

ENGINEERING STATEMENT IN SUPPORT OF AMENDMENT TO
WWRV APPLICATION FOR CONSTRUCTION PERMIT
1330 kHz 10 kW LS DA-2 U BP-20131104AQW
NEW YORK, NEW YORK
OCTOBER 2015

SUMMARY

This amendment has been prepared on behalf of Radio Vision Cristiana Management (“RVC”) licensee of standard broadcast station WWRV and applicant for improved facilities as specified in application file number BP-20131104AQW. RVC, like all AM broadcasters, has experienced continual loss of service associated with increased noise and interference in the AM band. The facilities specified in the pending application, especially for the nighttime signal, were designed to regain portions of the market that have been lost due to the increased noise floor. RVC has provided information in support of its 10 kW night proposal demonstrating that there would be no interference to other stations based on detailed analysis of international records. That waiver request was denied in a letter dated February 26, 2015 by the staff of the Media Bureau, Audio Division, AM Broadcast staff. Since that time RVC’s FCC legal counsel and engineer have been in contact with FCC staff regarding steps being taken leading to amending the nighttime portion of the pending application for grant. This amendment addresses argument raised in the Media Bureau’s February 26th letter, discusses other steps which have been taken and includes new information not previously available to the applicant’s experts which are believed to support grant of the pending application for construction permit.

RESPONSE TO THE FCC MEDIA BUREAU LETTER OF FEBRUARY 26, 2015

In the FCC’s letter noted above it is stated that the facts and circumstances set forth in the RVC application and waiver request are insufficient to establish that grant of the requested waiver of Section 73.182 would be in the public interest. RVC acknowledges that it believed that its filing was sufficiently strong to obtain a grant, sees the areas that the Bureau believes are deficient and addresses them herein:

1. RVC acknowledges that the FCC’s International Bureau does not wish to rely on stations which it has placed on list B. However, RVC notes that it provided then current

information showing that specific stations were not listed as objected to by the governing International body, the ITU, in its Master International Frequency Register (“MIFR”). It was believed very clear that the ITU database considers the YVTU and 4VJD facilities to conform to the Rio 1981 agreement.

As RVC understands the situation the FCC International Bureau is unable to consider information that contradicts its List B. This is explained in the February 26th letter as a long-standing Commission policy not to utilize List B records in RSS calculations because they are assignments that have been objected by some countries due to interference caused to some stations of those countries (Haiti station 4VJD has an outstanding objection from the U.S.), and List B stations are subject to amendments to eliminate the interference.

For the record, the situation described above would appear to be a lack of agreement between ITU documents and FCC list B which places greater weight on internal FCC decisions than international agreements. This process is believed to create confusion and to potentially close off opportunities to construct facilities which have clear public interest benefits in the U.S. when no clear case of interference can be shown. One example of this is 4VJD. It appears that because the U.S. has lodged an objection to the facility it will not consider the fact that it appears to be operating and causing interference to WENA. Today there is strong interest in Congress, among public interest media groups and FCC staff in finding ways to revitalize the AM Broadcast service. This would appear to be an area where reasonable minds can agree that waivers or contingent grants serve the public interest without causing harm.

2. The Bureau states that “Second, even though the WENA records were not properly notified to the ITU, their facilities are fully protected by the Commission's rules.” RVC cited a November 5, 1987 FCC staff memo which made the statement that it would not be in the public interest to restrict a U.S. licensee from improving the facility of a station

where there is a reasonable possibility that no actual harm would result. RVC will present new information which it believes neither it nor the FCC was aware of, or is believed to have considered, which demonstrates that WENA would be subject to interference from a 1330 kHz facility at Santo Domingo, Dominican Republic (HICN) found in FCC records as early as December 28, 1979, that the interference masks any possible interference from WWRV night facilities and that WENA continues to receive significant level of interference from that station today because the Santo Domingo station nighttime operation preceded WENA's nighttime operation. This situation appears to fit the criteria of a U.S. licensee improving a facility with no reasonable possibility that actual harm will result because WENA is already impacted by the Santo Domingo station.

3. Finally the letter states that the applicant has not addressed all other reasonable alternatives such as adjusting the directional pattern. RVC will do that here.

HICN-AM SANTO DOMINGO, DOMINICAN REPUBLIC

The FCC AM processing group is aware of the fact that RVC has been trying to work with WENA, see letter from Jerold L. Jacobs dated March 27, 2015. In an e-mail dated August 4, 2015 WENA's consulting engineer revealed to the affiant that WENA has been subject to what it perceives as increased night interference from domestic stations and also interference from a station in Santo Domingo, Dominican Republic. The interference from the Dominican Republic was described as a most serious source of interference to WENA and led to investigation of this facility since the FCC database lists no such station. The first revelation to RVC's professional staff was the realization that the Santo Domingo station is licensed to a division of RVC making access to detailed facility information and history readily accessible. However, in this amendment, we first look at the information available through government bodies.

The following information has been obtained concerning the 1330 kHz station at Santo Domingo, Dominican Republic from regulatory sources:

1. The station was licensed as HICN-AM, 1330 kHz, unlimited, non-directional, to Radio Vision Cristiana International on April 13, 1998 by the Director General de Telecomunicaciones Republica Dominicana. See ***Figure 1*** License attached.
2. The Dominican Institute of Telecommunications (“INDOTEL”) is the telecommunications regulatory organization in the Dominican Republic which grants licenses for use of the RF spectrum. It is noted that INDOTEL states that it is a member of the ITU. INDOTEL provides a list of licensed AM radio stations in the Dominican Republic which is found at this link:

[http://www.indotel.gob.do/uploads/Listados%20Medios%20Comunicacion/Listado_d_e_Emisoras_Amplitud_Modulada_\(AM\)_201306.pdf](http://www.indotel.gob.do/uploads/Listados%20Medios%20Comunicacion/Listado_d_e_Emisoras_Amplitud_Modulada_(AM)_201306.pdf)

A copy of the list is found in ***Figure 2*** attached. The list is in ascending order of frequency. Station 100 is the 1330 kHz facility at Santo Domingo.

3. ***Figure 3*** is a copy of a memo prepared by Larry W. Olson Chief of the AM Branch of the FCC dated 08/19/1980 describing a WENA application for 1330 kHz requesting an upgrade from 500 watts to 1000 watts daytime. The memo states that the WENA proposal violates the NARBA Agreement with respect to the Dominican Republic (“D.R.”) Notification for 1330 kHz at Santo Domingo notified on December 28, 1979. It is believed that this correspondence clearly documents the presence of a properly notified 1330 kHz facility at Santo Domingo predating WENA’s nighttime operation.
4. ***Figure 4*** is a copy of a letter prepared by Wilson A. LaFollette Chief of the FCC International Branch dated 09/24/1980 describing a later D.R. 10 kW day, 0.25 kW

night proposal for Santo Domingo, Dominican Republic which was found to violate the NARBA treaty and presumably an objection was made.

5. **FIGURE 5** is an FCC AM license Application Work Sheet for an WENA application BL-810306AK for 1 kW Day at Penuelas, Puerto Rico. Page 5 of the review addresses and states that the December 28, 1979 notice of a new station on 1330 kHz at Santo Domingo would cause and receive daytime overlap with the WENA facility being reviewed. It is stated that the conflict should be noted and that the grant may need a condition. This document is believed to demonstrate that the 1330 kHz notification for Santo Domingo continued to be considered to require protection under NARBA and be a facility which would cause interference to WENA. It is noted that WENA's first nighttime license, BL-850617AP, specifying 500 watt night operation, carries a condition which states that the facilities are subject to modification, suspension or termination if found by the Commission to be necessary to conform to the Final Acts of the ITU Administrative Conference on Medium Wave Broadcasting in Region 2, Rio de Janeiro, 1981 as well as other multilateral agreements.

Coordination with RVC International concerning HICN-AM, and reference to Google Earth Professional satellite data, has allowed the transmission facility to be fully characterized as follows:

Latitude: N 18-32-01.46

Longitude: W 69-49-16.58

WGS84

Ground elevation 64' (19.5 meters)

Buried radial ground system

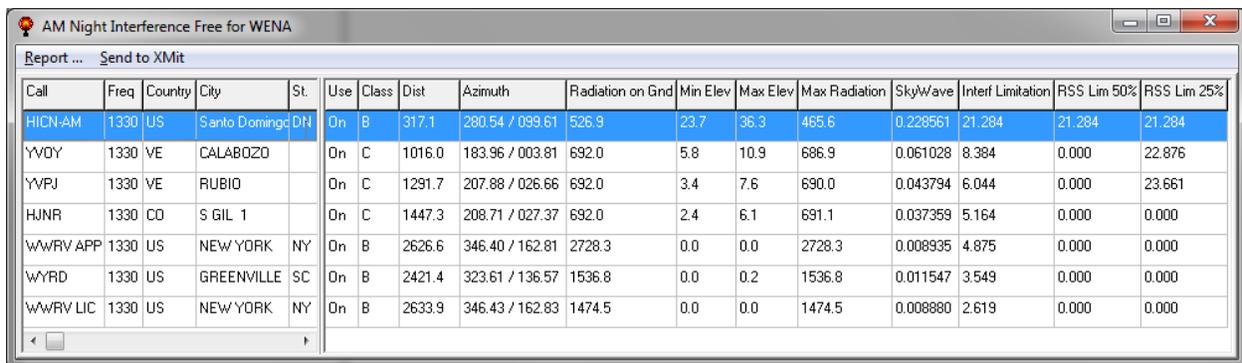
Radiator: 180' above base insulator (54.9 meters)

87.6 electrical degrees at 1330 kHz

304.2 mV/m @1 km for 1 kW

Transmitter: 3 kilowatts unlimited

Entering this facility into the FCC list of approved stations for a WENA night study and considering the RSS night limit for WENA shows that HICN-AM is the strongest interfering signal and raises the WENA 50% NIF to 21.284 mV/m as seen below. It is noted that neither the proposed or licensed WWRV are found to contribute to the WENA RSS night limit.



Call	Freq	Country	City	St.	Use	Class	Dist	Azimuth	Radiation on Gnd	Min Elev	Max Elev	Max Radiation	SkyWave	Interf Limitation	RSS Lim 50%	RSS Lim 25%
HICN-AM	1330	US	Santo Domingo	DH	On	B	317.1	280.54 / 099.61	526.9	23.7	36.3	465.6	0.228561	21.284	21.284	21.284
YVDY	1330	VE	CALABOZO		On	C	1016.0	183.96 / 003.81	692.0	5.8	10.9	686.9	0.061028	8.384	0.000	22.876
YVPJ	1330	VE	RUBIO		On	C	1291.7	207.88 / 026.66	692.0	3.4	7.6	690.0	0.043794	6.044	0.000	23.661
HJNR	1330	CO	S GIL 1		On	C	1447.3	208.71 / 027.37	692.0	2.4	6.1	691.1	0.037359	5.164	0.000	0.000
WWRV APP	1330	US	NEW YORK	NY	On	B	2626.6	346.40 / 162.81	2728.3	0.0	0.0	2728.3	0.008935	4.875	0.000	0.000
WYRD	1330	US	GREENVILLE	SC	On	B	2421.4	323.61 / 136.57	1536.8	0.0	0.2	1536.8	0.011547	3.549	0.000	0.000
WWRV LIC	1330	US	NEW YORK	NY	On	B	2633.9	346.43 / 162.83	1474.5	0.0	0.0	1474.5	0.008880	2.619	0.000	0.000

Appendix 1 includes photos of the HICN-AM tower, tuning unit, ground system and transmitter should there be any doubt as to this facility’s existence.

WWRV(AM) REASONABLE ALTERNATIVES

The proposed WWRV nighttime facility has no reasonable alternatives to the 10 kW facility currently on file with the FCC. The four tower antenna system forces the major lobe of radiation, as well as community of license requirements and protection requirements to other stations, to be directed at an azimuth bearing of 147 degrees True due to simple pattern physics. The WENA facility is found at a bearing of 162.8 degrees True. Because the WENA transmitter site is only 15.8 degrees off the maximum field strength in the major lobe of 2,906 mV/m the radiated field directed at WENA site is 2,724 mV/m which is 6.3% below the major lobe. This is believed to demonstrate that changes in the pattern cannot be made due to the physical locations of these two stations to each other.

The only way that WWRV can meet the stated FCC staff requirement that the proposed night facility not enter the WENA 25% RSS is for the power level to be reduced from 10 kilowatts to 3.8 kilowatts which is lower than the licensed night transmitter power. The RSS Night limit calculation for WENA with the WWRV proposed night power reduced to 3.8 kilowatts is below:

Call	Freq	Country	City	Use	Class	Dist	Azimuth	Radiation on Grnd	Min Elev	Max Elev	Max Radiation	SkyWave	Interf Limitation	RSS Lim 50%	RSS Lim 25%
YVDY	1330	VE	CALABOZO	On	C	1016.0	183.96 / 003.81	692.0	5.8	10.9	686.9	0.061028	8.384	8.384	8.384
YVPJ	1330	VE	RUBIO	On	C	1291.7	207.88 / 026.66	692.0	3.4	7.6	690.0	0.043794	6.044	10.335	10.335
HJNR	1330	CO	S GIL 1	On	C	1447.3	208.71 / 027.37	692.0	2.4	6.1	691.1	0.037359	5.164	0.000	11.553
WYRD	1330	US	GREENVILLE	On	B	2421.4	323.61 / 136.57	1536.8	0.0	0.2	1536.8	0.011547	3.549	0.000	12.086
WWRV Red	1330	US	NEW YORK	On	B	2626.6	346.40 / 162.81	1680.9	0.0	0.0	1680.9	0.008935	3.004	0.000	0.000
WWRV LIC	1330	US	NEW YORK	On	B	2633.9	346.43 / 162.83	1474.5	0.0	0.0	1474.5	0.008880	2.619	0.000	0.000

At a reduced transmitter power level of 3.8 kilowatts population and area in the nighttime 3.5 mV/m NIF contour over New York City is compared to the licensed facility as follows:

	5.0 kW License		3.8 kW	
	Population	Area Sq. km	Population	Area Sq. km
Bronx	1,184,239	102.9	1,051,382	86.8
Manhattan	1,578,590	86.0	1,571,323	83.5
Kings	2,496,008	228.1	2,442,411	208.3
Queens	2,225,354	327.2	2,115,461	282.8
Richmond	242,831	64.9	142,518	38.1
Total	7,727,022	809.1	7,323,095	699.5

Modifying the proposed WWRV night facility to be outside the WENA 25% RSS night limit results in a reduction in population to 94.77% of the licensed value and a reduction in area to 86.45% of the licensed area. A loss of 403,927 persons in an area of 109.6 square kilometers is believed not to be in the public interest when there is no loss in service to WENA associated with the current WWRV nighttime application. This is true because the WENA 50% RSS is the protected nighttime signal level and there is no interference to that contour value from the presently proposed WWRV nighttime facility. Protection to a station's 25% RSS Night limit

came about in Docket 87-267 and like the ratchet clause and other aspects of that rule-making have resulted in a set of rules which are harmful rather than helpful to the AM Service. This is believed to be particularly on point in regard to a potential waiver request when it is considered that the 25% RSS protection is a calculation unique to the United States and not recognized in the 1981 Rio Final Acts. The result of this unique protection requirement is that signatories to the Rio Agreement may radiate greater signal toward WENA than an American station.

CONCLUSION

RVC believes that it has demonstrated the following in this amendment:

1. Based on FCC records a 1330 kHz NARBA recognized facility has existed since December 28, 1979 for the community of Santo Domingo, Dominican Republic and this predates any WENA nighttime authorization.
2. The Santo Domingo facility was licensed by its federal government in April of 1998 to the current licensee and is also shown in the most recently available INDOTEL records as still licensed. The current licensee believes that the facility was existing many years prior to the time that the license was purchased in 1998.
3. The Santo Domingo fulltime NARBA notification predates any WENA night operation and made the FCC aware that any WENA night operation would receive interference from the 1330 kHz facility in Santo Domingo.
6. Based on the calculations herein the Santo Domingo 1330 kHz nighttime operation causes significant interference to the licensed WENA nighttime operation. Even at a night power level of 0.5 kW the Santo Domingo 1330 station would be in the WENA 50% RSS night limit computation as the strongest interfering station.

7. RVC is presenting incontrovertible evidence that the Santo Domingo 1330 kHz night facility is a significant broadcast facility having been in existence for many years. With that fact established it is believed that this is distinguishable from the List B case described in the FCC's letter as there can be no doubt as to the facility's existence, it is not on List A or B, so to deny the existence of a facility which WENA itself describes as causing ongoing interference would be highly unfair to WWRV as it limits WWRV to an artificially low power level through the process of creating a paper fiction that the interference does not exist.

When these factors are taken in their totality it is believed that it can be seen that the presently proposed WWRV facility cannot possibly cause real world interference, or even calculated interference to the nighttime operation of WENA. When real world conditions are considered WWRV complies with Rule Section 73.182 as explained herein. Should the staff find that a waiver of 73.182 is required RVC believes that the information submitted herein supports the grant of a waiver based on the public interest, lack of suitable alternatives and clear demonstration that the proposed WWRV nighttime operation will not harm WENA.

The foregoing was prepared on behalf of Radio Vision Cristiana Management by Clarence M. Beverage of Communications Technologies, Inc., Marlton, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. 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.



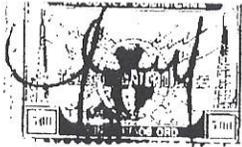
Clarence M. Beverage
for Communications Technologies, Inc.
Marlton, New Jersey
October 12, 2015

FIGURE 1



SELLOS DE TEL: RD\$5.00 y 0.2!

[Handwritten signature]



REPUBLICA DOMINICANA
SECRETARIA DE ESTADO DE OBRAS PUBLICAS Y COMUNICACIONE
Dirección General de Telecomunicaciones

Impuesto Anual	
RD\$	250.00
Art. 6	Ley 118

LICENCIA DE OPERACION

Clasificación	AM
Servicio	RADIODIFUSION
	COMERCIAL

Considerando que RADIO VISION CRISTIANA INTERNACIONAL residente y domiciliado en C/2 #132 SAVICA MENDOZA, STO, DGO. Cédula de Identificación Personal no. _____ Serie _____ ha cumplido con todos los requisitos exigidos por la Ley No. 118 de Telecomunicaciones y Convenios Internacionales, se ha resuelto otorgarle la Licencia No. 39 La cual está registrada en libro No. 3 Folio 106 para que pueda operar un transmisor marca GATES modelo BC: 1 Serie _____ para ser utilizado en el servicio RADIODIFUSION CO cobertura _____ con ubicación en SANTO DOMINGO, D.N. con las siguientes características

Indicativos HICN-AM Frecuencia 1330 KHZ Potencia 3 KW. Tipo de Emisor F-3

Turbos Finales R. F. 3CX2500f3 Potencial D. C. aplicado en placa 3000 V.

Potencia de entrada al sistema radiante 1000 Watts. Desviación máxima de frecuencia 1 KHZ

Tipo de antena OMNIDIRECCIONAL No podrá hacerse alteración al equipo, sin la previa autorización de esta Dirección General.

SANTO DOMINGO, D. N. 13 de ABRIL de 199 98

[Signature]
ING. RUBEN MONTAS
Director General de Telecomunicaciones

**FIGURE 2 (3
PAGES)**

LISTADO DE EMISORAS EN AMPLITUD MODULADA (AM)

No.	Licenciatarios	Nombre Comercial	Frecuencia (KHz)	Punto Transmisión
1	Difusora Dominicana, C. por A.	Radio ABC	540	Santo Domingo
2	Digital FM, C. por A.	Radio Ritmos	560	Santiago
3	Microondas Nacionales, S.A.	Radio Cristal 570	570	Santo Domingo
4	Microondas Nacionales, S.A.	Radio Montecristi	580	Montecristi
5	Diócesis de La Vega	Radio Santa María	590	La Vega
6	Corporación Estatal de Radio y Televisión (CERTV)	Corporación Estatal de Radio y Televisión (CERTV)	600	La Romana
7	Radio Amanecer Internacional	Radio Acción	610	Santiago
8	Corporación Estatal de Radio y Televisión (CERTV)	Corporación Estatal de Radio y Televisión (CERTV)	610	Pedernales
9	Corporación Estatal de Radio y Televisión (CERTV)	Corporación Estatal de Radio y Televisión (CERTV)	620	Santo Domingo
10	Corporación Estatal de Radio y Televisión (CERTV)	Corporación Estatal de Radio y Televisión (CERTV)	630	San Juan de la Maguana
11	Corporación Estatal de Radio y Televisión (CERTV)	Corporación Estatal de Radio y Televisión (CERTV)	640	Santiago
12	Radio Universal, S.R.L.	Radio Universal, C. por A.	650	Santo Domingo
13	Radio Visión Cristiana Internacional	Radio Visión Cristiana Internacional	660	Santiago
14	Radio 23, C. por A.	Radio Dial	670	San Pedro de Macorís
15	Corporación Estatal de Radio y Televisión (CERTV)	Corporación Estatal de Radio y Televisión (CERTV)	670	Barahona
16	Corporación Estatal de Radio y Televisión (CERTV)	Corporación Estatal de Radio y Televisión (CERTV)	670	Montecristi
17	Corporación Estatal de Radio y Televisión (CERTV)	Corporación Estatal de Radio y Televisión (CERTV)	680	Sosua
18	Thomas Comunicaciones, S.A.	Radio Zamba	680	Santiago Rodríguez
19	Radio Guarachita C. por A.	La Guarachita	690	Santo Domingo
20	Radio Mao 700 AM	Radio Mao	700	Mao Valverde
21	Megamedios, S.R.L.	Ondas del Caribe	710	Santo Domingo
22	Microondas Nacionales, S.A.	Radio Norte AM	720	Santiago
23	Teleradio America, S.A.	HIZ	730	Santo Domingo
24	Radio Libertad, C. por A.	Radio Libertad	750	Santiago
25	Radio Cordillera	Radio Cordillera	760	Santo Domingo
26	Procomunicaciones, S.A.	Radio Aguila	770	Santiago
27	Radio Constanza, C. por A.	Radio Constanza	780	Constanza
28	Radio Cayacoa	Radio Cayacoa	780	Higüey
29	San Cristóbal Televisión y Radio, S.A.	La Voz del Trópico (Radio Millón)	790	Santo Domingo
30	Radio Bonao, C. por A.	Radio Bonao	800	Bonao
31	Radio Novel, S.R.L.	Radio Novel	810	Santiago
32	Ministerio Radio Salvación, INC	Ministerio Radio Salvación	810	Baní
33	Radio Santiago, C. por A.	Radio Santiago	820	Santiago
34	Teleantillas, C. por A.	HJB AM	830	Santo Domingo
35	Radio Isabel de Torres, S.A.	Radio Isabel de Torres	840	Puerto Plata
36	Consorcio Dos Mil, C. por A.	Radio Clarín (Repetidor)	850	Santiago
37	Procomunicaciones, S.A.	Radio Guarocuya	850	Barahona
38	Consorcio Dos Mil, C. por A.	Radio Clarín	860	Santo Domingo
39	Microondas Nacionales, S.A.	Radio La Vega	870	La Vega
40	AM 88 & Asociados, S.A.	Radio Santa Cruz	880	Mao Valverde
41	Difusora Continental, S.A.	Radio Continental	890	Santo Domingo
42	Radio Amanecer, Inc.	Radio Amanecer	900	Neyba
43	Radio Puerto Plata, C. por A.	Radio Puerto Plata	900	Puerto Plata
44	Radio 91, S.A.	Radio 91	910	Bonao
45	Inversiones Madeira, S.A.	Radio 920 AM	920	Santo Domingo
46	Radio Cadena Comercial, S.A.	Ondas del Yaque	930	Santiago
47	Microondas Nacionales, S.A.	Radio Montecristi	940	Montecristi
48	Radio Cadena Comercial, S.A.	Radio Comercial	930	Santiago
49	Procomunicaciones, S.A.	Radio Popular	950	Santo Domingo y Azua
50	Grupo Badui, S.R.L.	La Voz Del Atlántico	960	Puerto Plata
51	Microondas Nacionales, S.A.	Radio Olímpica Internacional	970	La Vega
52	Radioemisoras Unidas, S.R.L.	Radio Barahona	970	Barahona
53	Radioemisora La Voz Cultural de las Fuerzas Armadas	Radioemisora La Voz Cultural de las Fuerzas Armadas	980	Santo Domingo
54	Radiodifusora Master, S.A.	Radio Cibao	990	Santiago
55	Radio Beller	Radio Beller	1010	Dajabón
56	Radio Cadena Comercial, S.A.	Radio Comercial	1010	Hnas. Mirabal, San Juan, Santo Domingo
57	Radio Cadena Comercial, S.A.	Radio Comercial	1020	Santo Domingo
58	Radio Enriquillo	Radio Enriquillo	1020	Neyba
59	Megamedios, S.R.L.	Radio Novedades	1030	La Vega
60	Cadena de Noticias Radio, S.A. (CDN-R)	Radio Central (La Mezcla)	1040	Santo Domingo
61	Microondas Nacionales, S.A.	La Voz de la Hispaniola	1050	Santiago
62	Unión Dominicana de los Adventistas del Séptimo Día	Radio Mar	1060	San Pedro de Macorís
63	Radiodifusoras Azuanas, C. por A.	Radio Azua	1060	Azua
64	Hibi Radio AM y FM, S.R.L.	Hibi Radio	1070	San Francisco de Macoris
65	RPQ Cadena Azul, C. por A.	Radio Ambar	1080	Santo Domingo
66	Radio Amistad, S.R.L.	Radio Amistad	1090	Santiago
67	Comunicaciones del Este, S.A. (COMESTE)	Radio Oriente	1100	San Pedro de Macorís
68	Radio Ocoa, C. por A.	Radio Ocoa	1100	San José de Ocoa
69	Radioemisoras Unidas, S.R.L.	Radio Jimaní	1100	Jimaní
70	Compañía Nacional de Televisión, C. por A.	Radio Nagua	1100	Nagua

LISTADO DE EMISORAS EN AMPLITUD MODULADA (AM)

No.	Licenciatarios	Nombre Comercial	Frecuencia (KHz)	Punto Transmisión
71	Microondas Nacionales, S.A.	Radio Voz	1110	Jarabacoa
72	Radio Marien	Radio Marien	1110	Dajabón
73	Microondas Nacionales, S.A.	Radio Metro (Politiro)	1120	Santo Domingo
74	Radio Cima, S.R.L.	Radio Cima	1120	Barahona
75	Cadena de Noticias Radio, S.A. (CDN-R)	Radio Exitos	1130	Santiago
76	Maguana Comercial, S.R.L.	Radio Anacaona	1140	San Juan de la Maguana
77	Onda Musical HIAS AM	Onda Musical	1150	Santo Domingo
78	Frecuencias y Medios, S.A.	Radio Landia	1160	Santiago
79	Radio Cadena Espacial, S.A.	Cadena Espacial	1160	OJO
80	Radio Cadena Espacial, S.A.	Cadena Espacial	1170	Azua
81	Frecuencias y Medios, S.A.	Radio Mil	1180	Santo Domingo
82	Inversiones Madeira, S.A.	Radio Azul	1190	Santiago
83	Radioemisoras Unidas, S.R.L.	Radio Caracol	1200	Azua
84	Asociación Misionera Radial La Batalla	Radio Ven	1200	Santo Domingo
85	Circuito Merengue, S.R.L.	Radio Merengue	1210	San Francisco de Macoris
86	Sociedad Comercial 440, C. por A.	Radio Bemba	1220	Santo Domingo
87	Radio Cima, S.R.L.	Onda Santiaguera	1230	Santiago
88	Radio Maria, Inc.	Radio Maria, Inc.	1240	Santo Domingo
89	La Voz de la Libertad	Radio Vida	1240	Puerto Plata
90	La Voz del Progreso	La Voz del Progreso	1250	San Francisco de Macoris
91	Espectáculos y Difusión, S.A.	Radio Juventud	1250	La Romana
92	Radio Cadena Comercial, S.A.	Radio Visión	1260	Santo Domingo
93	Microondas Nacionales, S.A.	Radio Hit Musical	1270	Santiago
94	Radio Ambiente, C. por A.	Radio Ambiente	1270	Baní
95	Radio Cadena Espacial, S.A.	Cadena Espacial	1280	Santo Domingo
96	Radio Jánico	Radio Jánico	1290	Janico
97	Teleradio América, S.A.	Teleradio América	1300	Santo Domingo
98	Transmisiones Real, S.R.L.	Radio Real	1310	La Vega
99	Carrasa & Cía, C. por A.	Radio Centro	1320	San Juan de la Maguana
100	Radio Visión Cristiana Internacional	Radio Visión Cristiana Internacional	1330	Santo Domingo
101	Radioemisora La Voz Cultural de las Fuerzas Armadas	Radioemisora La Voz Cultural de las Fuerzas Armadas	1340	Santo Domingo
102	Radio Ondas del Yuna	Radio Ondas del Yuna	1350	Bonao
103	Radio Cadena Comercial, S.A.	Radio Rutas	1350	La Romana
104	Radio Listín, C. por A.	Radio Listín	1360	Santo Domingo
105	Radioemisora La Voz Cultural de las Fuerzas Armadas	Radioemisora La Voz Cultural de las Fuerzas Armadas	1370	Santo Domingo
106	Asociación Servicios Culturales Dominicanos	Radio Seybo	1370	El Seybo
107	Radioemisora La Voz Cultural de las Fuerzas Armadas	Radioemisora La Voz Cultural de las Fuerzas Armadas	1370	Elias Piña
108	Sociedad Difusora del Cibao, C. por A.	Radio Nacional	1380	Santiago
109	Tele Inde Radio, S.A.	Radio San Cristobal	1390	San Cristobal
110	San Cristobal Televisión y Radio, S.A.	Ondas del Valle	1400	San Francisco de Macoris / La Vega
111	Radio Tricolor, C. por A.	Radio Tricolor	1410	Santo Domingo
112	Radioemisoras Unidas, S.R.L.	Radio 14-10	1410	Barahona
113	Radio Gri Gri, S.A.	Radio Gri Gri	1410	Rio San Juan
114	Iglesia Bíblica del Señor Jesucristo, Inc.	Radio Eternidad	1410	Santo Domingo
115	Radio Oro, C. por A.	Radio Oro	1420	Santo Domingo
116	Radio Emanuel	Radio Emanuel	1430	Santiago
117	Compañía Difusora de la Cristianización, C. por A.	La Voz Cristocentrica (Radio Impactante)	1440	Santo Domingo
118	Radio San Juan	Radio San Juan	1440	San Juan de la Maguana
119	Radio Alfa y Omega	Radio Alfa y Omega	1450	Santo Domingo
120	Radiofónica Magua Misión	Radio Renacimiento	1460	Hato Mayor
121	Super 56	La Voz de la Alabanza	1470	San Francisco de Macoris
122	Radioemisoras Unidas, S.R.L.	Vibra Radio Deportiva	1470	Barahona
123	Radioemisoras Unidas, S.R.L.	Radio 14-70 / Radio Barahona	1470	Duvergé
124	Radio Villa, S.A.	Radio Villa	1480	Santo Domingo
125	La Voz del Cibao, C. por A.	Radio Ronda	1490	Moca
126	Radio Cima, S.R.L.	Radio Higüey	1500	Higüey
127	Inversiones Madeira, S.A.	Radio Juan Pablo Duarte	1500	Elias Piña
128	DB Electronica, S.A.	Radio Pueblo	1510	Santo Domingo
129	Teledifusora Nacional, S.A.	Radio Samaná	1510	Samaná
130	Teledifusora Nacional, S.A.	Radio Samaná	1520	Samaná
131	Corporación de Radio y Televisión	Radio 1530	1530	Santiago
132	Radio Cadena Comercial, S.A.	RCC	1540	Santo Domingo
133	La Grande 106.7 FM, S.A.	La Voz de la Romana	1540	La Romana
134	Radio Cima, S.R.L.	Radio Moca	1550	Moca
135	Radio Cadena Espacial, S.A.	Cadena Espacial	1560	Santiago
136	Radio Libertad, C. por A.	Radio Libertad	1560	Santiago
137	Radioemisoras Unidas, S.R.L.	Radio Pedernales	1560	Pedernales
138	Radio Amanecer, Inc.	Radio Amanecer	1570	Santo Domingo
139	Radioemisoras Unidas, S.R.L.	Radio Neyba	1580	Santo Domingo
140	Comunicaciones y Medios Nacionales, S.A.	Radio Mundo	1590	Santiago

LISTADO DE EMISORAS EN AMPLITUD MODULADA (AM)

No.	Licenciatarios	Nombre Comercial	Frecuencia (KHz)	Punto Transmisión
141	Radio Revelación en América	Radio Revelación en América	1600	Santiago
142	Circuito Telesonido, S.A.	Circuito Telesonido	1620	San Francisco de Macorís
143	Sociedad Salesiana de la Iglesia Católica / Don Bosco	Don Bosco	1640	Santo Domingo
144	RADECO	RADECO	1650	Santiago / Cibao Central
145	Fundación Lama, Inc.	Fundación Lama	1660	Santo Domingo
146	Ministerio Religioso Senda de Vida, Inc.	Senda de Vida	1680	San Pedro de Macorís

Última Actualización: 10 de Junio de 2013

Compilado por: José Rafael Matías, Encargado de Recaudaciones

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FIGURE 3

Chief, Technical and International Branch
Policy and Rules Division, Broadcast Bureau

Chief, AM Branch, Broadcast Facilities Division,
Broadcast Bureau

The following application for AM broadcast construction permit:

BP-790514AA WENA, Penuelas, Puerto Rico
Has: 1330 kHz, 500 W, D
Req: 1330 kHz, 1 kW, D

The above application violates the NARBA with respect to the Dominican Republic notification on 1330 kHz, Santo Domingo. The Dominican Republic notified its proposed 1330 kHz operation on December 28, 1979. That assignment involves contour overlap with the WENA proposal. Prior to the December 28, 1979 notification, this proposal provided protection to HISA, Santiago, Dominican Republic which was originally notified on 1330 kHz.

Accordingly, the application of WENA is now being referred to the Technical and International Branch for appropriate consideration.

Larry W. Olson

Attachment

ELubetzky:ndm:bf/B

Typed: 8/19/80

11/1000

memorandum

DATE: September 24, 1980

REPLY TO
ATTN OF: Chief, Technical and International Branch, Policy and Rules Division
Broadcast BureauSUBJECT: The Following Notification of a New Station Located In
Santo Domingo, Dominican Republic:TO: Larry Olson, Chief, AM Branch
Broadcast Facilities Division
Broadcast BureauBROADCAST FACILITIES
DIVISION

SEP 26 1980

New, Santo Domingo, Dominican Republic
1330 kHz, 10 kW-D/0.25 kW-N, ND, U

AM BRANCH

This is a regional channel.

The subject proposed station is a new notification.

Without the benefit of specific information concerning the antenna system employed, it was assumed that the electrical characteristics were identical to that of a standard 0.311 antenna, and the antenna transmitter site was located at the center of the city of Santo Domingo, Dominican Republic. The corresponding value of radiation on the ground was set at 175 mV/m per one kilowatt. Our studies based upon the afore-mentioned assumptions and conductivity value depicted on the Map submitted by the Dominicans for use at the Region 2 Conference indicate that this proposal would cause co-channel objectionable daytime interference to the present operation of WENA, Penuelas, Puerto Rico, 1330 kHz, 500 W. D. An exhibit prepared by the engineering staff shows that the interference is rather extensive in that the proposed daytime 0.025 mV/m interfering groundwave contour would completely overlap the service area of WENA.

Overlap of this magnitude would result in a severe loss of service area as well as a large amount of population. It should also be noted that the proposed WENA power increase would receive prohibited interference from this notified facility.

In addition, the notified operation would cause first adjacent channel overlap to the present operation of WUNA, Aguadilla, Puerto Rico, 1340 kHz, 250 W, U.

Overlap of the nature described in the above paragraphs is a clear violation of the terms of the North American Regional Broadcast Agreement (NARBA). Therefore, an objection to this assignment will be made.



Wilson A. La Follette, Chief



Chief, Technical and International Branch
Policy and Rules Division, Broadcast Bureau

Chief, AM Branch, Broadcast Facilities Division,
Broadcast Bureau

The following application for AM broadcast construction permit:

BP-790514AA WENA, Penuelas, Puerto Rico
Has: 1330 kHz, 500 W, D
Req: 1330 kHz, 1 kW, D

The above application violates the NARBA with respect to the Dominican Republic notification on 1330 kHz, Santo Domingo. The Dominican Republic notified its proposed 1330 kHz operation on Decemberr28, 1979. That assignment involves contour overlap with the WENA proposal. Prior to the December 28, 1979 notification, this proposal provided protection to HISA, Santiago, Dominican Republic which was originally notified on 1330 kHz.

Accordingly, the application of WENA is now being referred to the Technical and International Branch for appropriate consideration.

Larry W. Olson

Attachment

ELubetzky:ndm:bf/B
Typed: 8/19/80

CALL: WENA

FIGURE 5 (5 PAGES)

FILE NO. BL-810306AK
LOCATION Poncha, P.R.
ASSIGNMENT 1330 kHz, 1KW, D.

APR 7 1981

C. P. FILE NO. BP-790514AA EXP. 7-82 APPLICATION IS FOR DM NEW LIC. PTA

CHECK LICENSE APPLICATION AGAINST C..P. FOR:

FREQUENCY, POWER, HOURS OF OPERATION	<input checked="" type="checkbox"/>	ANTENNA SYSTEM DESCRIPTION	<input checked="" type="checkbox"/>
MAIN STUDIO LOCATION	<input checked="" type="checkbox"/>	GROUND SYSTEM DESCRIPTION	<input checked="" type="checkbox"/>
REMOTE CONTROL LOCATION	<input checked="" type="checkbox"/>	GEOGRAPHIC COORDINATES	<input checked="" type="checkbox"/>

TRANSMITTER TYPE ACCEPTED	<input checked="" type="checkbox"/>	CARRIER FREQUENCY MEASUREMENT	<input checked="" type="checkbox"/>
RECOMMENDED OPERATING EFFICIENCY	<u>72%</u>	INSTALLATION COMPLIES WITH C. P.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
AS OPERATED	<input type="checkbox"/>	P/T AUTHORITY UNLIMITED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PLOT AND TABULATION OF RESISTANCE/REACTANCE DATA	<input checked="" type="checkbox"/>	LIMITED TO EXPIRE	_____
POINT AT WHICH RESISTANCE WAS MEASURED	<input checked="" type="checkbox"/>	LICENSE DEFERRED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
		COPY OF TWX TO R & T	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

PSA STATUS: NONE CHANGED NO CHANGE

~~MAIN (AUXILIARY)~~

~~TRANSMITTER:~~

ANTENNA INPUT POWER: DAY 1 kW WATTS; NIGHT _____ WATTS

DAY (DA COMMON POINT) (ND ANTENNA): CURRENT 5.6 AMPERES; RESISTANCE 32 OHMS

~~NIGHT (DA COMMON POINT) (ND ANTENNA): CURRENT _____ AMPERES; RESISTANCE _____ OHMS~~

~~DA SPECIFICATIONS: (ATTACHED) (SAME AS MAIN)~~

ANTENNA AND GROUND SYSTEM: same as BP-790514 AA dated 1-7-81

CALL WENA FILE DATE 3-6-81 P/T DM AUTHORIZED 3-20-81
ENGR. [Signature]

FILE NO.
BP-790514AA

APPLICANT & LOCATION
Penuelas Broadcasters
Penuelas, Puerto Rico

CALL
WENA

*WNA
As applied*

Transmitter site described as: State Road #132, BO, Tallaboa Alta, Penuelas, Puerto Rico.

Remote Control point Location: Calle Munoz Rivera #604, Penuelas, Puerto Rico

Nondirectional Antenna System:

Coordinates: 18° 03' 05" North; 66° 42' 14" West

Antenna and ground system: Vertical, guyed, series excited, 155 ft steel radiator of uniform cross-section, 160 feet in overall height. Theoretical efficiency is 184 mV/m/kW.

Obstruction marking and lighting specifications: Antenna obstruction markings not required.

Ground System:

Ground system consists of 120 equally spaced, buried copper radials, 180 feet in length plus 120 short radials 50 feet in length interspersed between the longer radials.

Operating Assignment:

Frequency: 1330 kHz

Day: 1 kW

Hours of Operation: Daytime

Condition attached

Permittee shall install a type accepted transmitter or perform measurements made in accordance with Section 73.48 of the Rules for type acceptance of the proposed transmitter and include such data in the station file.

OK for routine
106 grant

Item No. _____
Aural Agenda
Commission Action

Temporary License

Assigned cut-off date: _____
Effective cut-off date: _____
(Typist: do not type the above)

OK to process -
"A" application
LWR/8-20-80

STANDARD BROADCAST

Applicant: Nettail Rodriguez & Rafael Serra For Commission Use

Station Location: dba Peñuelas Broadcasters

Call Letters: WENA

File No.: BP 790514 AA

DOCKET NO.

Date Filed: 5-14-79

Amendment(s) Filed: 5-1-80 (measurements)
7/9/80 PN
12/10/80

Present Authorization: Proposed Assignment:

CP: _____ 1330kHz, 1kw, D

Lic: 1330kHz, 500w, D
18-03-05N66-42-14 18-03-05N 66-42-14

Summary of Proposal:

Co-Channel Class I Station(s)		Facilities	Class
Call	Location		

Mailing Address: _____ Engineering Counsel: _____ Legal Counsel: _____

Nettail Rodriguez &
Rafael Serra
dba Peñuelas Broadcasters
condominio Terrimar Plaza
Apt. 6A Urb Alturas de
Terrimar, Guaynabo, PR.

George M. Arroyo
Calle 14, E-14
Urb. Mariolga
Caguas, P. R. 00625

6. INTERFERENCE CONSIDERATIONS:

of milk *
Needs broadcast part of P Notice

① No prohibited overlap with any existing domestic station.

1330, Santo Domingo, DR
10kw-5/10kw-2
OK - don't
me
to it. - don't
consider per Tom Polzin

② Proposal receives overlap and causes overlap to a new station in Santo Domingo, (D.R.) on 1330 kHz. This foreign station has not been studied by our international staffs and they have not decided how to treat it.

③ Proposal is ^{not} MX with WUNA, Aguadilla, PR (1340kHz, 250W, 1kw-LS, U) in that respective 0.5 Mv/m contours overlap. The proposal doesn't involve prohibited overlap with any other station.

① Proposal provides protection to HISA, Santiago DR as was originally notified

② Three notifications of the existing operations were made (change 153t 1709, 1726, 1773.) No record of objection noted. Additionally, both existing and proposed operations have been included in the inventory sent to ITU.

③ Received notice of new station in Santo Domingo on December 28, 1979. This proposal would cause and receive interference from the proposed

④ measurements were used to show no overlap with WUNO, San Juan PR.

↳ operation

* ④ Bob Burkhardt feels processing should go forward but this conflict should be noted; Negotiation may be necessary to resolve conflict. Grant of this application may need a condition subject to the result of negotiations.

Appendix 1 – HICN-AM CURRENT FACILITY PHOTOS



TOWER

Appendix 1 – PAGE 2



ANTENNA TUNING UNIT



GROUND SYSTEM

TRANSMITTER

