

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> BOLTON FIELD	<u>AIRPORT ID</u> KTZR	<u>PROCEDURE NAME</u> ILS OR LOC RWY 4	<u>ORIGINAL/AMENDMENT</u> 5B	<u>CITY</u> COLUMBUS	<u>STATE</u> OH	
<u>AIRPORT ELEVATION</u> 904	<u>TDZE</u> 904	<u>SUPERSEDED</u> ILS OR LOC RWY 4	<u>ORIGINAL/AMENDMENT</u> 5A	<u>DATED</u> 09/13/2018	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> I-BUZ	<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>

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.38 NM AFTER BOUTN LOM

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 2700 DIRECT BU LOM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 4000 DIRECT CSS NDB AND HOLD.

PROFILE:

1. PT R **SIDE OF COURSE** 217.16 **OUTBOUND** 2700 **FT WITHIN** 10 **MILES OF** BOUTN LOM (IAF)

2.

3. **FAC:** 037.16 **FAF:** BOUTN LOM **DIST FAF TO MAP:** 5.38 **DIST FAF TO THLD:** 5.38

4. **MIN ALT:** BOUTN LOM 2700

5. **DIST TO THLD FROM OM:** 5.38 **MM:** **IM:** **150 HAT:** **GS ANT:** 750

6. **MIN GS INCPT:** 2700 **GS ALT AT FAF :** **OM:** 2682 **MM:** **IM:**

7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 40.5

8. **MSA FROM:** BU LOM 3100

EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED.
RADAR REQUIRED FOR PROCEDURE ENTRY

NOTES:

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1144.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).



ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART IN PLANVIEW: CSS NDB
FAS OBST: 1109 AAO 395014N/0831121W.
1159 AAO 394941N/0831258W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE CSS NDB, LT, 222.80 INBOUND.
HOLD SW, LT, 037.17 INBOUND

MINIMUMS:

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

ALTERNATE: NA

☐

ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.

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 04	1104	1/2	200	1104	1/2	200	1104	1/2	200	1104	1/2	200			
S-LOC 04	1360	1/2	456	1360	1/2	456	1360	7/8	456	1360	1	456			
CIRCLING	1360	1	456	1380	1	476	1380	1 1/2	476	1500	2	596			

CHANGES - REASONS

1. CHART NOTE: ADDED "AUTOPILOT COUPLED APPROACH NA BELOW 1144 FEET" - FLIGHT CHECK RESULT 2/21/9, REASON: COURSE REVERSAL
2. REMOVED ADDITIONAL FLIGHT DATA CHART NOTE FOR FIX (CFDTP). NO LONGER REQUIRED
3. INCREASED S-LOC 04 HAT/MDA FOR ALL CATS FROM "436/1340" TO "456/1360" - NEW CONTROLLING OBSTACLE ON FINAL.
4. INCREASED S-LOC 04 VISIBILITY CAT C FROM "3/4 SM" TO "7/8 SM" - INCREASED HAT FOR CAT C
5. CHANGED ADDITIONAL FLIGHT DATA NOTE: FROM "CHART FAS OBST: 1044 TOWER 395228N/0830903W" TO " FAS OBST: 1109 MSL AAO 395014N/08331121W" - NEW CONTROLLING OBSTACLE

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID, CMH APPCON, TZR ATCT, AMGR

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY

DONALD H. LANIER (CHRISTOPHER SCHONES)

APPROVED BY

GEORGE DAVIS

Digitally signed by

WARDELL HENNING

Aug 16, 2019

OFFICE

Digitally signed by

DATE

WARDELL HENNING

Aug 16, 2019

OFFICE

AJV-A431

DATE

06/19/2019

OFFICE

AJV-A430

DATE

TITLE
MANAGER

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

<u>AIRPORT</u> BOLTON FIELD	<u>AIRPORT ID</u> KTZR	<u>PROCEDURE NAME</u> ILS OR LOC RWY 4	<u>AMDT NO.</u> 5B	<u>CITY</u> COLUMBUS	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 904	<u>FACILITY</u> I-BUZ
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PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE: PT

<u>FROM</u> 10 NM	<u>TO</u> BOUTN LOM
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<u>RNP</u>	<u>DISTANCE</u> 10.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<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.TOWER (39-002288)	394815.00N/0831157.00W		1226	50	20	2C	500				AT974	2700
4.TERRAIN	395228.00N/0832133.00W		959 (1000)								AS1500	2500

COMPUTATIONS

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

FINAL: ILS

<u>FROM</u> GP INTCP	<u>TO</u> RW04
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<u>RNP</u>	<u>DISTANCE</u> 5.44	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 200	<u>HMAS</u>							
<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				1104

COMPUTATIONS

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



FINAL: LOC

FROM

BOUTN LOM

TO

5.38 NM AFTER BOUTN LOM

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	5.38		5.38 NM AFTER BOUTN LOM	456								
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
5.AAO	395013.68N/0831121.31W	1109	50	20	2C	250					1360	

COMPUTATIONS

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

PROCEDURE TURN

FROM

BU LOM

TO

10 NM

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
6.TOWER (39-003180)	394225.00N/0832727.00W	1320	250	50	4D	1000				AT380	2700	
7.TERRAIN	394403.00N/0832830.00W	1073 (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:



MISSED APPROACH : ILS

FROM
DA

TO
BOUTN LOM

RNP	DISTANCE	PAT	MAP	HAT			HMAS 939					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2700
8.TOWER (39-000578)	395331.00N/0830244.00W		1318	50	20	2C	1000				AT382	2700
9.TERRAIN	395209.00N/0831400.00W		942 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LOC

FROM
5.38 NM AFTER BOUTN LOM

TO
BOUTN LOM

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1110					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2700
8.TOWER (39-000578)	395331.00N/0830244.00W		1318	50	20	2C	1000				AT382	2700
9.TERRAIN	395209.00N/0831400.00W		942 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY				
BOLTON FIELD	KTZR	ILS OR LOC RWY 4	5B	COLUMBUS	OH	904	I-BUZ				
MISSED APPROACH ALTERNATE : ILS											
FROM			TO								
DA			CSS NDB								
RNP	DISTANCE	PAT	MAP	HAT		HMAS					
						939					
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
10.TOWER (39-003180)	394225.00N/0832727.00W	1320	250	50	4D	1000					2400
11.TERRAIN	394254.00N/0832803.00W	1054 (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

5.38 NM AFTER BOUTN LOM

TO

CSS NDB

RNP

DISTANCE

PAT

MAP

HAT

HMAS

1110

OBSTRUCTION

COORDINATES

ELEV MSL

HORZ

VERT

AC

ROC

OCS

CG

CGTA

ADJUSTMENTS

MIN ALT

ASC

4000

10.TOWER (39-003180)

394225.00N/0832727.00W

1320

250

50

4D

1000

2400

11.TERRAIN

394254.00N/0832803.00W

1054 (1100)

AS1500

2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
TZR TOWER, ZID ARTCC, CMH APP CON

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KTZR	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KTZR	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KCMH	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCMH	<u>DISTANCE</u> 12.67	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 42

WX REMARKS:
RASS (PRESSURE PATTERNS SAME) KTZR 904.0 MSL, KCMH 815.0 MSL RA=41.63 RASS ROUNDED TO 42 FEET FOR ALL DA AND 60 FEET FOR ALL MDA.

<u>PRIMARY NAVAID</u> I-BUZ	<u>MONITOR POINT</u> TZR ATCT	<u>HRS OPERATION</u> TOWER OPEN TOWER CLOSED	<u>CAT</u> 1 3
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW04 - MALSR (PCL), MIRL (PCL), PAPI-4L	PIR-G	
RW22 - MIRL (PCL), REIL (PCL), PAPI-4L	PIR-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 901.6	<u>TCH</u> 40.5	<u>ELEV GS ANTENNA</u> 899.4	<u>DISTANCE FROM RWY</u> 750	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 25.0
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<u>FINAL APPROACH COURSE AIMING</u>			
RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

<u>CRITICAL TEMPERATURES</u>			
<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>

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 - FINAL FACILITY DOES NOT HAVE DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

JOHN GLENN COLUMBUS INTL ALTIMETER ADJUSTMENTS AND NOTES FOR CONTINGENCY USE:
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JOHN GLENN COLUMBUS INTL ALTIMETER SETTING: INCREASE S-ILS 4 DA TO 1146; INCREASE ALL MDA 60 FEET AND S-LOC 4 CAT C VISIBILITY 1/8 SM. FOR INOPERATIVE ALS, WHEN USING JOHN GLENN COLUMBUS INTL ALTIMETER SETTING, INCREASE S-LOC 4 CATS C/D VISIBILITY TO 1 3/8 SM.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1159 AAO 394941.19N/0831258.13W.

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



<u>AIRPORT</u> BOLTON FIELD	<u>AIRPORT ID</u> KTZR	<u>PROCEDURE NAME</u> ILS OR LOC RWY 4	<u>AMDT NO.</u> 5B	<u>CITY</u> COLUMBUS	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 904	<u>FACILITY</u> I-BUZ
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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	2.38
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.74
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	032.16
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	942
DISTANCE FROM	THLD	TO 1500FT POINT	4.52
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	032.16
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	942

THRESHOLD
COORDINATES
(IF STR-IN)

395341.19N/0830831.64W

ARP COORDINATES

395404.20N/0830812.90W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 22 DISTANCE 0.45 NM

FAF
COORDINATES

394908.38N/0831216.13W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

QUALITY
16
CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> DONALD H. LANIER (CHRISTOPHER SCHONES)	<u>OFFICE</u> AJV-A431	<u>DATE</u> 06/19/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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