

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
VOR STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.23**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> 2W2	<u>PROCEDURE NAME</u> VOR-A	<u>ORIGINAL/AMENDMENT</u> 5	<u>CITY</u> WESTMINSTER	<u>STATE</u> MD
<u>AIRPORT ELEVATION</u> 799	<u>TDZE</u>	<u>SUPERSEDED</u> VOR-A	<u>ORIGINAL/AMENDMENT</u> 4B	<u>DATED</u> 01/27/2022
<u>FACILITY</u> EMI	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 8W
				<u>EPOCH YEAR</u> 1965
				<u>CANCEL/SUSPEND</u>

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
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**MISSED APPROACH**

**MAP:**

2.44 NM AFTER EMI VORTAC OR AT ZUXET/EMI 2.44 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 2600 DIRECT EMI VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- |              |                                       |                |            |                  |      |                   |   |          |                  |
|--------------|---------------------------------------|----------------|------------|------------------|------|-------------------|---|----------|------------------|
| 1. PT        | L                                     | SIDE OF COURSE | 055.11     | OUTBOUND         | 2600 | FT WITHIN         | 5 | MILES OF | EMI VORTAC (IAF) |
| 2.           |                                       |                |            |                  |      |                   |   |          |                  |
| 3. FAC:      | 235.11                                | FAF:           | EMI VORTAC | DIST FAF TO MAP: | 2.44 | DIST FAF TO THLD: |   |          |                  |
| 4. MIN ALT:  | EMI VORTAC 1900                       |                |            |                  |      |                   |   |          |                  |
| 8. MSA FROM: | EMI VORTAC 045-225 2600, 225-045 3400 |                |            |                  |      |                   |   |          |                  |

**NOTES:**

CHART NOTE: PROCEDURE NA AT NIGHT.  
CHART NOTE: USE DMW ALTIMETER SETTING; WHEN NOT RECEIVED, USE GAI ALTIMETER SETTING AND INCREASE MDAS 60 FEET..

**ADDITIONAL FLIGHT DATA:**

CHART DMW AWOS-3.  
HOLD NE, RT, 235.11 INBOUND.  
FAS OBST: 1040 AAO 392924N/0765824W.



**MINIMUMS:**

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
CIRCLING	1320	1	521		NA			NA			NA				

**CHANGES - REASONS**

1. MISSED APPROACH POINT: CHANGED FROM: "2.43 NM AFTER EMI VORTAC" TO: "2.44 NM AFTER EMI VORTAC OR AT ZUXET/EMI 2.44 DME" - NEW EVALUATION, CHANGE IN MISSED APPROACH PROCEDURE.
2. MISSED APPROACH INSTRUCTIONS: CHANGED FROM: "CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 2600 DIRECT EMI VORTAC AND HOLD" TO: "CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 2600 DIRECT EMI VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD." - CLIMB IN HOLD EVALUATION REQUIRED.
3. PROFILE LINE 3: DIST FAF TO MAP: CHANGED FROM: "2.43" TO: "2.44" - MISSED APPROACH CHANGED
4. NOTE: "NOTES: USE CARROLL COUNTY REGIONAL/JACK POAGE FIELD ALTIMETER SETTING" TO: "CHART NOTE: USE DMW ALTIMETER SETTING; WHEN NOT RECEIVED, USE GAI ALTIMETER SETTING AND INCREASE MDAS 60 FEET." - 8260.19J 8-3-4D.(2).
5. ADDED: CHART DMW AWOS-3. - PRIMART ALTIMETER FROM REMOTE SOURCE. 8260.19J 8-2-4B(3).
6. MISSED APPROACH HOLDING: CHANGED FROM: "HOLD S.LT, 359 INBOUND." TO: "HOLD NE, RT, 235.11 INBOUND." - EMI VORTAC R-179 UNUSABLE.
7. FAS OBSTACLE UPDATED FROM: "927' TREE 392741/0770013" TO: "991 AAO 392936N/0765951W." - NEW OBSTACLE EVALUATION OF APPROACH.
8. 7:1 AAO: ADDED "1040 AAO 392924N/0765824W." TO ADDITIONAL FLIGHT DATA. - NEW EVALUATION OF PROCEDURE.

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA

**OTHER:** AMGR, ZDC ARTCC, ZNY ARTCC, PCT APP CON, MD AVIATION ADM (MAA).

**FLIGHT CHECKED BY**

MICHAEL G CAMPBELL

Digitally signed by  
**CASIMIR L TABAKA**

Jul 29, 2025

**OFFICE**

AJF

**DATE**

07/21/2025

**DEVELOPED BY**

JACOB CLARK

Digitally signed by  
**JACOB H CLARK**  
Mar 13, 2025

**OFFICE**

AJV-A423

**DATE**

11/26/2024

**APPROVED BY**

CASIMIR L. TABAKA

Digitally signed by  
**CASIMIR L TABAKA**  
Jul 29, 2025

**OFFICE**

AJV-A423

**DATE**

**TITLE**  
MANAGER



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> 2W2	<u>PROCEDURE NAME</u> VOR-A	<u>AMDT NO.</u> 5	<u>CITY</u> WESTMINSTER	<u>STATE</u> MD	<u>AIRPORT ELEVATION</u> 799	<u>FACILITY</u> EMI
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**PART A: OBSTRUCTION DATA SEGMENTS**

INTERMEDIATE: PT

FROM  
5 NM

TO  
EMI VORTAC

<u>RNP</u>	<u>DISTANCE</u> 5.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	393021.00N/0765836.00W	1090	215	8	4B	500					1600
TERRAIN	393021.00N/0765836.00W	889 (900)								AS1000	1900

**COMPUTATIONS**

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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**SEGMENT REMARKS:**

**FINAL**

FROM  
EMI VORTAC

TO  
2.44 NM AFTER EMI VORTAC OR AT ZUXET/EMI 2.44 DME

<u>RNP</u>	<u>DISTANCE</u> 2.44	<u>PAT</u>	<u>MAP</u> 2.44 NM AFTER EMI VORTAC OR AT ZUXET/EMI 2.44 DME	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	392924.00N/0765824.00W	1040	215	8	4B	250				RA21	1320

**COMPUTATIONS**

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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**SEGMENT REMARKS:**



**AIRPORT ID**  
2W2

**PROCEDURE NAME**  
VOR-A

**AMDT NO.**  
5

**CITY**  
WESTMINSTER

**STATE**  
MD

**AIRPORT ELEVATION**  
799

**FACILITY**  
EMI

**ENTRY ZONE**

**FROM**  
EMI VORTAC

**TO**  
5 NM

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (24-000651)	392847.57N/0770439.76W	1112	20	3	1A	1000				AT488	2600
TERRAIN	392615.00N/0770615.00W	895 (900)								AS1500	2400

**COMPUTATIONS**

ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**

**PROCEDURE TURN**

**FROM**  
EMI VORTAC

**TO**  
5 NM

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (24-000503)	393659.00N/0765136.00W	1598	500	125	5E	1000					2600
TERRAIN	394221.00N/0765524.00W	1118 (1100)								AS1500	2600

**COMPUTATIONS**

ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**



**AIRPORT ID**  
2W2

**PROCEDURE NAME**  
VOR-A

**AMDT NO.**  
5

**CITY**  
WESTMINSTER

**STATE**  
MD

**AIRPORT ELEVATION**  
799

**FACILITY**  
EMI

**MISSED APPROACH**

**FROM**  
2.44 NM AFTER EMI VORTAC OR AT ZUXET/EMI 2.44 DME

**TO**  
EMI VORTAC

**RNP**                      **DISTANCE**                      **PAT**                      **MAP**                      **HAT**                      **HMAS**  
1049

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
							ASC				
AAO	392715.00N/0770315.00W	1070	215	8	4B	1000					2600
TERRAIN	392748.00N/0770230.00W	879 (900)								AS1500	2400

**COMPUTATIONS**

**ALT**    **KIAS**    **KTAS**    **HAA**    **VKTW**    **TR**    **BA**    **DTA**    **COURSE CHANGE**    **DVEB**    **VEB OCS**    **RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**CIRCLING**     ALL CATS     CAT A     CAT B     CAT C     CAT D     CAT E     NOT AUTHORIZED

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>RADIUS</b>	<b>HAA</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
CATEGORY A											
TREE	392748.00N/0770227.00W	1.30	521	980	250	10	4B	300		RA21	1320

**CIRCLING REMARKS:**

**MSA**

**CENTER**                                      **RADIUS**  
EMI VORTAC                                      25

<b>SECTOR</b>	<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>BEARING</b>	<b>DISTANCE</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
045-225	TOWER (24-000503)	393659.00N/0765136.00W	045	9.1	1598	500	125	5E	1000			2600
225-045	TOWER (24-000052)	394147.00N/0773045.00W	304	27.5	2385	50	50	2D	1000			3400

**MSA REMARKS:**

**NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:**



**AIRPORT ID**  
2W2

**PROCEDURE NAME**  
VOR-A

**AMDT NO.**  
5

**CITY**  
WESTMINSTER

**STATE**  
MD

**AIRPORT ELEVATION**  
799

**FACILITY**  
EMI

**PART B: SUPPLEMENTAL DATA**

**COMMUNICATIONS WITH**

PCT APP CON, ZNY ARTCC, LEESBURG FSS

**WX SERVICE**  
AWOS-3

**LOCATION**  
DMW

**HRS OPERATION**  
24

**ALTIMETER SOURCE**  
DMW

**DISTANCE**  
8.48

**WMSCR**  
Y

**ADJUSTMENTS**  
21

**BACK-UP WX SERVICE**  
AWOS-3PT

**LOCATION**  
GAI

**HRS OPERATION**  
24

**ALTIMETER SOURCE**  
GAI

**DISTANCE**  
19.20

**WMSCR**  
Y

**ADJUSTMENTS**  
81

**WX REMARKS:**

PRIMARY ALTIMETER

PRESSURE PATTERNS THE SAME  
K2W2 799, KDMW 789  
RA= 20.9

SECONDARY ALTIMETER

PRESSURE PATTERNS THE SAME  
K2W2 799, KGAI 539  
RA=80.6

**PRIMARY NAVAID**  
EMI VORTAC

**MONITOR POINT**  
LEESBURG FSS

**HRS OPERATION**  
24 HRS

**CAT**  
1

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14 - LIRLNSTD (PCL)	NPI-G	
RW32 - LIRLNSTD (PCL)	NPI-G	

GLIDESLOPE ANGLE

ELEV RWY THRESHOLD

TCH

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

TCH

**FINAL APPROACH COURSE AIMING**

RUNWAY THRESHOLD   
ON CENTERLINE

FT FROM THRESHOLD  
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

**CRITICAL TEMPERATURES**

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

**CRITICAL TEMPERATURE REMARKS:**

**"VISUAL PORTION OF FINAL" PENETRATIONS**

**PENETRATIONS REMARKS:**

NO SURVEY, 20:1 ASSUMED.



**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or

**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

**PENETRATIONS REMARKS:**

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION HEIGHT: 100 FT.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

**PART D: AIRSPACE**

**DOCKET #**

**ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE**

<b>DISTANCE FROM</b>	ARP	<b>TO 1000FT POINT</b>	2.11
<b>WIDTH OF</b>	FINAL	<b>SEGMENT AT 1000FT POINT</b>	2.28
<b>TRUE COURSE OF</b>	FINAL	<b>SEGMENT CONTAINING 1000FT POINT</b>	227.11
<b>HIGH TERRAIN IN</b>	FINAL	<b>SEGMENT CONTAINING 1000FT POINT</b>	800
<b>DISTANCE FROM</b>	FAF	<b>TO 1500FT POINT</b>	4.00
<b>WIDTH OF</b>	INTERMEDIATE	<b>SEGMENT AT 1500FT POINT</b>	2.30
<b>TRUE COURSE OF</b>	INTERMEDIATE	<b>SEGMENT CONTAINING 1500FT POINT</b>	227.11
<b>HIGH TERRAIN IN</b>	INTERMEDIATE	<b>SEGMENT CONTAINING 1500FT POINT</b>	900

**THRESHOLD COORDINATES (IF STR-IN)**

<b>ARP COORDINATES</b>	392801.27N/0770102.76W
<b>RUNWAY APCH END AND DIST FURTHEST FROM ARP</b>	RUNWAY 32 DISTANCE 0.15 NM
<b>FAF COORDINATES</b>	392942.03N/0765842.86W
<b>FIX NAME COORDINATES</b>	

**REMARKS**

NO ADDITIONAL AIRSPACE REQUIRED.

**PART E: PREPARED BY**

<b>NAME</b>	<b>OFFICE</b>	<b>DATE</b>	<b>TITLE</b>
JACOB CLARK	AJV-A423	11/26/2024	AERONAUTICAL INFORMATION SPECIALIST

