

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
TACAN STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.23

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 ID</u> KTCL	<u>PROCEDURE NAME</u> TACAN RWY 22		<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> TUSCALOOSA	<u>STATE</u> AL	
<u>AIRPORT ELEVATION</u> 170	<u>TDZE</u> 164	<u>SUPERSEDED</u> TACAN RWY 22	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 09/08/2022	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> LDK TACAN	<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>
OKW VORTAC	IAF	SABNN/OKW 5.00 DME					300.19	5.00	2300
SABNN/OKW 5.00 DME		HOLTY INT/LDK 7.00 DME					300.19	4.79	2200
ZIVMU/LDK 7.00 DME CCW	IAF	HOLTY INT/LDK 7.00 DME					7.00 DME ARC		2200
CAYAP/LDK 7.00 DME CW	IAF	HOLTY INT/LDK 7.00 DME					7.00 DME ARC		2200
HOLTY INT/LDK 7.00 DME	IF	REDSS/LDK 4.00 DME					241.44	3.00	1900
REDSS/LDK 4.00 DME		LDK TACAN					241.44	4.00	1500

**MISSED APPROACH**

**MAP:**

LDK 4.03 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMBING LEFT TURN TO 2300 ON HEADING 060 AND LDK TACAN R-098 TO ZIVMU/LDK 7.00 DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF      (IAF)
2. PROFILE STARTS AT HOLTY
3. FAC: 241.49      FAF: LDK TACAN      DIST FAF TO MAP:      DIST FAF TO THLD: 4.03
4. MIN ALT:    HOLTY INT/LDK 7.00 DME 2200, REDSS/LDK 4.00 DME 1900, LDK TACAN 1500
8. MSA FROM:    LDK TACAN 3700

QUALITY  
10  
CHECKED

**EQUIPMENT REQUIREMENTS NOTES:**

NOTES:

CHART NOTE: CIRCLING RWY 12, 30 NA AT NIGHT.  
CHART NOTE: RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 277.50 INBOUND.  
FAS OBST: 540 AAO 331524N/0873305W.  
580 AAO 331609N/0873245W.  
CHART VDP AT 2.21 DME  
DISTANCE VDP TO THLD 1.83 NM.  
CHART LDK R-098 AT ZIVMU.  
CHART LDK R-307 AT CAYAP.  
CHART CIRCLING ICON.  
LDK TO RW22: 3.00/50.

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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-22	800	1	636	800	1	636	800	1 3/4	636	800	1 3/4	636			
CIRCLING	800	1	630	800	1	630	960	2 1/4	790	960	2 1/2	790			

CHANGES - REASONS  
1. ADDED "LDK TO RW22: 3.00/50" IN ADDITIONAL FLIGHT DATA.

COORDINATED WITH:  
A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZTL, BHM APP CON, TCL ATCT, AMGR

FLIGHT CHECKED BY  
PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE  
FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

DEVELOPED BY  
JASON KRETSCHMER (DANIEL C JOHNSEN)

RECOMMENDED BY  
MARLON J. ROBINSON

APPROVED BY

Digitally signed by  
JASON KRETSCHMER  
Aug 16, 2022

Digitally signed by  
JASON KRETSCHMER  
Aug 16, 2022

OFFICE  
Digitally signed by  
JASON KRETSCHMER  
Aug 16, 2022  
OFFICE  
AJV-A421  
DATE  
08/04/2022

OFFICE  
AJV-A420  
DATE  
TITLE  
MANAGER



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

<u>AIRPORT ID</u> KTCL	<u>PROCEDURE NAME</u> TACAN RWY 22	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> TUSCALOOSA	<u>STATE</u> AL	<u>AIRPORT ELEVATION</u> 170	<u>FACILITY</u> LDK TACAN
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM  
OKW VORTAC

TO  
SABNN/OKW 5.00 DME

<u>RNP</u>	<u>DISTANCE</u> 5.00	<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>
TOWER (01-057727)	331824.55N/0871754.28W		1039	20	3	1A	1000					2100
TERRAIN	331830.00N/0871748.00W		777 (800)								AS1500	2300

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM  
SABNN/OKW 5.00 DME

TO  
HOLTY INT/LDK 7.00 DME

<u>RNP</u>	<u>DISTANCE</u> 4.79	<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>
TOWER (01-003041)	332018.95N/0872131.90W		1020	500	125	5E	1000					2100
TERRAIN	331939.00N/0871812.00W		725 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL: ARC

FROM

ZIVMU/LDK 7.00 DME CCW

TO

HOLTY INT/LDK 7.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (01-003041)	332018.95N/0872131.90W		1020	500	125	5E	1000					2100
TERRAIN	331951.00N/0872012.00W		672 (700)								AS1500	2200

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

INITIAL: ARC

FROM

CAYAP/LDK 7.00 DME CW

TO

HOLTY INT/LDK 7.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (01-003041)	332018.95N/0872131.90W		1020	500	125	5E	1000					2100
TERRAIN	332003.00N/0872027.00W		666 (700)								AS1500	2200

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



INTERMEDIATE

FROM  
HOLTY INT/LDK 7.00 DME

TO  
REDSS/LDK 4.00 DME

RNP	DISTANCE 3.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	332236.00N/0872648.00W		798	164	98	4E	500				AC98 AT504	1900
TERRAIN	332009.00N/0872954.00W		577 (600)								AS1000	1600

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

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM  
REDSS/LDK 4.00 DME

TO  
LDK TACAN

RNP	DISTANCE 4.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	332009.00N/0872954.00W		778	164	98	4E	500					1300
TERRAIN	332003.00N/0872957.00W		534 (500)								AS1000	1500

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

SEGMENT REMARKS:



FINAL

FROM  
LDK TACAN

TO  
LDK 4.03 DME

RNP	DISTANCE 4.03	PAT	MAP LDK 4.03 DME	HAT 636	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	331524.40N/0873305.20W		540	50	20	2C	250					800

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

FROM  
LDK 4.03 DME

TO  
ZIVMU/LDK 7.00 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS 550							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2300
TOWER (01-001229)	330929.69N/0873056.78W		896	50	20	2C	1000					1900
TERRAIN	331924.00N/0872915.00W		554 (600)								AS1500	2100

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



AIRPORT ID  
KTCL

PROCEDURE NAME  
TACAN RWY 22

AMDT NO.  
ORIG-A

CITY  
TUSCALOOSA

STATE  
AL

AIRPORT ELEVATION  
170

FACILITY  
LDK TACAN

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											
TREE (01-022718)	331458.35N/0873710.25W	1.30	630	401	20	3	1A	300		SI	800
CATEGORY B											
TOWER (01-002864)	331511.00N/0873643.00W	1.81	630	450	250	50	4D	300		AC50	800
CATEGORY C											
BUILDING (01-020151)	331231.64N/0873304.19W	2.84	790	598	500	50	5D	300		AC50	960
CATEGORY D											
AAO	331657.70N/0873442.70W	3.71	790	600	50	20	2C	300			960

CIRCLING REMARKS:

MSA

CENTER  
LDK TACAN

RADIUS  
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (01-000975)	332851.00N/0872403.00W	030	14.9	2675	500	125	5E	1000			3700

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VEGETATION HEIGHT: 100 FEET.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
BHM APP CON, TCL TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KTCL	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KTCL	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KBHM	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KBHM	<u>DISTANCE</u> 47.74	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 178

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KTCL 170, KBHM 644  
RA = 177.2.

<u>PRIMARY NAVAID</u> LDK TACAN	<u>MONITOR POINT</u> AOCC	<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>
RW12 - MIRL		BSC-F	
RW30 - MIRL, PAPI-4R		BSC-F	
RW04 - MALSR (PCL), HIRL (PCL)		PIR-G	
RW22 - HIRL (PCL), PAPI-4L (PCL)		PIR-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 50.4
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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

Final Type	CIRCLING RWY 12
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AIRPORT ID		PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KTCL		TACAN RWY 22	ORIG-A	TUSCALOOSA	AL	170	LDK TACAN
20:1							
224 TREE (01-022744) 331347.06N/0873708.77W (19.45)				220 TREE (01-045591) 331348.15N/0873710.78W (5.35)			
181 VEHICLES ON ROAD (01-022883) 331348.00N/0873701.07W (3.6)				190 VEHICLES ON ROAD (01-022743) 331349.11N/0873703.17W (2.11)			
200 TREE (01-022876) 331347.18N/0873707.16W (1.3)							
Final Type	CIRCLING RWY 30						
20:1							
252 TREE (01-029590) 331319.25N/0873604.69W (38.71)				239 TREE (01-022747) 331319.63N/0873603.78W (23.11)			
244 TREE (01-022748) 331318.80N/0873602.25W (20.43)				217 TREE (01-022878) 331321.21N/0873605.41W (10.87)			
230 TREE (01-045284) 331319.96N/0873602.23W (8.97)				201 TREE (01-022746) 331322.37N/0873608.09W (7.68)			
203 TREE (01-025074) 331324.15N/0873606.10W (6.13)							
Final Type	S-04						
34:1							
239 TREE (01-025178) 331339.63N/0873604.12W (23.66)				226 TREE (01-025159) 331335.81N/0873606.16W (22.57)			
247 TREE (01-025186) 331344.27N/0873603.93W (20.94)				247 TREE (01-025322) 331343.66N/0873602.62W (20.16)			
246 TREE (01-045285) 331345.13N/0873604.83W (19.49)				246 TREE (01-025287) 331342.60N/0873558.91W (15.45)			
234 TREE (01-025177) 331340.17N/0873602.36W (14.56)				232 TREE (01-025176) 331341.77N/0873605.16W (13.56)			
227 TREE (01-025174) 331336.92N/0873601.20W (12.94)				230 TREE (01-025179) 331339.07N/0873602.03W (12.48)			
244 TREE (01-025288) 331343.60N/0873559.52W (12.21)				236 TREE (01-029775) 331342.65N/0873603.06W (12.14)			
226 TREE (01-025164) 331340.82N/0873606.42W (11.76)				240 TREE (01-025325) 331344.72N/0873602.57W (10.7)			
236 TREE (01-028023) 331345.09N/0873605.23W (10.23)				221 TREE (01-025244) 331340.92N/0873608.60W (10.11)			
238 TREE (01-025323) 331342.88N/0873600.76W (9.86)				225 TREE (01-022740) 331338.98N/0873602.58W (8.59)			
229 TREE (01-025243) 331343.18N/0873605.86W (8.55)				263 TREE (01-025329) 331351.37N/0873556.26W (8.44)			
221 TREE (01-025273) 331341.26N/0873607.48W (7.51)				204 TREE (01-025248) 331332.00N/0873605.05W (7.29)			
197 TREE (01-022737) 331329.77N/0873606.25W (7.26)				201 TREE (01-025249) 331332.19N/0873606.96W (7)			
237 TREE (01-025326) 331344.04N/0873600.93W (6.53)				203 TREE (01-025161) 331334.60N/0873608.12W (5.5)			
225 TREE (01-027968) 331341.04N/0873603.28W (5.12)				232 TREE (01-025321) 331341.91N/0873559.97W (4.74)			
261 TREE (01-025330) 331351.19N/0873554.92W (4.64)				241 TREE (01-025283) 331342.27N/0873554.80W (4.45)			
199 TREE (01-045388) 331333.29N/0873607.61W (3.6)				212 TREE (01-045288) 331338.67N/0873606.92W (3.4)			
195 TREE (01-025259) 331330.88N/0873606.54W (3.25)				227 TREE (01-025183) 331340.05N/0873559.49W (3.12)			

QUALITY  
10  
CHECKED

262 TREE (01-025346) 331352.71N/0873555.08W (2.5)	223 TREE (01-025185) 331340.36N/0873601.08W (1.03)
223 TREE (01-025324) 331341.42N/0873601.96W (0.1)	300 TREE (01-025252) 331356.43N/0873535.48W (0.01)

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FOR CONTINGENCY PURPOSES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BIRMINGHAM ALTIMETER SETTING AND INCREASE ALL MDAS 180 FEET AND VISIBILITIES CATS B, C, AND D 3/4 SM. VDP NA WHEN USING BIRMINGHAM ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 580 AAO 331609.10N/0873245.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<div>AIRPORT ID</div> <div>KTCL</div>	<div>PROCEDURE NAME</div> <div>TACAN RWY 22</div>	<div>AMDT NO.</div> <div>ORIG-A</div>	<div>CITY</div> <div>TUSCALOOSA</div>	<div>STATE</div> <div>AL</div>	<div>AIRPORT ELEVATION</div> <div>170</div>	<div>FACILITY</div> <div>LDK TACAN</div>
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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	3.70
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.77
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	238.49
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	400
DISTANCE FROM	THLD	TO 1500FT POINT	10.83
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	7.83
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	238.44
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	600

THRESHOLD  
COORDINATES  
(IF STR-IN)

331325.05N/0873618.85W

ARP COORDINATES

331314.26N/0873641.05W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 4 DISTANCE 0.74 NM

FAF  
COORDINATES

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY

10

CHECKED

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

Electronic Version

Page 9 of 10

PART E: PREPARED BY

<u>NAME</u> JASON KRETSCHMER (DANIEL C JOHNSEN)	<u>OFFICE</u> AJV-A421	<u>DATE</u> 08/04/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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