

TECHNICAL EXHIBIT 27
INTERFERENCE AND SEPARATION REQUIREMENTS

IN SUPPORT OF MINOR CHANGE APPLICATION
WTCM-FM, TRAVERSE CITY, MICHIGAN
MAY 2009

The attached Tables I and II show the distances from the existing antenna site to pertinent existing and/or proposed FM stations on Channel 278, ± 3 channels and minus 53 channels from the licensed and proposed WTCM-FM operations. Tables I and II indicate the existing and proposed antenna sites meet the minimum distance requirements of Section 73.207 of the Commission's Rules to all FM stations with the exception of the stations authorized under Section 73.215 of the Commission's Rules and the WHBY(FM) proposal triggering a Class downgrade of WTCM.

TABLE I
FM ALLOCATION SITUATION
FOR THE LICENSED CHANNEL 278C OPERATION OF
WTCM-FM, TRAVERSE CITY, MICHIGAN
MAY 2009

<u>CHANNEL</u>	<u>CALL</u>	<u>CITY/ STATE</u>	<u>GEOGRAPHIC COORDINATES</u>	<u>DISTANCE</u>	
				<u>ACTUAL</u> km	<u>REQUIRED</u> km
278C	WTCM-FM	Traverse City, MI	N 44-27-31 ¹ W 85-42-02	--	--
277C3	WQLB	Tawas City, MI	N 44-24-48 W 83-37-14	165.7 ²	176
277C3	WHBY Lic.	Menominee, MI	N 44-03-58 W 87-39-55	169.6 ³	176
277C3	WHBY App.	Menominee, MI	N 44-04-00 W 87-39-55	169.6 ⁴	176
280A	VAC	Harrison, MI	N 43-53-33 W 84-49-06	94.5	95
279A	VAC	Hubbardston, MI	N 43-05-53 W 84-51-54	165.5	165
225C1	ADD	Cadillac, MI	N 44-28-23 W 85-10-17	42.1	41
280A	VAC	Pentwater, MI	N 43-46-30 W 86-26-24	96.3	95
225C1	WJZQ	Cadillac, MI	N 44-35-41 W 85-11-53	42.7	41
275C1	WMKC	Indian River, MI	N 45-10-12 W 84-45-04	109	105

¹ Existing Antenna Site

² Station authorized under Section 73.215 of the Commission's Rules.

³ Station authorized under Section 73.215 of the Commission's Rules.

⁴ Application "triggering" downgrade of WTCM to Class C0.

TABLE II
FM ALLOCATION SITUATION
FOR THE PROPOSED CHANNEL 278C OPERATION OF
WTCM-FM, TRAVERSE CITY, MICHIGAN
MAY 2009

<u>CHANNEL</u>	<u>CALL</u>	<u>CITY/ STATE</u>	<u>GEOGRAPHIC COORDINATES</u>	<u>DISTANCE</u>	<u>DISTANCE</u>
				<u>ACTUAL</u> km	<u>REQUIRED</u> km
278C	WTCM-FM	Traverse City, MI	N 44-27-33 ⁵ W 85-42-09	--	--
277C3	WQLB	Tawas City, MI	N 44-24-48 W 83-37-14	165.8 ⁶	176
277C3	WHBY Lic.	Menominee, MI	N 44-03-58 W 87-39-55	169.4 ⁷	176
277C3	WHBY App.	Menominee, MI	N 44-04-00 W 87-39-55	169.4 ⁸	176
280A	VAC	Harrison, MI	N 43-53-33 W 84-49-06	94.7	95
279A	VAC	Hubbardston, MI	N 43-05-53 W 84-51-54	165.6	165
225C1	ADD	Cadillac, MI	N 44-28-23 W 85-10-17	42.3	41
280A	VAC	Pentwater, MI	N 43-46-30 W 86-26-24	96.3	95
225C1	WJZQ	Cadillac, MI	N 44-35-41 W 85-11-53	42.8	41
275C1	WMKC	Indian River, MI	N 45-10-12 W 84-45-04	109.1	105

⁵ Proposed Antenna Site

⁶ Station authorized under Section 73.215 of the Commission's Rules.

⁷ Station authorized under Section 73.215 of the Commission's Rules.

⁸ Application "triggering" downgrade of WTCM to Class C0.