US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CVG VORTAC	ZETAV (FO)	078.23 / 66.90	3000
GAILL (IAF)	ZETAV (NOPT) (FB)	169.69 / 16.24	3000
XUB VOR (IAF)	ZETAV (NOPT) (FB)	239.09 / 20.08	3000
ZETAV (IF/IAF)	JENUG (FB)	234.43 / 7.00	2800
JENUG (FAF)	YIYUL/3.20 NM TO RW23 (FB)	234.36 / 2.50	2000
YIYUL/3.20 NM TO RW23	RW23 (MAP) (FO)	234.36 / 3.20	
(SEE FORM 8260-10)			

MISSED APPROACH

LNAV: RW23
LP: RW23

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3000 DIRECT ZETAV AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NE ZETAV, RT, 234.43 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 234.36 FAF: JENUG DIST FAF TO MAP: 5.70 THLD: 5.70
4. MIN. ALT: ZETAV 3000, JENUG 2800, YIYUL/3.20 NM TO RW23 2000
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR
8. MSA FROM: RW23 2700

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 1217 TOWER 391203N/0833022W
CHART FAS OBST: 1062 TREE 391201N/0833115W
CHART BRUSH CREEK MOA.
CHART BUCKEYE MOA.
WAAS CHANNEL # 97630
REFERENCE PATH ID: W23A
JENUG TO RW23: 3.00/55.
LTP HAE: 251 M

MAG VAR: 5W EPOCH YEAR: 1990

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | X

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LP MDA	1320	1	389	1320	1	389	1320	1 1/8	389	1320	1 1/8	389			
LNAV MDA	1480	1	549	1480	1	549	1480	1 5/8	549	1480	1 5/8	549			
CIRCLING	1500	1	523	1520	1	543	1520	1 5/8	543	1540	2	563			

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GAILL ON V19 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CVG VORTAC AIRWAY RADIALS 010 CW 144.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 977 THRE: 931 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
HILLSBORO, OH	HIGHLAND COUNTY	RNAV	RNAV (GPS) RWY 23, ORIG	AMDT: NONE
				DATED

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**ROUTINE**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[ ]	[X]	[X]	[X]	[X] **ZID ARTCC, ARPT MNGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: **TERENCE D. SHARP (DAVID TEFFETELLER)**	FIFO **AJV-351**	DATE: **05/23/2012**

APPROVED BY		
NAME: **LARRY H STROUT** **MANAGER**	FIFO **AJV-353**	DATE:

CHANGES:

ORIGINAL PROCEDURE

REASONS:

FPT REQUEST

CHANGES TO FORMS MADE OUTSIDE OF IFP-SIAP
8260-3:
1. ADDED (FAF) TO JENUG IN TERMINAL ROUTES FROM COLUMN
2. REMOVED GA ANGLE AND TCH FROM LINE 7
2. CHANGED RW23 / RW23 (MAP) TO READY RW23 (MAP)

8260-9:
1. REMOVED ALL INFORMATION FROM BLOCK 8

8260-10:
1. REMOVED 2.0 FROM MISSED APPROACH

QUALITY CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW23 (MAP)	1600 MSL	234.36	1600
1600 MSL	ZETAV (FO)		3000

NOTES, (CONT.):
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILMINGTON AIR PARK ALTIMETER SETTING AND INCREASE ALL MDA 60FT, INCREASE LNAV CAT C,D VISIBILITY 1/8 MILE, INCREASE LP CAT C,D VISIBILITY 1/4 MILE, AND INCREASE CIRCLING CAT C VISIBILITY 1/8 MILE.
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 23 PROCEDURE NA AT NIGHT
CHART NOTE: CIRCLING TO RWY 05 NA AT NIGHT.
CHART PLANVIEW NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY AT XUB VOR.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 977 THRE: 931	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HILLSBORO, OH	AIRPORT NAME: HIGHLAND COUNTY	RNAV	RNAV (GPS) RWY 23, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHOC
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	391130.8845N
LTP/FTP LONGITUDE	0833202.7060W
LTP/FTP ELLIPSOIDAL HEIGHT	+02510
FPAP LATITUDE	391032.7200N
FPAP LONGITUDE	0833329.5700W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	AEF31A4D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02837
FPAP ORTHOMETRIC HEIGHT	+02837

QUALITY CHECKED

CITY AND STATE	ELEVATION: 977 THRE: 931	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HILLSBORO, OH	AIRPORT NAME: HIGHLAND COUNTY	RNAV	RNAV (GPS) RWY 23, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

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ARINC PACKET - 424-18 - RNAV (GPS)

                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        CVG   K5011730VTL  N39005753W084421205    N39005753W084421205W0040008791     NARCINCINNATI
        SUSAD        XUB   K5011250V T  N39313677W082584059                      W0050     0     NARYELLOW BUD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   GAILL K50    C   L N39352794W083250982                      W0065     NAR           GAILL
        SUSAEAENRT   JENUG K50    W     N39151383W083262913                      W0064     NAR           JENUG
        SUSAEAENRT   YIYUL K50    W     N39133616W083285538                      W0064     NAR           YIYUL
        SUSAEAENRT   ZETAV K50    W     N39194743W083193840                      W0066     NAR           ZETAV

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHOCK5AHOC     0     035YHN39111954W083321965W005000977         1800018000C    MNAR    HIGHLAND COUNTY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHOCK5FR23   ACVG   010CVG  K5D 0V       IF                                                18000                 A JS
        SUSAP KHOCK5FR23   ACVG   020ZETAVK5EA0EY   020TF                    07820669    + 03000                              A JS
        SUSAP KHOCK5FR23   ACVG   030ZETAVK5EA0EE AR   HF                    23440040    + 03000                              A JS
        SUSAP KHOCK5FR23   AGAILL 010GAILLK5EA0E  A    IF                                                18000                 A JS
        SUSAP KHOCK5FR23   AGAILL 020ZETAVK5EA0EE B 010TF                    16970162    + 03000                              A JS
        SUSAP KHOCK5FR23   AXUB   010XUB  K5D 0V  A    IF                                                18000                 A JS
        SUSAP KHOCK5FR23   AXUB   020ZETAVK5EA0EE B 010TF                    23910201    + 03000                              A JS
        SUSAP KHOCK5FR23   R      010ZETAVK5EA0E  I    IF                                + 03000     18000                 A JS
        SUSAP KHOCK5FR23   R      020JENUGK5EA1E  F 051TF                    23440070    + 02800                  RW23  K5PGA JS
        SUSAP KHOCK5FR23   R      020JENUGK5EA2WALP        N          ALNAV                                                    JS
        SUSAP KHOCK5FR23   R      021YIYULK5EA0E S  031TF                    23440025    V 0200002005        -300          A JS
        SUSAP KHOCK5FR23   R      030RW23 K5PG0GY M 031TF                    23440032      00986             -300          A JS
        SUSAP KHOCK5FR23   R      040         0  M     CA                    2344        + 01600                              A JS
        SUSAP KHOCK5FR23   R      050ZETAVK5EA0EY  L   DF                                + 03000                              A JS
        SUSAP KHOCK5FR23   R      060ZETAVK5EA0EE  R   HM                    23440040    + 03000                              A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHOCK5GRW23    0035202343 N39113088W083320271+1300    +0251000931000055075R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
```

QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 977 THRE: 931	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HILLSBORO, OH	AIRPORT NAME: HIGHLAND COUNTY	RNAV	RNAV (GPS) RWY 23, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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```
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHOCK5PR23   RW23 001 0000W23A0N3911308845W08332027060+025100300N3910327200W083332957001067516800005 50F400000AEF31A4D
        SUSAP KHOCK5PR23   RW23 002E      +02837+02837LP        97630

                  1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHOCK5SRW23 K5PG                0   18018002725                                                                          M
```

CITY AND STATE	ELEVATION: 977 THRE: 931	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HILLSBORO, OH	AIRPORT NAME: HIGHLAND COUNTY	RNAV	RNAV (GPS) RWY 23, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CVG	CVG	010		IF		FB					
	CVG	ZETAV	020		TF		FO	2.0	078.2(073.2T)	066.9	AA 03000	
	CVG	ZETAV	030	IAF	HF	R	FO		234.4(229.4T)	004.0	AA 03000	
	GAILL	GAILL	010	IAF	IF		FB					
	GAILL	ZETAV	020		TF		FB	1.0	169.7(164.7T)	016.2	AA 03000	
	XUB	XUB	010	IAF	IF		FB					
	XUB	ZETAV	020		TF		FB	1.0	239.1(234.1T)	020.1	AA 03000	
		ZETAV	010	FACF	IF		FB				AA 03000	
		JENUG	020	FAF	TF		FB	0.5	234.4(229.4T)	007.0	AA 02800	
		YIYUL	021	SDF	TF		FB	0.3	234.4(229.4T)	002.5	AA 02000 GS 02005	
		RW23	030	MAP	TF		FO	0.3	234.4(229.4T)	003.2	AT 00986	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		234.4(229.4T)		AA 01600	
	ZETAV	050		DF	L	FO				AA 03000	
	ZETAV	060		HM	R	FO		234.4(229.4T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CVG	N390057.53	W0844212.05	N3900.959	W08442.201
	XUB	N393136.77	W0825840.59	N3931.613	W08258.677
	GAILL	N393527.94	W0832509.82	N3935.466	W08325.164
	JENUG	N391513.83	W0832629.13	N3915.231	W08326.486
	YIYUL	N391336.16	W0832855.38	N3913.603	W08328.923
	ZETAV	N391947.43	W0831938.40	N3919.791	W08319.640
	RW23	N391130.88	W0833202.71	N3911.515	W08332.045

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW23	00931	55

CITY AND STATE	ELEVATION: 977 THRE: 931	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HILLSBORO, OH	AIRPORT NAME: HIGHLAND COUNTY	RNAV	RNAV (GPS) RWY 23, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	CVG VORTAC	ZETAV	1. TOWER (39-000032)	390726.00N/0843118.00W	1788 (4D)	1000	AT212	3000
			2. TERRAIN	391657.00N/0833621.00W	1228 (1200)		AS1500	2700
INITIAL	GAILL	ZETAV	3. TOWER (39-002647)	392426.80N/0832113.70W	1489 (5D)	1000	AT511	3000
			4. TERRAIN	392003.00N/0831706.00W	1158 (1200)		AS1500	2700
INITIAL	XUB VOR	ZETAV	5. AAO	391748.00N/0831845.00W	1464 (4E)	1000	AT536	3000
			6. TERRAIN	391748.00N/0831845.00W	1264 (1300)		AS1500	2800
INTERMEDIATE	ZETAV (IF/IAF)	JENUG	5. AAO	391748.00N/0831845.00W	1464 (4E)	500	AC98	2100
			6. TERRAIN	391748.00N/0831845.00W	1264 (1300)		AS1500	2800
FINAL: LNAV	JENUG	YIYUL/3.20 NM TO RW23	7. AAO	391416.00N/0832747.00W	1318 (2C)	250	DG372 RA60	2000
FINAL: LP	JENUG	YIYUL/3.20 NM TO RW23	7. AAO	391416.00N/0832747.00W	1318 (2C)	250	DG372 RA60	2000
FINAL: LNAV STEPDOWN	YIYUL/3.20 NM TO RW23	RW23	8. TOWER (39-020249)	391202.74N/0833022.34W	1217 (1A)	250		1480
2. HOLD-IN-LIEU-OF-PT	ZETAV	P-5	3. TOWER (39-002647)	392426.80N/0832113.70W	1489 (5D)	1000	AT511	3000
			10. TERRAIN	391624.00N/0831936.00W	1270 (1300)		AS1500	2800
3. MISSED APPROACH — MAP:	RW23 / RW23	ZETAV				ASC		3000
			11. TOWER (39-004091)	391003.80N/0832935.10W	1347 (4D)	1000		2400
ELEV:	1380/1220		12. TERRAIN	391416.00N/0832747.00W	1118 (1100)		AS1500	2600

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	523	13. TREE	391200.00N/0833030.00W	1199 (2C)	300		1500
CATEGORY B	1.5 NM	450	543	8. TOWER (39-020249)	391202.74N/0833022.34W	1217 (1A)	300		1520
CATEGORY C	1.7 NM	450	543	14. TREE	391134.00N/0833439.00W	1219 (2C)	300		1520
CATEGORY D	2.3 NM	550	563	14. TREE	391134.00N/0833439.00W	1219 (2C)	300	HAA	1540
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW23

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (39-001969)	079/ 14.4	1656 (5E)	2700					

CITY AND STATE	ELEVATION: 977 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HILLSBORO, OH	HIGHLAND COUNTY	RNAV	RNAV (GPS) RWY 23, ORIG	AGL

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ZID APP CON	N W S	OTHER: AWOS-3	SOURCE: KHOC / KILN
	F A A		DISTANCE: 0 / 18.57
	A / C		HOURS REMOTE OPERATION: 24 / 24
SATISFACTORY ON: X V H F X U H F H F	LOCATION: KHOC		ADJUSTMENT: 0 / 60

4. MONITOR STATUS

PRIMARY NAVAID:

MONITOR POINT:

HRS OPTN: CAT 1 / CAT 3

5. APPROACH & RUNWAY LIGHTING

	ALS
	(S) SALS
	MALS
	HIRL
X	MIRL 05 (PCL), 23 (PCL)
X	REIL 23 (PCL)
	TDZ
	C/LINE
X	OTHER (SPECIFY) PAPI-2L 23

6. RUNWAY MARKINGS

BASIC

ALL WEATHER

INSTRUMENT NPI-G 05, 23

7. RUNWAY VISUAL RANGE

APPROACH

MIDFIELD

ROLL OUT

8. GLIDE PATH

GP ANGLE: 3.00

DISTANCE FROM RWY:

ELEV RWY THRESHOLD: 930.9

ELEV GP ANTENNA:

THRESHOLD CROSSING HEIGHT: 55.0

9. FINAL APPROACH COURSE AIMING

X RUNWAY THRESHOLD FT. FROM THRESHOLD

X ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: TERENCE D. SHARP (DAVID TEFFETELLER)

DATE: 05/23/2012

TITLE: AERONAUTICAL INFORMATION SPECIALIST

OFFICE: AJV-351

PART C - REMARKS:

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

BLOCK 3:
KHOC/KILN
ADJ: 0/60FT
SERVICE A: N/Y

RASS PRESSURE PATTERNS SAME
KHOC 977.30, KILN 1076.80
RA = 56.65.
SEE ATTACHED AIRSPACE LETTER.

100FT VEGETATION HEIGHT PER FPT

FLIGHT CHECK 4D ACCURACY CODE APPLIED TO OBSTACLE #11

PER FPT LPV LNAV/VNAV NOT DEVELOPED

VGSI: 4.00/31.8

NO SURVEY FOR RWY 5; UNABLE TO VERIFY IS VISUAL SURFACES ARE CLEAR; CIRCLING NA AT NIGHT TO RWY 05

20:1 PENETRATIONS:
R23:
971 TREE KHOCT200 391131.56N/0833153.65W (20.83)
970 TREE KHOCT182 391138.78N/0833158.27W (9.8)
983 TREE KHOCT181 391140.35N/0833155.73W (10.05)
990 TREE KHOCT162 391130.26N/0833156.32W (52.08)
967 TREE KHOCT052 391133.60N/0833150.43W (.49)
973 TREE KHOCT050 391132.54N/0833152.02W (14.73)
999 TREE KHOCT044 391129.48N/0833157.34W (66.69)
946 TREE KHOCT041 391136.24N/0833201.14W (2.74)
988 TREE KHOCT027 391136.33N/0833147.31W (3.18)
985 TREE KHOCT026 391137.47N/0833148.55W (.13)
983 TREE KHOCT021 391141.36N/0833155.03W (4.63)
975 TREE KHOCT020 391139.86N/0833156.97W (7.37)
FPT NOTIFIED

34:1 PENETRATIONS
961 TREE KHOCT201 391134.77N/0833150.60W (7.18)
939 TREE KHOCT121 391130.51N/0833154.95W (1.08)
1005 TREE KHOCT090 391143.40N/0833132.10W (1.98)
1012 TREE KHOCT089 391143.93N/0833130.49W (5.13)
1002 TREE KHOCT078 391150.25N/0833140.58W (.58)
995 TREE KHOCT074 391146.55N/0833144.89W (8.32)
995 TREE KHOCT073 391144.90N/0833145.07W (11.83)
985 TREE KHOCT072 391143.58N/0833144.54W (3.46)
981 TREE KHOCT071 391142.34N/0833144.38W (1.59)
974 TREE KHOCT068 391143.73N/0833152.70W (6.49)
976 TREE KHOCT066 391142.30N/0833153.95W (13.46)
973 TREE KHOCT065 391142.02N/0833150.60W (5.12)
968 TREE KHOCT063 391140.70N/0833150.71W (2.88)
983 TREE KHOCT062 391138.21N/0833149.51W (20.6)
977 TREE KHOCT061 391139.74N/0833149.21W (11.11)
978 TREE KHOCT059 391139.11N/0833148.14W (11.45)
943 TREE KHOCT056 391131.58N/0833155.19W (3.43)
964 TREE KHOCT055 391134.06N/0833147.79W (6.63)
959 TREE KHOCT053 391134.62N/0833148.95W (2.58)
1003 TREE KHOCT025 391147.40N/0833141.10W (8.02)
1009 TREE KHOCT024 391148.70N/0833141.10W (11.5)
964 TREE KHOCT023 391140.14N/0833153.33W (4.56)
967 TREE KHOCT022 391141.46N/0833152.66W (3.82)
FPT NOTIFIED

CONT.

QUALITY CHECKED 9

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LP STEPDOWN	**YIYUL/3.20 NM TO RW23**	**RW23**	**9. TREE (KHOCT111)**	**391200.84N/0833114.76W**	**1062 (2C)**	**250**		**1320**

3. MISSED APPROACH	
MAP:	
ELEV:	

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HILLSBORO, OH	**ELEVATION: 977** AIRPORT NAME: **HIGHLAND COUNTY**	**RNAV**	**RNAV (GPS) RWY 23, ORIG**	**AGL**

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
SATISFACTORY ON:		N W S	OTHER:	SOURCE:
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION:			ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:
CONTINUED.

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JENUG **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 391513.83N/0832629.13W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

REMARKS:
.54A L-V FORMULA USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 23			KHOC	HILLSBORO	OH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 05/23/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (DAVID TEFFETELLER)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YIYUL **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 391336.16N/0832855.38W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 23			KHOC	HILLSBORO	OH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/15/2012

DEVELOPED BY: **DATE:** 07/11/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (DAVID TEFFETELLER)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZETAV **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 391947.43N/0831938.40W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	054.43	234.43	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-002647)	392426.80N/0832113.70W	1489	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 23		1	KHOC	HILLSBORO	OH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 05/23/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (DAVID TEFFETELLER)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CINCINNATI VORTAC **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 390057.53N/0844212.05W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

INFO ONLY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CINCINNATI	CVG	VORTAC	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	CVG	VORTAC	240.00	060.00	R	1		3000	6000	4	5
2	NE	CVG	VORTAC	058.59	238.59	R	1-1 1/2		3000	23000	4	19
3	NE		WP	058.59	238.59	R		4	3000	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	STACK (21-000528)	385415.00N/0845105.00W	1170	5D
2	200	TOWER (39-000369)	390719.00N/0843253.00W	1715	4D
3	200	TOWER (39-000369)	390719.00N/0843253.00W	1715	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	INDY			KIND	INDIANAPOLIS	IN (US)
DP	SULVN (RNAV)			KIND	INDIANAPOLIS	IN (US)
DP	BLUEGRASS			KCVG	COVINGTON	KY (US)
DP	BNGLE (RNAV)			KCVG	COVINGTON	KY (US)
DP	CINCINNATI			KCVG	COVINGTON	KY (US)
DP	HAGOL (RNAV)			KCVG	COVINGTON	KY (US)
DP	KENLN (RNAV)			KCVG	COVINGTON	KY (US)
DP	ROHMM			KCVG	COVINGTON	KY (US)
DP	WHITEWATER			KCVG	COVINGTON	KY (US)
DP	ROCKT (RNAV)			KLUK	CINCINNATI	OH (US)
DP	LOCKBOURNE			KLCK	COLUMBUS	OH (US)
DP	DAYTON			KDAY	DAYTON	OH (US)
EN ROUTE	V128					(US)
EN ROUTE	V19					(US)
EN ROUTE	V275					(US)
EN ROUTE	V47					(US)
EN ROUTE	V5					(US)
EN ROUTE	V517					(US)
EN ROUTE	V97					(US)
IAP	ILS OR LOC RWY 18C			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 18L			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 18R			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 27 (ALT MA)		1	KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 36C			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 36L			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 36R			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 9			KCVG	COVINGTON	KY (US)
IAP	ILS RWY 18R (CAT II)			KCVG	COVINGTON	KY (US)
IAP	ILS RWY 36C (CAT II, III)			KCVG	COVINGTON	KY (US)
IAP	ILS RWY 36L (CAT II)			KCVG	COVINGTON	KY (US)
IAP	ILS RWY 36R (CAT II, III)			KCVG	COVINGTON	KY (US)
IAP	VOR-B			KI69	BATAVIA	OH (US)
IAP	GPS RWY 6			KISZ	CINCINNATI	OH (US)
IAP	NDB RWY 6			KISZ	CINCINNATI	OH (US)
IAP	ILS OR LOC RWY 21L			KLUK	CINCINNATI	OH (US)
IAP	NDB RWY 21L			KLUK	CINCINNATI	OH (US)
IAP	NDB RWY 25			KLUK	CINCINNATI	OH (US)
IAP	ILS OR LOC RWY 29			KHAO	HAMILTON	OH (US)
IAP	RNAV (GPS) RWY 11			KHAO	HAMILTON	OH (US)
IAP	RNAV (GPS) RWY 29			KHAO	HAMILTON	OH (US)
IAP	VOR RWY 19			KI67	HARRISON	OH (US)
IAP	RNAV (GPS) RWY 23			KHOC	HILLSBORO	OH (US)
IAP	ILS OR LOC RWY 22R			KILN	WILMINGTON	OH (US)
IAP	ILS OR LOC RWY 4L			KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (CAT II, III)			KILN	WILMINGTON	OH (US)
STAR	DECEE			KIND	INDIANAPOLIS	IN (US)
STAR	REDSTONE		2	KJVY	JEFFERSONVILLE	IN (US)
STAR	BRUSH			KCVG	COVINGTON	KY (US)

QUALITY CHECKED

STAR	CEGRM (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	CINCE		KCVG	COVINGTON	KY (US)
STAR	DEBAR		KCVG	COVINGTON	KY (US)
STAR	GAVNN (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	HARDU		KCVG	COVINGTON	KY (US)
STAR	JAKIE (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	MOSEY		KCVG	COVINGTON	KY (US)
STAR	SARGO (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	SHELBYVILLE		KCVG	COVINGTON	KY (US)
STAR	TIGRR (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	BRUSH		KK62	FALMOUTH	KY (US)
STAR	CINCE		KK62	FALMOUTH	KY (US)
STAR	GENUS		KK62	FALMOUTH	KY (US)
STAR	HARDU		KK62	FALMOUTH	KY (US)
STAR	HEDEE		KK62	FALMOUTH	KY (US)
STAR	MOSEY		KK62	FALMOUTH	KY (US)
STAR	CLEGG		KLEX	LEXINGTON	KY (US)
STAR	REDSTONE	2	KLOU	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE	2	KSDF	LOUISVILLE	KY (US)
STAR	BRUSH		KI69	BATAVIA	OH (US)
STAR	CINCE		KI69	BATAVIA	OH (US)
STAR	GENUS		KI69	BATAVIA	OH (US)
STAR	HARDU		KI69	BATAVIA	OH (US)
STAR	HEDEE		KI69	BATAVIA	OH (US)
STAR	MOSEY		KI69	BATAVIA	OH (US)
STAR	BRUSH		KISZ	CINCINNATI	OH (US)
STAR	CINCE		KISZ	CINCINNATI	OH (US)
STAR	GENUS		KISZ	CINCINNATI	OH (US)
STAR	HARDU		KISZ	CINCINNATI	OH (US)
STAR	HEDEE		KISZ	CINCINNATI	OH (US)
STAR	MOSEY		KISZ	CINCINNATI	OH (US)
STAR	BRUSH		KLUK	CINCINNATI	OH (US)
STAR	GENUS		KLUK	CINCINNATI	OH (US)
STAR	HARDU		KLUK	CINCINNATI	OH (US)
STAR	HEDEE		KLUK	CINCINNATI	OH (US)
STAR	MOSEY		KLUK	CINCINNATI	OH (US)
STAR	ZABER		KBKL	CLEVELAND	OH (US)
STAR	ZABER		KCGF	CLEVELAND	OH (US)
STAR	ZABER		KCLE	CLEVELAND	OH (US)
STAR	GAILL (RNAV)		KCMH	COLUMBUS	OH (US)
STAR	KEKEE		KDAY	DAYTON	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	BRUSH		KHAO	HAMILTON	OH (US)
STAR	CINCE		KHAO	HAMILTON	OH (US)
STAR	GENUS		KHAO	HAMILTON	OH (US)
STAR	HARDU		KHAO	HAMILTON	OH (US)
STAR	HEDEE		KHAO	HAMILTON	OH (US)
STAR	MOSEY		KHAO	HAMILTON	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K1G5	MEDINA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	ZABER		K2G1	PAINESVILLE	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 10/22/2009

REASON FOR REVISION:
UPDATED HOLDING OBST ID'S.
ADDED PRECIPITOUS TERRAIN STATEMENT.
DELETED HOLDING PAT 1, 064 INBOUND, NOT USED.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/20/2009 **OFFICE:** AVN-120 **NAME:** JON DENTON

APPROVED BY: **DATE:** 08/11/2009 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZID
ATC FACILITY: CVG APP CON
OTHER: EASTERN FPO

RADIO FIX AND HOLDING DATA RECORD

NAME: GAILL **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 393527.94N/0832509.82W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

INFO ONLY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	APPLETON	APE	VORTAC	H	235.10	229.10	51.00	51.00		4000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
APE	VORTAC	R-235	51	4000	14500

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W		WP	248.58	068.58	L		8	10000	17500	11	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (39-001765)	392551.00N/0834029.00W	1487	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V19	1				
IAP	RNAV (GPS) RWY 5L			KLCK	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 5R			KLCK	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 23			KHOC	HILLSBORO	OH (US)
STAR	GAILL (RNAV)		1	KCMH	COLUMBUS	OH (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 02/11/2010

REASON FOR REVISION:
UPDATED FIX USE.
FIX MOVED 534' NW.
ADDED WP DESIGNATION.
ADDED FAC 1 DIST FROM FAC 51 NM.
ADDED HOLDING PAT 1 AND ASSOCIATED DATA.

DEVELOPED BY: **DATE:** 06/26/2009 **OFFICE:** AVN-120 **NAME:** DONALD LANIER

APPROVED BY: **DATE:** 12/15/2009 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: CVG APP CON, CMH APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YELLOW BUD VOR **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 393136.78N/0825840.59W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

INFO ONLY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	YELLOW BUD	XUB	VOR	T							12000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	XUB	VOR	024.00	204.00	L	1		3000	6000	4	6
2	N	XUB	VOR	345.00	165.00	L	1		2600	6000	4	6
3	N		WP	356.00	176.00	L		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-002558)	393711.00N/0825224.00W	1349	5D
2	200	TOWER (39-002643)	393520.00N/0830644.00W	1917	5D
3	200	TOWER (39-002558)	393711.00N/0825224.00W	1349	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 AVOID RESTRICTED AREA
PAT 2 AVOID RESTRICTED AREA
PAT 3 AVOID RESTRICTED AREA

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-5503A AND BUCKEYE MOA.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 23		1	KRZT	CHILLICOTHE	OH (US)
IAP	VOR OR GPS RWY 19		2	KCYO	CIRCLEVILLE	OH (US)
IAP	ILS OR LOC RWY 23L		1	KLCK	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 5L		1	KLCK	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 5R		1	KLCK	COLUMBUS	OH (US)
IAP	ILS RWY 5R (CAT II)		1	KLCK	COLUMBUS	OH (US)
IAP	NDB RWY 23L		1	KLCK	COLUMBUS	OH (US)
IAP	NDB RWY 5R		1	KLCK	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 23R		3	KLCK	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 5L		3	KLCK	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 5R		3	KLCK	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 23			KHOC	HILLSBORO	OH (US)
STAR	BREMN			KCMH	COLUMBUS	OH (US)
STAR	BREMN			KLCK	COLUMBUS	OH (US)
STAR	BREMN			KOSU	COLUMBUS	OH (US)
STAR	BREMN			KTZR	COLUMBUS	OH (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 08/25/2011

REASON FOR REVISION:
ADD WP HOLDING.
UPDATE FIX USE.

DEVELOPED BY: **DATE:** 01/20/2011 **OFFICE:** AVN-120 **NAME:** THOMAS KIRKPATRICK

APPROVED BY: **DATE:** 06/28/2011 **OFFICE:** AVN-120 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZID
ATC FACILITY: CMH/LCK

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **HILLSBORO** STATE: **OH**

AIRPORT NAME: **HIGHLAND COUNTY** ID: **KHOC**

PROCEDURE: **RNAV (GPS) Rwy 23** AMDT: **Orig**

DOCKET#: **NOT REQUIRED**
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.37**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **229.36**
4. High Terrain in **FINAL** segment containing 1000' point **1100**
5. Distance from **THLD** to 1500' point **5.67**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **1.73**
7. True Course of **INTERMEDIATE** segment containing 1500' point **229.42**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **1264**
9. Threshold Coordinates (if straight-in) ... **391130.88N** / **0833202.71W**
10. ARP Coordinates ..... **039119.54N** / **0833219.65W**
11. Runway Approach End and distance furthest from ARP ..... RWY **5**
    Distance **0.29** NM
12. FAF Coordinates ..... **391513.83N** / **0832629.13W**

REMARKS: Approach/Drawing attached.