

**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>AIRPORT ID</u> KHEQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> ORIG-F	<u>CITY</u> HOLYOKE	<u>STATE</u> CO		
<u>AIRPORT ELEVATION</u> 3730	<u>TDZE</u> 3727	<u>SUPERSEDED</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>DATED</u> 07/18/2019	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 2005
<u>FACILITY</u> RNAV	<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>
ASHBY	IAF	PIPUE		TF	FB	1.00	301.39	8.37	6000
MCJEF	IAF	PIPUE		TF	FB	1.00	333.83	20.15	6000
OGLIE	IAF	PIPUE		TF	FB	1.00	038.39	11.44	6000
PIPUE	IF	ZISAS		TF	FB	1.00	320.81	6.00	5400
ZISAS	FAF	RW32	MAP	TF	FO	0.30	320.77	5.06	
RW32	MAP	4130 MSL		CA			320.77		
4130 MSL		FEVLO		DF	FB	1.00			
FEVLO		CITMU		TF	FO	1.00	201.05	17.35	6500

MISSED APPROACH

MAP:

LNAV: RW32

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6500 DIRECT FEVLO AND ON TRACK 201.05 TO CITMU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
16
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

2. PROFILE STARTS AT PIPUE

3. FAF: 320.77

FAF: ZISAS

DIST FAF TO MAP: 5.06

DIST FAF TO THLD: 5.06

4. MIN ALT: PIPUE 6000, ZISAS 5400

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: RW32 5900

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: VDP NA WHEN USING SIDNEY MUNI/LLOYD W. CARR FIELD ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SIDNEY ALTIMETER SETTING AND INCREASE ALL MDAS 200 FEET AND VISIBILITY CAT C/D 3/8 SM.
CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 230.49 INBOUND.
FAS OBST: 3900 AAO 403021N/1021412W.
4000 AAO 402921N/1021210W.
CHART VDP AT 0.66 NM TO RW32.
ZISAS TO RW32: 3.05/40.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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	4160	1	433	4160	1	433	4160	1	433	4160	1 1/4	433			

CHANGES - REASONS

1. ADDED 34:1 IS NOT CLEAR - 34:1 SURFACE PENETRATIONS EXIST.
2. ADDED CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED 34:1 AREA IS NOT CLEAR.
3. CHANGED MISSED APPROACH INSTRUCTIONS FROM: CLIMB TO 6500 DIRECT FEVLO AND LEFT TURN VIA 201.05 TRACK TO CITMU AND HOLD TO: CLIMB TO 6500 DIRECT FEVLO AND ON TRACK 201.05 TO CITMU AND HOLD - CURRENT CRITERIA VERBIAGE.
4. RAISED LNAV ALL CATS MDA/HAT FROM: 4100/373 TO 4160/433 - NEW OBSTACLE EVALUATION.
5. CHANGED FAS OBSTACLE FROM 3839 AAO TO 3900 AAO - NEW OBSTACLE EVALUATION.
6. RAISED MSA MIN ALTITUDE FROM 5500 TO 5900 - NEW OBSTACLE EVALUATION.
7. LOWERED VDP FROM 1.06 TO RW32 TO 0.66 TO RW32 - NEW OBSTACLE EVALUATION/CHANGE IN MINIMA.



AIRPORT ID
KHEQ

PROCEDURE NAME
RNAV (GPS) RWY 32

ORIGINAL/AMENDMENT
ORIG-F

CITY
HOLYOKE

STATE
CO

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDU, DEN TRACON, CO AERO, 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

JON DENTON

Feb 16, 2022

DEVELOPED BY

JON DENTON (KIMBERLY M JOHNSON)

Digitally signed by

OFFICE

DATE

JON DENTON

AJV-A432

12/16/2021

Feb 16, 2022

APPROVED BY

LONNIE EVERHART

Digitally signed by

OFFICE

DATE

JON DENTON

AJV-A430

12/16/2021

Feb 16, 2022

TITLE
MANAGER

QUALITY
16
CHECKED

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

<u>AIRPORT ID</u> KHEQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>AMDT NO.</u> ORIG-F	<u>CITY</u> HOLYOKE	<u>STATE</u> CO	<u>AIRPORT ELEVATION</u> 3730	<u>FACILITY</u> RNAV
---------------------------	--	---------------------------	------------------------	--------------------	----------------------------------	-------------------------

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
ASHBY

TO
PIPUE

<u>RNP</u>	<u>DISTANCE</u> 8.37	<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	402349.00N/1020940.00W	3989	50	20	2C	1000				AT1011	6000
												TERRAIN	402349.00N/1020940.00W	3789 (3800)								AS1500	5300

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
MCJEF

TO
PIPUE

<u>RNP</u>	<u>DISTANCE</u> 20.15	<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	402349.00N/1020940.00W	3989	50	20	2C	1000				AT1011	6000
												TERRAIN	402349.00N/1020940.00W	3789 (3800)								AS1500	5300

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM
OGLIE

TO
PIPUE

RNP	DISTANCE 11.44	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	401824.00N/1022027.00W		4389	50	20	2C	1000				AT611	6000
TERRAIN	401824.00N/1022027.00W		4189 (4200)								AS1500	5700

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
PIPUE

TO
ZISAS

RNP	DISTANCE 6.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	402915.00N/1021117.00W		4059	50	20	2C	500					4600
TERRAIN	402915.00N/1021117.00W		3859 (3900)								AS1500	5400

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

SEGMENT REMARKS:



FINAL: LNAV

FROM

ZISAS

TO

RW32

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.06		RW32	433								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	403021.00N/1021412.00W		3900	50	20	2C	250					4160

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM

RW32

TO

CITMU

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
							3910					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				6500
AAO	402545.00N/1023321.00W		4157	164	98	4E	1000					5200
TERRAIN	402545.00N/1023321.00W		3957 (4000)								AS1500	5500

COMPUTATIONS

TF TURN FIX

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



MSA

CENTER
RW32

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	WINDMILL (08-089445)	404201.74N/1025218.22W	279	28.8	4808	250	50	4D	1000			5900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZDV ARTCC, DEN FSS

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KHEQ	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KHEQ	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KSNY	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KSNY	<u>DISTANCE</u> 45.40	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 183

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KHEQ 3730, KSNY 4288
RA = 182.7.

<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>
RW14 - MIRL (PCL), REIL (PCL)		NPI-F	
RW32 - MIRL (PCL), REIL (PCL)		NPI-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>	<u>TCH</u>
-------------------------	---------------------------	------------	------------------------	--------------------------	-------------------	------------

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>
---------------------	----------------------	------------	----------------

CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	RNAV RWY 32
34:1	
3751 TREE (08-081820) 403337.76N/1021601.11W (0.67)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:
VEGETATION HEIGHT USED: 100 FT PER FPT
PRECIPITOUS TERRAIN EVALUATION COMPLETED
ORDER 8260.3 CHAPTER 2 APPLIED TO 4000 AAO 402921.00N/1021210.00W.



<div>AIRPORT ID KHEQ</div>	<div>PROCEDURE NAME RNAV (GPS) RWY 32</div>	<div>AMDT NO. ORIG-F</div>	<div>CITY HOLYOKE</div>	<div>STATE CO</div>	<div>AIRPORT ELEVATION 3730</div>	<div>FACILITY RNAV</div>
--------------------------------	---	--------------------------------	-----------------------------	-------------------------	---------------------------------------	------------------------------

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	2.73
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	328.81
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3700
DISTANCE FROM	THLD	TO 1500FT POINT	4.66
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	328.81
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	3700

THRESHOLD
COORDINATES
(IF STR-IN)

403348.84N/1021604.87W

ARP COORDINATES

403409.95N/1021621.68W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 32 DISTANCE 0.41 NM

FAF
COORDINATES

402928.94N/1021238.17W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY
16
CHECKED

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

Electronic Version

Page 7 of 8

PART E: PREPARED BY

<u>NAME</u> JON DENTON (KIMBERLY M JOHNSON)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 12/16/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
--	---------------------------	---------------------------	---

