

**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 ID</u> SLC	<u>PROCEDURE NAME</u> ILS OR LOC RWY 16R ILS RWY 16R (SA CAT I) ILS RWY 16R (CAT II) ILS RWY 16R (CAT III)	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> SALT LAKE CITY	<u>STATE</u> UT		
<u>AIRPORT ELEVATION</u> 4231	<u>TDZE</u> 4226	<u>SUPERSEDED</u> ILS OR LOC RWY 16R ILS RWY 16R (SA CAT I) ILS RWY 16R (CAT II) ILS RWY 16R (CAT III)	<u>ORIGINAL/AMENDMENT</u> 3E	<u>DATED</u> 11/08/2018	<u>MAG VAR</u> 11E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-UAT	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 FEBRUARY 2025	<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>
EKKHO	IAF	RRUFF/22.40 DME/RADAR		TF	FB	1.00	149.28	5.09	9000
WEBER	IAF	RRUFF/22.40 DME/RADAR		TF	FB	1.00	172.75	6.59	9000
FANDS/I-UAT 30.00 DME/RADAR	IAF	RRUFF/I-UAT 22.40 DME/RADAR					163.95 (I-UAT)	7.60	9000
OGD VORTAC	IAF	RRUFF/I-UAT 22.40 DME/RADAR					136.55	5.50	9000
RRUFF/I-UAT 22.40 DME/RADAR	IF	UFEMY/I-UAT 16.27 DME/RADAR					163.95 (I-UAT)	6.13	8000
UFEMY/I-UAT 16.27 DME/RADAR		BHIVE/I-UAT 12.21 DME/RADAR					163.95 (I-UAT)	4.06	7500
BHIVE/I-UAT 12.21 DME/RADAR		BNKER/I-UAT 7.55 DME/RADAR					163.95 (I-UAT)	4.67	6000

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.41 NM AFTER BNKER/I-UAT 7.55 DME/RADAR OR AT I-UAT 2.14 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4800 THEN CLIMBING RIGHT TURN TO 8100 ON HEADING 310 AND ON TCH VORTAC R-249 TO STACO INT/TCH 20.00 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 4700 THEN CLIMBING RIGHT TURN TO 10000 ON HEADING 281. EXPECT RADAR VECTORS. (RADAR REQUIRED). ILS (CAT II - III) MISSED APPROACH REQUIRES MINIMUM CLIMB OF 285 FEET PER NM TO 7420; IF UNABLE TO MEET CLIMB GRADIENT, SEE ILS OR LOC RWY 16R.



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT RRUFF/I-UAT 22.40 DME/RADAR					
3.	FAC:	163.95	FAF:	BNKER/I-UAT 7.55 DME/RADAR	DIST FAF TO MAP:	5.41
4.	MIN ALT:	RRUFF/I-UAT 22.40 DME/RADAR 9000, UFEMY/I-UAT 16.27 DME/RADAR 8000, BHIVE/I-UAT 12.21 DME/RADAR 7500, BNKER/I-UAT 7.55 DME/RADAR 6000				
5.	DIST TO THLD FROM OM:	MM:	IM:	100 HAT:	919	150 HAT: 1872
6.	MIN GS INCPT:	6000	GS ALT AT PFAF:	BNKER/I-UAT 7.55 DME/RADAR 6000	OM:	MM:
7.	GS ANGLE:	3.00	34:1:	20:1:	TCH:	54.4
8.	MSA FROM:	TCH VORTAC 050-230 12700, 230-320 8700, 320-050 10900				

PBN REQUIREMENTS NOTE:

RNP APCH-GPS. FROM EKKHO OR WEBER.

EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RA 154, RVR 1400, HAT 150, DA 4376 MSL
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RA 104, RVR 1200, HAT 100, DA 4326 MSL
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RVR 300,
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OGD VORTAC AIRWAY RADIALS 068 CW 153.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 16R CAT A AND B VISIBILITIES TO RVR 5500, AND CAT C AND D VISIBILITIES TO 1 3/8 SM.
CHART SPEED ICON IN PLANVIEW AT EKKHO: MAX 250 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD W, LT, 069.32 INBOUND.
FAS OBST: 4413 AAO 405151N/1120021W.
CHART VDP AT 3.34 DME.
DISTANCE VDP TO THLD 1.20 NM.
CHART MANDATORY 11000 AT EKKHO.
CHART AT OR ABOVE 12000 AT WEBER.

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 16R	4426	1800	200	4426	1800	200	4426	1800	200	4426	1800	200			
S-LOC 16R	4680	2400	454	4680	2400	454	4680	4500	454	4680	4500	454			



AIRPORT ID

SLC

PROCEDURE NAMEILS OR LOC RWY 16R
ILS RWY 16R (SA CAT I)
ILS RWY 16R (CAT II)
ILS RWY 16R (CAT III)**ORIGINAL/AMENDMENT**

4

CITY

SALT LAKE CITY

STATE

UT

CHANGES - REASONS

1. AIRPORT ELEVATION CHANGED FROM 4227 TO 4231 AND TDZE CHANGED FROM 4223 TO 4226 - UPDATED SURVEY DATA IN AIRNAV 05/03/2017.
2. TERMINAL ROUTES: ADDED INITIAL PBN INITIAL SEGMENTS FROM EKKHO TO RRUFF AND WEBER TO RRUFF - ADDED TO SUPPORT NEW STARS AT KSLC PER ATC.
3. ALL REFERENCES TO FIX BHIVE DISTANCE TO I-UAT CHANGED FROM 12.60 TO 12.21, AND FIX BNKER DISTANCE TO I-UAT CHANGED FROM 7.49 TO 7.55 - FIXES MOVED TO ALIGN WITH NEW DESIGN TCH FOR RWY 16R.
4. TERMINAL ROUTES: INTERMEDIATE SEGMENTS UFEMY/I-UAT 16.27 DME/RADAR TO BHIVE/I-UAT 12.21 DME/RADAR DISTANCE CHANGED FROM 3.67 TO 4.06, AND BHIVE/I-UAT 12.21 DME/RADAR TO BNKER/I-UAT 7.55 DME/RADAR DISTANCE CHANGED FROM 5.11 TO 4.67 - BHIVE AND BNKER MOVED TO ALIGN WITH NEW DESIGN TCH FOR RWY 16R.
5. MAP: LOC CHANGED FROM "5.34 NM AFTER BNKER/I-UAT 7.49 DME/RADAR OR AT I-UAT 2.14 DME" TO "5.41 NM AFTER BNKER/I-UAT 7.55 DME/RADAR OR AT I-UAT 2.14 DME" - BHIVE AND BNKER MOVED TO ALIGN WITH NEW DESIGN TCH FOR RWY 16R.
6. MISSED APPROACH INSTRUCTIONS: HEADING CHANGED FROM 300 TO 310 - TO AVOID RISING TERRAIN TO THE SOUTH PER ATC.
7. ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART): CHANGED FROM "CLIMB TO 4800 THEN CLIMBING RIGHT TURN TO 10000 ON HEADING 280. EXPECT RADAR VECTORS. (RADAR REQUIRED)" TO "CLIMB TO 4700 THEN CLIMBING RIGHT TURN TO 10000 ON HEADING 281. EXPECT RADAR VECTORS. (RADAR REQUIRED). ILS (CAT II - III) MISSED APPROACH REQUIRES MINIMUM CLIMB OF 285 FEET PER NM TO 7420; IF UNABLE TO MEET CLIMB GRADIENT, SEE ILS OR LOC RWY 16R" - NEW DESIGN PER ATC TO AVOID RISING TERRAIN TO THE SOUTH, ILS CAT II - III CG NEEDED FOR TERRAIN IN SECTION 2, WAIVER REQUEST ON FILE.
8. PROFILE LINE 3: DIST FAF TO MAP AND DIST FAF TO THLD CHANGED FROM 5.34 TO 5.41 - FIX BNKER MOVED TO ALIGN WITH NEW DESIGN TCH FOR RWY 16R.
9. PROFILE LINE 5: 100 HAT CHANGED FROM 956.00 TO 919, AND 150 HAT CHANGED FROM 1910.00 TO 1872 - UPDATED TERRAIN DATA CHANGED TERRAIN HEIGHT AT DA FROM 4219 TO 4222 AND UPDATED AIRNAV DATA SURVEY 05/03/2017 CHANGED TDZE FROM 4223 TO 4226, REMOVED DECIMAL AND HUNDREDTHS PLACE-HAT IS IN FT NOT NM.
10. PROFILE LINE 7: TCH CHANGED FROM 52.1 TO 54.4 - DESIGN TCH UPDATED IN AIRNAV.
11. PROFILE LINE 8: MSA SECTOR 230-320 CHANGED FROM 8600 TO 8700, AND SECTOR 320-050 CHANGED FROM 11000 TO 10900 - NEW CONTROLLING OBSTACLES IDENTIFIED IN EVALUATION; 230-320: 7694 FT MSL AAO 404148.00N/1121330.00W, 320-050: 9895 FT MSL AAO 410454.00N/1115106.00W.
12. PBN REQUIREMENTS NOTE: ADDED RNP APCH-GPS. FROM EKKHO OR WEBER - NEW RNAV STARS DEVELOPED AT KSLC REQUIRED PBN TRANSITIONS TO ILS OR LOC RWY 16R/IAW 8260.19J 8-6-8D(1).
13. NOTES: SA CAT I ILS NOTE CHANGED FROM "SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RA 157, RVR 1400, HAT 150, DA 4373 MSL" TO "SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RA 154, RVR 1400, HAT 150, DA 4376 MSL" - UPDATED TERRAIN DATA CHANGED TERRAIN HEIGHT AT DA FROM 4219 TO 4222 AND UPDATED AIRNAV DATA SURVEY 05/03/2017 CHANGED TDZE FROM 4223 TO 4226.
14. NOTES: CAT II ILS NOTE CHANGED FROM "SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RA 108, RVR 1200, HAT 100, DA 4323 MSL" TO "SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RA 104, RVR 1200, HAT 100, DA 4326 MSL" - UPDATED TERRAIN DATA CHANGED TERRAIN HEIGHT AT DA FROM 4219 TO 4222 AND UPDATED AIRNAV DATA SURVEY 05/03/2017 CHANGED TDZE FROM 4223 TO 4226.
15. NOTES: SA CAT I CHART NOTE CHANGED FROM "REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH" TO "REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL" - IAW 8260.19J 8-6-12M(1) NOTE.
16. NOTES: ADDED "CHART SPEED ICON IN PLANVIEW AT EKKHO: MAX 250 KIAS" - TERMINAL POINT SPEED REQUIRED FOR NEW RNAV STAR DEVELOPED AT KSLC PER ATC, IAW 8260.19J 4-6-10G.
17. NOTES: INOPERATIVE ALS NOTE CHANGED FROM "FOR INOPERATIVE ALS, INCREASE S-LOC 16R CAT C AND D VISIBILITIES TO RVR 5500" TO "FOR INOPERATIVE ALS, INCREASE S-LOC 16R CAT A AND B VISIBILITIES TO RVR 5500, CAT C AND D VISIBILITIES TO 1 3/8 SM" - IAW 8260.3F TABLES 3-3-1, 3-3-3 AND 3-3-4.
18. ADDITIONAL FLIGHT DATA: FAS OBSTACLE CHANGED FROM "4328 TRMSN TWR (KSLC0050) 404925N/1120018W" TO "4413 AAO 405151N/1120021W" - NEW OBSTACLE EVALUATION RESULTS.
19. ADDITIONAL FLIGHT DATA: REMOVED LOC ONLY* - NO LONGER REQUIRED PER CRITERIA.
20. ADDITIONAL FLIGHT DATA: REMOVED ASTERISK FROM VDP NOTE, AND CHANGED FROM "CHART VDP AT 3.04 DME" TO "CHART VDP AT 3.34 DME", DISTANCE VDP TO THLD CHANGED FROM 0.90 NM TO 1.20 NM - ASTERISK NO LONGER REQUIRED PER CRITERIA, VDP DISTANCE UPDATED WITH NEW FAF PLACEMENT AND DESIGN TCH UPDATE WITH NEW FINAL EVALUATION.
21. ADDITIONAL FLIGHT DATA: ADDED CHART MANDATORY 11000 AT EKKHO - REQUIRED FOR NEW RNAV STAR DEVELOPED PER ATC.
22. ADDITIONAL FLIGHT DATA: ADDED CHART AT OR ABOVE 12000 AT WEBER - REQUIRED FOR NEW RNAV STAR DEVELOPED PER ATC.
23. MINIMUMS: S-ILS 16R ALL CATS DA CHANGED FROM 4423 TO 4426 - TDZE ELEVATION UPDATED FROM 4223 TO 4226 PER NEW SURVEY DATED 05/03/2017.
24. MINIMUMS: S-LOC 16R ALL CATS MDA/HAT CHANGED FROM 4580/357 TO 4680/454, AND CAT C/D VISIBILITIES CHANGED FROM 3000/4000 TO 4500/4500 - NEW CONTROLLING OBSTACLE IDENTIFIED IN OBSTACLE EVALUATION; 4413 FT MSL AAO 405151N/1120021W AND VISIBILITIES IAW 8260.3F TABLE 3-3-1.
25. NOTES: CAT III ILS NOTE CHANGED FROM "SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT III A, B, C, D, RVR 700, CAT IIIB A, B, C, D, RVR 300, CAT IIIC NA" TO "SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RVR 300" - I-UAT ILS CLASS III/STRUCTURAL TOLERANCE E, IAW RVR 8400.13 CHAPTER 7, PARA 4A(3).

QUALITY
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CHECKED

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

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HAI

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NBAA

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OTHER:

ZLC, SLC ATCT, UT AERO, AMGR

FLIGHT CHECKED BY

ANTHONY D VALLERA

Digitally signed by

ROBERT G HAMILTON

Jan 13, 2025

OFFICE

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DATE

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Oct 01, 2024

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09/05/2024

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Nov 04, 2024

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AJV-A431

DATE

TITLE

MANAGER

