



**EXHIBIT #1  
ENGINEERING STATEMENT**

Concerning the Application of  
Pan Caribbean Broadcasting de P.R., Inc.  
To Make a Minor Change  
To Commercial FM Station WVPI  
BLH20010231AAL

October 2002

CH 282B

44 kW H & V

This engineering statement supports the application of Pan Caribbean Broadcasting de P.R., Inc. to make a minor change to commercial FM station WVPI, Charlotte Amalie, VI. The applicant proposes to change the location of the transmitter, increase power and increase antenna height above mean sea level and average terrain. There are no further changes at this time.

A 60 dBu change area map is included as Page #3. A total of 36 evenly spaced radials were used to determine the antenna height above average terrain. The World 30 arc second database was employed to determine the elevations along the radials that were averaged using the required four-point interpolation method. The resulting averaged radial antenna heights were employed using the Commission's own TVFMINT algorithm to project the distances to signal contours. A tabular listing of the distance to the one mV/m contour of the modified facility can be found on page #4 of this exhibit.

**Exhibit #22** is a map of the proposed 1 mV/m (60 dBu) and 3.16 mV/m (70 dBu) signal contours. Charlotte Amalie, the city of licensee, is shown to be fully encompassed by the 70 dBu city-grade contour. The coverage map was computer generated using the U.S.G.S. World Map database. Three hundred and sixty evenly spaced radials were used to plot the each contour.

**Exhibit #23** is a request for waiver of Section 73.1125 regarding the main studio location. The applicant proposes to use Longley-Rice methodology to prove a 70 dBu contour over the main studio.

**Exhibit #24** is an Allocation Report. The first page is a computer channel study of all stations having a frequency and spacing relationship. The proposed facility meets all domestic minimum spacings requirements. There is a proposal for a new 3<sup>rd</sup> adjacent station in the British Virgin Islands. A map depicting this relationship is found on Page #2. Assuming a protected contour of 60 dBu for the foreign station, the corresponding 100 dBu interference contour<sup>1</sup> of WVPI does not extend beyond the US held territories.

**Exhibit #29** is an R.F. hazard compliance statement.

Page #4 of **Exhibit #1** is a statement of the qualifications of the preparer.

Doug Vernier

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<sup>1</sup> ITU interference contour for 2<sup>nd</sup> and 3<sup>rd</sup> adjacent stations.

# WVPI Proposed Change Area

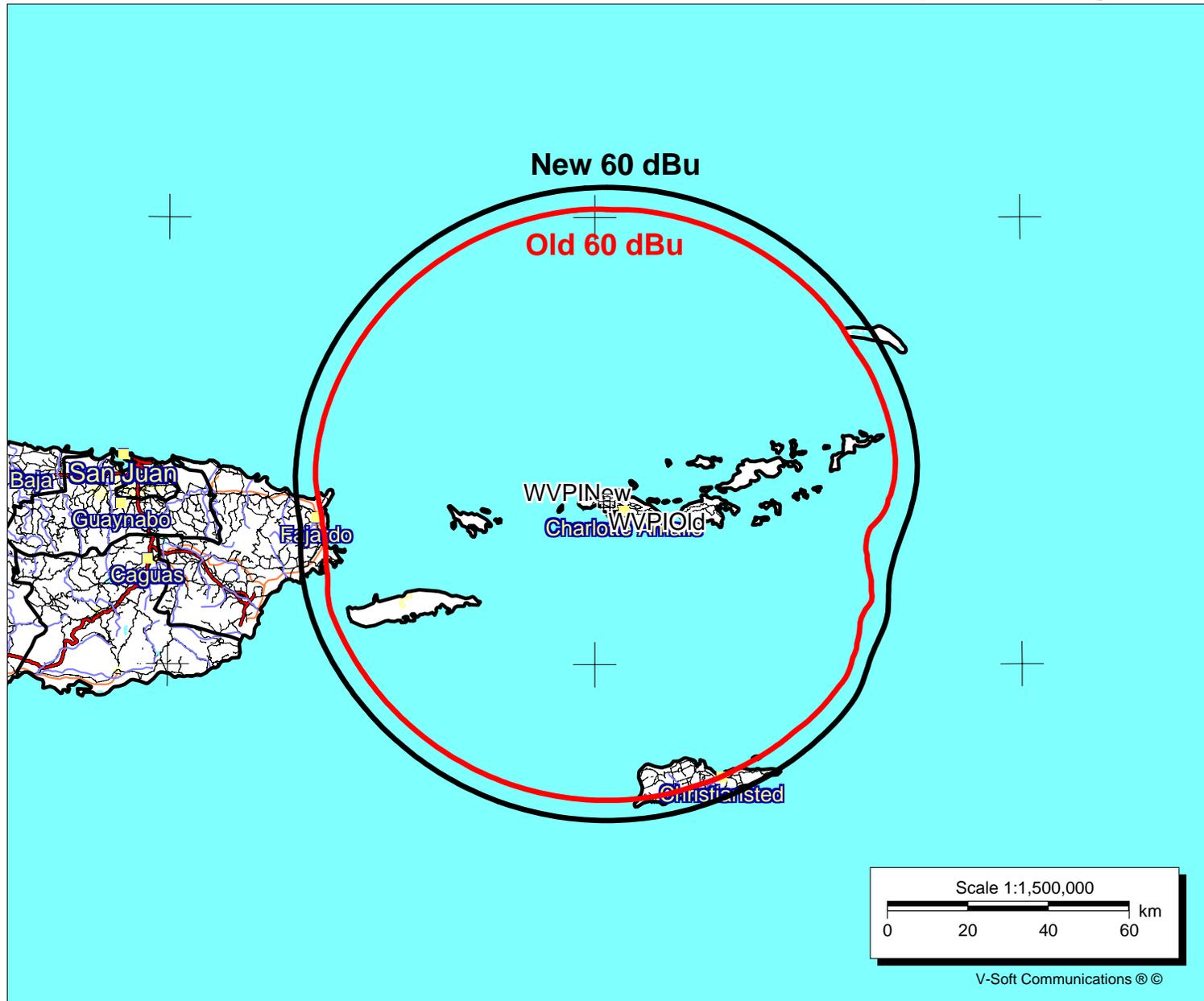
## WVPINew

Latitude: 18-21-35 N  
Longitude: 064-58-19 W  
ERP: 44.00 kW  
Channel: 282  
Frequency: 104.3 MHz  
AMSL Height: 501.1 m  
Elevation: 440.4 m  
HAAT: 492.8 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: FCC Contour

## WVPIOld

BLH20010831AAL  
Latitude: 18-21-31 N  
Longitude: 064-58-20 W  
ERP: 28.00 kW  
Channel: 282  
Frequency: 104.3 MHz  
AMSL Height: 499.0 m  
Elevation: 464.23 m  
HAAT: 471.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: FCC Contour

October 4, 2002



**Declaration:**

I, Doug Vernier, declare that I have received training as an engineer from the University of Michigan School of Engineering. That, I have received degrees from the University in the field of Broadcast Telecommunications. That, I have been active in broadcast consulting for over 25 years;

That, I have held a Federal Communications Commission First Class Radiotelephone License continually since 1964. In 1985, this license was reissued by the Commission as a lifetime General Radiotelephone license no. PG-16-16464;

That, I am certified as a Professional Broadcast Engineer (#50258) by the Society of Broadcast Engineers, Indianapolis, Indiana. (Re-certified 11/95.)

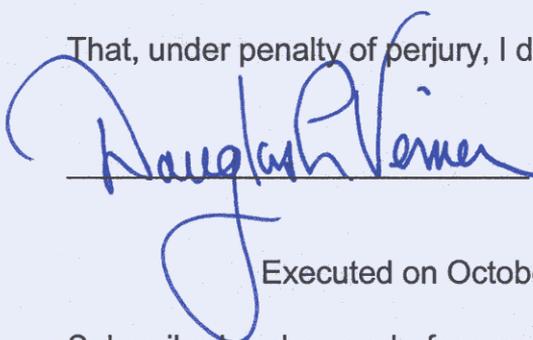
That, my qualifications are a matter of record with the Federal Communications Commission;

That, I have been retained by Pan Caribbean Broadcasting de P.R., Inc. and as such have prepared the engineering showings appended hereto;

That, a portion of the exhibits contain herein were prepared by my associate, Kate Michler, under my direct supervision;

That, I have prepared these engineering showings, the technical information contained in same and the facts stated within are true of my knowledge;

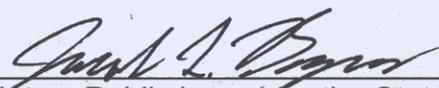
That, under penalty of perjury, I declare that the foregoing is correct.

  
\_\_\_\_\_  
Douglas L. Vernier

Executed on October 4, 2002

Subscribed and sworn before me this 4th day of October, 2002.



  
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Notary Public in and for the State of Iowa