

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
LOC BC STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.25**

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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
SQI	LOC BC RWY 7	7A	STERLING/ROCKFALLS	IL		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
648	648	LOC BC RWY 7	7	01/25/2024	2W	2020
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
I-SQI	414417.67N/0894117.37W		ROUTINE			

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>
CVA VORTAC	IAF	GIBON/22.19 DME					094.21	22.19	2700
GIBON/22.19 DME	IF	JIGRO/I-SQI 5.18 DME					072.14 (I-SQI)	9.49	2400

MISSED APPROACH

MAP:

LOC: HUNAX/I-SQI 0.49 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 ON I-SQI LOCALIZER E COURSE 072 TO REVCO/I-SQI 11.89 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | |
|---|---------------------------|----------|------------------|-------------------|-------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. PROFILE STARTS AT GIBON/22.19 DME | | | | | |
| 3. FAC: 072.14 | FAF: JIGRO/I-SQI 5.18 DME | | DIST FAF TO MAP: | DIST FAF TO THLD: | 5.35 |
| 4. MIN ALT: JIGRO/I-SQI 5.18 DME 2400, IROC/I-SQI 1.72 DME 1300 | | | | | |
| 8. MSA FROM: ARP KSQI 2600 | | | | | |



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: RWY 7 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CVA VORTAC AIRWAY RADIALS 083 CW 149.
CHART PROFILE NOTE: DISREGARD GS INDICATIONS.

ADDITIONAL FLIGHT DATA:

CHART IN PROFILE VIEW: I-SQI DME ANTENNA
CHART IN PLANVIEW: CVA VORTAC 22.2 DME AT GIBON.
HOLD E, RT, 252.15 INBOUND.
CHART FAS OBST: 732 TREE (17-032702) 414410N/0894141W.
JIGRO TO RW07: 3.00/49.
CHART CIRCLING ICON.

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
S-LOC 07	1000	1	352	1000	1	352	1000	1	352	1000	1	352			
CIRCLING	1140	1	492	1140	1	492	1160	1 1/2	512	1480	2 3/4	832			

CHANGES - REASONS

1. DELETED BDF R-328 AND ASSOCIATED INFORMATION – BDF VOR MON.

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
Digitally signed by
CASIMIR L TABAKA

OFFICE

DATE

DEVELOPED BY

CASIMIR L. TABAKA (RONALD K. STROBACH)
Digitally signed by
CASIMIR L TABAKA
Mar 12, 2025

OFFICE

AJV-A432

DATE

10/16/2024

APPROVED BY

CASIMIR L. TABAKA
Digitally signed by
CASIMIR L TABAKA
Mar 12, 2025

OFFICE

AJV-A432

DATE

TITLE
MANAGER



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

<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>
SQI	LOC BC RWY 7	7A	STERLING/ROCKFALLS	IL	648	I-SQI

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM CVA VORTAC **TO** GIBON/22.19 DME

<u>RNP</u>	<u>DISTANCE</u> 22.19	<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 (19-000834)	413758.00N/0902438.00W	1691	500	50	5D	1000				SA-507 AT516	2700
TERRAIN	414157.00N/0902215.00W	856 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM GIBON/22.19 DME **TO** JIGRO/I-SQI 5.18 DME

<u>RNP</u>	<u>DISTANCE</u> 9.49	<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 (17-002510)	414033.48N/0900320.98W	933	50	20	2C	500				AT967	2400
TERRAIN	413606.00N/0895706.00W	692 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
10
CHECKED

FINAL: LOC

FROM

JIGRO/I-SQI 5.18 DME

TO

IROCI/I-SQI 1.72 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
	3.45										
<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>
AAO	414336.00N/0894524.00W	850	215	8	4B	250				RA77 DG123	1300

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LOC STEPDOWN

FROM

IROCI/I-SQI 1.72 DME

TO

HUNAX/I-SQI 0.49 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	1.24		HUNAX/I-SQI 0.49 DME				352				
<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 (17-032702)	414409.54N/0894140.86W	732	50	20	2C	250					1000

COMPUTATIONS

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

SEGMENT REMARKS:



MISSSED APPROACH: LOC

FROM

HUNAX/I-SQI 0.49 DME

TO

REVCO/I-SQI 11.89 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 750			
<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 (17-000513)	415106.00N/0893127.00W	1100	250	50	4D	1000					2100
TERRAIN	415245.00N/0892854.00W	826 (800)								AS1500	2300

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											
TANK (17-001129)	414541.00N/0894158.00W	1.30	492	823	20	10	1B	300			1140
CATEGORY B											
TANK (17-001129)	414541.00N/0894158.00W	1.83	492	823	20	10	1B	300			1140
CATEGORY C											
TOWER (17-002163)	414533.29N/0893638.34W	2.87	512	860	20	3	1A	300			1160
CATEGORY D											
TOWER (17-000047)	414822.00N/0893932.00W	3.75	832	1120	250	50	4D	300		AC50	1480

CIRCLING REMARKS:

MSA

CENTER

ARP KSQI

RADIUS

25



SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	WINDMILL (17-082937)	414006.11N/0890235.78W	101	28.8	1528	250	50	4D	1000			2600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VEGETATION HEIGHT 100' PER FPT

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZAU ARTCC, RFD TOWER, MLI TOWER

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3PT	SQI	24	SQI	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3PT	CWI	24	CWI	29.77	Y	77

WX REMARKS:

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

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
I-SQI	UNKNOWN	24	3

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW18 - REIL (PCL), MIRL (PCL)	BSC-G	
RW36 - MIRL (PCL), REIL (PCL)	BSC-G	
RW07 - REIL (PCL), HIRL (PCL), PAPI-4L	NPI-F	
RW25 - MALSR (PCL), HIRL (PCL)	PIR-F	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
			643.0	1027	3.00	48.8

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	X	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	S-LOC
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)

<u>AIRPORT ID</u> SQI	<u>PROCEDURE NAME</u> LOC BC RWY 7	<u>AMDT NO.</u> 7A	<u>CITY</u> STERLING/ROCKFALLS	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 648	<u>FACILITY</u> I-SQI
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)						
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL ' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - VDP IS LESS THAN 0.5NM BEFORE MAP.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CWI ALTIMETER SETTING AND INCREASE ALL MDAS 80 FEET AND S-LOC 7 VISIBILITY CAT C AND D 1/4 SM, AND CIRCLING VISIBILITY CAT D 1/4 SM.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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	0.87
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	070.14
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	700
DISTANCE FROM	THLD	TO 1500FT POINT	4.95
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.29
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	070.14
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	IF GIBON 413916.89N/0895942.14W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.



AERONAUTICAL INFORMATION SPECIALIST

