

**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><b>AIRPORT ID</b></u> KSQI	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 7	<u><b>ORIGINAL/AMENDMENT</b></u> 1A	<u><b>CITY</b></u> STERLING/ROCKFALLS	<u><b>STATE</b></u> IL		
<u><b>AIRPORT ELEVATION</b></u> 648	<u><b>TDZE</b></u> 648	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 7	<u><b>ORIGINAL/AMENDMENT</b></u> 1	<u><b>DATED</b></u> 07/19/2018	<u><b>MAG VAR</b></u> 2W	<u><b>EPOCH YEAR</b></u> 2020
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u>	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>CANCEL/SUSPEND</b></u>		

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
CVA VORTAC	IAF	KEBEY		TF	FB	1.00	096.45	25.28	2700
GENSO	IAF	KEBEY		TF	FB	1.00	039.97	23.78	2700
KEBEY	IF	JIGRO		TF	FB	1.00	071.98	6.03	2400
JIGRO	FAF	IROCI/1.90 NM TO RW07		TF	FB	0.30	072.07	3.45	
IROCI/1.90 NM TO RW07		RW07	MAP	TF	FO	0.30	072.07	1.90	
RW07	MAP	1020 MSL		CA			072.07		
1020 MSL		HELEG		DF	FO	1.00			2700

**MISSED APPROACH**

**MAP:**

LNAV: RW07

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2700 DIRECT HELEG AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

QUALITY  
10  
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT KEBEY

3. FAC: 072.07

FAF: JIGRO

DIST FAF TO MAP: 5.35

DIST FAF TO THLD: 5.35

4. MIN ALT: KEBEY 2700, JIGRO 2400, IROCI/1.90 NM TO RW07 1300

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH:

8. MSA FROM: RW07 2500

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 7 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GENSO ON V8-38 WESTBOUND.  
PROCEDURE NA FOR ARRIVAL ON CVA VORTAC AIRWAY RADIAL 083 WESTBOUND.

ADDITIONAL FLIGHT DATA:

JIGRO TO RW07: 3.00/49  
HOLD E, RT, 252.32 INBOUND.  
CHART FAS OBST: 769 TREE 414342N/0894222W.  
CHART VDP AT 1.01 NM TO RW07.  
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4, 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
LNAV MDA	1020	1	372	1020	1	372	1020	1	372	1020	1	372			
CIRCLING	1140	1	492	1140	1	492	1160	1 1/2	512	1480	2 3/4	832			

CHANGES - REASONS

1. LINE 7: ADDED 20:1 IS CLEAR. - NO 20:1 PENETRATIONS EXIST.
2. REMOVED CHART NOTE: DME/DME RNP-0.3 NA; ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS. - IAW 8260.58B TABLE 1-2-1.
3. REMOVED CHART NOTE: CIRCLING RWY 36 NA AT NIGHT. - NO 20:1 PENETRATIONS EXIST ON RWY 36.
4. CHANGED CHART PLANVIEW NOTE FROM: "PROCEDURE NA FOR ARRIVAL ON CVA VORTAC AIRWAY RADIALS 057 CW 083" TO: "PROCEDURE NA FOR ARRIVAL ON CVA VORTAC AIRWAY RADIAL 083 WESTBOUND" - TURN CRITERIA REQUIREMENTS /TURN NOT EXCEEDING 90 DEGREES.
5. ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" TO ALTERNATE MINIMUMS - CURRENT CRITERIA REQUIREMENTS.



**COORDINATED WITH:**

**A4A** ☐    **ALPA** ☒    **AOPA** ☒    **APA** ☐    **HAI** ☐    **NBAA** ☒    **OTHER:** ZAU, RFD APP CON, AMGR

**FLIGHT CHECKED BY**

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

**OFFICE**

*Digitally signed by*

**DATE**

**DAVID TEFFETELLER**

Aug 03, 2023

**DEVELOPED BY**

CASIMIR L. TABAKA (BARBARA GORMAN)

*Digitally signed by*

**OFFICE**

**DATE**

**DAVID TEFFETELLER**

AJV-A432

04/10/2023

**APPROVED BY**

CASIMIR TABAKA

*Digitally signed by*

Aug 03, 2023

**DAVID TEFFETELLER**

**OFFICE**

**DATE**

AJV-A430

**TITLE**  
MANAGER

Aug 03, 2023



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

<u>AIRPORT ID</u> KSQI	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7	<u>AMDT NO.</u> 1A	<u>CITY</u> STERLING/ROCKFALLS	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 648	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM

CVA VORTAC

TO

KEBEY

RNP

DISTANCE

25.28

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>
TOWER (19-000834)	413758.00N/0902438.00W	1691	500	50	5D	1000					2700
TERRAIN	414157.00N/0902215.00W	857 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

GENSO

TO

KEBEY

RNP

DISTANCE

23.78

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>
TOWER (17-001724)	412255.04N/0901044.47W	1177	20	3	1A	1000				AT523	2700
TERRAIN	412133.00N/0901333.00W	840 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY  
10  
CHECKED

INTERMEDIATE

FROM

KEBEY

TO

JIGRO

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.03											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	413918.00N/0895630.00W		870	164	98	4E	500				AC98 AT932	2400
TERRAIN	413918.00N/0895630.00W		670 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

JIGRO

TO

IROC/1.90 NM TO RW07

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	3.45											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	414332.00N/0894615.00W		859	50	20	2C	250				RA77 DG114	1300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

IROCI/1.90 NM TO RW07

TO

RW07

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	1.90		RW07			372					
<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>
TREE	414342.00N/0894222.00W	769	50	20	2C	250					1020

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 : LNAV

FROM

RW07

TO

HELEG

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 920				
<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				2700
TOWER (17-022318)	414805.55N/0892940.33W	1015	250	50	4D	1000					2100
TERRAIN	414642.00N/0892427.00W	803 (800)								AS1500	2300

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



**FACILITY**  
RNAV

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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
RFD APP CON, ZAU ARTCC, IKK FSS

<u>WX SERVICE</u> AWOS-3PT	<u>LOCATION</u> KSQI	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KSQI	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3PT	<u>LOCATION</u> KCWI	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCWI	<u>DISTANCE</u> 29.77	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 77

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KSQI 648, KCWI 708  
RA = 76.9.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW18 - MIRL (PCL), REIL (PCL)		BSC-G	
RW36 - MIRL (PCL), REIL (PCL)		BSC-G	
RW07 - HIRL (PCL), REIL (PCL), PAPI-4L		NPI-F	
RW25 - MALSR (PCL), HIRL (PCL)		PIR-F	

<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> 48.8
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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

Final Type	LNAV
34:1	
716 TREE (17-032585) 414412.87N/0894125.48W (23.01)	709 TREE (17-032587) 414413.66N/0894123.68W (20.59)
713 TREE (17-032584) 414411.51N/0894124.59W (20.5)	720 TREE (17-032678) 414412.48N/0894129.31W (18.59)
702 TREE (17-056722) 414415.12N/0894124.44W (13.47)	702 TREE (17-031677) 414412.54N/0894125.45W (8.74)
698 TREE (17-032588) 414415.98N/0894125.30W (8.54)	694 TREE (17-032589) 414419.40N/0894125.34W (7.91)
707 TREE (17-032679) 414411.50N/0894127.91W (7.53)	688 TREE (17-033953) 414419.74N/0894123.63W (5.84)
714 TREE (17-032681) 414412.45N/0894132.89W (5.05)	696 TREE (17-056723) 414415.01N/0894125.66W (4.8)
732 TREE (17-032702) 414409.54N/0894140.86W (3.39)	

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 CLINTON ALTIMETER SETTING AND INCREASE ALL MDAS 80 FEET, INCREASE LNAV CAT C AND D VISIBILITY 3/8 SM AND CIRCLING CAT D 1/4 SM.  
VDP NA WHEN USING CLINTON ALTIMETER SETTING.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KSQI	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7	<u>AMDT NO.</u> 1A	<u>CITY</u> STERLING/ROCKFALLS	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 648	<u>FACILITY</u> RNAV
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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	3.02
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	070.07
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	700
DISTANCE FROM	THLD	TO 1500FT POINT	4.95
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	070.07
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	700

THRESHOLD  
COORDINATES  
(IF STR-IN)

414421.03N/0894104.97W

ARP COORDINATES

414434.20N/0894034.60W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 25 DISTANCE 0.64 NM

FAF  
COORDINATES

414231.74N/0894748.02W

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY  
10  
CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> CASIMIR L. TABAKA (BARBARA GORMAN)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 04/10/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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