

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

<u>AIRPORT ID</u> EGQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 13	<u>AMDT NO.</u> ORIG-D	<u>CITY</u> EMMETSBURG	<u>STATE</u> IA	<u>AIRPORT ELEVATION</u> 1206	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 042/30 CW 222/30 **TO** ZERGA

RNP DISTANCE PAT MAP HAT HMAS

<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>
WINDMILL (19-020182)	432856.34N/0953101.71W	2042	250	50	4D	1000				AT758	3800
TERRAIN	432409.00N/0953118.00W	1604 (1600)								AS1500	3100

COMPUTATIONS

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

SEGMENT REMARKS:

LEFT BASE AREA

FROM 222/30 CW 312/30 **TO** ULBOW

RNP DISTANCE PAT MAP HAT HMAS

<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>
WINDMILL (19-070732)	430719.96N/0944829.30W	1896	250	50	4D	1000				AT904	3800
TERRAIN	431606.00N/0945103.00W	1551 (1600)								AS1500	3100

COMPUTATIONS

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

SEGMENT REMARKS:



RIGHT BASE AREA

FROM

312/30 CW 042/30

TO

COVUP

<u>RNP</u>	<u>DISTANCE</u>	<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 (19-001019)	425434.61N/0950934.08W	1898	500	50	5D	1000				AT902	3800
TERRAIN	425027.00N/0952012.00W	1548 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

ULBOW

TO

ZERGA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
1.00	5.00										
<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	431606.00N/0945103.00W	1752	215	8	4B	1000				AT1048	3800
TERRAIN	431606.00N/0945103.00W	1551 (1600)								AS1500	3100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM

COVUP

TO

ZERGA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	5.00										
<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	431554.00N/0945348.00W	1716	215	8	4B	1000				AT1084	3800
TERRAIN	431557.00N/0945357.00W	1515 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

ZERGA (IF/IAF)

TO

FOROV

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	6.10										
<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	431530.00N/0945118.00W	1746	215	8	4B	500				AT654	2900
TERRAIN	431530.00N/0945118.00W	1545 (1500)								AS1000	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM

FOROV

TO

ISEPE/2.10 NM TO RW13

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	3.02										
<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	430912.00N/0944727.00W	1506	215	8	4B	250				RA66 DG78	1900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

ISEPE/2.10 NM TO RW13

TO

RW13

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.10		RW13		414						
<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 (19-043960)	430659.35N/0944234.70W	1320	20	3	1A	250				RA46	1620

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

ZERGA

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<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 (19-000949)	431522.80N/0945836.20W	1787	100	20	3C	1000					2800
TERRAIN	431606.00N/0945103.00W	1551 (1600)								AS1500	3100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW13

TO

HIVEN

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 1474			
<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				3800
AAO	430342.00N/0943703.00W	1434	215	8	4B	1000					2500
TERRAIN	430609.00N/0944051.00W	1243 (1200)								AS1500	2700

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											
WATER_TOWER (19-032907)	430637.27N/0944113.32W	1.31	574	1403	50	20	2C	300		RA46 XP31	1780
CATEGORY B											
ELEVATOR (19-000838)	430632.31N/0944027.01W	1.85	634	1426	50	20	2C	300		RA46 XP68	1840

CIRCLING REMARKS:
XP TO MAINTAIN PUBLISHED MINIMUMS.

MSA/ESA
CENTERRADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC, FOD FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3	AXA	24	AXA	19.02	Y	46
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	EST	24	EST	18.43	Y	58

WX REMARKS:
RASS PRESSURE PATTERNS ARE THE SAME
KEGQ 1206, KAXA 1216 RA=45.6
KEGQ 1206, KEST 1319 RA=57.9
57.9 - 45.6 = 12.3 (13)

PRIMARY NAVAIDMONITOR POINTHRS OPERATIONCAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW22		
RW35		
RW04		
RW17		
RW13 - REIL (PCL), MIRL (PCL), PAPI-4L (PCL)	NPI-G	
RW31 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-G	



GLIDESLOPE ANGLE

ELEV RWY THRESHOLD

TCH

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

4.00

TCH

53.9

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

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LNAV	
20:1		
1221 POLE (19-025190) 430628.420000000N/0944244.170000000W (10.06)		1220 TREE (19-043067) 430627.200000000N/0944245.950000000W (9)
1218 TREE (19-040173) 430627.470000000N/0944245.520000000W (7.11)		
FINAL TYPE	LNAV	
34:1		
1293 TREE (19-033257) 430644.710000000N/0944258.030000000W (28.25)		1295 TREE (19-042584) 430645.100000000N/0944259.470000000W (27.25)
1294 TREE (19-040933) 430644.750000000N/0944259.780000000W (26.54)		1296 TREE (19-047464) 430645.100000000N/0944300.900000000W (26.1)
1293 TREE (19-043054) 430644.900000000N/0944300.440000000W (24.22)		1290 TREE (19-043565) 430644.950000000N/0944301.320000000W (19.79)
1287 TREE (19-047322) 430645.390000000N/0944301.050000000W (16.25)		1289 TREE (19-042336) 430645.510000000N/0944303.410000000W (14.45)
1288 TREE (19-040219) 430645.270000000N/0944303.680000000W (13.56)		1291 TREE (19-040223) 430642.190000000N/0944310.250000000W (13.36)
1286 TREE (19-040216) 430645.320000000N/0944302.990000000W (12.49)		1287 TREE (19-040220) 430645.200000000N/0944304.510000000W (11.47)
1288 TREE (19-040222) 430645.560000000N/0944304.730000000W (11.36)		1282 TREE (19-040214) 430645.190000000N/0944301.670000000W (10.75)
1289 TREE (19-047467) 430645.850000000N/0944305.740000000W (10.22)		1294 TREE (19-040090) 430642.370000000N/0944314.480000000W (9.62)
1287 TREE (19-040224) 430645.490000000N/0944305.800000000W (8.9)		1284 TREE (19-040221) 430645.830000000N/0944303.610000000W (8.46)
1251 TREE (19-042608) 430638.740000000N/0944252.200000000W (7.9)		1284 TREE (19-041570) 430645.750000000N/0944304.290000000W (7.61)
1282 TREE (19-040218) 430641.500000000N/0944309.090000000W (7.59)		1278 TREE (19-040934) 430645.430000000N/0944301.950000000W (5.81)
1278 TREE (19-040217) 430641.570000000N/0944308.730000000W (3.98)		1277 TREE (19-040215) 430641.230000000N/0944308.630000000W (3.87)
1261 TREE (19-031604) 430643.550000000N/0944256.440000000W (1.14)		

PENETRATIONS REMARKS:



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 - 20:1 PENETRATIONS, REMOTE PRIMARY ALTIMETER.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

45 FT VEGETATION PER FPT.

CAT A AND B MINIMUMS ONLY PER FPT.

TAA DEVELOPED PER ATC REQUEST

ORDER 8260.3 CHAPTER 2 APPLIED TO 1861 WINDMILL (19-070725) 431047.70N/0944553.09W.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1456 ANTENNA (19-031606) 430742.13N/0944530.07W.

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	3.45
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	136.48
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1400
DISTANCE FROM	FAF	TO 1500FT POINT	4.50
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	136.42
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1500

THRESHOLD COORDINATES (IF STR-IN)

430625.67N/0944242.12W

ARP COORDINATES

430613.48N/0944226.35W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 35 DISTANCE 0.42 NM

FAF COORDINATES

431008.72N/0944731.03W

FIX NAME COORDINATES

REMARKS

IAF ULBOW 431800.67N 0944818.04W 30 NM RADIUS

IAF COVUP 431106.97N 0945812.70W 30 NM RADIUS

IF/IAF ZERGA 431433.93N 0945315.65W 30 NM RADIUS

PART E: PREPARED BY

NAME

JANTZEN TAYLOR

OFFICE

AJV-A422

DATE

10/08/2025

TITLE

AERONAUTICAL INFORMATION SPECIALIST



AIRPORT ID
EGQ

PROCEDURE NAME
RNAV (GPS) RWY 13

AMDT NO.
ORIG-D

CITY
EMMETSBURG

STATE
IA

AIRPORT ELEVATION
1206

FACILITY
RNAV