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.

AIRPORT ID

PROCEDURE NAME

ORIGINAL/AMENDMENT 2

CITY

STATE

STC **AIRPORT ELEVATION** ILS OR LOC RWY 13

ST CLOUD **DATED**

MN **EPOCH YEAR**

1031

TDZE

SUPERSEDED

ORIGINAL/AMENDMENT

08/10/2023

MAG VAR

1995

1031

ILS OR LOC/DME RWY 13

1B

3E

FACILITY I-BPM

COORDINATES OF FACILITIES

ACTUAL EFFECTIVE DATE 21 MARCH 2024

REQUIRED EFFECTIVE DATE 03/21/2024

CANCEL/SUSPEND

TERMINAL ROUTES

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	<u>COURSE</u>	DISTANCE	ALTITUDE
SIYON/STC 14.51 DME	IF/IAF	OSACA/STC 5.92 DME					132.99	8.60	2800

MISSED APPROACH

MAP:

ILS: DA

LOC: 5.40 NM AFTER OSACA/STC 5.92 DME.

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 THEN CLIMBING LEFT TURN TO 5000 DIRECT STC VOR/DME AND ON STC VOR/DME R-312 TO SIYON/STC 14.51 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 3000 DIRECT ZUXAL AND HOLD. (RNP APCH - GPS REQUIRED)

PROFILE:

SIDE OF COURSE

OUTBOUND

FAF: OSACA/STC 5.92 DME

GS ALT AT PFAF: OSACA/STC 5.92 DME 2800

FT WITHIN

MILES OF (IAF)

DIST FAF TO MAP: 5.40

OM:

DIST FAF TO THLD:

5.40

MIN ALT: SIYON/STC 14.51 DME 5000, OSACA/STC 5.92 DME 2800 5. DIST TO THLD FROM OM: MIN GS INCPT: 2800

MM:

150 HAT:

GS ANT:

985

MM:

IM:

GS ANGLE: 3.00

FAC: 132.99

34:1: 8. MSA FROM: STC VOR/DME 3500

2. HOLD NW SIYON, RT. 132,99 INBOUND, 5000 FT, IN LIEU OF PT (IAF), MAX 6000.

20:1:

TCH: 48.7

 AIRPORT ID
 PROCEDURE NAME
 ORIGINAL/AMENDMENT
 CITY
 STATE

 STC
 ILS OR LOC RWY 13
 2
 ST CLOUD
 MN

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT SIYON ON V510 EASTBOUND.

CHART NOTE: FOR INOPERATIVE ALS WHEN USING LITTLE FALLS ALTIMETER SETTING, INCREASE S-ILS-13 ALL CATS VISIBILITY TO 7/8 SM.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING, INCREASE DA TO 1307 FEET; INCREASE ALL MDAS 80 FEET AND S-LOC 13

VISIBILITY CATS C AND D 1/8 SM, AND CIRCLING VISIBILITY CATS C AND D 1/4 SM.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC-13 CATS C AND D VISIBILITY TO 1 3/4 SM.

CHART NOTE: DME FROM STC VOR/DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-BPM AND STC DME.

CHART NOTE: VDP NA WHEN USING LITTLE FALLS ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE ZUXAL, LT, 321.00 INBOUND. CHART FAS OBST: 1378 TOWER (27-026557) 453617N/0940818W.

CHART VDP AT 2.27 DME.

DISTANCE VDP TO THLD 1.75 NM.

CHART IN PLANVIEW: ZUXAL.

MINIMUMS:

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

ALTERNATE: NA ILS: STANDARD - NA WHEN CONTROL TOWER CLOSED., NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: STANDARD - CAT D 900-2 3/4, NA WHEN CONTROL TOWER CLOSED., NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:		Α			В			С			D			E	
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA												
S-ILS 13	1231	1/2	200	1231	1/2	200	1231	1/2	200	1231	1/2	200			
S-LOC 13	1640	1/2	609	1640	1/2	609	1640	1 3/8	609	1640	1 3/8	609			
CIRCLING	1640	1	609	1640	1	609	1640	1 3/4	609	1860	2 3/4	829			



AIRPORT ID PROCEDURE NAME ORIGINAL/AMENDMENT CITY ILS OR LOC RWY 13 ST CLOUD STC 2

CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM "ILS OR LOC/DME RWY 13" TO "ILS OR LOC RWY 13" - IAW 8260.3E 1-6-2, DME NO LONGER USED IN PROCEDURE NAMING.

2. TERMINAL ROUTES: UPDATED "SIYON/AXN VOR/DME 41.60 DME OSACA/STC VOR/DME 5.84 DME (IF/IAF) 132.99 8.67 2800" TO "SIYON/STC 14.51 DME IF/IAF OSACA/STC VOR/DME 5.92 DME 132.99 8.60 2800" - FIX MAKEUP UPDATED/PFAF MOVED TO ALIGN WITH FINAL AND MISSED.

3. MISSED APPROACH: UPDATED LOC FROM "LOC: STC 0.53 DME FIX" TO "LOC: 5.40 NM AFTER OSACA/STC 5.92 DME" - TIMING REQUIRED TO IDENTIFY MAP DUE TO PROXIMITY OF NAVAID.
4. MISSED APPROACH INSTRUCTIONS: UPDATED FROM "CLIMB TO 2500 THEN CLIMBING LEFT TURN TO 5000 DIRECT STC VOR/DME AND VIA STC VOR/DME R-312 TO SIYON/AXN VOR/DME 41.60 DME AND HOLD" TO "CLIMB TO 2500 THEN CLIMBING LEFT TURN TO 5000 DIRECT STC VOR/DME AND ON STC VOR/DME R-312 TO SIYON/STC 14.51 DME AND HOLD" - DWN DECOMMISSIONED/FIX MAKEUP UPDATED.

5. ALTERNATE MISSED APPROACH: UPDATED FROM "WHEN DIRECTED BY ATC, CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT DWN VORTAC AND HOLD E, RT, 277.00 INBOUND" TO "CLIMB TO 3000 DIRECT ZUXAL AND HOLD" - PER FPT REQUEST/DWN VORTAC DECOM.

6. PROFILE LINE 2: UPDATED FROM "PROFILE STARTS AT SIYON" TO "HOLD NW SIYON, RT, 132.99 INBOUND, 5000 FT. IN LIEU OF PT (IAF), MAX 6000" - HOLDING MOVED DUE TO DWN

7. PROFILE LINE 3: UPDATED FAF FROM "OSACA/STC VOR/DME 5.84 DME" TO "OSACA/STC 5.92 DME"; ADDED DIST FAF TO MAP AND UPDATED DIST FAF TO THLD FROM "5.32" TO "5.40" -NAVAID TYPE NOT REQUIRED. DISTANCES ADJUSTED FOR PFAF MOVEMENT.

8. PROFILE LINE 4: MIN ALT UPDATED FROM "SIYON 5000, OSACA 2800" TO "SIYON/STC 14.51 DME 5000, OSACA/STC 5.92 DME 2800" - FORMAT IAW 8260.19I 8-6-7.D. 9. PROFILE LINE 6: GS ALT AT (FAF) UPDATED FROM "OSACA/STC VOR/DME 5.84 DME 2800" TO "OSACA/STC 5.92 DME 2800" - DME UPDATED FOR NEW PFAF LOCATION. 10. NOTES: UPDATED "FOR INOPERATIVE MALSR WHEN USING LITTLE FALLS ALTIMETER SETTING, INCREASE S-ILS-13 ALL CATS VISIBILITY 1/2 MILE" TO "FOR INOPERATIVE ALS WHEN USING LITTLE FALLS ALTIMETER SETTING, INCREASE S-13 ALL CATS VISIBILITY TO 7/8 SM" - IAW 8260.3 TABLE 3-3-1.

11. NOTES: UPDATED "CHART PLANVIEW NOTE: HOLDING NOT REQUIRED AT SIYON VIA V510 EASTBOUND" TO "CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT SIYON ON V510

EASTBOUND - IAW 8260.19I 8-2-5G.

12. NOTES: UPDATED "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING, INCREASE DA TO 1307 AND ALL MDAS 80 FEET. INCREASE S-LOC 13 CATS C/D AND CIRCLING CATS C/D VISIBILITY 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING: INCREASE S-ILS 13 DA TO 1307 FEET; INCREASE ALL MDAS 80 FEET AND S-LOC 13 VISIBILITY CAT C AND D 1/8 SM, AND CIRCLING VISIBILITY CAT C AND D 1/4 SM" - NOTE FORMAT UPDATED IAW 8260.19I 8-6-9.F.(4) AND 8-

13. NOTÉS: ADDED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC-13 CATS C AND D VISIBILITY TO 1 3/4 SM" - REQUIRED VISIBILITY INCREASE PER 8260.3E TABLE 3-3-1 IS NOT COVERED BY THE INOP TABLE

14. NOTES: UPDATED CHART NOTE "DME FROM STC VOR/DME. SIMULTANEOUS RECEPTION OF 1-BPM AND STC DME REQUIRED" TO "DME FROM STC VOR/DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-BPM AND STC DME" - IAW 8260.19I 8-6-9K.

15. ADDITIONAL FLIGHT DATA: UPDATED "ALTERNATE MA HOLDING, HOLD E DWN VORTAC, RT, 277.00 INBOUND" TO "ALTERNATE MA HOLDING, HOLD SE ZUXAL, LT, 321.00 INBOUND" - DWN VORTAC DECOM.

16. ADDITIONAL FLIGHT DATA: REMOVED "CHART ARRIVAL HOLDING AT SIYON/AXN 41.60 DME: HOLD W, RT,102.651NBOUND, 5000" - ARRIVAL HOLD REPLACED WITH HILO-PT IN PROFILE LINE 2.

17. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST "FROM 1376 TOWER 453616N/0940820W" TO "1378 TOWER (27-026557) 453617N/0940818W" - NEW CONTROLLING OBSTACLE 18. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 2.27 DME." AND "DISTANCE VDP TO THLD 1.75 NM." - VDP ADDED TO PROCEDURE IAW 8260.3E 2-6-5, DOCUMENTED IAW 8260.19I 8-6-10.M.

19. ADDITIONAL FLIGHT DATA: UPDATED "CHART IN PLANVIEW: DWN VORTAC" TO "CHART IN PLANVIEW: ZUXAL" - ALTERNATE MISSED APPROACH REDESIGNED. TERMINATION FIX CHARTED IAW 8260.19I 8-6-6.H.(2).

20. ADDITIONAL FLIGHT DATA: ÀDDED "CHART NOTE: VDP NA WHEN USING LITTLE FALLS ALTIMETER SETTING" - IAW 8260.19.8-6-9.3(9).

21. MINIMUMS: LOWERED S-LOC MDA/HAT FROM "1680/649' TO "1640/609" - NEW CONTROLLING OBSTACLE.

22. MINIMUMS: RAISED S-LOC VISIBILITY FOR CAT C FROM "1 1/4" TO "1 3/8" AND CAT D FROM "1 1/2" TO "1 3/8" - IAW 8260.3 TABLE 3-3-1.

23. MINIMUMS: LOWERED CIRCLING CAT A, B, AND C CMDA/HAA FROM "1680/649" TO "1640/609" - NEW CONTROLLING OBSTACLES.

COORDINATED WITH:				
A4A X ALPA X AOPA X APA	HAI NBAA X OTHER:	ZMP, STC ATCT, STATE AV. DIR		
PENDING	Digitally signed by DAVID DANNER Jan 04, 2024	<u>OFFICE</u>	<u>DATE</u>	
DEVELOPED BY DAVID DANNER (MATTHEW W.TOWNSEND)	Digitally signed by DAVID DANNER Jan 04, 2024	<u>OFFICE</u> AJV-A421	<u>DATE</u> 09/26/2023	
APPROVED BY DAVID DANNER	Digitally signed by DAVID DANNER Jan 04, 2024	OFFICE AJV-A421	DATE 03/21/2024	<u>TITLE</u> MANAGER

STATE

MN