



DONOHUE & STEARNS, PLC

November 14, 2014

Mr. Kirby R. Blass, Planner II
Charles County Government - Department of Planning & Growth Management
200 Baltimore Street
La Plata, Maryland 20646

Cc: Carol Everett

Re: Special Exception Application No. 1335 - Verizon Wireless – First Review Comments
Proposed Telecommunications Facility
6202 Bivins Place La Plata, Maryland 20646

Mr. Blass:

I am writing to respond to your September 15, 2014 email in which you provided the first review comments. Please find the Applicant's responses below.

Codes, Permits & Inspection Services – GRD/ FP/ SD/SWM

1. Sheet C-1 shows the scale to be 1"=50' which is not correct. Please list the correct scale.

Applicant's Response

Sheet C-1 on the revised Zoning Drawings dated (attached) has been revised to reflect the correct scale which is 1"=150'.

2. Note 6 on Sheet C-1 clearly states a 6,500 s.f. disturbance yet Note 12 states, "No Stormwater Management is required for this site." That is not correct and Note 12 needs to be revised to state that Stormwater Management is required.

Applicant's Response

Note 12 on Sheet C-1 has been revised to state that "stormwater management is required for this site."

3. Advisory comment - Though not required at this stage, this project will have to address SWM according to current code requirements and follow the 3-step Stormwater Management review and permitting process as outlined in the Plan Preparation Package.

Applicant's Response

The Applicant has initiated the Stormwater Management review and permitting process.

Environmental Planning

1. Advisory comment: Per the Maryland State Forest Conservation Technical Manual, this project is considered a linear project and may be exempt from the Forest Conservation Ordinance with the same conditions as a single existing lot exemption if less than 20,000 square feet of forest is disturbed. If the project clears/disturbs less than 20,000 square feet of forest, it will be exempt from the Forest Conservation Ordinance and a completed Declaration of Intent form for this exemption will be required with the Site Development Plan application.

Applicant's Response

The Declaration of Intent will be provided as part of the Site Development Plan application. The Applicant has added a note on Sheet C-1 (Note 6) which states that the total limit of disturbance is 37,800 SF and the total disturbed forest area is 29,796 SF.

RCC Consultant - Gary Whitley

1. The site drawings show that future carriers will be located **outside** of the proposed fence compound. The trees will not be cleared to accommodate future carrier ground equipment. Further, there is no indication if Verizon has legal rights to this area, or if future tenants will be required to negotiate an independent lease with the property owner. This may be getting too far into the weeds for my review, but certainly speaks to the intent and compliance with the ordinance for co-location of future carriers.

Applicant's Response

In an effort to minimize the amount of tree clearing required to accommodate the facility and ancillary compound, the Applicant has designed the compound for its equipment only at this point. The monopole is designed for two (2) future collocating wireless carriers. When a future collocating wireless carrier pursues a spot on this facility, then the leased area will need to be expanded and the lease amended.

2. The transmit antenna parameters were not provided: Transmit frequency, and Effective Radiated Power (ERP). This information is needed in order to evaluate the potential for interference with public safety 800MHZ.

Applicant's Response

Transmit frequency:	776-787, 880-894, 1975-1985, 2120-2130, 2130-2135 MHz Tx
Effective Radiated Power (ERP):	500 watts

3. Verizon indicates that they have submitted FCC form 620 for NEPA and NHPO review. I assume the NEPA checklist process has not been completed.

Applicant's Response

The NEPA report and NRC form are attached.

4. The FAA notification was not included in the package I received. Verizon should submit a verification showing if FAA filing is required.

Applicant's Response

The Federal Airways & Airspace Summary Report for New Construction/ Antenna Structure is attached and documents that the proposed construction does not meet or exceed the criteria which determines when notification needs to be provided to the FAA. No notification of the FAA is required.

Resource & Infrastructure Management (RIM)

1. Hawthorne Road is spelled incorrectly on both Site Plan and Boundary plan. The road also needs to be labeled with its state route number, Maryland Route 225 (MD 225).

Applicant's Response

The spelling of Hawthorne Road has been corrected on both Sheet C-1 and Sheet C-2 of the Zoning Drawings. Hawthorne Road is also labeled as Maryland State Route 225 (MD 225) on both Sheet C-1 and Sheet C-2.

2. The site is located off private driveway/roadway Bivins Place, which receives its public access from Maryland State Route 225, aka Hawthorne Road, a state-owned and maintained roadway. Therefore, please provide a copy of the Application packet to the Maryland State Highway Administration, c/o Mr. Pranoy Choudhury.

Applicant's Response

Mr. Pranoy Choudhury of the Maryland State Highway Administration confirmed that the proposal was approved and that there was no direct access to a State road.

Please contact me if there is anything additional we can provide and thank you for your assistance throughout this process.

Sincerely,



Tracy L. Themak
Agent for the Applicant

Attachments:

- (1) Revised Zoning Drawings dated 11/7/14
- (2) NEPA Report & NRC Form
- (3) FAA Airspace Report



**NEPA APPROVAL
NEPA REGULATORY COMPLIANCE (NRC)**

Review Date:	07/11/2014
Site Name:	Silver Oak
Location Code:	253809
EnSite #:	18110
Site Address:	north of 6260 Bivins Place
	La Plata, MD
Candidate Type:	Raw Land - New Build
Tower Type/Height:	199-foot Monopole Communications Tower
Latitude/Longitude:	N 38 32 44.27 / W 76 59 40.96
Report Type Reviewed:	<input checked="" type="checkbox"/> NEPA <input type="checkbox"/> Section 106 Review <input type="checkbox"/> EA <input type="checkbox"/> New Collocation Review – Tower Structure <input type="checkbox"/> New Collocation Review – Non-Tower Structure <input type="checkbox"/> Existing Site Modification Review – Tower Structure <input type="checkbox"/> Existing Site Modification Review – Non-Tower Structure <input type="checkbox"/> Other – Describe:
Special Approval Received:	<input type="checkbox"/> FONSI – Date:
Report/Review Status:	Approved
Notes/Special Provisions:	
<p><i>Archaeological and Historical Resources or Indian Religious Sites: If materials are encountered prior to or during construction of the facilities, SHPO, tribes, and other consulting parties must be contacted (NPA, Appendix C, Section IX.).</i></p> <p><i>Project Changes: Consulting parties must be notified of project revisions as requested.</i></p> <p><i>The Maryland Department of Natural Resources (MDDNR) strongly encouraged that forest habitat not be removed or disturbed during February-August, which is the breeding season for most Forest Interior Dwelling Bird species. (See NEPA Review report PDF pgs. 4, 8, and 11; Appendix C PDF pgs. 56-57, MDDNR reply).</i></p>	

Cellco Partnership and its controlled affiliates doing business as Verizon Wireless

Federal Communications Commission
NEPA Review

Silver Oak

north of 6260 Bivins Place

La Plata, Charles County, MD

N 38-32-44.27 / W 76-59-40.96

*Raw-Land-New Build, 199-foot Monopole
Communications Tower Site*

Project: 609325 - EnSite #18110

June 20, 2014

Trileaf Corporation

TABLE OF CONTENTS

	EXECUTIVE SUMMARY	1
1.0	NEPA SCOPE SERVICES	2
1.1	INTRODUCTION	2
1.2	BACKGROUND AND PURPOSE	2
1.3	SCOPE OF WORK	2
1.4	LIMITATIONS	3
	1.4.1 <i>Scope of Activity</i>	3
	1.4.2 <i>Use of This Report</i>	3
2.0	NEPA REVIEW	4
2.1	SITE LOCATION AND DESCRIPTION	4
2.2	PROJECT DESCRIPTION	4
2.3	NEPA TOPICS	4
	2.3.1 <i>Wilderness Areas</i>	4
	2.3.2 <i>Wildlife Preserves</i>	4
	2.3.3 <i>Protected Species</i>	5
	2.3.4 <i>Archaeological and Historical Resources</i>	5
	2.3.5 <i>Indian Religious Sites</i>	6
	2.3.6 <i>Floodplains</i>	6
	2.3.7 <i>Surface Features</i>	7
3.0	CONCLUSIONS	8
4.0	QUALIFICATIONS OF PERSONNEL	9

APPENDICES

- A *Site Figures*
- B *Site Photographs*
- C *NEPA Supporting Documents*
 - U.S. Fish and Wildlife Service*
 - Correspondence*
 - Other Related Natural Resource Agency Documentation*
 - Complete NPA 620 Submittal*
 - Related Follow-up Consulting Party Correspondence*
 - State Historic Preservation Office*
 - SHPO Reply Letter*
 - E106 Filing Confirmation*
 - Other Related Documentation*
 - Tribal Coordination*
 - Tribal Summary*
 - Tribal Replies*
 - Tribal Coordination Certification Letter*
 - Federal Emergency Management Agency*
 - Flood Insurance Rate Map*
 - Other Related Documentation*
 - U.S. Army Corps of Engineers*
 - National Wetland Inventory Map*
 - Other Related Documentation*
- D *Qualifications of Personnel*

<i>Executive Summary</i>	
Site Name:	Silver Oak (EnSite #18110)
Raw-Land-New Build:	Raw-Land-New Build, 199-foot Monopole Communications Tower Site
Site Address:	north of 6260 Bivins Place, La Plata, Charles County, MD 20646
Latitude / Longitude (NAD83):	N 38-32-44.27 / W 76-59-40.96
USGS 7.5-Minute Series Topographic Quadrangle:	La Plata Quadrangle, MD (1993)
<i>FCC Topics</i>	<i>Findings</i>
Will the facility be located in an officially designated wilderness area?	No
Will the facility be located in an officially designated wildlife preserve?	No
Will the facility affect listed or proposed threatened or endangered species or designated critical habitats?	No (See Section 2.3.3)
Will the facility affect districts, sites, buildings, structures or objects significant in American history, architecture, archeology, engineering or culture, that are listed, or eligible for listing, in the National Register of Historic Places?	No
Will the facility affect an Indian religious site?	No
Will the facility be located in a 100-year floodplain?	No
Will construction of the facility involve significant change in surface features (e.g. wetland fill, water diversion or deforestation)?	No
Will the preparation and filing of an Environmental Assessment (EA) be required for Silver Oak (EnSite #18110)?	No

1.0 NEPA SCOPE SERVICES

1.1 INTRODUCTION

The National Environmental Policy Act (NEPA) of 1969 requires all federal agencies to evaluate the potential impacts to the environment of projects under their jurisdiction. The Federal Communications Commission (FCC) rules for implementing NEPA are found in Title 47 CFR, Part 1, Subpart I, rule sections 1.1301 to 1.1319.

In addition, Section 106 of the National Historic Preservation Act of 1966, as codified at 36 CFR Part 800, regulates assessment of cultural resources for all federal undertakings. The Nationwide Programmatic Agreement for the Collocation of Wireless Antennas (47 CFR Part 1, Appendix B) and the Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process (47 CFR Part 1, Appendix C) further stipulate the review process for cultural resources and amend 47 CFR, Part 1, Subpart I, rule section 1.1307(a)(4).

1.2 BACKGROUND AND PURPOSE

Trileaf Corporation conducted this NEPA Review pursuant to 47 CFR 1.1301-1.1319, as amended. The report includes the evaluation of project impacts to prehistoric and historic resources (archaeological sites, historic structures, and Indian religious sites), threatened or endangered species (protected listed, candidate, and critical habitat), migratory birds, wilderness areas, wildlife preserves, floodplains, and surface features (wetlands, water bodies and forested land).

The FCC rules and regulations also address project impacts to humans from tower lighting and radiofrequency radiation, which are evaluated by the tower owner and/or applicant and are not part of this scope of work.

1.3 SCOPE OF WORK

This NEPA Review has been completed based upon Verizon Wireless-provided site information, the review of readily available information obtained from commercial services, government agencies, and/or other sources as described herein. Throughout this report, the term "the Site" will be used to refer to the proposed site location and associated facilities.

This NEPA Review identifies whether a proposed facility will require the preparation and filing of an Environmental Assessment (EA) in accordance with FCC rules and regulations.

If any of the questions in Section 2.0 of this Review are found to be in the affirmative, an EA must be filed with the FCC to further evaluate the identified potential environmental impacts. In the event that this Review results in the preparation and filing of an EA, the FCC must issue a finding of no significant impact (FONSI) prior to proceeding with the proposed project.

1.4 LIMITATIONS

1.4.1 *Scope of Activity*

This NEPA Review is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limits of the existing data, scope of work, budget and schedule. To the extent that more definitive conclusions are desired by Verizon Wireless than are warranted by the currently available facts, it is specifically Trileaf Corporation intent that the conclusions and recommendations stated herein will be intended as guidance and not necessarily a firm course of action except where explicitly stated as such. Trileaf Corporation makes no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose. In addition, the information provided to the Verizon Wireless in this report is not to be construed as legal advice.

1.4.2 *Use of This Report*

Trileaf Corporation is not engaged in environmental assessing and reporting for the purpose of advertising, sales promotion, or endorsement of any Verizon Wireless interests, including raising investment capital, recommending investment decisions, or other publicity purposes. Verizon Wireless acknowledges this report has been prepared for the exclusive use of Verizon Wireless and agrees that Trileaf Corporation reports or correspondence will not be used or reproduced in full or in part for such purposes, and may not be used or relied upon in any prospectus or offering circular. Verizon Wireless also agrees that none of its advertising, sales promotion, or other publicity matter containing information obtained from this audit and report will mention or imply the name of Trileaf Corporation.

Nothing contained in this report shall be construed as a warranty or affirmation by Trileaf Corporation that the Site and property described in the report are suitable collateral for any loan or that acquisition of such property by any lender through foreclosure proceedings or otherwise will not expose the lender to potential environmental liability.

2.0 NEPA REVIEW

2.1 SITE LOCATION AND DESCRIPTION

The Site location is north of 6260 Bivins Place, La Plata, Charles County, MD 20646. The Site's latitude and longitude are N 38-32-44.27 / W 76-59-40.96 (NAD83). The Site is currently forest. The areas surrounding the Site currently consist predominantly of forest interspersed with sparse residential development. A Site Topographic Map and Site Plans are presented in Appendix A.

On November 25, 2013, Jon Owens of Trileaf Corporation conducted a Site visit. Site photographs obtained during the Site visit are provided in Appendix B.

2.2 PROJECT DESCRIPTION

This project involves the review of a proposed Raw Land-New Build 199-foot Monopole Communications Tower.

2.3 NEPA TOPICS

2.3.1 Wilderness Areas

Will the facility be located in an officially designated wilderness area?

No

Source: Site observations, U.S. Geological Survey (USGS) 7.5-Minute Series Topographic Quadrangle, and review of *www.wilderness.net* (Appendix C).

Finding(s): The proposed facility is not located in an officially designated wilderness area.

2.3.2 Wildlife Preserves

Will the facility be located in an officially designated wildlife preserve?

No

Source: Site observations, U.S. Geological Survey (USGS) 7.5-Minute Series Topographic Quadrangle, and review of the U.S. Fish and Wildlife Service (USFWS) Wildlife Refuge Mapping System (Appendix C).

Finding(s): The proposed facility is not located in an officially designated wildlife preserve.

2.3.3 *Protected Species*

Will the facility affect listed or proposed threatened or endangered species or designated critical habitats?

No

Source: Site observations, categorical clearance from the U.S. Fish and Wildlife Service (USFWS), and consultation with the Maryland Department of Natural Resources (MDDNR) (Appendix C).

Finding(s): There are no federally listed threatened or endangered species or critical habitat present at the Site that would be adversely affected by the proposed project. Therefore, the project will have no effect on protected species and critical habitat.

USFWS recommendations published in Interim Guidelines for Recommendations on Communication Tower Siting, Construction, Operation, and Decommissioning (2000) state the preferred tower height to decrease potential effects on migratory birds is less than 200 feet tall. The siting and design process for this project could not conform to all the USFWS recommendations. Therefore, it has included mitigating factors such as tower siting in minimally sensitive areas, limiting tower height to 199 feet, and eliminating the need for guy wires or FAA obstruction lighting.

The MDDNR noted that the project site contains habitat for Forest Interior Dwelling Bird species (FIDS). The MDDNR strongly encourages the conservation of FIDS habitat, and provided several guidelines on how best to preserve this habitat. Though the siting and design process for this project could not conform to all the MDDNR guidelines, it has included mitigating factors such as concentrating development on the perimeter of the forest, limiting forest removal to the "footprint" of the site and to that which is necessary for the placement of roads and driveways, minimizing the number and length of driveways and roads, and maintaining forest habitat up to the edges of roads and driveways.

Special Provision: On May 29, 2014, the MDDNR strongly encouraged that forest habitat not be removed or disturbed during February-August, which is the breeding season for most Forest Interior Dwelling Bird species. As of the date of this report, Verizon Wireless has not yet selected a date for the start of construction.

2.3.4 *Archaeological and Historical Resources*

Will the facility affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed, or are eligible for listing, in the National Register of Historic Places?

No

Source: Review of State Historic Preservation Office (SHPO) files, archaeological testing, public involvement, and Local Government and SHPO consultation (Appendix C).

Finding(s): Based on the information provided, SHPO finds that this project will have No Historic Properties in the Direct Area of Potential Effect (APE) and No Effect on Historic Properties in the Visual APE, including on any sites, structures or objects listed on, or determined eligible for listing on the National Register of Historic Places.

In the event that archaeological materials are encountered prior to or during construction of the facilities, SHPO, tribes and other consulting parties must be contacted. Archaeological materials consist of any items, fifty years or older, which were made or used by man. These items include stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal and glass objects, and human skeletal remains. These materials may be present on the ground surface and/or under the ground.

2.3.5 Indian Religious Sites

Will the facility affect Indian religious sites?

No

Source: Map location review, Indian Reservations in the Continental United States, Bureau of Indian Affairs Map, and consultation with federally recognized tribes (Appendix C).

Finding(s): Due to the nature of this undertaking little potential exists for effects to Indian Religious sites. Current land use in the surrounding area was considered. It was determined through this review and tribal consultation, as outlined in the NPA, that the above referenced project is unlikely to affect Indian religious sites.

In the event that archaeological materials are encountered prior to or during construction of the facilities, SHPO, tribes and other consulting parties must be contacted. Archaeological materials consist of any items, fifty years or older, which were made or used by man. These items include stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal and glass objects, and human skeletal remains. These materials may be present on the ground surface and/or under the ground.

2.3.6 Floodplains

Will the facility be located in a 100-year floodplain?

No

Source: Site observations and Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), Panel 24017C0186C, September 4, 2013 (Appendix C).

Finding(s): No 100-year flood hazards are identified on the FIRM map for the proposed Site.

2.3.7 *Surface Features*

Will construction of the facility involve a significant change in surface features (e.g. wetland fill, water diversion, or deforestation)?

No

Source: Site observations, U.S. Geological Survey (USGS) 7.5-Minute Series Topographic Quadrangle, Natural Resources Conservation Service (NRCS) Soil Survey and U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) map (Appendix C).

Finding(s): Due to the scope of the proposed project activities, the current Site conditions and review of applicable source data, significant changes in surface features such as wetland fill, water diversion or deforestation will not be required at the Site.

3.0 CONCLUSIONS

A NEPA Review of the proposed Silver Oak communications tower was performed by Trileaf Corporation in conformance with the FCC rules and regulations for implementing NEPA; 47 CFR 1.1301 to 1.1319.

Special Provision: On May 29, 2014, the MDDNR strongly encouraged that forest habitat not be removed or disturbed during February-August, which is the breeding season for most Forest Interior Dwelling Bird species. As of the date of this report, Verizon Wireless has not yet selected a date for the start of construction.

Based on the data obtained during the Site visit, the review of readily available information from commercial services, government agencies and/or other sources, the preparation and filing of an EA will not be required.

```

*****
*                               *
*                               * Federal Airways & Airspace
*                               *
*                               * Summary Report: New Construction
*                               *
*                               * Antenna Structure
*                               *
*****

```

```

Airspace User: Lisa Hayden

File: SILVEROAK

Location: La Plata, MD
Distance: 1.5 Statute Miles
Direction: 121° (true bearing)

Latitude: 38°-32'-44.27"           Longitude:
76°-59'-40.96"

```

```

SITE ELEVATION AMSL.....162 ft.
STRUCTURE HEIGHT.....199 ft.
OVERALL HEIGHT AMSL.....361 ft.

```

NOTICE CRITERIA

```

FAR 77.9(a): NNR (DNE 200 ft AGL)
FAR 77.9(b): NNR (DNE Notice Slope)
FAR 77.9(c): NNR (Not a Traverse Way)
FAR 77.9:    NNR FAR 77.9 IFR Straight-In Notice Criteria
for 2W5
FAR 77.9:    NNR FAR 77.9 IFR Straight-In Notice Criteria
for VKX
FAR 77.9(d): NNR (Off Airport Construction)

```

```

NR = Notice Required
NNR = Notice Not Required
PNR = Possible Notice Required (depends upon actual IFR
procedure)

```

```

For new construction review Air Navigation
Facilities at bottom
of this report.

```

```

Notice to the FAA is not required at the analyzed location
and height for
slope, height or Straight-In procedures. Please review the
'Air Navigation'
section for notice requirements for offset IFR procedures
and EMI.

```

OBSTRUCTION STANDARDS

- FAR 77.17(a)(1): DNE 499 ft AGL
- FAR 77.17(a)(2): DNE - Airport Surface
- FAR 77.19(a): DNE - Horizontal Surface
- FAR 77.19(b): DNE - Conical Surface
- FAR 77.19(c): DNE - Primary Surface
- FAR 77.19(d): DNE - Approach Surface
- FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: 2W5: MARYLAND

Type: A RD: 28022.85 RE: 156.4

- FAR 77.17(a)(1): DNE
- FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL.
- VFR Horizontal Surface: DNE
- VFR Conical Surface: DNE
- VFR Approach Slope: DNE
- VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: VKX: POTOMAC AIRFIELD

Type: A RD: 73744.35 RE: 108.9

- FAR 77.17(a)(1): DNE
- FAR 77.17(a)(2): Does Not Apply.
- VFR Horizontal Surface: DNE
- VFR Conical Surface: DNE
- VFR Approach Slope: DNE
- VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)

- FAR 77.17(a)(3) Departure Surface Criteria (40:1)
- DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)

- FAR 77.17(a)(4): DNE - No Airway Found

PRIVATE LANDING FACILITIES

FACIL	BEARING	RANGE
DELTA ARP FAA	To FACIL	IN NM
IDENT TYP NAME		
ELEVATION IFR		
+193	6MD6 HEL CIVISTA MEDICAL CENTER	136.92 1.4
	No Impact to Private Landing Facility Structure is beyond notice limit by 3507 feet.	
+210	5MD8 AIR EDELEN FIELD	193.66 3.38
	No Impact to VFR Transitional Surface. Below surface height of 238 ft above ARP.	

+191 MD83 AIR TY-TI-TO 246.69 3.76

No Impact to VFR Transitional Surface.
Below surface height of 276 ft above ARP.

+321 MD97 AIR LANSEAIR FARMS 205.72 5.61

No Impact to VFR Transitional Surface.
Below surface height of 461 ft above ARP.

AIR NAVIGATION ELECTRONIC FACILITIES

GRND	FAC	ST	DIST	DELTA	APCH	IDNT	TYPE	AT	FREQ	VECTOR	(ft)	ELEVA	ST	LOCATION
ANGLE	BEAR													

.33	DAA	NDB	I	22	322.05	53581	+310	VA	DAVEE					
-----	-----	-----	---	----	--------	-------	------	----	-------	--	--	--	--	--

DAVISON	AA	.33	DAA	NDB	I	322.05	53602	+307	VA	RWY 32				
---------	----	-----	-----	-----	---	--------	-------	------	----	--------	--	--	--	--

DEFENSE ZONE	DCA2	RADAR	Y	38.07	69298	+60	MD	AIR						
--------------	------	-------	---	-------	-------	-----	----	-----	--	--	--	--	--	--

No Impact. This structure does not require Notice based upon EMI.

The studied location is within 20 NM of a Radar facility.
The calculated Radar Line-Of-Sight (LOS) distance is: 45

NM.
This location and height is within the Radar Line-Of-Sight.

DEFENSE ZONE	DCA1	RADAR	ON	6.9	78286	+47	VA	AIR						
--------------	------	-------	----	-----	-------	-----	----	-----	--	--	--	--	--	--

No Impact. This structure does not require Notice based upon EMI.

The studied location is within 20 NM of a Radar facility.
The calculated Radar Line-Of-Sight (LOS) distance is: 45

NM.
This location and height is within the Radar Line-Of-Sight.

.19	DC	NDB	I	33	353.38	80767	+271	DC	OXONN					
-----	----	-----	---	----	--------	-------	------	----	-------	--	--	--	--	--

RONALD REA	DCA	NDB	I	353.38	80767	+271	DC	RWY 01						
------------	-----	-----	---	--------	-------	------	----	--------	--	--	--	--	--	--

NOTTINGHAM	OTT	VORTAC	R	113.7	50.67	92230	+151	MD						
------------	-----	--------	---	-------	-------	-------	------	----	--	--	--	--	--	--

ASDE	ADW	RADAR	Y	15700.	19.42	100268	-74	MD	ANDREWS					
------	-----	-------	---	--------	-------	--------	-----	----	---------	--	--	--	--	--

No Impact. This structure does not require Notice based upon EMI.

The studied location is within 20 NM of a Radar facility.

NM. The calculated Radar Line-Of-Sight (LOS) distance is: 49
 NM. This location and height is within the Radar Line-Of-Sight.

.06	ADW	VORTAC	R	113.1	21.02	102076	+98	MD	ANDREWS
AFB	ADW	RADAR	ON		20.53	103715	+44	MD	ANDREWS
		.02							

No Impact. This structure does not require Notice based upon EMI.
 The studied location is within 20 NM of a Radar facility.
 The calculated Radar Line-Of-Sight (LOS) distance is: 45
 NM.

This location and height is within the Radar Line-Of-Sight.

	DCA	RADAR	ON		354.28	109649	+276	VA	RONALD
REAGAN	WAS	.14							
	DCA	RADAR	ON	15700.	354.28	114295	+283	VA	NATIONAL
ASDE		.14							
	DCA	VOR/DME	R	111.0	354.07	114908	+351	DC	
WASHINGTON		.18							
.10	BRV	VORTAC	R	114.5	233.27	127822	+216	VA	BROOKE
	NHK	RADAR	Y		118.49	189618	+247	MD	PATUXENT
RIVER NA		.07							
.10	PXT	VORTAC	R	117.6	119.05	194499	+341	MD	PATUXENT
.02	AML	VOR/DME	R	113.5	316.6	195428	+64	VA	ARMEL
ASDE	IAD	RADAR	Y	15700.	319.01	196466	-271	DC	DULLES
		-.08							
	IAD	RADAR	ON	2780.	318.37	200654	+20	VA	
WASHINGTON	DULLES	.01							
0.00	FCC	FCC MONITOR	Y		12.31	230973	+0	MD	LAUREL
Plains	QPL	RADAR ARSR	Y	1260.9	301.46	236413	-1070	VA	The
		-.26							

FCC AM PROOF-OF-PERFORMANCE

REQUIRED: Structure is near a FCC licensed AM radio station Proof-of-Performance is required. Please review AM Station Report for details.

Nearest AM Station: WKIK @ 265 meters.

Airspace® Summary Version 14.1.350

AIRSPACE® and TERPS® are registered ® trademarks of Federal Airways & Airspace®