

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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> JAMES M COX DAYTON INTL		<u>AIRPORT ID</u> KDAY	<u>PROCEDURE NAME</u> ILS OR LOC RWY 18	<u>ORIGINAL/AMENDMENT</u> 11	<u>CITY</u> DAYTON	<u>STATE</u> OH
<u>AIRPORT ELEVATION</u> 1009	<u>TDZE</u> 996	<u>SUPERSEDED</u> ILS OR LOC RWY 18	<u>ORIGINAL/AMENDMENT</u> 10A	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-DAY	<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		KIRON INT/ROD 10.00 DME					240.02	10.00	3000
KIRON INT/ROD 10.00 DME	IAF	GILPE INT					184.52	5.48 (I-DAY)	2600
GILPE INT	IF	WALMA INT					184.52	6.12 (I-DAY)	2600

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.88 NM AFTER WALMA INT

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 3100 DIRECT DQN VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 3100 THEN CLIMBING LEFT TURN TO 4000 HEADING 169 AND MXQ VOR/DME R-319 TO SOWAP INT/CVG 47.97 DME AND HOLD.

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. PROFILE STARTS AT KIRON
3. **FAC:** 184.52 **FAF:** WALMA INT **DIST FAF TO MAP:** 4.88 **DIST FAF TO THLD:** 4.88
4. **MIN ALT:** KIRON INT/ROD 10.00 DME 3000, GILPE INT 2600, WALMA INT 2600
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:** 975
6. **MIN GS INCPT:** 2600 **GS ALT AT FAF :** WALMA INT 2600 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 54.8
8. **MSA FROM:** DQN VOR/DME 3100

EQUIPMENT REQUIREMENTS NOTES:

QUALITY
6
CHECKED

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT ROD VORTAC ON AIRWAY RADIALS 207 CW 273.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 18 CAT C/D VISIBILITY TO RVR 6000.
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART IN PLANVIEW: SOWAP INT/CVG 47.97 DME
FAS OBST: 1139 AAO 395823N/0841215W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE SOWAP, RT, 238.59 INBOUND.
HOLD W, RT, 084.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

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
S-ILS 18**	1196	2400	200	1196	2400	200	1196	2400	200	1196	2400	200			
S-LOC 18	1400	2400	404	1400	2400	404	1400	4000	404	1400	4000	404			
CIRCLING	1580	1	571	1580	1	571	1580	1 1/2	571	1640	2	631			

CHANGES - REASONS

1. UPDATED ALTERNATE MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 3100 LEFT TURN DIRECT SGH VOR/DME AND HOLD." TO "CLIMB TO 3100 THEN CLIMBING LEFT TURN TO 4000 HEADING 169 AND MXQ VOR/DME R-319 TO SOWAP INT/CVG 47.97 DME AND HOLD." - SGH VORTAC BEING DECOMMISSIONED.
2. UPDATED ADDITIONAL FLIGHT DATA SECTION TO REFLECT NEW ALTERNATE HOLDING.
3. MOVED WALMA PFAF 393 FEET NORTH - RECALCULATED TO MEET 8260.58A CRITERIA.
4. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 3100 THEN RIGHT TURN DIRECT DQN VOR/DME AND HOLD." TO "CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 3100 DIRECT DQN VOR/DME AND HOLD." - NEW EVALUATION
5. CHANGED KIRON FROM IF TO IAF - TO SHORTEN THE LENGTH OF INTERMEDIATE TO MEET CRITERIA AND TO MATCH RNAV PROCEDURE.
6. CHANGED GILPE TO INTERMEDIATE FIX - BRINGS INTERMEDIATE UP TO CURRENT CRITERIA FOR LENGTH AND TO MATCH RNAV PROCEDURE.
7. CHANGED INITIAL ROUTE FROM ROD VORTAC TO KIRON TO A FEEDER ROUTE. - TO MATCH RNAV PROCEDURE AND MAKE INTERMEDIATE SEGMENT SHORTER TO MATCH CRITERIA.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZID, DAY ATCT, AMGR.

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

DONALD H. LANIER (MATTHEW FULKS)

OFFICE

AJV-A431

DATE

06/24/2019

APPROVED BY

GEORGE DAVIS

OFFICE

AJV-A430

DATE

TITLE
MANAGER



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
JAMES M COX DAYTON INTL	KDAY	ILS OR LOC RWY 18	11	DAYTON	OH	1009	I-DAY

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
ROD VORTAC

TO
KIRON INT/ROD 10.00 DME

RNP	DISTANCE 10.00	PAT	MAP	HAT	HMAS							
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
1.TOWER (39-000804)	401821.00N/0840654.00W	1529	500	50	5D	1000				AT471	3000	
2.TERRAIN	401224.00N/0840242.00W	1112 (1100)								AS1500	2600	

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
KIRON INT/ROD 10.00 DME

TO
GILPE INT

RNP	DISTANCE 5.48	PAT	MAP	HAT	HMAS							
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
3.TOWER (39-003365)	400704.00N/0841119.00W	1385	250	50	4D	500					1900	
4.TERRAIN	401103.00N/0840812.00W	1059								AS1500	2600	

COMPUTATIONS

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

SEGMENT REMARKS:



INTERMEDIATE

FROM

GILPE INT

TO

WALMA INT

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	6.12											
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
5.TOWER (39-001462)	400357.00N/0841429.00W	1417	50	20	2C	500				AT683	2600	
6.TERRAIN	400600.00N/0840909.00W	990 (1000)								AS1500	2500	

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

FINAL: ILS

FROM

WALMA INT

TO

RW18

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.88		DA	200								
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
							ASC				1196	

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



FINAL: LOC

FROM

WALMA INT

TO

4.88 NM AFTER WALMA INT

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.88		4.88 NM AFTER WALMA INT	404								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	395823.14N/0841215.44W		1139	50	20	2C	250					1400

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

MISSED APPROACH : ILS

FROM

DA

TO

DQN VOR/DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
					1026							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3100
8.TOWER (39-002101)	395506.71N/0842116.65W		1265	20	3	1A	1000					2300
9.TERRAIN	395530.00N/0842236.00W		1033 (1000)								AS1500	2500

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



MISSED APPROACH : LOC

FROM

4.88 NM AFTER WALMA INT

TO

DQN VOR/DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1150					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3100
8.TOWER (39-002101)	395506.71N/0842116.65W		1265	20	3	1A	1000					2300
9.TERRAIN	395530.00N/0842236.00W		1033 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH ALTERNATE : ILS

FROM

DA

TO

SOWAP INT/CVG 47.97 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
							1026					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
10.TOWER (39-001362)	394328.61N/0841517.58W		2049	100	20	3C	1000					3100
11.TERRAIN	393457.00N/0834324.00W		1102 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH ALTERNATE : LOC

FROM

4.88 NM AFTER WALMA INT

TO

SOWAP INT/CVG 47.97 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1150					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
10.TOWER (39-001362)	394328.61N/0841517.58W		2049	100	20	3C	1000					3100
11.TERRAIN	393457.00N/0834324.00W		1102 (1100)								AS1500	2600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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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											
12.LIGHTING (39-047967)	395400.18N/0841331.80W	1.30	571	1261	20	3	1A	300			1580
CATEGORY B											
12.LIGHTING (39-047967)	395400.18N/0841331.80W	1.84	571	1261	20	3	1A	300			1580
CATEGORY C											
12.LIGHTING (39-047967)	395400.18N/0841331.80W	2.90	571	1261	20	3	1A	300			1580
CATEGORY D											
13.TOWER (39-020861)	395402.88N/0840732.88W	3.78	631	1333	50	20	2C	300			1640

CIRCLING REMARKS:



MSA

CENTER

DQN VOR/DME

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (39-001362)	394328.61N/0841517.58W	160	18.7	2049	100	20	3C	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
DAY TOWER, DAY APP CON, ZID ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KDAY	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KDAY	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:
BACKUP ALTIMETER NOT PUBLISHED, REDUNDANT WEATHER SOURCES AVAILABLE.

<u>PRIMARY NAVAID</u> I-DAY	<u>MONITOR POINT</u> DAY ATCT	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW06L - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW06R - HIRL, REIL, PAPI-4L		PIR-G	
RW18 - MALSR, HIRL		PIR-G	APPROACH
RW24L - MALSR, HIRL, PAPI-4L		PIR-G	APPROACH
RW24R - MALSR, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW36 - HIRL, REIL, PAPI-4L		PIR-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 990.6	<u>TCH</u> 54.8	<u>ELEV GS ANTENNA</u> 987.1	<u>DISTANCE FROM RWY</u> 975	<u>VGSI ANGLE</u>	<u>TCH</u>
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - NO DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> JAMES M COX DAYTON INTL	<u>AIRPORT ID</u> KDAY	<u>PROCEDURE NAME</u> ILS OR LOC RWY 18	<u>AMDT NO.</u> 11	<u>CITY</u> DAYTON	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 1009	<u>FACILITY</u> I-DAY
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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	3.00
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.87
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	178.52
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	991
DISTANCE FROM	THLD	TO 1500FT POINT	4.68
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.23
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	178.52
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	991

THRESHOLD
COORDINATES
(IF STR-IN)

395502.36N/0841243.38W

ARP COORDINATES

395408.10N/0841309.90W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 6L DISTANCE 1.30 NM

FAF
COORDINATES

395955.38N/0841253.23W

FIX NAME
COORDINATES

REMARKS

QUALITY
6
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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<u>AIRPORT</u> JAMES M COX DAYTON INTL	<u>AIRPORT ID</u> KDAY	<u>PROCEDURE NAME</u> ILS OR LOC RWY 18	<u>AMDT NO.</u> 11	<u>CITY</u> DAYTON	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 1009	<u>FACILITY</u> I-DAY
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PART E: PREPARED BY

<u>NAME</u> DONALD H. LANIER (MATTHEW FULKS)	<u>OFFICE</u> AJV-A431	<u>DATE</u> 06/24/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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