

**TECHNICAL EXHIBITS 26, 27, & 29**  
INTERFERENCE AND SEPARATION REQUIREMENTS

IN SUPPORT OF MINOR CHANGE APPLICATION  
**WDHA-FM, DOVER, NEW JERSEY**  
FEBRUARY 2007

The attached Table I shows the distances from the existing antenna site to pertinent existing and/or proposed FM stations on Channel 288 and  $\pm 3$  channels from the licensed and proposed WDHA-FM operations. Table I indicates the existing antenna site meets the minimum distance requirements of Section 73.207 of the Commission's rules to all FM stations with the exception of two second adjacent channel "grandfathered short-spaced stations", WWPR-FM, New York, New York and WCAA(FM), Newark, New Jersey, a co-channel station WDBY, Patterson, New York and a first adjacent channel station WDAS-FM, Philadelphia, PA. According to Section 73.213(a) (4) there are no minimum distance separations or interference requirements with respect to the two second adjacent channel "grandfathered short-spaced stations." Additionally, as per Section 73.213(c) of the Commission's Rules there is no increase in power in the direction of short-spaced stations WDBY and WDAS-FM.

The attached allocation maps (Figures 2 and 3) show the protected and interfering contours of the present licensed and proposed operations of WDHA-FM with respect to WDBY and WDAS-FM. WDHA-FM is proposing to maintain the existing licensed ERP in the direction of these stations utilizing a directional FM antenna (see Figure 1A).

**TABLE I**  
**FM ALLOCATION SITUATION**  
**FOR THE LICENSED AND PROPOSED CHANNEL 288A OPERATIONS OF**  
**WDHA-FM, DOVER, NEW JERSEY**  
**FEBRUARY 2007**

<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
288A	WDHA	Dover, NJ	N 40-51-19 <sup>1</sup> W 74-30-42	--	--
286B	WWPR-FM	New York, NY	N 40-44-54 W 73-59-10	45.9 <sup>2</sup>	69
288A	WDBY	Patterson, NY	N 41-31-18 W 73-38-06	104.3 <sup>3</sup>	115
287B	WDAS-FM	Philadelphia, PA	N 40-02-30 W 75-14-24	109.4 <sup>4</sup>	113
290B1	WCAA	Newark, NJ	N 40-44-54 W 73-59-10	45.9 <sup>5</sup>	48
234B	WFME	Newark, NY	N 40-47-18 W 74-15-19	22.9	15
288A	WMGH-FM	Tamaqua, PA	N 40-47-14 W 76-01-59	128.6	115
287A	WYCY	Hawley, PA	N 41-34-45 W 75-10-42	97.9	72

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<sup>1</sup> Existing Antenna Site

<sup>2</sup> 73.213(a) Grandfathered Short-spaced Station

<sup>3</sup> 73.213(c) Grandfathered Short-spaced Station – maintain licensed power.

<sup>4</sup> 73.213(c) Grandfathered Short-spaced Station – maintain licensed power.

<sup>5</sup> 73.213(a) Grandfathered Short-spaced Station

### WDHA-FM

BLH20051205ADJ  
Latitude: 40-51-19 N  
Longitude: 074-30-42 W  
ERP: 1.00 kW  
Channel: 288  
Frequency: 105.5 MHz  
AMSL Height: 354.0 m  
Elevation: 315.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

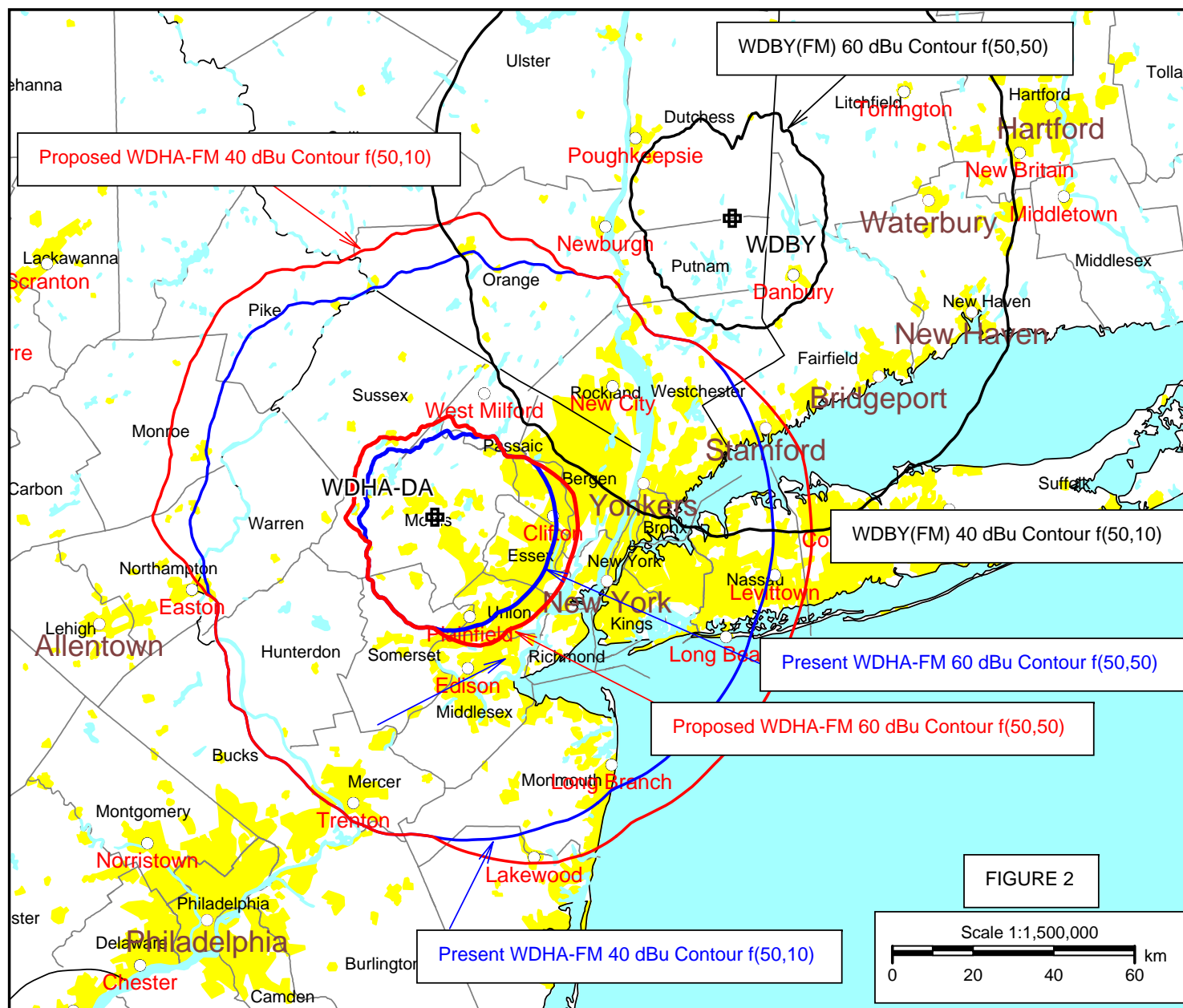
### WDHA-DA

PROPOSED  
Latitude: 40-51-19 N  
Longitude: 074-30-42 W  
ERP: 2.00 kW  
Channel: 288  
Frequency: 105.5 MHz  
AMSL Height: 354.0 m  
Elevation: 315.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None

### WDBY

BLH19930420KG  
Latitude: 41-31-18 N  
Longitude: 073-38-06 W  
ERP: 0.90 kW  
Channel: 288  
Frequency: 105.5 MHz  
AMSL Height: 409.0 m  
Elevation: 329.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

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Allocation Showing Using Section 73.213(c) For The Proposed Operation Of WDHA-FM With Respect To WDBY(FM)

### WDHA-FM

BLH20051205ADJ  
Latitude: 40-51-19 N  
Longitude: 074-30-42 W  
ERP: 1.00 kW  
Channel: 288  
Frequency: 105.5 MHz  
AMSL Height: 354.0 m  
Elevation: 315.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

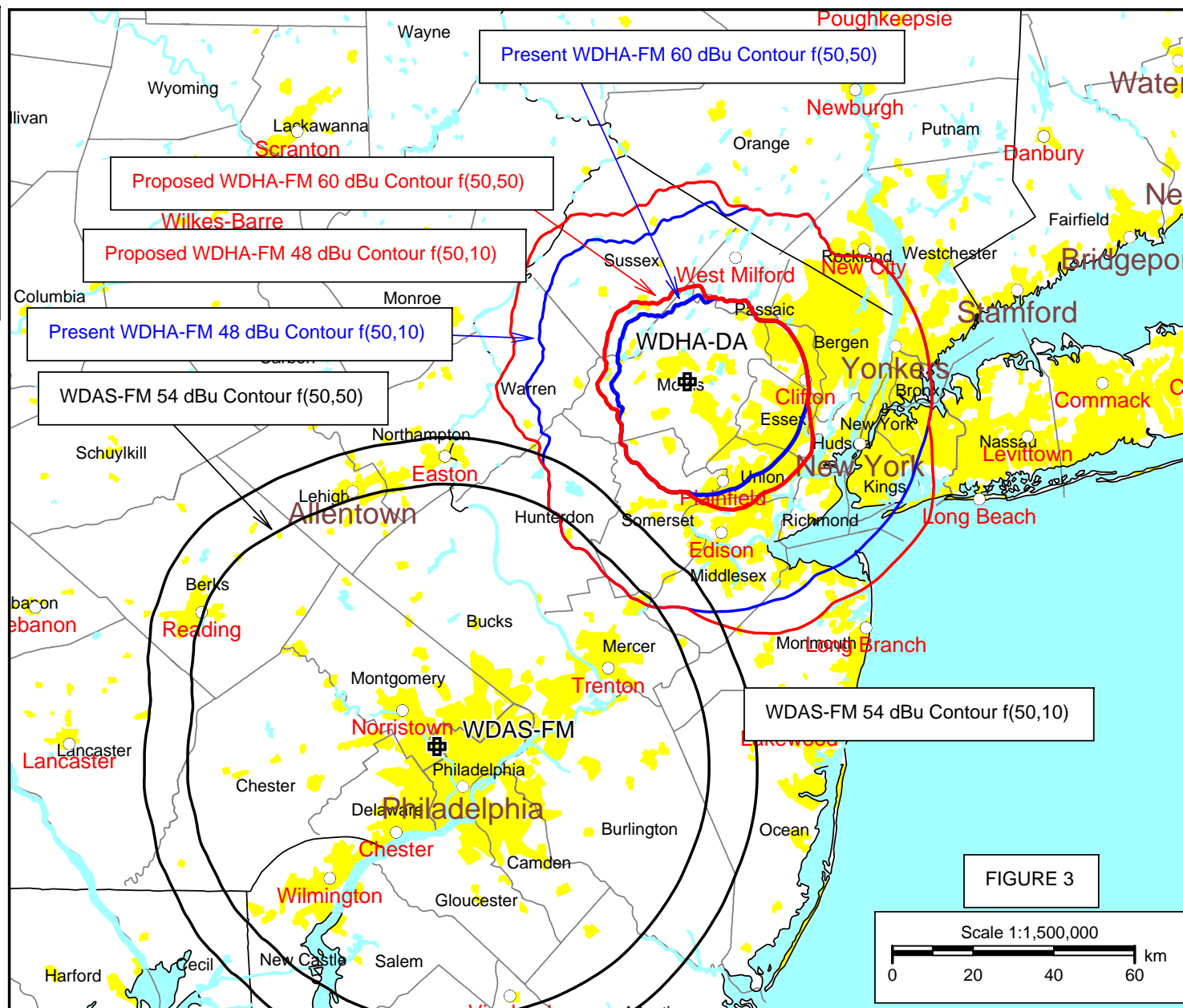
### WDHA-DA

PROPOSED  
Latitude: 40-51-19 N  
Longitude: 074-30-42 W  
ERP: 2.00 kW  
Channel: 288  
Frequency: 105.5 MHz  
AMSL Height: 354.0 m  
Elevation: 315.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None

### WDAS-FM

BLH19930208KK  
Latitude: 40-02-30 N  
Longitude: 075-14-24 W  
ERP: 16.50 kW  
Channel: 287  
Frequency: 105.3 MHz  
AMSL Height: 334.0 m  
Elevation: 67.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

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Allocation Showing Using Section 73.213(c) For The Proposed Operation Of WDHA-FM With Respect To WDAS-FM