

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> KITH	<u>PROCEDURE NAME</u> ILS OR LOC RWY 32	<u>ORIGINAL/AMENDMENT</u> 8	<u>CITY</u> ITHACA	<u>STATE</u> NY		
<u>AIRPORT ELEVATION</u> 1099	<u>TDZE</u> 1099	<u>SUPERSEDED</u> ILS OR LOC RWY 32	<u>ORIGINAL/AMENDMENT</u> 7A	<u>DATED</u> 12/31/2020	<u>MAG VAR</u> 12W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> I-ITH	<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>
CFB VOR/DME	IAF	OCCIE INT					353.00	9.95	3400
OCCIE INT	IF	VRNAH/ITH 6.19 DME					324.52	9.52 (I-ITH)	3000

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: ITH 0.76 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2600 THEN CLIMBING LEFT TURN TO 4000 ON HEADING 180 AND CFB VOR/DME R-310 TO MESTE/CFB VOR/DME 17.69 DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF      (IAF)
- PROFILE STARTS AT OCCIE
- FAC: 324.52      FAF: VRNAH/ITH 6.19 DME      DIST FAF TO MAP:      DIST FAF TO THLD: 5.44
- MIN ALT: OCCIE INT 3400, VRNAH/ITH 6.19 DME 3000
- DIST TO THLD FROM PFAF: 5.44      MM:      IM:      150 HAT:      GS ANT: 1076
- MIN GS INCPT: 3000      GS ALT AT PFAF: VRNAH/ITH 6.19 DME 3000      OM:      MM:      IM:
- GP ANGLE: 3.20      34:1:      20:1:      TCH: 53.8
- MSA FROM: CFB VOR/DME 3700 (26NM)

**EQUIPMENT REQUIREMENTS NOTES:**

DME REQUIRED.



**NOTES:**

CHART NOTE: CIRCLING NA TO RWYS 15 AND 33.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 32.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CFB VOR/DME AIRWAY RADIALS 310 CW 015 AND V374 NORTHWEST BOUND.

CHART NOTE: DME FROM ITH DME. SIMULTANEOUS RECEPTION OF I-ITH LOC AND ITH DME REQUIRED.

**ADDITIONAL FLIGHT DATA:**

HOLD NW, RT, 130.35 INBOUND.

FAS OBST: 1880 AAO 422653N/0762253W.

1930 AAO 422606N/0762118W.

CHART VDP AT 3.64 DME

DISTANCE VDP TO THLD 2.89 NM.

CHART CIRCLING ICON.

**MINIMUMS:**

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

**ALTERNATE:** NA

ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN TOWER CLOSED.; LOC: CAT A, B 1100-2, CAT C 1100-3, CAT D 1400-3, NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN TOWER CLOSED.

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 32	1349	2400	250	1349	2400	250	1349	2400	250	1349	2400	250			
S-LOC 32	2140	4000	1041	2140	5500	1041	2140	2 1/2	1041	2140	2 1/2	1041			
CIRCLING	2140	1 1/4	1041	2140	1 1/2	1041	2140	3	1041	2440	3	1341			

**CHANGES - REASONS**

1. CHANGED FINAL LENGTH FROM 4.89 TO 5.44 - FAF RELOCATED TO PFAF INTERCEPT/VRNAH LOM DECOMMISSIONING.
2. CHANGED FAF FROM VRNAH LOM/ITH DME 5.64 DME TO VRNAH/ITH 6.19 DME - VRNAH LOM DECOMMISSIONING,
3. CHANGED INTERMEDIATE LENGTH FROM 10.06 TO 9.52 - FAF RELOCATED TO PFAF INTERCEPT/VRNAH LOM DECOMMISSIONING.
4. LOWERED S-ILS 32 VISIBILITY FROM 4000 (ALL CATS) TO 2400 (ALL CATS) - NEW VISIBILITY EVALUATION.
5. CHANGED LOC MAP FROM: 4.39 NM AFTER VRNAH LOM/ITH DME 5.64 DME TO: ITH 0.76 DME - FAF NOW DME ONLY FIX.
6. CHANGED MSA CENTER POINT FROM IT LOM TO CFB VOR/DME AND INCREASE RADIUS FROM 25 NM TO 26 NM - IT LOM DECOMMISSIONING.
7. DELETED ALTERNATE MISSED APPROACH - PER FPT/VFNAH LOM DECOMMISSIONING.
8. DELETED "LOC ONLY" AND VDP ASSOCIATION FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED BY CRITERIA.
9. DELETED 4.39 FROM "DIST FAF TO MAP" ON PROFILE LINE 3 - TIMING TABLE NOT REQUIRED.
10. MOVED BACKUP ALTIMETER AND ALL ASSOCIATED NOTES FROM 8260-3 TO 8260-9, PART C GENERAL REMARKS - ALTIMETERS SOURCES ON WMSCR.

QUALITY  
10  
CHECKED

AIRPORT ID  
KITH

PROCEDURE NAME  
ILS OR LOC RWY 32

ORIGINAL/AMENDMENT  
8

CITY  
ITHACA

STATE  
NY

**COORDINATED WITH:**

**A4A** ☒   **ALPA** ☒   **AOPA** ☒   **APA** ☐   **HAI** ☐   **NBAA** ☒   **OTHER:** ITH ATCT, ELM APP/CON, ZNY, AMGR.

**FLIGHT CHECKED BY**

JEREMY R VIRTIS

*Digitally signed by*

***JON DENTON***

Jan 24, 2022

**OFFICE**

FPO

**DATE**

01/21/2022

**DEVELOPED BY**

JON DENTON (THERON CYRUS)

*Digitally signed by*

***JON DENTON***

Jan 24, 2022

**OFFICE**

AJV-A432

**DATE**

11/16/2021

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*

***JON DENTON***

Jan 24, 2022

**OFFICE**

AJV-A430

**DATE**

**TITLE**

MANAGER

QUALITY  
10  
CHECKED

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>
KITH	ILS OR LOC RWY 32	8	ITHACA	NY	1099	I-ITH

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM CFB VOR/DME TO OCCIE INT

<u>RNP</u>	<u>DISTANCE</u> 9.95	<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>
												AAO	421642.00N/0761621.00W	2005	164	98	4E	1000				AT395	3400
												TERRAIN	421642.00N/0761621.00W	1804 (1800)								AS1500	3300

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM OCCIE INT TO VRNAH/ITH 6.19 DME

<u>RNP</u>	<u>DISTANCE</u> 9.52	<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>
												AAO	422421.00N/0761630.00W	2212	164	98	4E	500				AC98	2900
												TERRAIN	422421.00N/0761630.00W	2011 (2000)								AS1000	3000

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: ILS

FROM  
VRNAH/ITH 6.19 DME

TO  
RW32

RNP	DISTANCE 5.44	PAT	MAP DA	HAT 250	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				1349

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

FINAL: LOC

FROM  
VRNAH/ITH 6.19 DME

TO  
ITH 0.76 DME

RNP	DISTANCE 5.44	PAT	MAP ITH 0.76 DME	HAT 1041	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	422652.86N/0762253.26W		1880	50	20	2C	250					2140

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 : ILS

FROM  
DA

TO  
MESTE/CFB VOR/DME 17.69 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1156					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
AAO	422309.00N/0764009.00W		2343	164	98	4E	1000					3400
TERRAIN	422309.00N/0764009.00W		2142 (2100)								AS1500	3600

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 : LOC

FROM  
ITH 0.76 DME

TO  
MESTE/CFB VOR/DME 17.69 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1890					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
AAO	422309.00N/0764009.00W		2343	164	98	4E	1000					3400
TERRAIN	422309.00N/0764009.00W		2142 (2100)								AS1500	3600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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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											
TREE (36-103377)	423026.50N/0762724.51W	1.30	1041	1240	20	10	1B	300		SI	2140
CATEGORY B											
TREE (36-103230)	423113.31N/0762643.18W	1.85	1041	1297	20	10	1B	300		SI	2140
CATEGORY C											
TOWER (36-006068)	422758.00N/0762351.00W	2.90	1041	1620	250	50	4D	300		SI	2140
CATEGORY D											
TOWER (36-000513)	422754.20N/0762222.30W	3.82	1341	2136	500	3	5A	300			2440

CIRCLING REMARKS:

MSA

CENTER  
CFB VOR/DME

RADIUS  
26

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (36-159657)	420340.27N/0755644.21W	134	10.3	2657	250	50	4D	1000			3700

MSA REMARKS:  
MSA EXPANDED 26 NM TO INCLUDE ARPT.

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
ELM APP CON, ITH TOWER, ZNY ARTCC

<u>WX SERVICE</u> AWOS-3PT	<u>LOCATION</u> KITH	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KITH	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KELM	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KELM	<u>DISTANCE</u> 27.67	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 84

WX REMARKS:  
RASS: PRESSURE PATTERNS THE SAME:  
KITH 1099, KELM 955  
RA = 83.9

<u>PRIMARY NAVAID</u> I-ITH	<u>MONITOR POINT</u> ITH ATCT	<u>HRS OPERATION</u> TWR OPEN TWR CLOSED	<u>CAT</u> 1 3
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14 - HIRL (PCL), PAPI-4L	PIR-G	
RW32 - MALSR (PCL), HIRL (PCL), PAPI-4L	PIR-G	APPROACH

<u>GLIDESLOPE ANGLE</u> 3.20	<u>ELEV RWY THRESHOLD</u> 1099	<u>TCH</u> 53.8	<u>ELEV GS ANTENNA</u> 1092.0	<u>DISTANCE FROM RWY</u> 1076	<u>VGSI ANGLE</u> 3.20	<u>TCH</u> 53.0
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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

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS





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

<b><u>PENETRATIONS REMARKS:</u></b>

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION USED: 100 FT PER FPT.

ILS 250 HAT BASED ON 3.2 GPA.

CONTINGENCY PURPOSE NOTES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ELMIRA/CORNING ALTIMETER SETTING AND INCREASE S-ILS 32 DA TO 1433 FEET AND ALL VISIBILITIES TO RVR 2600; INCREASE ALL MDAS 100 FEET AND S-LOC 32 VISIBILITY CAT C/D 1/2 SM.

VDP NA WHEN USING ELMIRA/CORNING ALTIMETER SETTING.

FOR INOPERATIVE ALS WHEN USING ELMIRA/CORNING ALTIMETER SETTING INCREASE S-ILS 32 ALL CATS VISIBILITY TO RVR 5000.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1930 AAO 422606.00N/0762118.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<div>AIRPORT ID</div> <div>KITH</div>	<div>PROCEDURE NAME</div> <div>ILS OR LOC RWY 32</div>	<div>AMDT NO.</div> <div>8</div>	<div>CITY</div> <div>ITHACA</div>	<div>STATE</div> <div>NY</div>	<div>AIRPORT ELEVATION</div> <div>1099</div>	<div>FACILITY</div> <div>I-ITH</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	4.85
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.27
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	312.52
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1800
DISTANCE FROM	THLD	TO 1500FT POINT	7.29
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	1.79
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	312.52
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	2000

THRESHOLD  
COORDINATES  
(IF STR-IN)

422905.63N/0762657.95W

ARP COORDINATES

422928.90N/0762731.40W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 14 DISTANCE 0.58 NM

FAF  
COORDINATES

422524.96N/0762133.30W

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> JON DENTON (THERON CYRUS)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 11/16/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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