085 Persons
Gain	2,837.6	4,453,288

The increase in facilities specified here is achieved through the use of full-power mask filters resulting in station emissions which comply with full service rule section 73.622(h)(1) and collocation of the two transmission facilities on the same building rooftop. Use of high power mask filters results in no predicted interference from CH 45 to CH 46 DTV or CH 46 to CH 45 DTV.

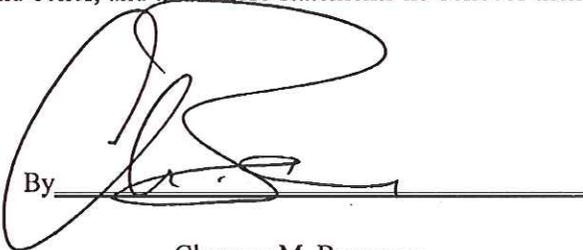
It is noted that the WMBQ-CA CH 46 full power LPTV facility is predicted to cause some interference within the noise limited contour of first adjacent channel DTV facility WLNY CH 47 Riverhead, New York. However, as seen on Figure 2 attached, 92% of the predicted area of interference lies within an area where WLNY has never had off-the-air viewers, in the past, since it lies outside of the noise limited contour for the previously licensed WLNY CH 57 DTV facility.

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2.24% of the population within the WLNY CH 47 DT noise limited contour is predicted to receive unique interference from the proposed WMBQ-CA CH 46 DTV facility. The entire area within which the WMBQ-CA CH 46 facility is predicted to cause interference to the WLNY predicted CH 47 signal receives service from 10 licensed full-service DTV stations and 5 licensed LPTV stations. The area will be served by numerous other facilities which hold construction permits to serve the area but whose licenses are not yet granted. It is noted that the area predicted to receive interference is at the edge of the WLNY DTV service area in Queens. Congress mandated the development of a more accurate method of predicting actual service to the TV viewer. This methodology is documented in OET-Bulletin No. 72 and is described as the ILLR Computer Program. When real world signal attenuation associated with buildings and land cover are considered there will be essentially no loss of WLNY DT service as the signal level is too low to be received in the area where interference is predicted to occur.

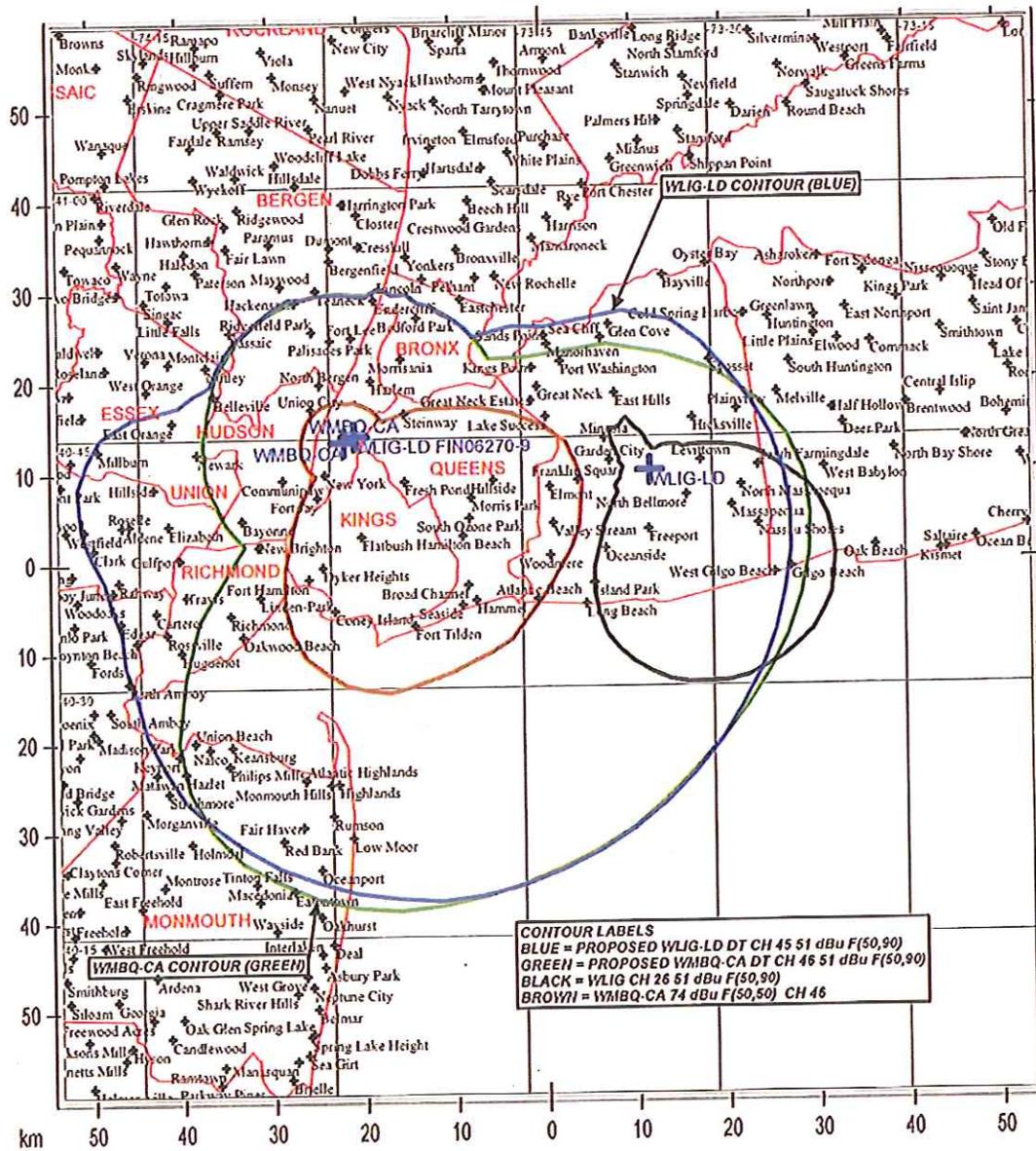
The foregoing was prepared on behalf of **WLNY Limited Partnership and Renard Communications Corp.**, by Clarence M. Beverage of *Communications Technologies, Inc.*, Marlton, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The undersigned certifies, under penalty of perjury, that the statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.

By 

Clarence M. Beverage  
*for* Communications Technologies, Inc.  
Marlton, New Jersey

July 2, 2009

WLIG-LD MINEOLA, NY CH 26 & CH 45 DTV WMBQ-CA MANHATTAN, NY CH 46 ANALOG & DTV



**CONTOUR LABELS**  
 BLUE = PROPOSED WLIG-LD DT CH 45 51 dBu F(50,90)  
 GREEN = PROPOSED WMBQ-CA DT CH 46 51 dBu F(50,90)  
 BLACK = WLIG CH 26 51 dBu F(50,90)  
 BROWN = WMBQ-CA 74 dBu F(50,50) CH 46

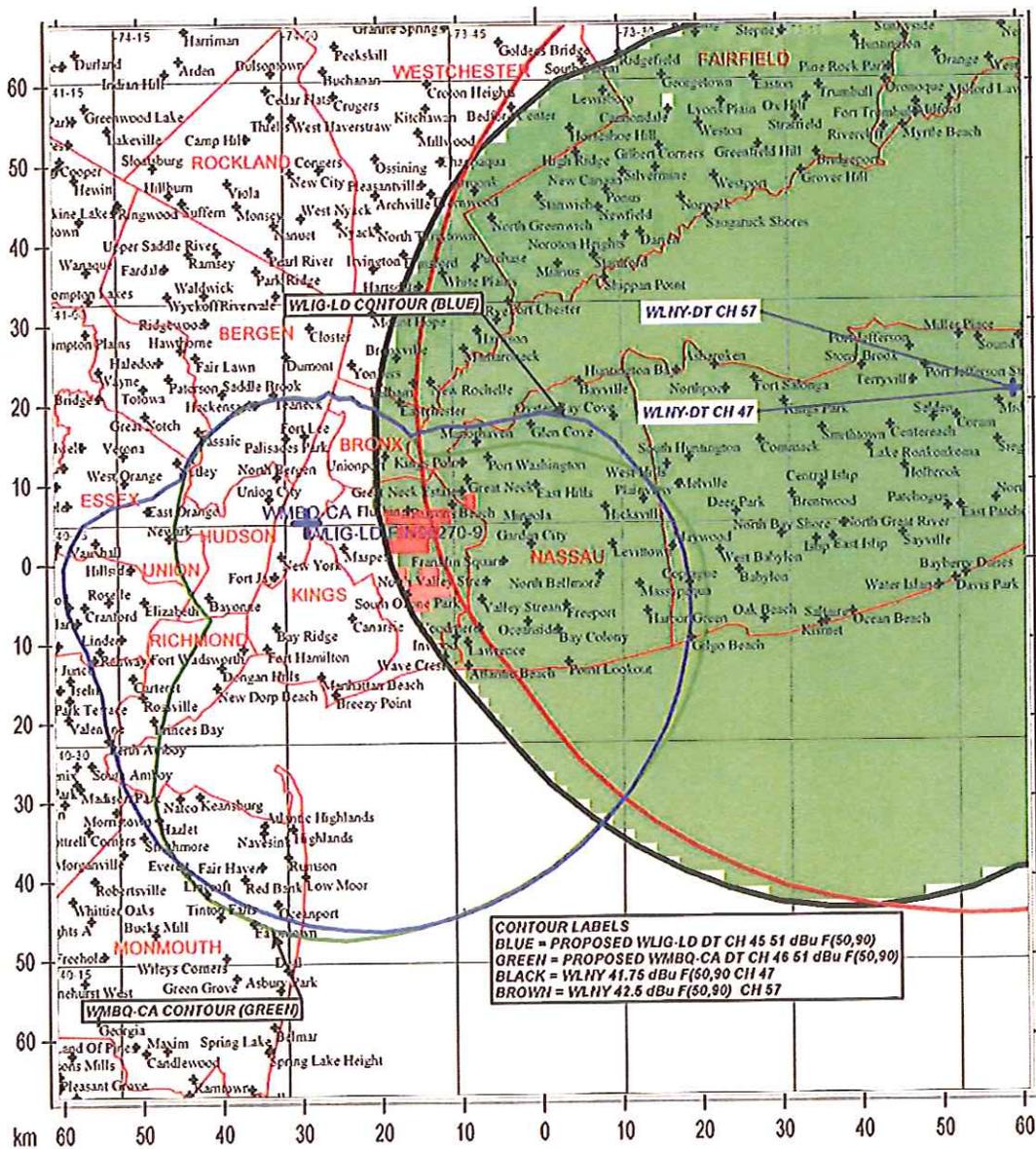
Communications Technologies, Inc. Marlton, New Jersey

County Borders    Lat/Lon Grid

Map Scale: 1:750000    1 cm = 7.50 km    V/H Size: 118.64 x 107.18 km

Figure 1

WLIG-CA DTV CH 46 15 kW ERP AND WLNY CH 47 & 57 DTV



Communications Technologies, Inc. Marlton, New Jersey

County Borders    Lat/Lon Grid

Map Scale: 1:850000    1 cm = 8.50 km    V/H Size: 134.46 x 121.47 km

Figure 2 with Longley Rice