

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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> 413	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> MOUNT VERNON	<u>STATE</u> OH
<u>AIRPORT ELEVATION</u> 1192	<u>TDZE</u> 1192	<u>SUPERSEDED</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 11/07/2019
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 6W
				<u>EPOCH YEAR</u> 1990
				<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>
APE VORTAC		JUPUK		TF	FB	1.00	288.81	11.66	3000
JUPUK	IAF	BONIF	NOPT	TF	FB	1.00	013.48	9.90	3000
USUDE	IAF	BONIF	NOPT	TF	FB	1.00	193.51	5.60	3000
GUNNE	IAF	BONIF	NOPT	TF	FB	1.00	096.95	19.52	3000
BONIF	IF/IAF	ETMEW		TF	FB	1.00	103.50	7.00	3000
ETMEW	FAF	RINGR/2.70 NM TO RW10		TF	FB	0.30	103.60	2.87	
RINGR/2.70 NM TO RW10		RW10	MAP	TF	FO	0.30	103.60	2.70	
RW10	MAP	1520 MSL		CA			103.60		
1520 MSL		PATIE		DF	FO	1.00			2800

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2800 DIRECT PATIE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD W BONIF, RT, 103.50 INBOUND, 3000 IN LIEU OF PT (IAF), MAX 6000.					
3. FAC: 103.60	FAF: ETMEW		DIST FAF TO MAP:	5.57	DIST FAF TO THLD: 5.57
4. MIN ALT: BONIF 3000, ETMEW 3000, RINGR/2.70 NM TO RW10 2080					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	328 HAT: 0.92	GS ANT:
6. MIN GP INCPT: 3000	GP ALT AT PFAF: ETMEW 3000			OM:	MM:
7. GP ANGLE: 3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 40.0		IM:
8. MSA FROM: RW10 3100					

QUALITY
29
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON APE VORTAC AIRWAY RADIALS 235 CW 300.
CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 283.87 INBOUND.
CHART FAS OBST: 1354 TREE (39-070067) 402009N/0823526W.
CHART 1721 TOWER (39-002817) 402015N/0823912W, 1361 TREE (39-034340) 401954N/0823551W.
CHART VDP AT 1.23 NM TO RW10.
WAAS CHANNEL # 63123
REFERENCE PATH ID: W10A
LTP HAE: 328 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	1520	1	328	1520	1	328	1520	1	328	1520	1	328			
LNAV/VNAV DA	1599	1 1/8	407	1599	1 1/8	407	1599	1 1/8	407	1599	1 1/8	407			
LNAV MDA	1620	1	428	1620	1	428	1620	1 1/4	428	1620	1 1/4	428			



CHANGES - REASONS

1. INCORPORATED CHANGES FROM AMENDMENT 1A AND 1B
2. CHANGED AIRPORT ELEVATION/TDZE FROM "1191" TO "1192". - UPDATED AIRNAV DATA.
3. TERMINAL ROUTES: REMOVED FEEDER LEG SEGMENT MFD VOR TO USUDE. - VOR IS DECOMMISSIONED.
4. TERMINAL ROUTES: CHANGED APE VORTAC RNP FROM "2.0" TO "1.0". - IAW 8260.58 TABLE 1-2-1.
5. TERMINAL ROUTES: CHANGED BONIF TO ETMEW IF/IAF LEG RNP NAVSPEC FROM "0.50" TO 1.0". - IAW 8260.58 TABLE 1-2-1.
6. TERMINAL ROUTES: CHANGED DF LEG FROM "BLANK" TO "1.0". - IAW 8260.58 TABLE 1-2-1.
7. TERMINAL ROUTES: CHANGED RINGR/2.70NM TO RW10 AND RW 10 TO MAP CHANGED COURSE FROM "103.64" TO "103.60". - TARGETS EVALUATION.
8. TERMINAL ROUTES: CA LEG ALTITUDE CHANGED FROM "1512" TO "1520". - LOWEST DA ALTITUDE CHANGED FROM 1512 TO 1520..
9. PROFILE LINE 2: ADDED MAX ALTITUDE 6000 TO HOLD-IN-LIEU AT BONIF. - IAW 8260.19 8-6-7B.
10. PROFILE LINE 4: REMOVED THE ASTERISK BEHIND THE 2080.- ASTERISK NO LONGER REQUIRED PER CURRENT CRITERIA.
11. PROFILE LINE 5: ADDED DISTANCE TO 328 HAT: 0.92". - DATA MOVED FROM ADDITIONAL FLIGHT DATA AND NEW OBSTACLE EVALUATION.
12. PROFILE LINE 7: UPDATED 20:1 IS CLEAR. - NEW TARGETS EVALUATION.
13. CHART PLANVIEW NOTE: REMOVED PROCEDURE NA FOR ARRIVAL ON MFD VORTAC AIRWAY RADIALS 142 CW 279. - MFD VORTAC BEING DECOMMISSIONED.
14. NOTES: CHANGED CHART PLANVIEW NOTE: FROM "PROCEDURE NA FOR ARRIVAL ON APE VORTAC AIRWAY RADIALS 235 CW 006" TO "PROCEDURE NA FOR ARRIVAL ON APE VORTAC AIRWAY RADIALS 235 CW 300". - 8260.19 8-2-5 E (2)
15. ADDITIONAL FLIGHT DATA: CHANGED "CHART VDP AT 1.23 MILES TO RW 10* *LNAV ONLY". TO "CHART VDP AT 1.23 NM TO RW 10". - IAW 8260.19 8-6-11M
16. ADDITIONAL FLIGHT DATA: ADDED NEW OBSTACLE: CHART 1721 TOWER (39-002817) 402015N/0823912W. - NEW TARGETS EVALUATION/NEW OBSTACLE.
17. MINIMUMS: RAISED LNAV/VNAV DA FROM "1516/325" TO "1599/407". - NEW TARGETS EVALUATION/NEW OBSTACLE.
18. MINIMUMS: LPV HAT CHANGED FROM "329" TO "328" ALL CATS AND VISIBILITY CHANGED FROM "1 1/8 SM" T "1 SM" ALL CATS.- TDZE CHANGED FROM 1191 TO 1192 AND 8260.3G TABLE 3-3-1.
19. MINIMUMS: LNAV HAT CHANGED FROM "429" TO "428" ALL CATS. - TDZE CHANGED FROM 1191 TO 1192.
20. CHANGED PBN REQUIREMENS NOTE FROM "RNP APCH" TO "RNP APCH- GPS". - IAW 8260.19 8-6-8
21. FAS DATA BLOCK INFORMATION: LTP/FTP LATITUDE/LONGITUDE CHANGED FROM "401947.7165N/0823209.0475W" TO "401947.7185N/0823209.0665W". - UPDATED AIRNAV DATA.
22. FAS DATA BLOCK INFORMATION: CRC REMAINDER CHANGED FROM "D225B660" TO "0E61CC34".- LTP/FTP AND FPAP MOVED/UPDATED AIRNAV DATA.
23. CHANGED CHART NOTE: "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA NEWARK BELOW -17C OR ABOVE 36C". TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C - IAW 8260.19J 8-6-10.R
24. DELETED CHART NOTE BARO-VNAV AND VDP NA WHEN USING NEWARK ALTIMETER SETTING. - RELOCATED NOTE FOR CONTINGENCY USE ON 8260-9.
25. DELETED CHART NOTE: WHEN LOCAL ALTIMETER NOT RECEIVED, USE NEWARK ALTIMETER SETTING AND INCREASED ALL DA 86 FEET AND ALL MDA 100 FEET AND INCREASE LPV ALL CATS, LNAV/VNAV ALL CATS, LNAV CAT C AND D VISIBILITY 1/4 MILE. - RELOCATED NOTE FOR CONTINGENCY USE ON 8260-9.
26. FAS DATA BLOCK INFORMATION: FPAP LAT/LONG CHANGED FROM "401935.7900N/0823013.6000W" TO "401935.7840N/0823013.6125W" - UPDATED SURVEY/AIRNAV DATA.

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZOB, AMGR

FLIGHT CHECKED BY

BRIAN P CARSON

Digitally signed by

ALLAN WILL

Aug 12, 2025

Digitally signed by

ALLAN WILL

Aug 12, 2025

OFFICE

AJF

DATE

08/08/2025

DEVELOPED BY

ERIC N SUSKI (PATRICK DAVIS)

OFFICE

AJV-A431

DATE

03/11/2025

APPROVED BY

ERIC N SUSKI

Digitally signed by

ALLAN WILL

Aug 12, 2025

OFFICE

AJV-A431

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	413
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	401947.7185N
LTP/FTP LONGITUDE	0823209.0665W
LTP/FTP ELLIPSOIDAL HEIGHT	+03280
FPAP LATITUDE	401935.7840N
FPAP LONGITUDE	0823013.6125W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	0E61CC34

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03619
FPAP ORTHOMETRIC HEIGHT	+03619



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
413	RNAV (GPS) RWY 10	1C	MOUNT VERNON	OH	1192	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM APE VORTAC **TO** JUPUK

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	11.66				

<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 (39-002230)	401041.25N/0824144.67W	1573	250	20	4C	1000				AT427	3000
TERRAIN	400903.00N/0823521.00W	1358 (1400)								AS1500	2900

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM JUPUK **TO** BONIF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	9.90				

<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 (39-002418)	402246.70N/0824916.20W	1546	250	50	4D	1000				AT454	3000
TERRAIN	402124.00N/0824824.00W	1161 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM

USUDE

TO

BONIF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	5.60										
<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>
AAO	402336.00N/0824257.00W	1578	215	8	4B	1000				AT422	3000
TERRAIN	402409.00N/0824357.00W	1351 (1400)								AS1500	2900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

GUNNE

TO

BONIF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	19.52										
<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 (39-002418)	402246.70N/0824916.20W	1546	250	50	4D	1000				AT454	3000
TERRAIN	402303.00N/0824857.00W	1154 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

BONIF (IF/IAF)

TO

ETMEW

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	7.00										
<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 (39-002817)	402015.22N/0823912.49W	1721	50	20	2C	500				AT779	3000
TERRAIN	402321.00N/0824233.00W	1427 (1400)								AS1500	2900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM

ETMEW

TO

RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	5.57		DA		328						
<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>
TREE (39-033296)	401954.55N/0823257.71W	1302	20	3	1A		34.00:1			MA64 XP4	1520

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RETAIN CURRENT MINIMUMS

FINAL: LNAV/VNAV

FROM

ETMEW

TO

RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	5.57		DA		407						
<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>
TREE	402021.00N/0823330.00W	1308	215	8	4B		23.40:1			AC8	1599

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

ETMEW

TO

RINGR/2.70 NM TO RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.87										
<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 (39-001415)	402017.00N/0823725.00W	1531	500	50	5D	250				RA100 AC50 DG149	2080

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

RINGR/2.70 NM TO RW10

TO

RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.70		RW10		428						
<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>
TREE (39-070067)	402008.79N/0823525.66W	1354	20	3	1A	250					1620

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

BONIF

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
		P-5									
<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>
AAO	402221.00N/0824257.00W	1624	215	8	4B	1000				AT376	3000
TERRAIN	402221.00N/0824257.00W	1423 (1400)								AS1500	2900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LPV

FROM

DA

TO

PATIE

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 1294				
<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>
TREE (39-033296)	401954.55N/0823257.71W	1302	20	3	1A		ASC				2800
TOWER (39-004151)	401731.53N/0822036.77W	1425	250	50	4D	1000					2500
TERRAIN	402021.00N/0823224.00W	1243 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

PATIE

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 1351				
<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>
							ASC				2800
TOWER (39-004151)	401731.53N/0822036.77W	1425	250	50	4D	1000					2500
TERRAIN	402021.00N/0823224.00W	1243 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW10

TO

PATIE

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u> 1500				
<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>
							ASC				2800
TOWER (39-004151)	401731.53N/0822036.77W	1425	250	50	4D	1000					2500
TERRAIN	402021.00N/0823224.00W	1243 (1200)								AS1500	2700

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

MSA

CENTER

RW10

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (39-000604)	400933.02N/0825522.74W	246	20.5	2049	250	50	4D	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VEGETATION: 100'

TAA NOT DEVELOPED PER FPT.

ISA DEVIATION: -30

LPV, LNAV/VNAV, AND LNAV INTERMEDIATE OBS AND TERRAIN ARE DIFFERENT. HIGHEST UTILIZED FOR ALTITUDE DETERM

CONTINGENCY NOTE: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE VTA ALTIMETER SETTING AND INCREASE LPV DA TO 1607 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 1686 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDAS 100 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM BARO-VNAV AND VDP NA WHEN USING VTA ALTIMETER SETING.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

CMH APP CON, ZOB ARTCC, CLE FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3	413	24	413	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	VTA	24	VTA	18.37	Y	87

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
K413 1192, KVTA 878
RA = 0 / 86.2

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW10 - MIRL (PCL), REIL (PCL), PAPI-4L		NPI-G	
RW28 - MIRL (PCL), REIL (PCL), PAPI-4L		NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	1187.3	40.0			3.00	40.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-17C	+54C	-17C	+12.64C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 971 HIGH TEMP 1281.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LNAV
34:1	
1292 TREE (39-034203) 401953.9500N/0823250.8500W (13.78)	1287 TREE (39-033279) 401953.0600N/0823249.4200W (12.36)
1285 TREE (39-033281) 401952.8400N/0823250.4800W (8.06)	1302 TREE (39-033296) 401954.5500N/0823257.7100W (8.06)
1283 TREE (39-033280) 401953.9400N/0823249.5600W (7.7)	1286 TREE (39-033282) 401951.1100N/0823251.7700W (6.83)
1291 TREE (39-034173) 401954.5800N/0823253.9600W (5.51)	1283 TREE (39-069749) 401954.7600N/0823250.4400W (5.39)



AIRPORT ID 413		PROCEDURE NAME RNAV (GPS) RWY 10	AMDT NO. 1C	CITY MOUNT VERNON	STATE OH	AIRPORT ELEVATION 1192	FACILITY RNAV
1288 TREE (39-034164) 401954.3200N/0823252.7500W (5.35)				1289 TREE (39-034168) 401953.1400N/0823253.5700W (4.96)			
1285 TREE (39-034208) 401951.8200N/0823252.2100W (4.56)				1280 TREE (39-070910) 401955.2100N/0823249.5800W (4.15)			
1281 TREE (39-034202) 401952.0100N/0823251.0400W (3.12)				1298 TREE (39-069859) 401952.7700N/0823258.6100W (2.73)			
1274 TREE (39-034194) 401946.5700N/0823249.2200W (2.4)				1246 TREE (39-070932) 401954.0600N/0823235.5900W (2.19)			
1283 TREE (39-033373) 401952.7300N/0823252.3900W (1.79)				1294 TREE (39-069857) 401955.2700N/0823256.8600W (1.69)			
1278 TREE (39-034200) 401949.9200N/0823250.9900W (1.07)				1296 TREE (39-069858) 401953.6300N/0823258.4000W (0.87)			
1287 TREE (39-034174) 401951.3900N/0823254.8100W (0.86)							
FINAL TYPE	LNAV/VNAV						
34:1							
1292 TREE (39-034203) 401953.9500N/0823250.8500W (13.78)				1287 TREE (39-033279) 401953.0600N/0823249.4200W (12.36)			
1285 TREE (39-033281) 401952.8400N/0823250.4800W (8.06)				1302 TREE (39-033296) 401954.5500N/0823257.7100W (8.06)			
1283 TREE (39-033280) 401953.9400N/0823249.5600W (7.7)				1286 TREE (39-033282) 401951.1100N/0823251.7700W (6.83)			
1291 TREE (39-034173) 401954.5800N/0823253.9600W (5.51)				1283 TREE (39-069749) 401954.7600N/0823250.4400W (5.39)			
1288 TREE (39-034164) 401954.3200N/0823252.7500W (5.35)				1289 TREE (39-034168) 401953.1400N/0823253.5700W (4.96)			
1285 TREE (39-034208) 401951.8200N/0823252.2100W (4.56)				1280 TREE (39-070910) 401955.2100N/0823249.5800W (4.15)			
1281 TREE (39-034202) 401952.0100N/0823251.0400W (3.12)				1298 TREE (39-069859) 401952.7700N/0823258.6100W (2.73)			
1274 TREE (39-034194) 401946.5700N/0823249.2200W (2.4)				1246 TREE (39-070932) 401954.0600N/0823235.5900W (2.19)			
1283 TREE (39-033373) 401952.7300N/0823252.3900W (1.79)				1294 TREE (39-069857) 401955.2700N/0823256.8600W (1.69)			
1278 TREE (39-034200) 401949.9200N/0823250.9900W (1.07)				1296 TREE (39-069858) 401953.6300N/0823258.4000W (0.87)			
1287 TREE (39-034174) 401951.3900N/0823254.8100W (0.86)							
FINAL TYPE	LPV						
34:1							
1292 TREE (39-034203) 401953.9500N/0823250.8500W (13.78)				1287 TREE (39-033279) 401953.0600N/0823249.4200W (12.36)			
1302 TREE (39-033296) 401954.5500N/0823257.7100W (8.06)				1285 TREE (39-033281) 401952.8400N/0823250.4800W (8.06)			
1283 TREE (39-033280) 401953.9400N/0823249.5600W (7.7)				1286 TREE (39-033282) 401951.1100N/0823251.7700W (6.83)			
1291 TREE (39-034173) 401954.5800N/0823253.9600W (5.51)				1283 TREE (39-069749) 401954.7600N/0823250.4400W (5.39)			
1288 TREE (39-034164) 401954.3200N/0823252.7500W (5.35)				1289 TREE (39-034168) 401953.1400N/0823253.5700W (4.96)			
1285 TREE (39-034208) 401951.8200N/0823252.2100W (4.56)				1280 TREE (39-070910) 401955.2100N/0823249.5800W (4.15)			
1281 TREE (39-034202) 401952.0100N/0823251.0400W (3.12)				1298 TREE (39-069859) 401952.7700N/0823258.6100W (2.73)			
1274 TREE (39-034194) 401946.5700N/0823249.2200W (2.4)				1246 TREE (39-070932) 401954.0600N/0823235.5900W (2.19)			
1283 TREE (39-033373) 401952.7300N/0823252.3900W (1.79)				1294 TREE (39-069857) 401955.2700N/0823256.8600W (1.69)			
1278 TREE (39-034200) 401949.9200N/0823250.9900W (1.07)				1296 TREE (39-069858) 401953.6300N/0823258.4000W (0.87)			
1287 TREE (39-034174) 401951.3900N/0823254.8100W (0.86)							
PENETRATIONS REMARKS:							



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.

NO ADDITIONAL AIRSPACE REQUIRED.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1721 TOWER (39-002817) 402015.22N/0823912.49W.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1361 TREE (39-034340) 401953.53N/0823551.22W.

PART D: AIRSPACE

DOCKET #

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

DISTANCE FROM	THLD	TO 1000FT POINT	3.37
WIDTH OF		SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF		SEGMENT CONTAINING 1000FT POINT	.097.60
HIGH TERRAIN IN		SEGMENT CONTAINING 1000FT POINT	1300
DISTANCE FROM		TO 1500FT POINT	5.17
WIDTH OF		SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF		SEGMENT CONTAINING 1500FT POINT	097.60
HIGH TERRAIN IN		SEGMENT CONTAINING 1500FT POINT	1300

THRESHOLD COORDINATES (IF STR-IN)	401947.72N/0823209.07W
ARP COORDINATES	401944.08N/0823133.85W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 10 DISTANCE 0.45 NM
FAF COORDINATES	402032.17N/0823922.02W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
ERIC N SUSKI (PATRICK DAVIS)	AJV-A431	03/11/2025	AERONAUTICAL INFORMATION SPECIALIST