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Engineering Report Exhibit 15 Figure 1
PSRA Showing of Full Foreign Night Protection
WLVE, Winchester, VA
January 2011

Coordinates : 39-07-26.4 N 78-12-42.0 W Frequency : 610 kHz Initial PWR: 0.500 Initial Inv Field: 200.96 mV/M

SITE INFO													
BEARING	CALL	LIM	CLASS	SLANT	GEOMAG	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS LIMIT 50%
				DIST	MIDPT	TO	---	---	---	---	SWAVE FLD	ALLOWABLE	---
14.1	CFLO	801.205	C	877.7	54.2	14.1	201.0	10.7	10.7	196.9	0.080467	3.168	25.788
42.2	CHNC	218.957	B	1448.7	55.2	42.2	201.0	4.4	4.4	200.3	0.029897	1.198	2.618
56.6	CKXJ	1198.331	B	2024.9	55.2	56.6	201.0	0.9	0.9	200.9	0.010200	0.410	4.889
302.7	CJAT	4633.881	B	3307.0	55.7	302.7	201.0	0.0	0.0	201.0	0.002887	0.116	5.351
305.5	CHNL	16605.305	B	3501.6	56.6	305.5	201.0	0.0	0.0	201.0	0.002519	0.101	16.732
316.7	CKYL	8179.715	B	3418.0	59.3	316.7	201.0	0.0	0.0	201.0	0.002666	0.107	8.724
321.1	CKRW	23117.694	B	4526.8	62.6	321.1	201.0	0.0	0.0	201.0	0.001440	0.058	13.316
328.2	CHTM	4786.988	B	2355.0	58.6	328.2	201.0	0.0	0.0	201.0	0.006611	0.266	12.660
349.9	CKTB	661.944	B	485.4	52.4	349.9	201.0	22.4	22.4	183.4	0.134410	4.931	35.589

For a radiated field of 201 mV/m or less, the proposed WLVE day antenna does not produce a 0.025 mV/m 50% Region II skywave contour within any foreign country except Canada and The Bahamas. There are no stations operating on 610 kHz in The Bahamas.

There are no class A stations (which would require protection under the US-Mexico agreement) on 610 kHz in Mexico.

For a radiated field of 201 mV/m or less, the proposed WLVE day antenna does not produce a 0.1 mV/m 10% US-Mexico skywave contour within Mexico. (0.1 mV/m - Interfering contour which is capable of interfering with a class B or C station in the absence of other interference)

Conclusion: Full night protection of all foreign stations is maintained at 500 Watts or less from the proposed day antenna of WLVE.