

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</u> SIDNEY MUNI	<u>AIRPORT ID</u> KSCA	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> SIDNEY	<u>STATE</u> OH	
<u>AIRPORT ELEVATION</u> 1044	<u>TDZE</u> 1044	<u>SUPERSEDED</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 11/12/2015	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
ROD VORTAC		NYIIM		TF	FO	2.00	126.39	6.74	3000
BONEE		WAGIH		TF	FB	2.00	044.39	6.98	3000
WAGIH	IAF	NYIIM	NOPT	TF	FB	1.00	335.04	6.00	3000
NYIIM	IF/IAF	ETTAF		TF	FB	1.00	279.35	4.98	2700
ETTAF	FAF	ZIRIT/1.80 NM TO RW28		TF	FB	0.30	279.28	3.30	
ZIRIT/1.80 NM TO RW28		RW28	MAP	TF	FO	0.30	279.28	1.80	
RW28	MAP	1302 MSL		CA			279.28		
1302 MSL		ZIDNI		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW28

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT ZIDNI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. HOLD E NYIIM, RT, 279.35 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 279.28FAF: ETTAFDIST FAF TO MAP: 5.10DIST FAF TO THLD: 5.10
4. MIN ALT: NYIIM 3000, ETTAF 2700, ZIRIT/1.80 NM TO RW28 1640*
5. DIST TO THLD FROM OM:MM:IM:150 HAT:258 HAT: 0.70GS ANT:
6. MIN GP INCPT: 2700GP ALT AT FAF : ETTAF 2700OM:MM:IM:
7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS NOT CLEARTCH: 35.6
8. MSA FROM: RW28 3000

PBN REQUIREMENTS NOTES:

RNP APCH

NOTES:

CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: BARO-VNAV NA WHEN USING JAMES M. COX DAYTON INTL ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22C OR ABOVE 54C.
*LNAV ONLY
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ROD VORTAC AIRWAY RADIALS 046 CW 207.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JAMES M. COX DAYTON INTL ALTIMETER SETTING: INCREASE LPV DA TO 1355; INCREASE LNAV/VNAV DA TO 1365; INCREASE ALL MDA 60 FEET AND LNAV CAT C VISIBILITY AND CIRCLING CAT C VISIBILITY 1/4 SM.
CHART NOTE: STRAIGHT-IN RWY 28 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN AT OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
WAAS CHANNEL #82234
REFERENCE PATH ID: W28A
CHART FAS OBST: 1168 TREE 401411N/0840613W.
CHART: 1187 TRANSMISSION_LINE 401423N/0840528W.
1319 AAO 401353N/0840226W.
HOLD W, RT, 099.06 INBOUND
LTP HAE: 284.3 M

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
LPV DA	1302	1	258	1302	1	258	1302	1	258		NA				
LNAV/VNAV DA	1312	1	268	1312	1	268	1312	1	268		NA				
LNAV MDA	1420	1	376	1420	1	376	1420	1	376		NA				
CIRCLING	1460	1	416	1520	1	476	1640	1 1/2	596		NA				

QUALITY
6
CHECKED

CHANGES - REASONS

- 1. DELETED NOTE: DME/DME RNP-0.3 NA - REPLACED BY EQUIPMENT REQUIREMENT NOTE.
- 2. ADDED PBN REQUIREMENTS NOTE: RNP APCH - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-8.
- 3. DELETED NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JAMES M COX DAYTON INTL ALTIMETER SETTING AND INCREASE ALL DA 53 FEET, ALL MDA 60 FEET; INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE, INCREASE LNAV CAT C AND CIRCLING CAT C VISIBILITY 1/4 MILE - REPLACED BY UPDATED NOTE.
- 4. ADDED NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JAMES M. COX DAYTON INTL ALTIMETER SETTING: INCREASE LPV DA TO 1355; INCREASE LNAV/VNAV DA TO 1365; INCREASE ALL MDA 60 FEET AND LNAV CAT C VISIBILITY AND CIRCLING CAT C VISIBILITY 1/4 SM - VISIBILITY ADJUSTMENTS RECOMPUTED USING FAAO 8260.3C, TABLE 3-1-1 AND TABLE 3-3-7. NOTE FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11N(1)(A)2.
- 5. DELETED NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - REPLACED BY UPDATED NOTE.
- 6. ADDED NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11K(3).
- 7. DELETED NOTE: NIGHT LANDING: RWY 28 OPERATIONAL VGSI REQUIRED, REMAIN AT OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD - REPLACED BY UPDATED NOTE.
- 8. ADDED NOTE: STRAIGHT-IN RWY 28 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN AT OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD - FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(1)(H).
- 9. DELETED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BONEE ON V12 WESTBOUND - V12 AIRWAY BEING CANCELED IN CONJUNCTION WITH RID VOR DECOMMISSIONING.
- 10. DELETED FAHRENHEIT VALUES FROM UNCOMPENSATED BARO-VNAV CHART NOTE - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-9S.
- 11. ADDED 20:1 IS NOT CLEAR - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-7G(3).
- 12. FAS DATA: AMENDED LTP LONGITUDE 0840811.6345W TO 0840811.6355W - MATCH CURRENT AIRNAV VALUE.
- 13. FAS DATA: AMENDED CRC REMAINDER FROM 71CBEEA0 TO 633A3273 - RECOMPUTED USING UPDATED LTP VALUE.



<u>AIRPORT</u> SIDNEY MUNI	<u>AIRPORT ID</u> KSCA	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> SIDNEY	<u>STATE</u> OH
<u>COORDINATED WITH:</u>					
A4A <input type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> ZID, CMH APP CON, AMGR					
<u>FLIGHT CHECKED BY</u>			<u>OFFICE</u>	<u>DATE</u>	
<u>DEVELOPED BY</u>			<u>OFFICE</u>	<u>DATE</u>	
PETER R. GUIMOND			AJV-5422	05/08/2018	
<u>APPROVED BY</u>			<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
JULIE MORGAN			AJV-5420		MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSCA
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	401430.0840N
LTP/FTP LONGITUDE	0840811.6355W
LTP/FTP ELLIPSOIDAL HEIGHT	+02843
FPAP LATITUDE	401436.6145N
FPAP LONGITUDE	0841007.6775W
THRESHOLD CROSSING HEIGHT (TCH)	00035.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	633A3273
---------------	----------

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03174
FPAP ORTHOMETRIC HEIGHT	+03174



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

<u>AIRPORT</u> SIDNEY MUNI	<u>AIRPORT ID</u> KSCA	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>AMDT NO.</u> 1A	<u>CITY</u> SIDNEY	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 1044	<u>FACILITY</u> RNAV
-------------------------------	---------------------------	--	-----------------------	-----------------------	--------------------	----------------------------------	-------------------------

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
ROD VORTAC

TO
NYIIM

RNP

DISTANCE
6.74

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>
1.TOWER (39-003588)	401711.00N/0835857.00W	1384	250	50	4D	1000				AT616	3000
2.TERRAIN	401239.00N/0835603.00W	1162 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

FEEDER

FROM
BONEE

TO
WAGIH

RNP

DISTANCE
6.98

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>
3.AAO	400730.00N/0835454.00W	1457	100	125	3E	1000				AT543	3000
4.TERRAIN	400730.00N/0835454.00W	1257 (1300)								AS1500	2800

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

NYIIM

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>
13.AAO	401503.00N/0834206.00W		1565	100	125	3E	1000				AT435	3000
14.TERRAIN	401503.00N/0834206.00W		1365 (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

ZIDNI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
1109												
<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>
9.TREE (39-066395)	401424.15N/0840752.92W		1152	20	3	1A		ASC				3000
15.TOWER (39-001435)	401303.00N/0841737.00W		1481	500	50	5D	1000					2500
16.TERRAIN	401357.00N/0840751.00W		1070 (1100)									2600

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

ZIDNI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1162				
<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>
9.TREE (39-066395)	401424.15N/0840752.92W	1152	20	3	1A		ASC				3000
15.TOWER (39-001435)	401303.00N/0841737.00W	1481	500	50	5D	1000					2500
16.TERRAIN	401357.00N/0840751.00W	1070 (1100)									2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

MISSED APPROACH : LNAV

FROM

RW28

TO

ZIDNI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1320				
<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>
9.TREE (39-066395)	401424.15N/0840752.92W	1152	20	3	1A		ASC				3000
15.TOWER (39-001435)	401303.00N/0841737.00W	1481	500	50	5D	1000					2500
16.TERRAIN	401357.00N/0840751.00W	1070 (1100)									2600

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
17.TREE (39-045604)	401408.65N/0840755.08W	1.30	416	1159	20	3	1A	300			1460
CATEGORY B											
18.TOWER (39-003377)	401457.07N/0841112.76W	1.84	476	1216	50	20	2C	300			1520
CATEGORY C											
19.TOWER (39-002781)	401633.53N/0841107.54W	2.90	596	1335	50	20	2C	300			1640

CIRCLING REMARKS:

MSA	
CENTER	RADIUS
RW28	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (39-001272)	403803.00N/0841229.00W	357	23.8	1983	500	50	5D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT DEVELOPED PER ATC REQUEST.

100 FT WORST CASE VEGETATION USED WITHIN AAO EXEMPT AREA PER CENTRAL FPT CHECKLIST.

CAT D MINIMUMS NOT PUBLISHED PER PROPONENT REQUEST.

LPV, LNAV/VNAV, AND LNAV INTERMEDIATE SEGMENTS HAVE THE SAME CONTROLLING OBSTACLES.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZID ARTCC, CMH APP CON, DAY FSS



<u>AIRPORT</u>	<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>
SIDNEY MUNI	KSCA	RNAV (GPS) RWY 28	1A	SIDNEY	OH	1044	RNAV
34:1							
1050 TERRAIN (39-049402) 401427.76N/0840806.88W (3.16)							

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE THE VDP SURFACE.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u>	<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>
SIDNEY MUNI	KSCA	RNAV (GPS) RWY 28	1A	SIDNEY	OH	1044	RNAV

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	3.20
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	274.28
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1119
DISTANCE FROM	THLD	TO 1500FT POINT	4.88
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	274.28
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1119

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

ARP COORDINATES 401428.60N/0840852.30W

**RUNWAY APCH END
AND DIST FURTHEST
FROM ARP** RUNWAY 28 DISTANCE 0.52 NM

**FAF
COORDINATES** 401407.43N/0840133.44W

**FIX NAME
COORDINATES**

REMARKS
NO ADDITIONAL AIRSPACE REQUIRED.



<u>AIRPORT</u>	<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>
SIDNEY MUNI	KSCA	RNAV (GPS) RWY 28	1A	SIDNEY	OH	1044	RNAV
PART E: PREPARED BY							
<u>NAME</u>				<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>	
PETER R. GUIMOND				AJV-5422	05/08/2018	AERONAUTICAL INFORMATION SPECIALIST	

