Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 08/23/2007	Task #: 2007082314536701001	Request #: 20070823145367
Procedure: NDB RWY 23 AMDT 5		Airport ID: KHOC	Airport: HIGHLAND COUNTY		Reimbursable #:
City: HILLSBORO	ST: OH	GPS #:		Estimated Chart Date: 01/10/2013	FICO #:
Fac ID: HOC	Fac. Type: NDB/M	Specialist: TERENCE SHARP			

Procedure Review

P2

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/20/2012	09/07/2012	STEVEN SZUKALA	
QA:	09/07/2012	09/07/2012	STEVEN SZUKALA	
Liaison:	09/07/2012		Spurlin	

Procedure Comments: **Remark Type:** INFORMATION

HILLSBORO, OH HIGHLAND COUNTY (KHOC) NDB RWY 23, AMDT 5 ENROUTE-NO FC: 11.27.12 PUB: 1.10.13

ATTACHED FORMS: 8260-5; 8260-9; 8260-2(S): HILLSBORO (HOC) NDB, REV 5; (INFO ONLY) YORK (YRK) VTAC, REV 12.

CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014 / 405.954.9307.

NDB RWY 23

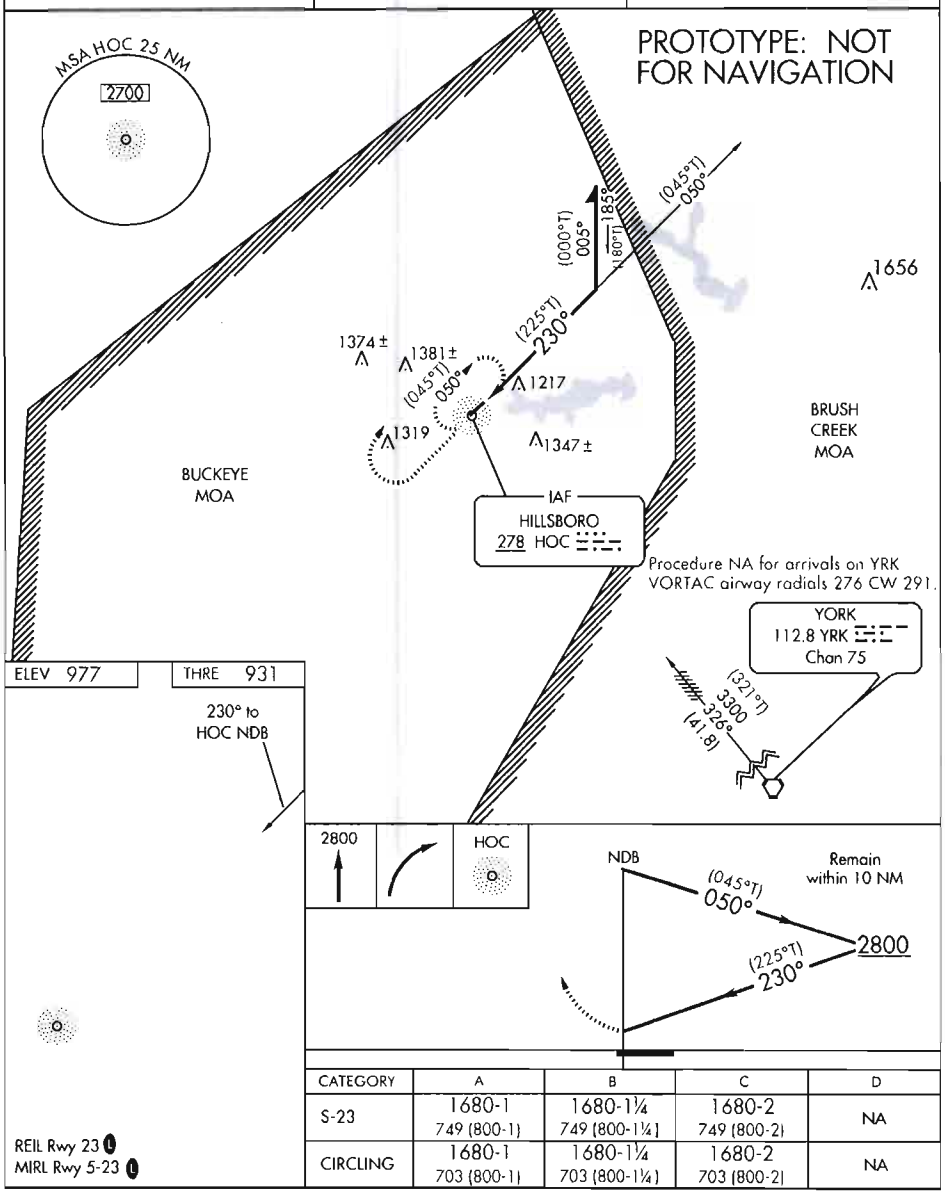
HILLSBORO/HIGHLAND COUNTY (HOC)

NDB HOC	APP CRS	Rwy ldg	3520
278	230°	THRE	931
		Apt Elev	977

When local altimeter setting not received; use Wilmington Air Park altimeter setting and increase all MDA 60 feet, and increase S-23/Circling Cat C visibility ½ mile. When VGSI inop; Straight-in/Circling Rwy 23 procedure NA at night. Circling to Rwy 05 NA at night.

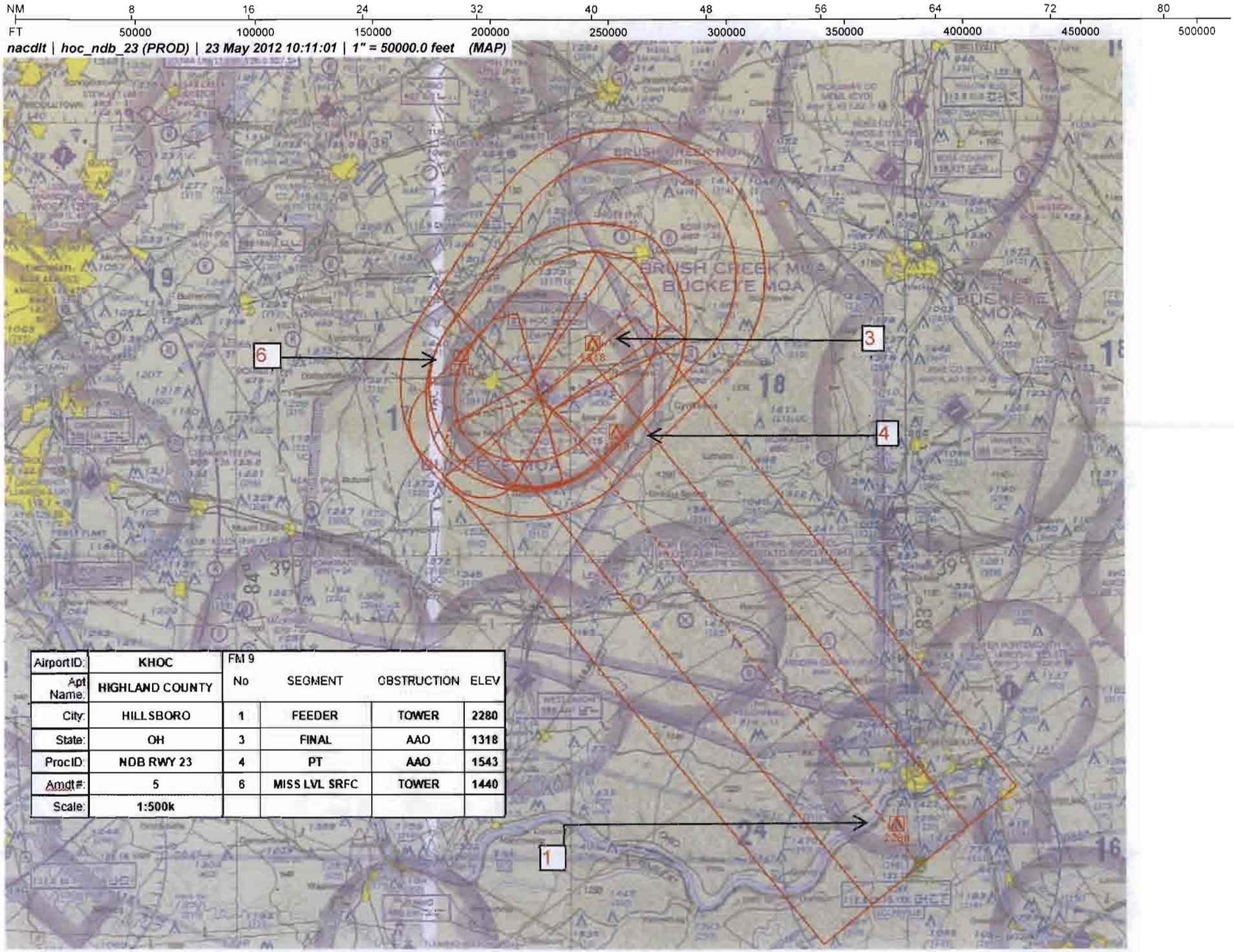
MISSED APPROACH: Climb to 2800 then right turn direct HOC NDB and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM
118.175	135.575 290.5	123.05 (CTAF)

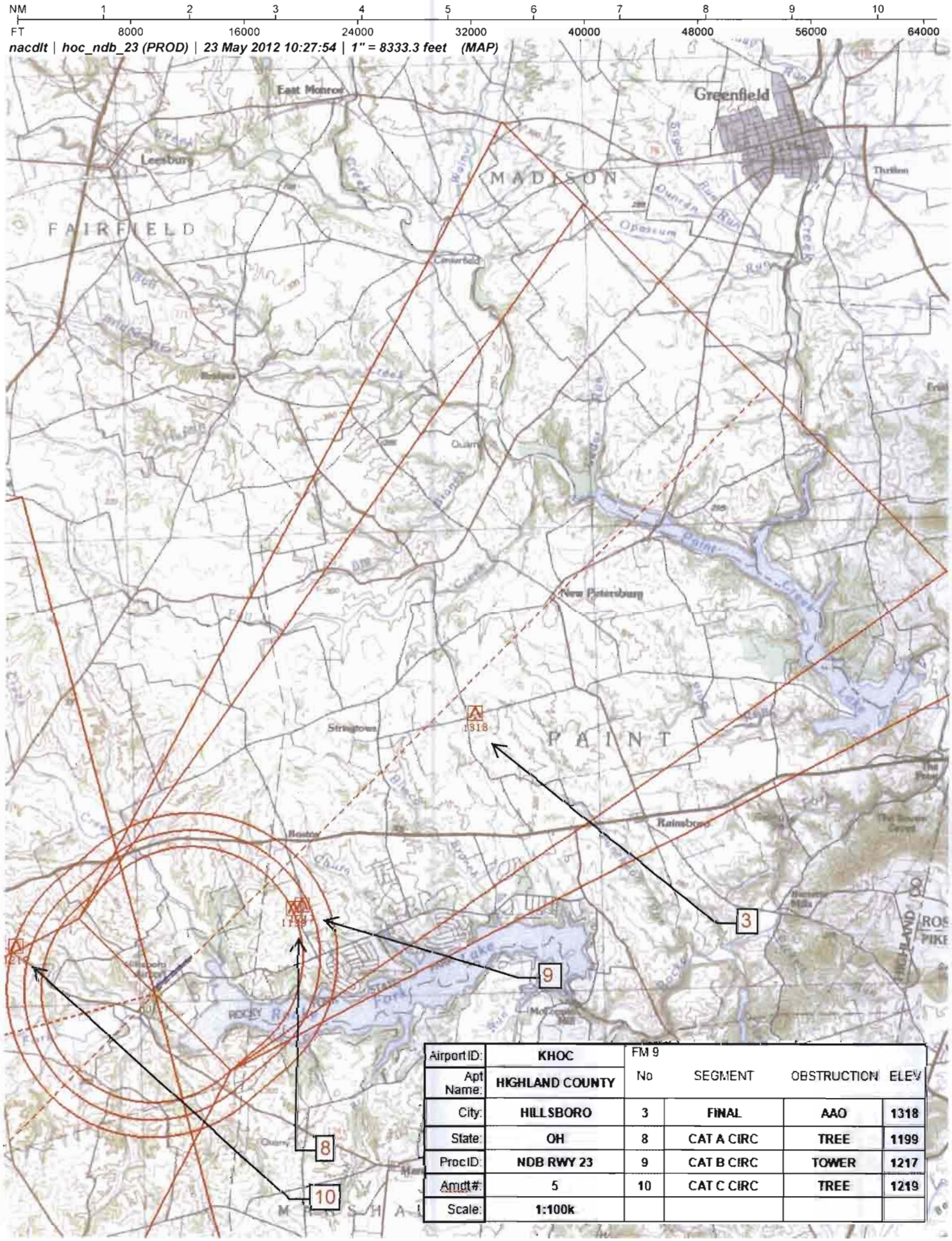


CATEGORY	A	B	C	D
S-23	1680-1 749 (800-1)	1680-1¼ 749 (800-1¼)	1680-2 749 (800-2)	NA
CIRCLING	1680-1 703 (800-1)	1680-1¼ 703 (800-1¼)	1680-2 703 (800-2)	NA

REIL Rwy 23
MIRL Rwy 5-23



Airport ID:	KHOC	FM 9			
Apt Name:	HIGHLAND COUNTY	No	SEGMENT	OBSTRUCTION	ELEV
City:	HILLSBORO	1	FEEDER	TOWER	2280
State:	OH	3	FINAL	AAO	1318
Proc ID:	NDB RWY 23	4	PT	AAO	1543
Amdt #:	5	6	MISS LVL SRFC	TOWER	1440
Scale:	1:500k				



Airport ID:	KHOC	FM 9			
Apt Name:	HIGHLAND COUNTY	No	SEGMENT	OBSTRUCTION	ELEV
City:	HILLSBORO	3	FINAL	AAO	1318
State:	OH	8	CAT A CIRC	TREE	1199
Proc ID:	NDB RWY 23	9	CAT B CIRC	TOWER	1217
Amdt#:	5	10	CAT C CIRC	TREE	1219
Scale:	1:100k				

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

NDB STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27

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
YRK VORTAC	HOC NDB	325.96 / 41.82	3300

MISSED APPROACH

MAP: HOC NDB

CLIMB TO 2800 THEN RIGHT TURN DIRECT HOC NDB AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 230.00 INBOUND.
FAS OBST: 1318 AAO 391417N/0832748W
CHART BUCKEYE MOA.
CHART BRUSH CREEK MOA.
FAC CROSSES RWY C/L EXTENDED 2236 FROM THLD.

1. PT **L** SIDE OF COURSE **050.00** OUTBOUND **2800** FT WITHIN **10** MILES OF **HOC NDB** (IAF)
2.
3. FAC **230.00** FAF DIST FAF TO MAP THLD
4. MIN. ALT
8. MSA FROM: **HOC NDB 2700**

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		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-23	1680	1	749	1680	1 1/4	749	1680	2	749		NA				
CIRCLING	1680	1	703	1680	1 1/4	703	1680	2	703		NA				

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON YRK VORTAC AIRWAY RADIALS 276 CW 291.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED; USE WILMINGTON AIR PARK ALTIMETER SETTING AND INCREASE ALL MDA 60FT, AND INCREASE S-23/CIRCLING CAT C VISIBILITY 1/2 MILE.
CHART NOTE: WHEN VGSI INOP; STRAIGHT-IN/CIRCLING RWY 23 PROCEDURE NA AT NIGHT
CHART NOTE: CIRCLING TO RWY 05 NA AT NIGHT

QUALITY CHECKED

CITY AND STATE	ELEVATION: 977 THRE: 931	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP NDB OR GPS RWY 23
HILLSBORO, OH	AIRPORT NAME: HIGHLAND COUNTY	HOC	NDB RWY 23, AMDT 5	AMDT 4A
				DATE 03/10/2011

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
X		X	X	X	X	X ZID ARTCC, AMGR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: TERENCE D. SHARP (DAVID TEFFETELLER)	FIFO AJV-351	DATE: 05/15/2012
APPROVED BY		
NAME: LARRY H STROUT MANAGER	FIFO AJV-353	DATE:

CHANGES:

1. CHANGED PROCEDURE NAME FROM NDB OR GPS RWY 23 TO NDB RWY 23
2. LOWERED S-23 MDA FROM 1760 TO 1680
3. CHANGED FEEDER COURSE AND DISTANCE FROM 325.99/41.81 TO 325.96/41.82
4. CHANGED NOTE: USE CINCINNATI LUNKEN FIELD ALTIMETER SETTING TO READ WHEN LOCAL ALTIMETER SETTING NOT RECEIVED; USE WILMINGTON AIR PARK ALTIMETER SETTING AND INCREASE ALL MDA 60FT, AND INCREASE S-23, CIRCLING CAT D VISIBILITY 1/2 MILE.
5. ADDED NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA
6. ADDED NOTE: PROCEDURE NA FOR ARRIVALS ON YRK VORTAC AIRWAY RADIALS 276 CW 291
7. CHANGED TDZE FROM 950 TO THRE 931
8. DELETED EWDER
9. ADDED CIRCLING NA NOTES FOR RWY 23 AND 05

REASONS:

1-2. FPT REQUEST
3. UPDATED FACILITY DATA
4. LOWER REMOTE ALTIMETER ADJUSTMENT; CHANGE BACKUP ALTIMETER SOURCE FROM KLUK TO KILN
5. 20/34:1 PENETRATIONS
6. TURN FROM ENROUTE EXCEEDS 120 DEGREES
7. MINIMA BASED ON HATH VS HAT
8. CNF NOT REQUIRED
9. 20/34:1 PENETRATIONS

QUALITY CHECKED

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	YRK VORTAC	HOC NDB	1. TOWER (21-002199)	384059.94N/0830045.36W	2280 (2C)	1000		3300
			2. TERRAIN	390811.10N/0832544.60W	1343 (1300)		AS1500	2800
FINAL: PT	10 NM	HOC NDB	3. AAO	391417.00N/0832748.00W	1318 (2C)	350		1680
2. PROCEDURE TURN	HOC NDB	10 NM	4. AAO	390811.10N/0832544.60W	1543 (4E)	1000		2600
			5. TERRAIN	390811.10N/0832544.60W	1343 (1300)		AS1500	2800
3. MISSED APPROACH MAP:	HOC NDB	HOC NDB				ASC		2800
			6. TOWER (39-002034)	391322.00N/0833934.00W	1440 (2A)	1000		2500
ELEV:	1330		7. TERRAIN	391121.00N/0832402.00W	1208 (1200)		AS1500	2700
			8. TREE	391200.00N/0833030.00W	1199 (2C)	300	SI	1680
			9. TOWER (39-020249)	391202.74N/0833022.34W	1217 (1A)	300	SI	1680
			10. TREE	391134.00N/0833439.00W	1219 (2C)	300	SI	1680

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	703
CATEGORY B	1.5 NM	450	703
CATEGORY C	1.7 NM	450	703
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: HOC NDB

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (39-001969)	077/ 14.9	1656 (5E)	2700					

CITY AND STATE	ELEVATION: 977 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HILLSBORO, OH	HIGHLAND COUNTY	HOC	NDB RWY 23, AMDT 5	AGL

QUALITY CHECKED 9

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZID ARTCC DAY FSS		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 / 0

4. MONITOR STATUS	PRIMARY NAVAID: HOC NDB		
	MONITOR POINT: FBO/FIRE DEPT		
	HRS OPTN:	CAT 1	24
		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:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD 2236	FT. FROM THRESHOLD
		ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: TERENCE D. SHARP (DAVID TEFFETELLER)	DATE: 05/15/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-351

PART C - REMARKS:

VDP NOT ESTABLISHED - FINAL DOES NOT HAVE DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

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

NO ADDITIONAL AIRSPACE REQUIRED.
RASS PRESSURE PATTERNS SAME
KHOC 977.30, KILN 1076.8
RA = 56.65FT.

100FT VEGETATION HEIGHT USED

VGSI: 4.00/31.8

20:1 PENETRATIONS:
R23:
985 TREE KHOCT026 391137.47N/0833148.55W (.13)
967 TREE KHOCT052 391133.60N/0833150.43W (.49)
946 TREE KHOCT041 391136.24N/0833201.14W (2.74)
988 TREE KHOCT027 391136.33N/0833147.31W (3.18)
952 TREE KHOCT040 391137.95N/0833201.18W (3.22)
983 TREE KHOCT021 391141.36N/0833155.03W (4.63)
975 TREE KHOCT020 391139.86N/0833156.97W (7.37)
983 TREE KHOCT035 391141.55N/0833156.86W (9.46)
970 TREE KHOCT182 391138.78N/0833158.27W (9.8)
983 TREE KHOCT181 391140.35N/0833155.73W (10.05)
973 TREE KHOCT050 391132.54N/0833152.02W (14.73)
971 TREE KHOCT200 391131.56N/0833153.65W (20.83)
983 TREE KHOCT039 391139.55N/0833159.36W (23.52)
999 TREE KHOCT036 391140.74N/0833157.90W (31.24)
990 TREE KHOCT162 391130.26N/0833156.32W (52.08)
999 TREE KHOCT044 391129.48N/0833157.34W (66.69)
FPT NOTFIED

34:1 PENETRATIONS:
R23:
1002 TREE KHOCT078 391150.25N/0833140.58W (.58)
1005 TREE KHOCT090 391143.40N/0833132.10W (1.98)
1012 TREE KHOCT089 391143.93N/0833130.49W (5.13)
1003 TREE KHOCT025 391147.40N/0833141.10W (8.02)
1009 TREE KHOCT024 391148.70N/0833141.10W (11.5)
981 TREE KHOCT071 391142.34N/0833144.38W (1.59)
985 TREE KHOCT072 391143.58N/0833144.54W (3.46)
995 TREE KHOCT074 391146.55N/0833144.89W (8.32)
995 TREE KHOCT073 391144.90N/0833145.07W (11.83)
968 TREE KHOCT063 391140.70N/0833150.71W (2.88)
973 TREE KHOCT065 391142.02N/0833150.60W (5.12)
974 TREE KHOCT068 391143.73N/0833152.70W (6.49)
967 TREE KHOCT022 391141.46N/0833152.66W (3.82)
964 TREE KHOCT023 391140.14N/0833153.33W (4.56)
959 TREE KHOCT053 391134.62N/0833148.95W (2.58)
978 TREE KHOCT059 391139.11N/0833148.14W (11.45)
977 TREE KHOCT061 391139.74N/0833149.21W (11.11)
964 TREE KHOCT055 391134.06N/0833147.79W (6.63)
961 TREE KHOCT201 391134.77N/0833150.60W (7.18)
976 TREE KHOCT066 391142.30N/0833153.95W (13.46)
970 TREE KHOCT124 391142.53N/0833156.34W (11.21)
981 TREE KHOCT067 391143.97N/0833154.95W (16.97)
939 TREE KHOCT121 391130.51N/0833154.95W (1.08)
943 TREE KHOCT056 391131.58N/0833155.19W (3.43)
983 TREE KHOCT062 391138.21N/0833149.51W (20.6)
FPT NOTIFIED

QUALITY 9 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HILLSBORO NDB **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 391105.00N/0833234.67W **TYPE:**

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

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	HILLSBORO	HOC	NDB	MH							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	NE	HOC	NDB	050.00	230.00	R	1		2800	10000	6	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-002034)	391322.00N/0833934.00W	1440	2A

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	NDB RWY 23		1	KHOC	HILLSBORO	OH (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
UPDATED PAT1 CONTROLLING OBSTACLE
CHANGED PAT1 AIRSPEED FROM 230 TO 200
UPDATED FIX USE
MOVED HOLDING LIMITED TO ESTABLISHED PATTERN FROM REMARKS TO HOLDING RESTRICTION
ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED TO REMARKS
REMOVED HOLDING ABOVE 4000 NA WHEN R-5503 IS ACTIVE FROM REMARKS

DEVELOPED BY: **DATE:** 04/26/2012 **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: INDIANAPOLIS APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 383838.88N/0825842.02W **TYPE:**

INFO ONLY

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

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	YORK	YRK	VORTAC	L							17500

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	SW	YRK	VORTAC	213.00	033.00	R	1		3300	6000	4	5
2	NW	YRK	VORTAC	301.00	121.00	R	1		3300	6000	4	5
3	SE	YRK	VORTAC	150.00	330.00	R	1		4000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-002199)	384059.94N/0830045.36W	2280	2C
2	200	TOWER (21-002199)	384059.94N/0830045.36W	2280	2C
3	200	TOWER (21-002199)	384059.94N/0830045.36W	2280	2C

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	GIPLE (RNAV)			KCVG	COVINGTON	KY (US)
DP	RHOMM			KCVG	COVINGTON	KY (US)
DP	LOCKBOURNE			KLCK	COLUMBUS	OH (US)
EN ROUTE	V128					(US)
EN ROUTE	V174					(US)
EN ROUTE	V44					(US)
EN ROUTE	V493					(US)
IAP	VOR RWY 10		2	KDWU	ASHLAND	KY (US)
IAP	LOC RWY 25			KFGX	FLEMINGSBURG	KY (US)
IAP	NDB RWY 23			KHOC	HILLSBORO	OH (US)
IAP	VOR/DME-A			KI43	JACKSON	OH (US)
IAP	VOR/DME-A		1	KPMH	PORTSMOUTH	OH (US)
IAP	NDB RWY 25			KEOP	WAVERLY	OH (US)
IAP	RNAV (GPS) RWY 7			KEOP	WAVERLY	OH (US)
IAP	NDB RWY 23			KAMT	WEST UNION	OH (US)
IAP	RNAV (GPS) RWY 23			KAMT	WEST UNION	OH (US)
IAP	ILS OR LOC RWY 12			KHTS	HUNTINGTON	WV (US)
IAP	ILS OR LOC RWY 30		3	KHTS	HUNTINGTON	WV (US)
IAP	RNAV (GPS) RWY 12			KHTS	HUNTINGTON	WV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 06/30/2011

REASON FOR REVISION:
ADDED HOLDING PATTERN 3 AND ALL INFORMATION.
UPDATED FIX USE.
ADDED PRECIPITOUS TERRAIN EVALUATION.

DEVELOPED BY: **DATE:** 03/29/2011 **OFFICE:** AVN-110 **NAME:** FRANK JACKSON

APPROVED BY: **DATE:** **OFFICE:** AVN-110 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY: HTS APP CON
OTHER: HTS ATCT

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: EWDER **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 391355.04N/0832854.30W **TYPE: CNF**

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

CANCELLED

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** **OFFICE: AJV-351** **NAME: TIMOTHY W MCHENRY**

APPROVED BY: **DATE:** **OFFICE: AJV-351** **NAME: SUE CRUMB**

SIGNATURE:

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

QUALITY CHECKED