Exhibit 30 – Engineering Statement

CBS Radio East Inc.

WIAD(FM) Bethesda, Maryland

Facility ID 9619

Ch. 234B 22.5 kW 217 m

CBS Radio East Inc. proposes to replace the WIAD main antenna while making slight changes in antenna height, effective radiated power (ERP), and geographical coordinates. The proposed facility will operate with an antenna height of 217 meters above average terrain (HAAT), an effective radiated power (ERP) of 22.5 kW, and no change in site location.[1] This Statement addresses the allocations, environmental, and radiofrequency concerns related to this proposal.

The attached coverage map Figure 1 demonstrates that Bethesda, Maryland will be encompassed by the proposed 70 dBµ city-grade coverage contour. The following allocations study shows that the proposed facility will remain short spaced to multiple stations. Regardless, no interference from the short spaced stations is predicted within the principal community.

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 REFERENCE                                                    DISPLAY DATES
38 57 49.5 N.              CLASS = B  Int = B                 DATA   07-26-16
77 06 18.3 W.          Current Spacings to 3rd Adj.           SEARCH 07-26-16
------------------------- Channel 234 - 94.7 MHz --------------------------
Call       Channel     Location                 Azi     Dist    FCC    Margin
-------------------------------------------------------------------------------
WIAD      LIC   234B   Bethesda            MD  156.6     0.01  241.0  -241.0
WDSD_%    LIC   234B   Dover               DE   78.3   135.81  241.0  -105.2
WDAC_%    LIC   233B   Lancaster           PA   35.4   127.55  169.0   -41.5
WRBS-FM_% LIC-D 236B   Baltimore           MD   48.7    49.36   74.0   -24.6
WRBT      LIC-D 235B   Harrisburg          PA    5.0   150.73  169.0   -18.3
W288BS    LIC-D 288D   Reston              VA   49.6     0.07   15.0   -14.9
WWXX      LIC-N 232A   Buckland            VA  248.9    68.00   69.0    -1.0
WRVQ      LIC   233B   Richmond            VA  186.1   174.15  169.0     5.2
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Based on historic FCC engineering filings, it is understood that WIAD's short spacing to WDSD Dover, WDAC(FM) Lancaster, PA; WRBS-FM Baltimore, MD; and WRBT Harrisburg, PA has existed since 1964 and is therefore grandfathered under §73.213(a). Maps showing the licensed and proposed WIAD protected and interfering contours are provided in Figure 2 for co-

[1] WIAD has operated from the proposed tower for many decades. This application seeks to correct the site coordinates to be consistent with FCC Antenna Structure Registration (ASR) 1035708 after converting to NAD27 and rounding to the nearest tenth of a second.

channel station WDSD and in Figure 3 for first-adjacent stations WDAC and WRBT.[2] Interference between these stations was predicted per §73.213(a), depicted as red shading in Figures 4 – 12, and summarized in the table below. Because the proposed facility will *decrease* existing interference areas and population, both caused and received, the proposed changes are thought to serve the public interest.

Interference Area	Licensed WIAD	Proposed WIAD	Difference
WDSD from WIAD	Area: 2,865.3 km^2 Population: 216,956 (Figure 4)	Area: 2,849.1 km^2 Population: 214,743 (Figure 5)	Area: -16.2 km^2 Population: -2,213
WDSD to WIAD	Area: 3,530.7 km^2 Population: 1,528,038 (Figure 6)	Area: 3,447.4 km^2 Population: 1,485,591 (Figure 7)	Area: -83.3 km^2 Population: -42,447
WDAC from WIAD	Area: 792.8 km^2 Population: 349,913 (Figure 8)	Area: 746.2 km^2 Population: 339,181 (Figure 9)	Area: -46.6 km^2 Population: -10,732
WDAC to WIAD	Area: 804.4 km^2 Population: 850,703 (Figure 10)	Area: 759.2 km^2 Population: 817,614 (Figure 11)	Area: -45.2 km^2 Population: -33,089
WRBT to/from WIAD	Area: 0 km^2 Population: 0 (Figure 3)	Area: 0 km^2 Population: 0 (Figure 3)	Area: 0 km^2 Population: 0
Total			Area: -191.3 km^2 Population: -88,481

There is no further study of the WIAD proposal with respect to second-adjacent grandfathered station WRBS-FM because §73.213(a)(4) excludes such stations from distance separation and interference protection requirements.

The licensed WWXX facility was processed under the FCC's Contour Protection rule, §73.215.[3] As shown in Figure 12, no prohibited contour overlap would occur between WWXX and the proposed WIAD facilities. Because the proposed facility will not alter the allocations

[2] All contour locations in this Exhibit were determined using three arc-second National Elevation Dataset (NED) terrain data along 360 evenly-spaced radials.
[3] *See* FCC File Numbers BPH-20090416ACO and BLH-20091110AAQ.

landscape with respect to WWXX, WIAD is not seeking processing under the Contour Protection rule.

The proposed site is beyond the coordination distances of Canada, Mexico, and the nearest FCC monitoring station.[4] There are no nearby AM facilities that trigger FCC requirements to study those antenna systems.[5] Thus, it is believed that the proposed facility satisfies all allocation matters.

The proposed facility uses an existing tower with no change in overall height, marking, or lighting specifications. Consequently, this application is categorically excluded from environmental processing.

The proposed operation was evaluated for radiofrequency exposure using the FCC Office of Engineering and Technology's updated *FMModel* software[6] which calculates RF power density at ground level given the height, power, and type of FM broadcast antenna. As demonstrated in the following, the proposed transmitting system complies with the FCC's general population/uncontrolled maximum permitted exposure (MPE) exposure guideline of 200 $\mu W/cm^2$ for the FM broadcast band.

An Electronics Research two-bay, one wavelength-spaced, model 1183 circularly-polarized panel antenna is proposed for WIAD.[7] Using this antenna type and WIAD's proposed parameters as input values, *FMModel* predicts a maximum, ground-level power density of 19.04 $\mu W/cm^2$ or 9.5 percent of the MPE.

[4] The proposed facility is 33.2 km from the Laurel, Maryland monitoring station, well beyond the 16 kilometer coordination distance applicable for WIAD's proposed 22.5 kW ERP facility.
[5] The nearest AM station, non-directional WAVA(AM) Arlington, VA, is four wavelengths away.
[6] *See* FCC Public Notice DA 16-340, Released March 31, 2016.
[7] This is an EPA "Type 1" antenna.

Co-located WITH(FM) Washington, DC is licensed to use a similar antenna from the same site.[8] With WIHT's licensed parameters as input values, *FMModel* predicts a maximum WIHT ground level power density of 16.4 μW/cm^2 or 8.2 percent of the MPE. Along with WIAD, the two non-excluded facilities at this site total 17.7 percent of the MPE; well less than the FCC limit.

Tower access will continue to be controlled and appropriate RF exposure warning signs will continue to be posted. A site exposure policy is in effect that includes restriction of access, power reduction, or the complete shutdown of facilities when work must be performed where predicted RF levels exceed appropriate guidelines. On-site RF exposure measurements may also be undertaken to establish the bounds of safe working areas. The applicant will coordinate exposure procedures with all pertinent stations.

[8] *See* FCC File BLH-19931215KE.

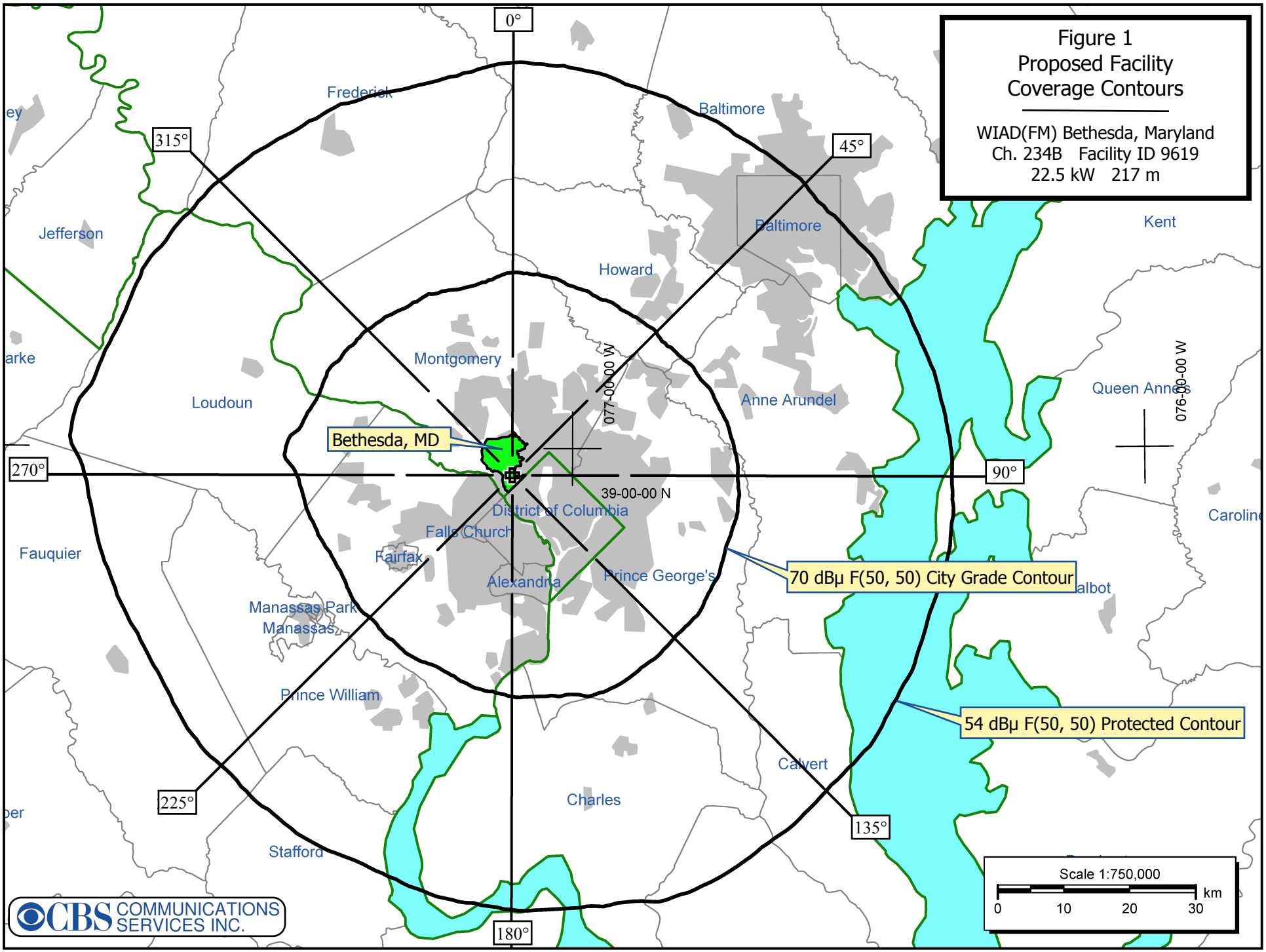
Figure 1
Proposed Facility
Coverage Contours
WIAD(FM) Bethesda, Maryland
Ch. 234B Facility ID 9619
22.5 kW 217 m
0°
45°
90°
135°
180°
225°
270°
315°
Frederick
Baltimore
Baltimore
Kent
Jefferson
Howard
Montgomery
Loudoun
Anne Arundel
Queen Annes
Bethesda, MD
077-00-00 W
076-00-00 W
39-00-00 N
District of Columbia
Falls Church
Fairfax
Alexandria
Prince George's
Fauquier
Manassas Park
Manassas
Prince William
Calvert
Charles
Stafford
70 dBµ F(50, 50) City Grade Contour
54 dBµ F(50, 50) Protected Contour
Scale 1:750,000
0 10 20 30 km
CBS COMMUNICATIONS SERVICES INC.

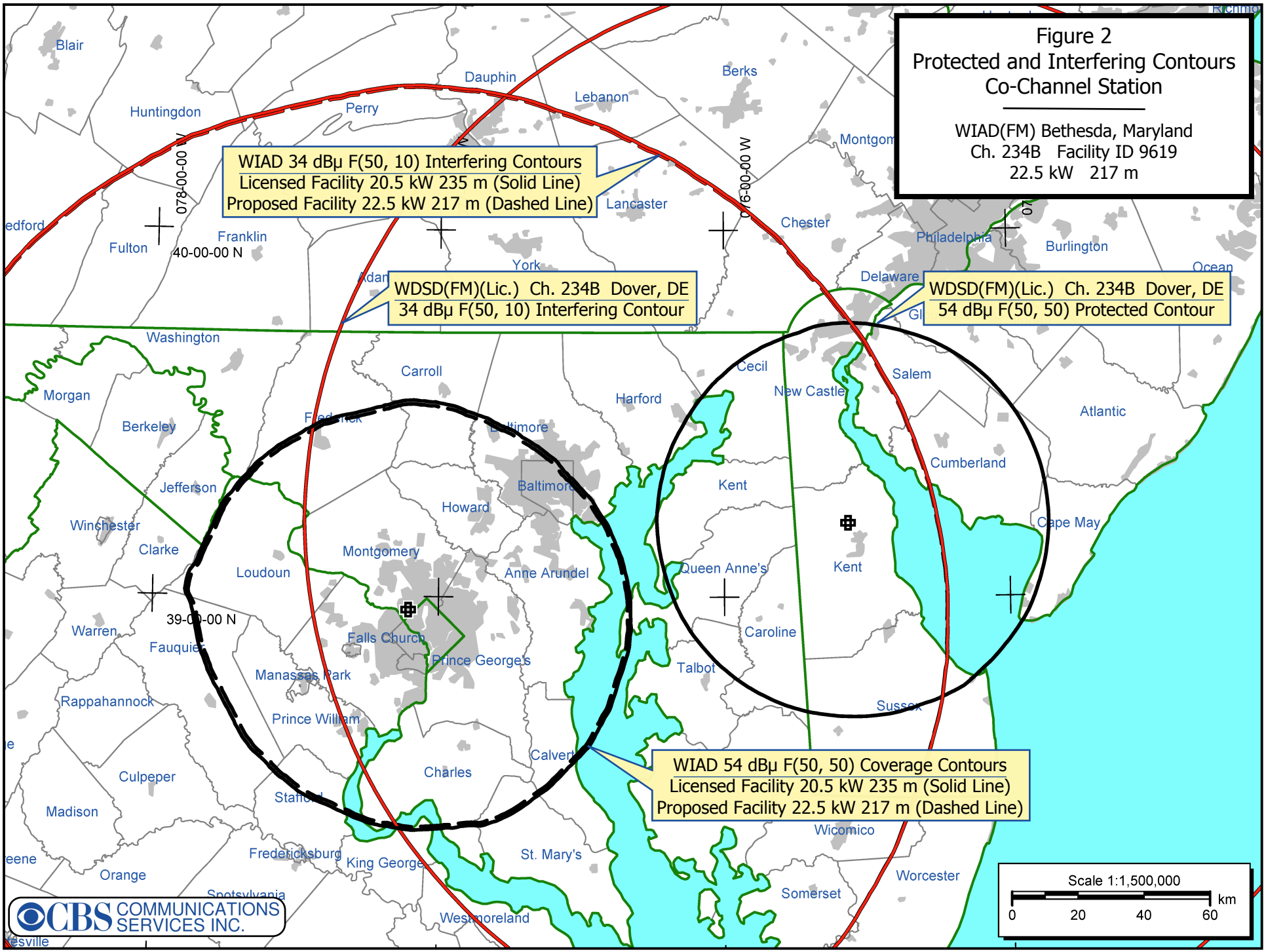
Figure 2
Protected and Interfering Contours
Co-Channel Station
WIAD(FM) Bethesda, Maryland
Ch. 234B Facility ID 9619
22.5 kW 217 m
WIAD 34 dBμ F(50, 10) Interfering Contours
Licensed Facility 20.5 kW 235 m (Solid Line)
Proposed Facility 22.5 kW 217 m (Dashed Line)
WDSD(FM)(Lic.) Ch. 234B Dover, DE
34 dBμ F(50, 10) Interfering Contour
WDSD(FM)(Lic.) Ch. 234B Dover, DE
54 dBμ F(50, 50) Protected Contour
WIAD 54 dBμ F(50, 50) Coverage Contours
Licensed Facility 20.5 kW 235 m (Solid Line)
Proposed Facility 22.5 kW 217 m (Dashed Line)
078-00-00 W
076-00-00 W
40-00-00 N
39-00-00 N
Blair
Huntingdon
Fulton
Franklin
Perry
Dauphin
Berks
Lebanon
Lancaster
York
Chester
Philadelphia
Burlington
Delaware
Washington
Carroll
Harford
Cecil
New Castle
Salem
Atlantic
Cumberland
Cape May
Morgan
Berkeley
Jefferson
Winchester
Clarke
Loudoun
Howard
Montgomery
Anne Arundel
Kent
Queen Anne's
Caroline
Talbot
Sussex
Warren
Fauquier
Rappahannock
Culpeper
Madison
Orange
Prince William
Manassas Park
Falls Church
Prince George's
Charles
Calvert
St. Mary's
Wicomico
Worcester
Somerset
King George
Fredericksburg
Spotsylvania
Westmoreland
CBS COMMUNICATIONS SERVICES INC.
Scale 1:1,500,000
km
0
20
40
60

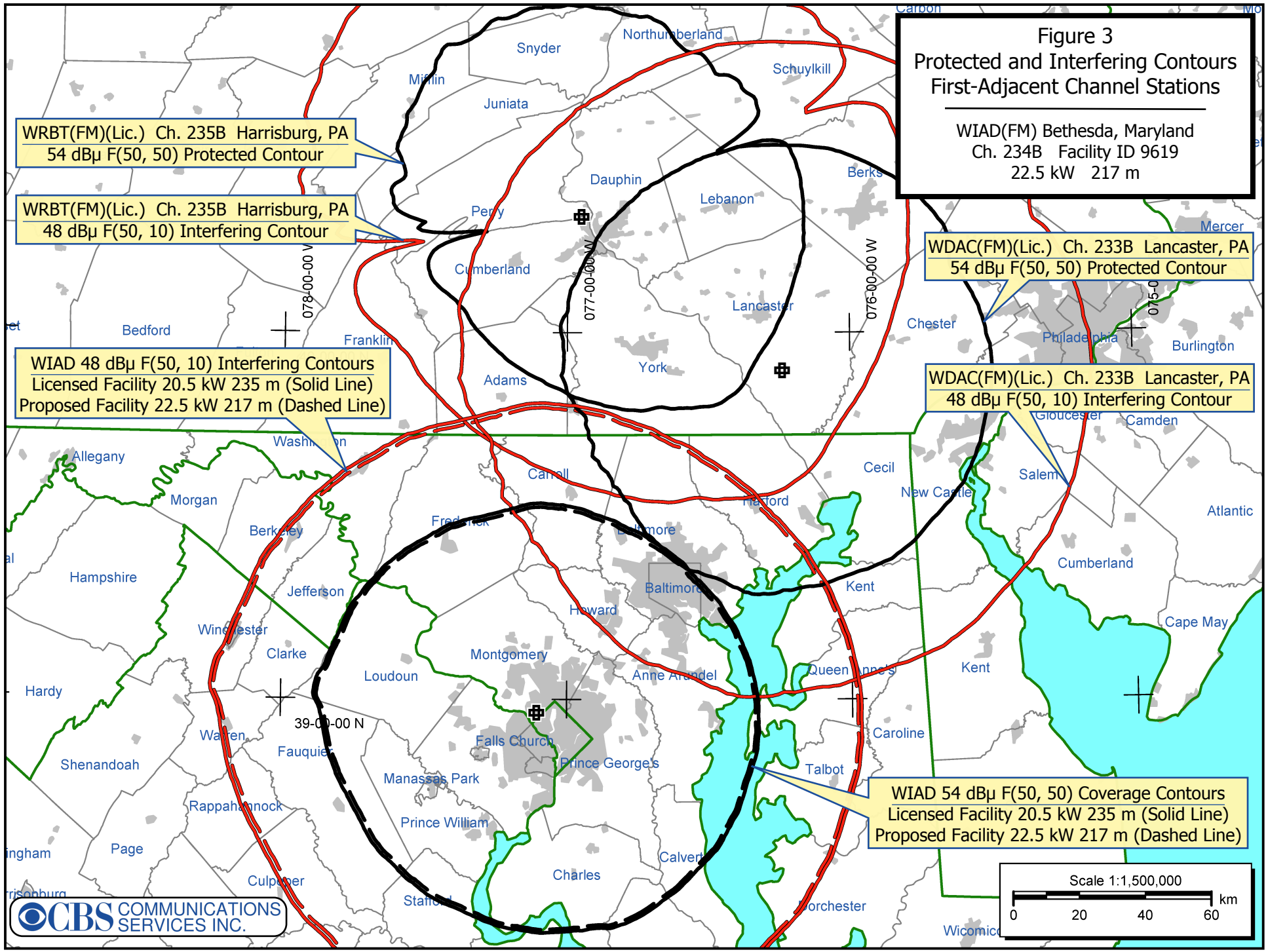
Figure 3
Protected and Interfering Contours
First-Adjacent Channel Stations
WIAD(FM) Bethesda, Maryland
Ch. 234B Facility ID 9619
22.5 kW 217 m
WRBT(FM)(Lic.) Ch. 235B Harrisburg, PA
54 dBµ F(50, 50) Protected Contour
WRBT(FM)(Lic.) Ch. 235B Harrisburg, PA
48 dBµ F(50, 10) Interfering Contour
WDAC(FM)(Lic.) Ch. 233B Lancaster, PA
54 dBµ F(50, 50) Protected Contour
WDAC(FM)(Lic.) Ch. 233B Lancaster, PA
48 dBµ F(50, 10) Interfering Contour
WIAD 48 dBµ F(50, 10) Interfering Contours
Licensed Facility 20.5 kW 235 m (Solid Line)
Proposed Facility 22.5 kW 217 m (Dashed Line)
WIAD 54 dBµ F(50, 50) Coverage Contours
Licensed Facility 20.5 kW 235 m (Solid Line)
Proposed Facility 22.5 kW 217 m (Dashed Line)
078-00-00 W
077-00-00 W
076-00-00 W
075-0
39-00-00 N
Scale 1:1,500,000
km
0 20 40 60
CBS COMMUNICATIONS SERVICES INC.
Snyder
Northumberland
Schuylkill
Juniata
Dauphin
Lebanon
Berks
Perry
Cumberland
Lancaster
Mercer
Chester
Philadelphia
Burlington
Bedford
Franklin
Adams
York
Allegany
Morgan
Carroll
Cecil
Salem
New Castle
Camden
Atlantic
Cumberland
Cape May
Hampshire
Jefferson
Berkeley
Baltimore
Howard
Kent
Queen Anne's
Clarke
Loudoun
Montgomery
Anne Arundel
Hardy
Warren
Fauquier
Falls Church
Prince George's
Caroline
Talbot
Shenandoah
Manassas Park
Rappahannock
Prince William
Page
Culpeper
Calvert
Charles
Dorchester
Wicomico

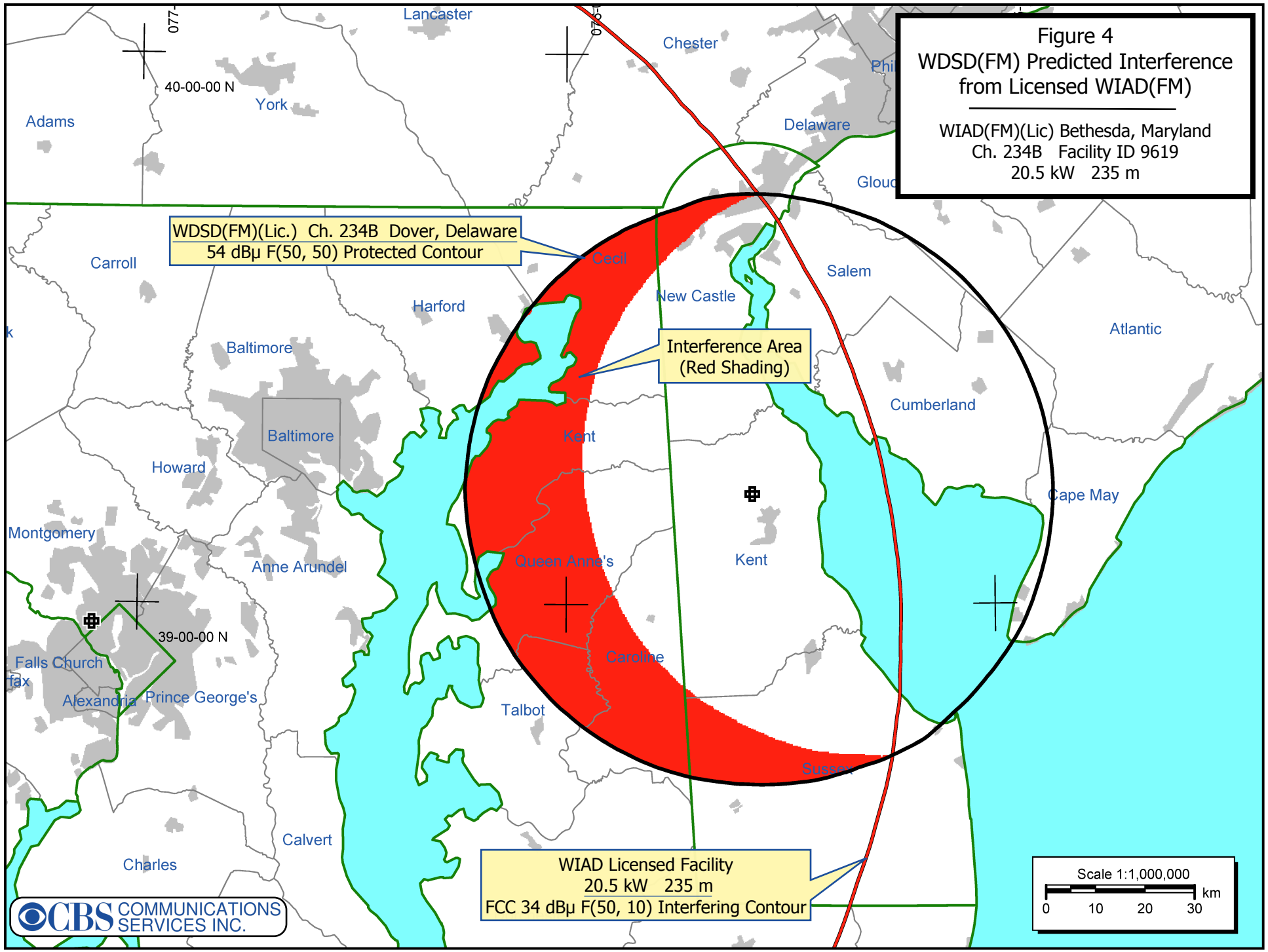
Figure 4
WDSD(FM) Predicted Interference
from Licensed WIAD(FM)
WIAD(FM)(Lic) Bethesda, Maryland
Ch. 234B Facility ID 9619
20.5 kW 235 m
WDSD(FM)(Lic.) Ch. 234B Dover, Delaware
54 dBµ F(50, 50) Protected Contour
Interference Area
(Red Shading)
WIAD Licensed Facility
20.5 kW 235 m
FCC 34 dBµ F(50, 10) Interfering Contour
40-00-00 N
39-00-00 N
Lancaster
Chester
York
Adams
Delaware
Carroll
Harford
Baltimore
Cecil
New Castle
Salem
Atlantic
Cumberland
Howard
Kent
Queen Anne's
Caroline
Talbot
Cape May
Montgomery
Anne Arundel
Prince George's
Falls Church
Alexandria
Calvert
Charles
Scale 1:1,000,000
km
0 10 20 30
CBS COMMUNICATIONS SERVICES INC.

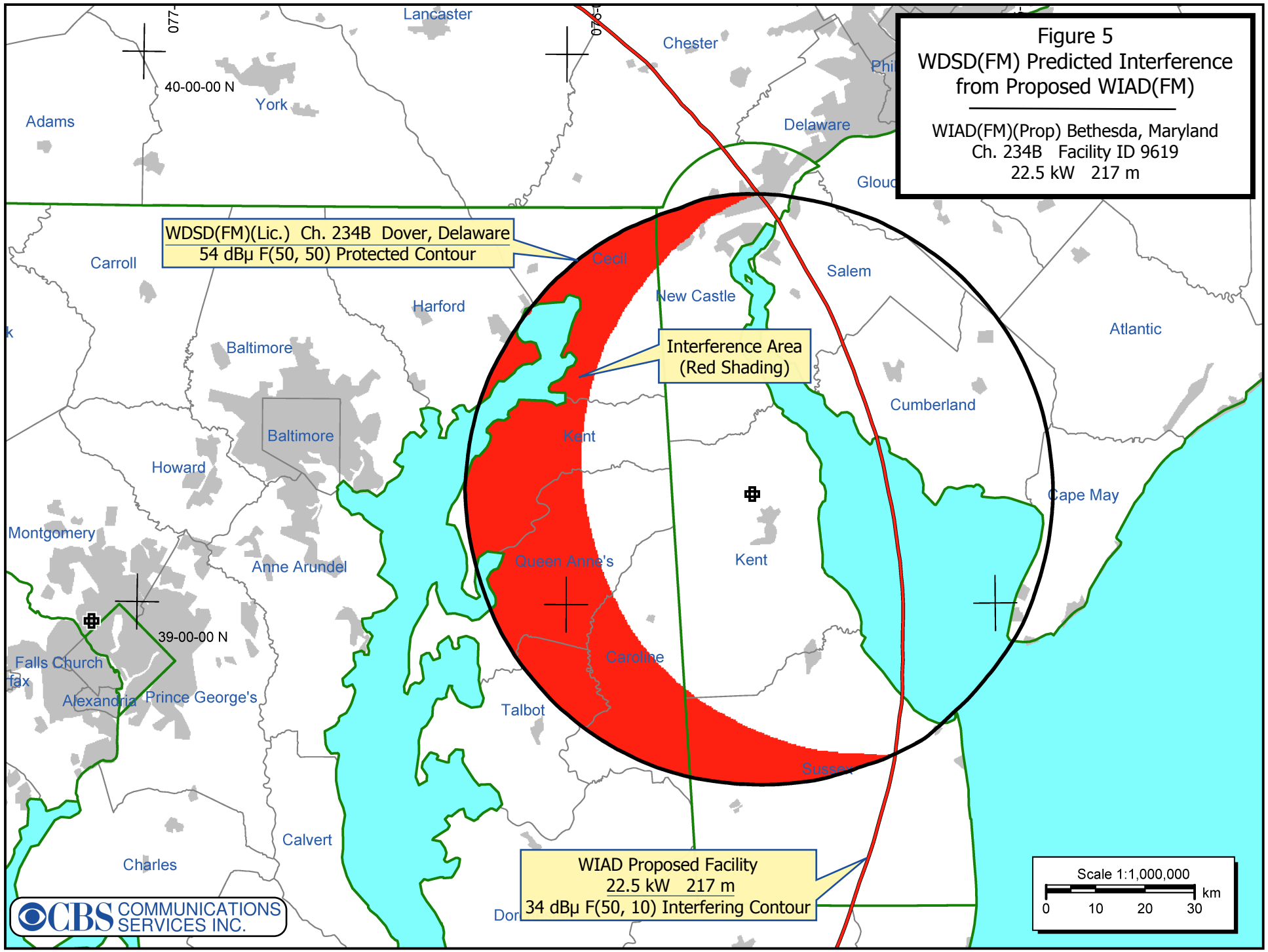
Figure 5
WDSD(FM) Predicted Interference
from Proposed WIAD(FM)
WIAD(FM)(Prop) Bethesda, Maryland
Ch. 234B Facility ID 9619
22.5 kW 217 m
WDSD(FM)(Lic.) Ch. 234B Dover, Delaware
54 dBµ F(50, 50) Protected Contour
Interference Area
(Red Shading)
WIAD Proposed Facility
22.5 kW 217 m
34 dBµ F(50, 10) Interfering Contour
40-00-00 N
39-00-00 N
077-
075-
Lancaster
Chester
York
Adams
Delaware
Carroll
Harford
Baltimore
Cecil
New Castle
Salem
Atlantic
Cumberland
Kent
Howard
Montgomery
Anne Arundel
Queen Anne's
Caroline
Talbot
Cape May
Falls Church
Alexandria
Prince George's
Calvert
Charles
Scale 1:1,000,000
km
0 10 20 30
CBS COMMUNICATIONS SERVICES INC.

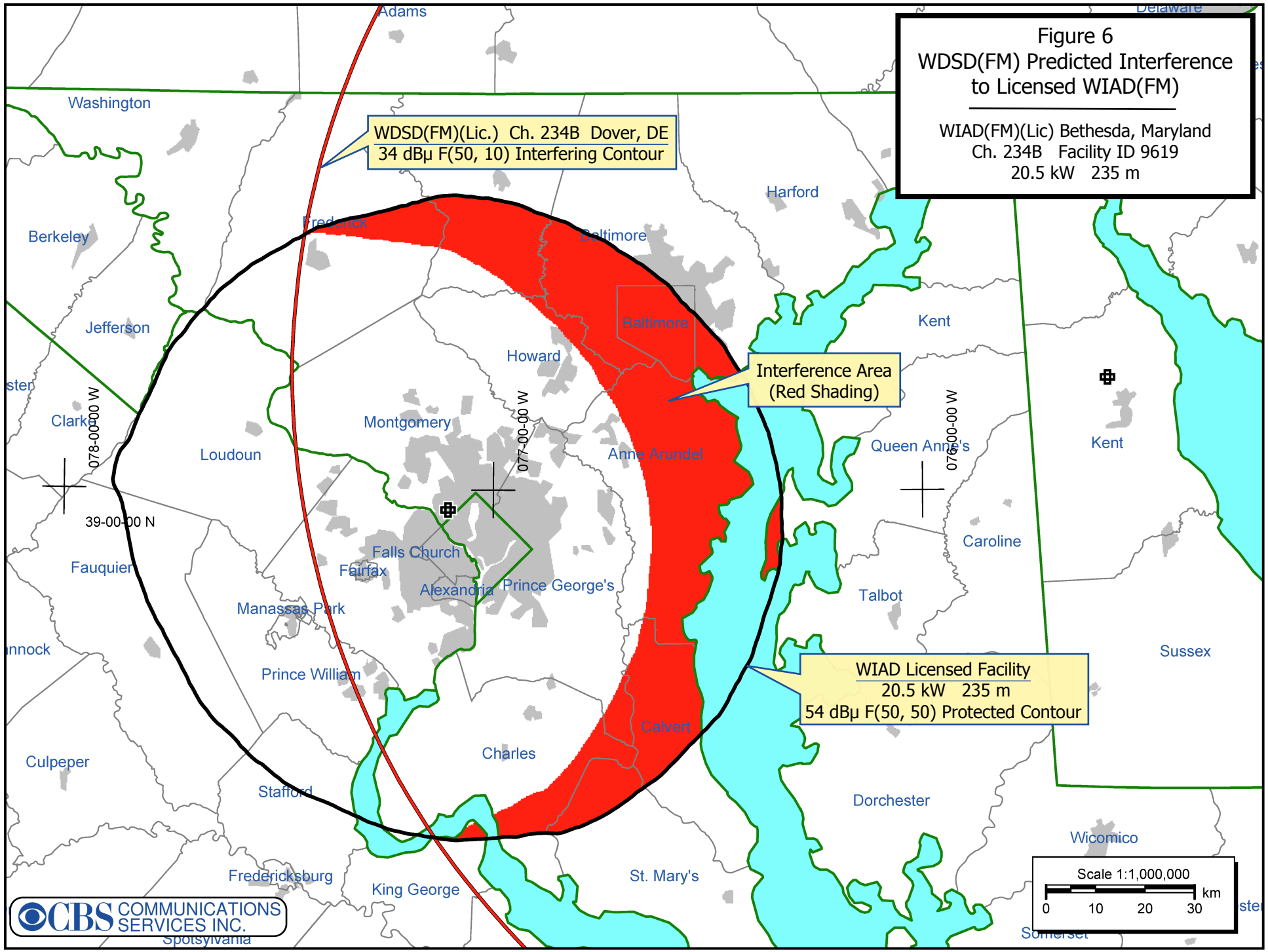
Figure 6
WDSD(FM) Predicted Interference
to Licensed WIAD(FM)
WIAD(FM)(Lic) Bethesda, Maryland
Ch. 234B Facility ID 9619
20.5 kW 235 m
WDSD(FM)(Lic.) Ch. 234B Dover, DE
34 dBμ F(50, 10) Interfering Contour
Interference Area
(Red Shading)
WIAD Licensed Facility
20.5 kW 235 m
54 dBμ F(50, 50) Protected Contour
078-00-00 W
077-00-00 W
076-00-00 W
39-00-00 N
Adams
Washington
Berkeley
Jefferson
Frederick
Baltimore
Harford
Howard
Montgomery
Loudoun
Anne Arundel
Queen Anne's
Kent
Caroline
Talbot
Sussex
Fauquier
Falls Church
Fairfax
Alexandria
Prince George's
Manassas Park
Prince William
Calvert
Charles
Culpeper
Stafford
Fredericksburg
King George
St. Mary's
Dorchester
Wicomico
Somerset
Spotsylvania
Scale 1:1,000,000
km
0 10 20 30
CBS COMMUNICATIONS SERVICES INC.

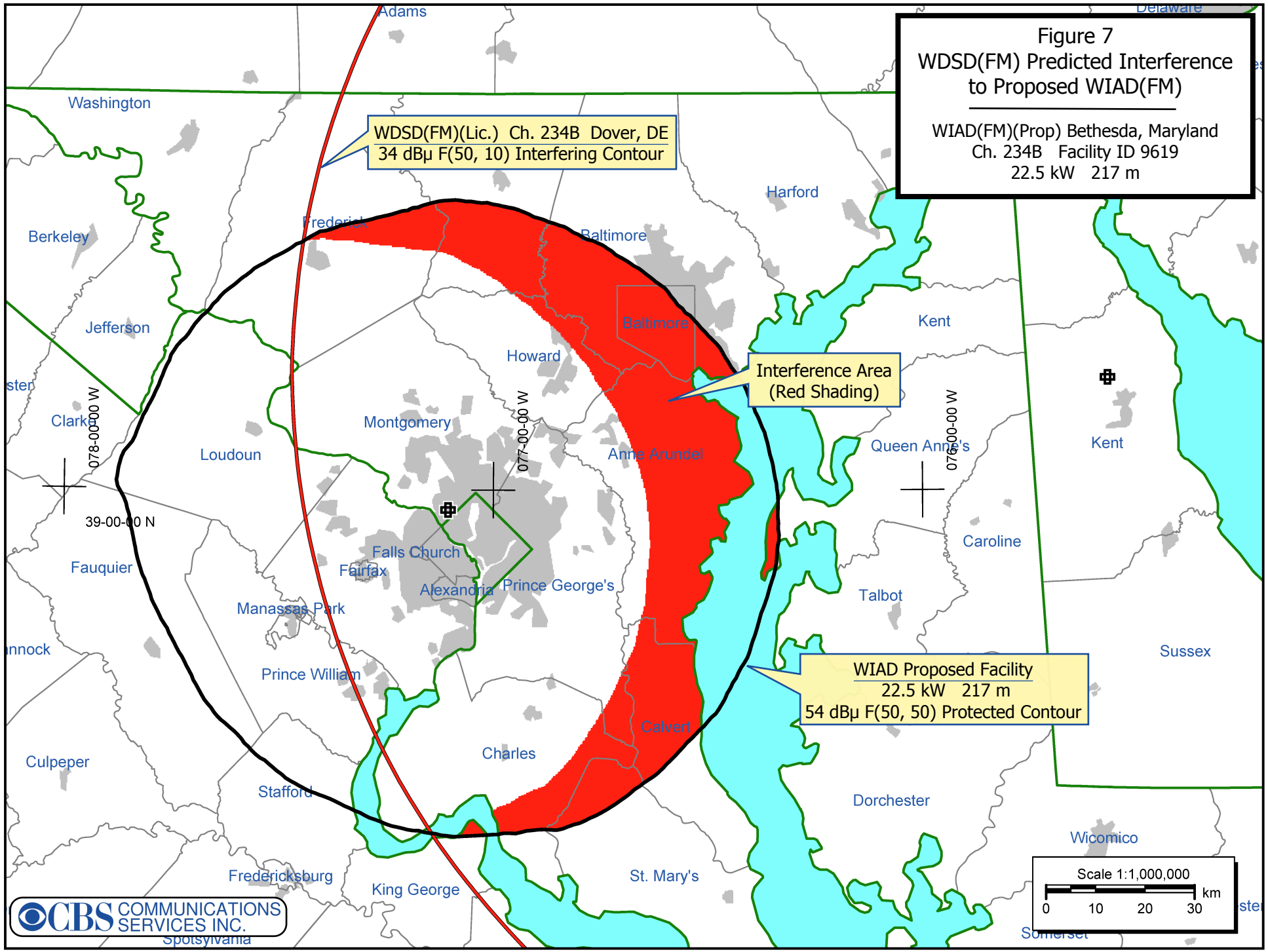
Figure 7
WDSD(FM) Predicted Interference
to Proposed WIAD(FM)
WIAD(FM)(Prop) Bethesda, Maryland
Ch. 234B Facility ID 9619
22.5 kW 217 m
WDSD(FM)(Lic.) Ch. 234B Dover, DE
34 dBμ F(50, 10) Interfering Contour
Interference Area
(Red Shading)
WIAD Proposed Facility
22.5 kW 217 m
54 dBμ F(50, 50) Protected Contour
078-00-00 W
077-00-00 W
076-00-00 W
39-00-00 N
Adams
Washington
Berkeley
Jefferson
Frederick
Baltimore
Harford
Howard
Montgomery
Loudoun
Anne Arundel
Queen Anne's
Kent
Caroline
Talbot
Sussex
Fauquier
Falls Church
Fairfax
Alexandria
Prince George's
Manassas Park
Prince William
Calvert
Charles
Culpeper
Stafford
Fredericksburg
King George
St. Mary's
Dorchester
Wicomico
Somerset
Scale 1:1,000,000
km
0 10 20 30
CBS COMMUNICATIONS SERVICES INC.

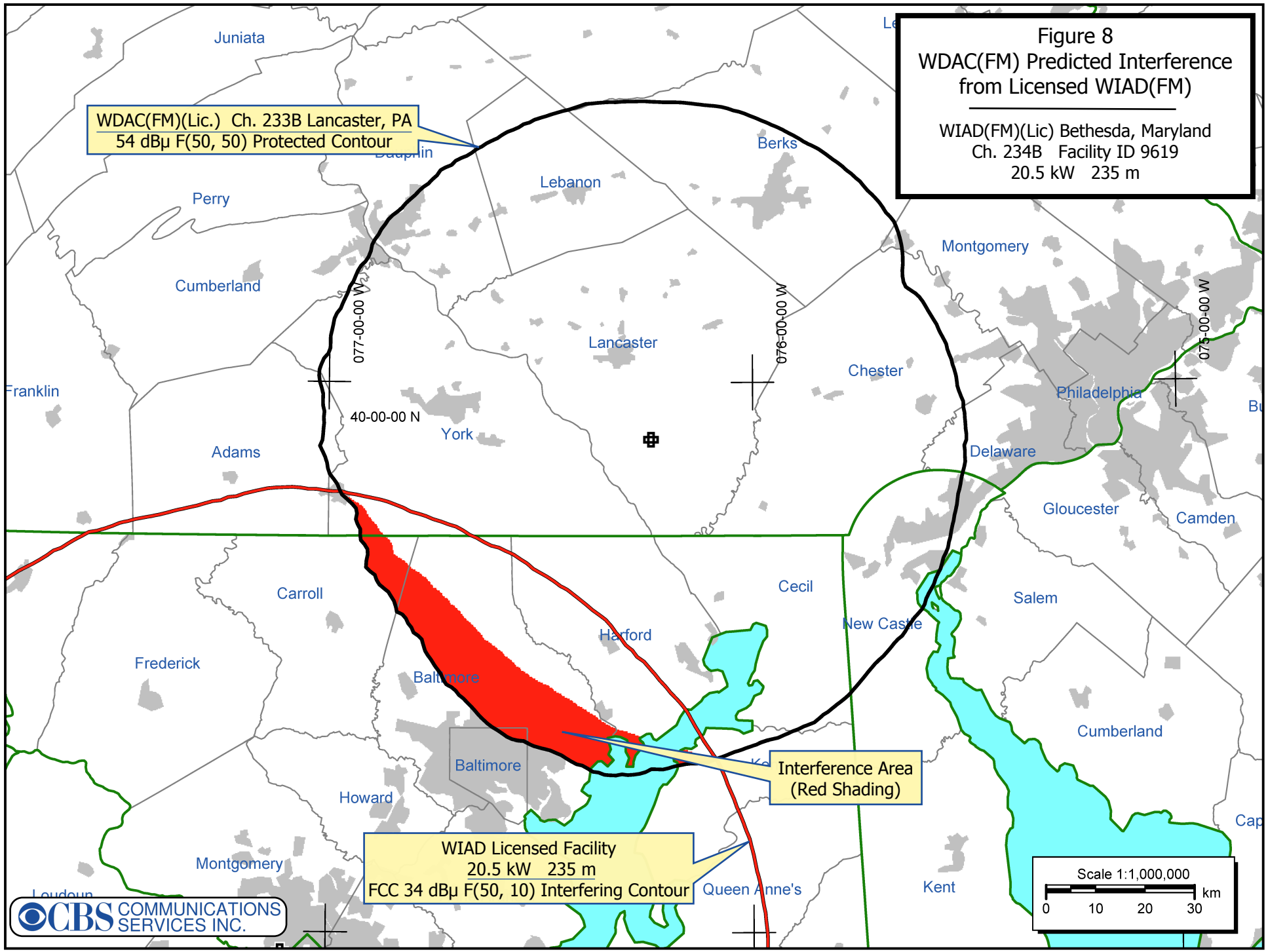
Figure 8
WDAC(FM) Predicted Interference
from Licensed WIAD(FM)
WIAD(FM)(Lic) Bethesda, Maryland
Ch. 234B Facility ID 9619
20.5 kW 235 m
WDAC(FM)(Lic.) Ch. 233B Lancaster, PA
54 dBµ F(50, 50) Protected Contour
Interference Area
(Red Shading)
WIAD Licensed Facility
20.5 kW 235 m
FCC 34 dBµ F(50, 10) Interfering Contour
077-00-00 W
076-00-00 W
075-00-00 W
40-00-00 N
Juniata
Perry
Cumberland
Franklin
Adams
Dauphin
Lebanon
Berks
Lancaster
York
Montgomery
Chester
Philadelphia
Delaware
Gloucester
Camden
Salem
Carroll
Cecil
New Castle
Harford
Frederick
Baltimore
Howard
Montgomery
Queen Anne's
Kent
Cumberland
Scale 1:1,000,000
km
0 10 20 30
CBS COMMUNICATIONS SERVICES INC.

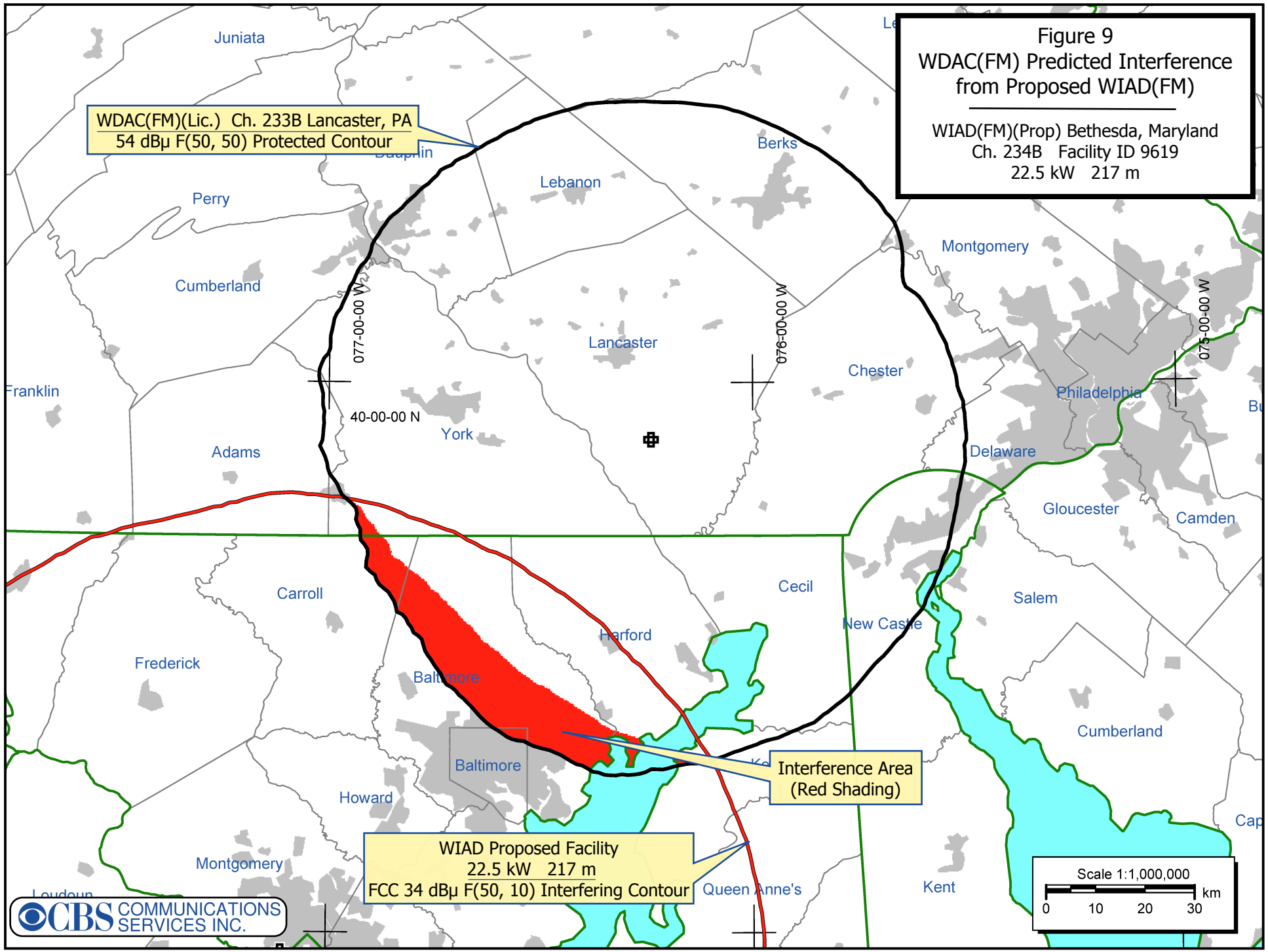
Figure 9
WDAC(FM) Predicted Interference
from Proposed WIAD(FM)
WIAD(FM)(Prop) Bethesda, Maryland
Ch. 234B Facility ID 9619
22.5 kW 217 m
WDAC(FM)(Lic.) Ch. 233B Lancaster, PA
54 dBµ F(50, 50) Protected Contour
Interference Area
(Red Shading)
WIAD Proposed Facility
22.5 kW 217 m
FCC 34 dBµ F(50, 10) Interfering Contour
CBS COMMUNICATIONS SERVICES INC.
Scale 1:1,000,000
km
0 10 20 30
Juniata
Perry
Cumberland
Franklin
Adams
Dauphin
Berks
Lebanon
Lancaster
York
Montgomery
Chester
Philadelphia
Delaware
Gloucester
Camden
Salem
New Castle
Cecil
Harford
Carroll
Frederick
Baltimore
Howard
Montgomery
Queen Anne's
Kent
Cumberland
077-00-00 W
076-00-00 W
075-00-00 W
40-00-00 N

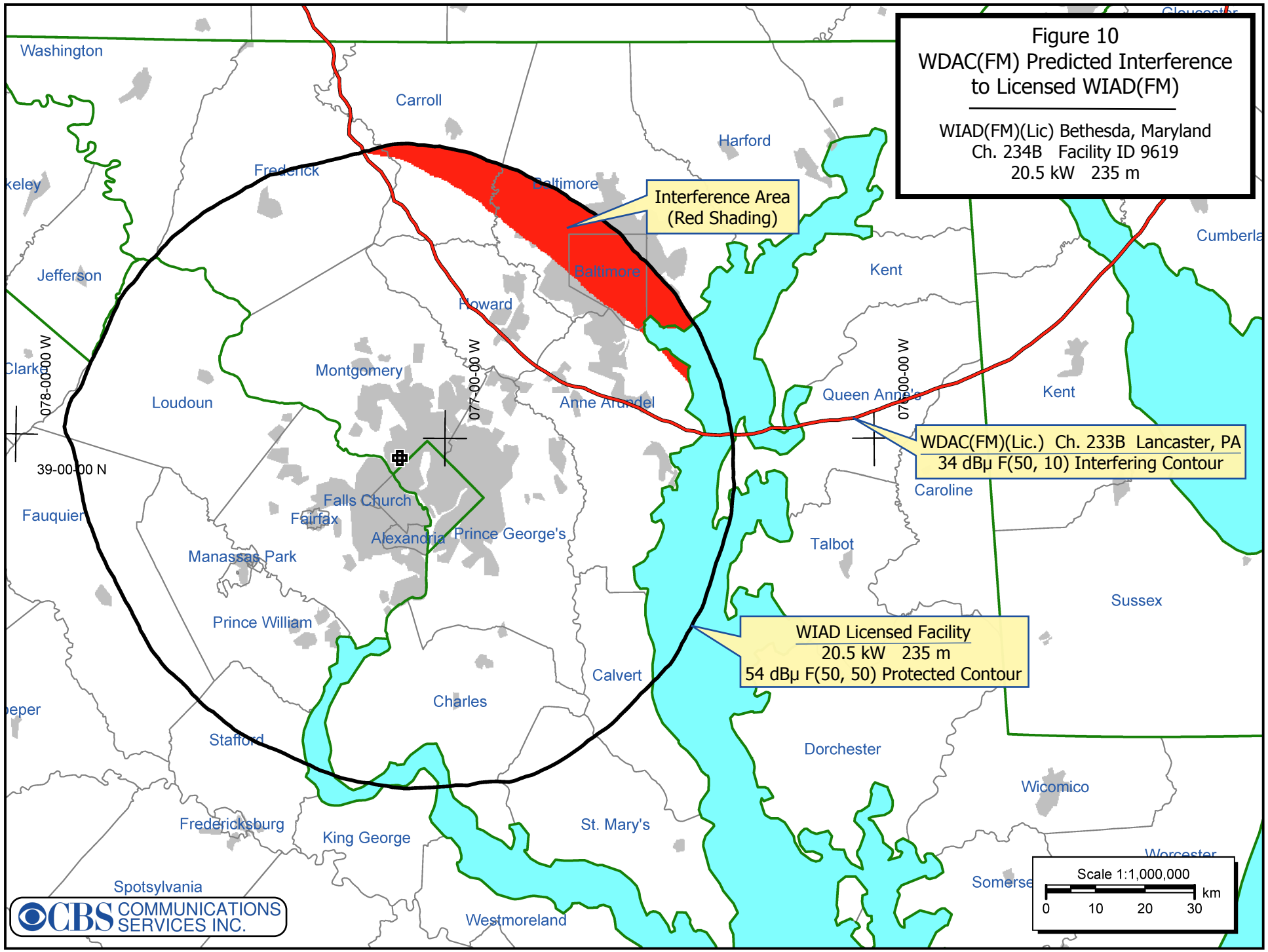
Figure 10
WDAC(FM) Predicted Interference
to Licensed WIAD(FM)
WIAD(FM)(Lic) Bethesda, Maryland
Ch. 234B Facility ID 9619
20.5 kW 235 m
Interference Area
(Red Shading)
WDAC(FM)(Lic.) Ch. 233B Lancaster, PA
34 dBµ F(50, 10) Interfering Contour
WIAD Licensed Facility
20.5 kW 235 m
54 dBµ F(50, 50) Protected Contour
Washington
Carroll
Harford
Frederick
Baltimore
Jefferson
Howard
Montgomery
Loudoun
Anne Arundel
Kent
Queen Anne's
Caroline
Talbot
Sussex
Fauquier
Falls Church
Fairfax
Alexandria
Prince George's
Manassas Park
Prince William
Calvert
Charles
Stafford
Dorchester
Wicomico
Fredericksburg
King George
St. Mary's
Spotsylvania
Westmoreland
078-00-00 W
077-00-00 W
076-00-00 W
39-00-00 N
Scale 1:1,000,000
km
0 10 20 30
CBS COMMUNICATIONS SERVICES INC.

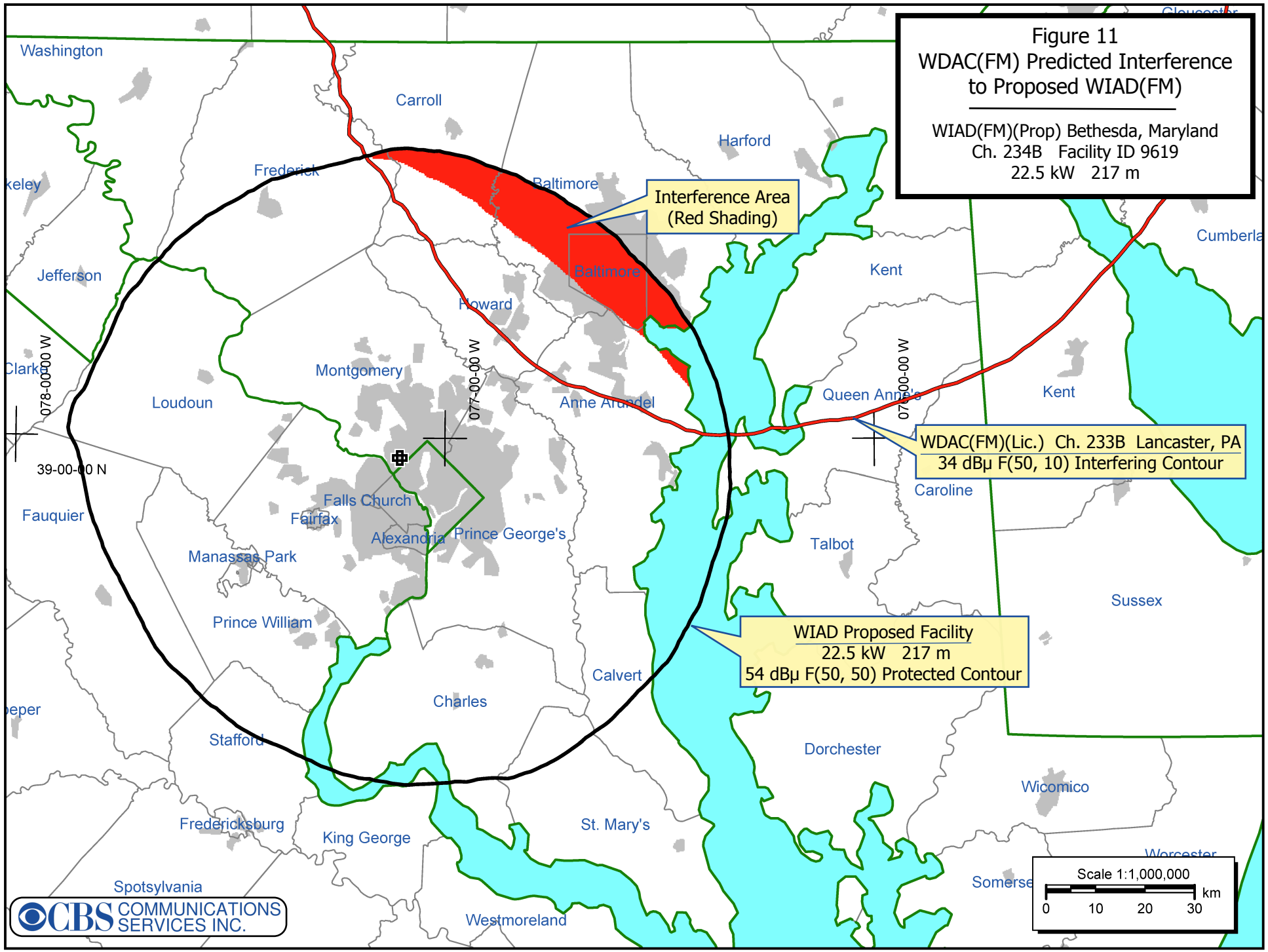
Figure 11
WDAC(FM) Predicted Interference
to Proposed WIAD(FM)
WIAD(FM)(Prop) Bethesda, Maryland
Ch. 234B Facility ID 9619
22.5 kW 217 m
Interference Area
(Red Shading)
WDAC(FM)(Lic.) Ch. 233B Lancaster, PA
34 dBµ F(50, 10) Interfering Contour
WIAD Proposed Facility
22.5 kW 217 m
54 dBµ F(50, 50) Protected Contour
Washington
Carroll
Harford
Frederick
Baltimore
Jefferson
Howard
Montgomery
Loudoun
Anne Arundel
Kent
Queen Anne's
Caroline
Talbot
Sussex
Fauquier
Falls Church
Fairfax
Alexandria
Prince George's
Manassas Park
Prince William
Calvert
Charles
Stafford
Dorchester
Wicomico
Fredericksburg
King George
St. Mary's
Spotsylvania
Westmoreland
078-00-00 W
077-00-00 W
076-00-00 W
39-00-00 N
Scale 1:1,000,000
km
0 10 20 30
CBS COMMUNICATIONS SERVICES INC.

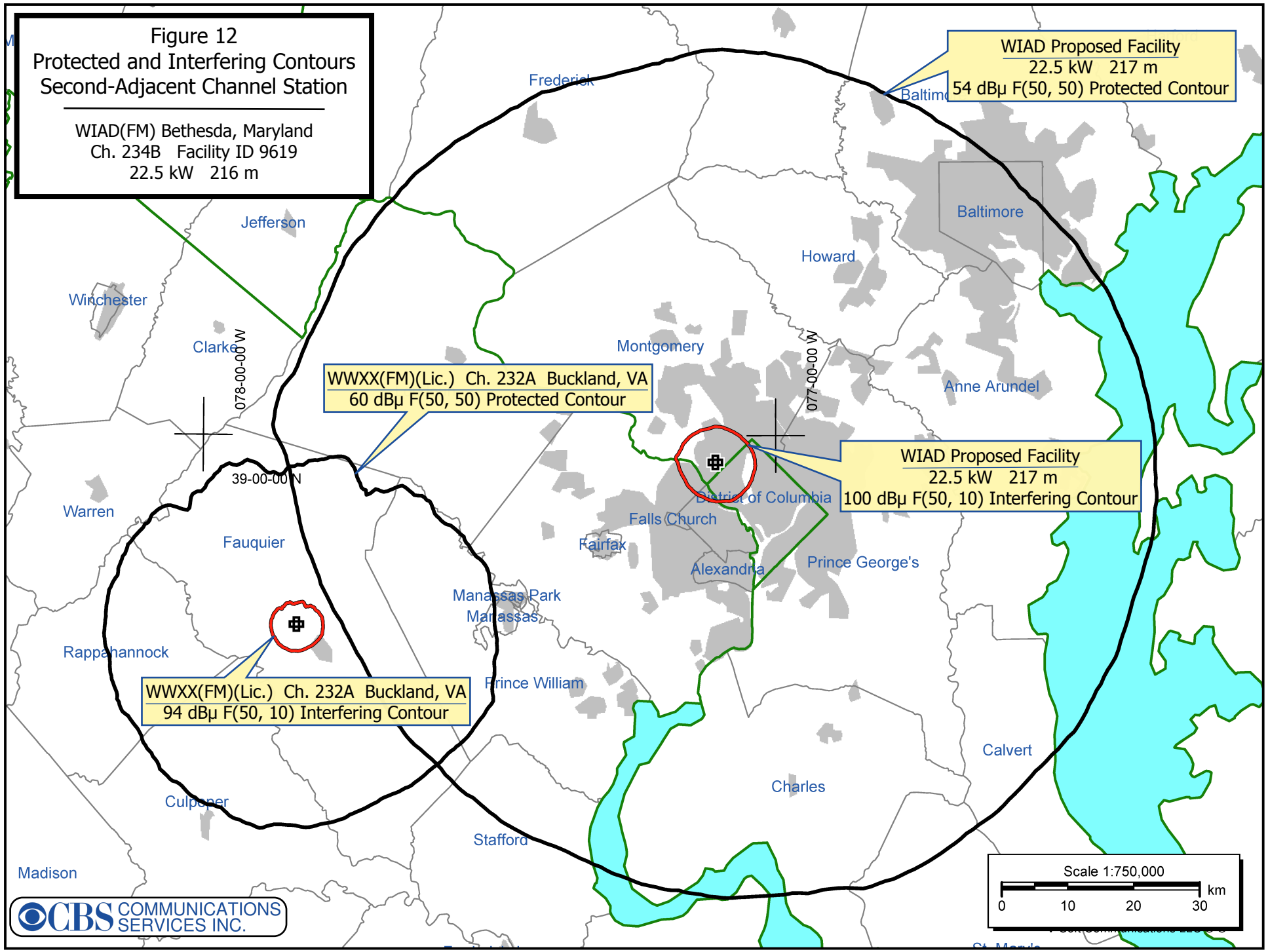
Figure 12
Protected and Interfering Contours
Second-Adjacent Channel Station
WIAD(FM) Bethesda, Maryland
Ch. 234B Facility ID 9619
22.5 kW 216 m
WIAD Proposed Facility
22.5 kW 217 m
54 dBµ F(50, 50) Protected Contour
WWXX(FM)(Lic.) Ch. 232A Buckland, VA
60 dBµ F(50, 50) Protected Contour
WIAD Proposed Facility
22.5 kW 217 m
100 dBµ F(50, 10) Interfering Contour
WWXX(FM)(Lic.) Ch. 232A Buckland, VA
94 dBµ F(50, 10) Interfering Contour
078-00-00 W
077-00-00 W
39-00-00 N
Frederick
Baltimore
Jefferson
Howard
Winchester
Clarke
Montgomery
Anne Arundel
Warren
Fauquier
District of Columbia
Falls Church
Fairfax
Alexandria
Prince George's
Manassas Park
Manassas
Rappahannock
Prince William
Calvert
Charles
Culpeper
Stafford
Madison
Scale 1:750,000
km
0
10
20
30
CBS COMMUNICATIONS SERVICES INC.