

**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</u> NEW LONDON	<u>AIRPORT ID</u> W90	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> FOREST	<u>STATE</u> VA	
<u>AIRPORT ELEVATION</u> 842	<u>TDZE</u> 831	<u>SUPERSEDED</u> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 06/25/2015	<u>MAG VAR</u> 9W	<u>EPOCH YEAR</u> 2010
<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>
AYARA	IAF	ZOPLU		TF	FB	1.00	081.51	11.73	3000
SYCAM	IAF	ZOPLU		TF	FB	1.00	000.48	6.20	3000
ZOPLU	IF	ZOTOB		TF	FB	1.00	355.56	5.05	2100
ZOTOB	FAF	RW36	MAP	TF	FO	0.30	355.54	4.05	
RW36	MAP	1242 MSL		CA			355.54		
1242 MSL		CIYAT		DF	FB	1.00			
CIYAT		LUCLI		TF	FO	1.00	024.96	9.18	4700

MISSED APPROACH

MAP:

LNAV: RW36

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4700 DIRECT CIYAT AND ON TRACK 024.96 TO LUCLI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
10
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT ZOPLU

3. FAC: 355.54

FAF: ZOTOB

DIST FAF TO MAP: 4.05

DIST FAF TO THLD: 4.05

4. MIN ALT: ZOPLU 3000, ZOTOB 2100

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 NOT CLEAR

TCH:

8. MSA FROM: RW36 5500

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: USE LYNCHBURG ALTIMETER SETTING.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SYCAM ON V469 SOUTHBOUND, AND ARRIVALS AT AYARA ON V222 SOUTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

CHART LYNCHBURG ASOS.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
FAS OBST: 1079 AAO 371153N/0792011W.
HOLD N, LT, 176.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☒

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	1840	3	1009	1840	3	1009		NA			NA				
CIRCLING	1860	3	1018	1860	3	1018		NA			NA				



CHANGES - REASONS

1. INCORPORATED P-NOTAM 5/6949 - 8260.19H 8-3-4.C.
2. REMOVED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED RNP APCH TO PBN REQUIREMENTS NOTES - CURRENT NOTATION PER 8260.19H 8-6-8.B.
3. CHANGED CHART NOTE FROM "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - NO SURVEY, UNABLE TO VERIFY VISUAL SURFACE CLEAR.
4. CHANGED LNAV MDA/HAT FROM 1780/949 TO 1840/1009 - VIRGINIA DEPT OF AVIATION HAS RESTRICTED HAT TO 1000 FT DUE TO FEDERAL OBSTRUCTION STANDARDS, INCORPORATING T-NOTAM 8/5549.
5. CHANGED CIRCLING MDA/HAA FROM 1780/938 TO 1860/1018 - VIRGINIA DEPT OF AVIATION HAS RESTRICTED HAT TO 1000 FT DUE TO FEDERAL OBSTRUCTION STANDARDS, INCORPORATING T-NOTAM 8/5549.
6. REMOVED "ZOTOB TO RW36: 3.00/40" AND ADDED "CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES" TO ADDITIONAL FLIGHT DATA - 8260.19H 8-6-10.P.
7. CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT SYCAM ON V469 SOUTHBOUND AND AT AYARA ON V222 SOUTHWEST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT SYCAM ON V469 SOUTHBOUND, AND ARRIVALS AT AYARA ON V222 SOUTHWEST BOUND" - 8260.19H 8-2-5.E.
8. ADDED "20:1 IS NOT CLEAR" ON LINE 7 - PER 8260.19H PARA 8-6-7 G (2).
9. CHANGED "CHART NOTE: USE LYNCHBURG RGNL/PRESTON GLENN FLD ALTIMETER SETTING" TO "CHART NOTE: USE LYNCHBURG ALTIMETER SETTING" - PER 8260.19H PARA 8-6-11O (4)(B).
10. CHANGED ADDITIONAL FLIGHT DATA NOTE FROM "CHART LYNCHBURG RGNL/PRESTON GLENN FLD ATIS" TO "CHART LYNCHBURG ASOS" - 8260.19H PARA 8-6-11O (4)(B).

COORDINATED WITH:

A4A ☐

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ROA APP CON, LYH TOWER, AMGR

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

DATE

Digitally signed by

ALLAN WILL

Nov 12, 2019

DEVELOPED BY

HEIDI SNIDER (ANTHONY CAPPABIANCO)

Digitally signed by

HEIDI SNIDER

Nov 07, 2019

OFFICE

AJV-A422

DATE

09/05/2019

APPROVED BY

MARLON ROBINSON

HEIDI SNIDER

Nov 07, 2019

OFFICE

AJV-A420

DATE

TITLE

MANAGER



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

<u>AIRPORT</u> NEW LONDON	<u>AIRPORT ID</u> W90	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> FOREST	<u>STATE</u> VA	<u>AIRPORT ELEVATION</u> 842	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

<u>FROM</u> AYARA	<u>TO</u> ZOPLU
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<u>RNP</u>	<u>DISTANCE</u> 11.73	<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>
1.AAO	370257.00N/0793136.00W		1782	164	98	4E	1000					2800
2.TERRAIN	370324.00N/0793109.00W		1460 (1500)								AS1500	3000

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>
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SEGMENT REMARKS:

INITIAL

<u>FROM</u> SYCAM	<u>TO</u> ZOPLU
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<u>RNP</u>	<u>DISTANCE</u> 6.20	<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>
3.AAO	370006.00N/0791836.00W		1273	164	98	4E	1000				AT727	3000
4.TERRAIN	370109.00N/0791533.00W		972 (1000)								AS1500	2500

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>
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SEGMENT REMARKS:



INTERMEDIATE

FROM
ZOPLU

TO
ZOTOB

RNP	DISTANCE 5.05	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	371003.00N/0792148.00W		1241	164	98	4E	500				AC98 AT261	2100
6.TERRAIN	371003.00N/0792148.00W		1040 (1000)								AS1000	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

OBS #5 IN SECONDARY AREA, FULL ROC APPLIED.

FINAL: LNAV

FROM
ZOTOB

TO
RW36

RNP	DISTANCE 4.05	PAT	MAP RW36	HAT 1009			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	371153.24N/0792010.73W		1079	50	20	2C	250				RA31 XP480	1840

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP - THE VIRGINIA DEPT OF AVIATION HAS RESTRICTED HAT TO 1000 FT DUE TO FEDERAL OBSTRUCTION STANDARDS.



MISSED APPROACH : LNAV

FROM
RW36

TO
LUCLI

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1709					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4700
8.TOWER (51-001401)	372812.90N/0792234.10W		3051	500	125	4D	1000					4100
9.TERRAIN	372815.00N/0792233.00W		2687 (2700)								AS1500	4200

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											
10.TREE	371729.37N/0792112.82W	1.30	1018	1069	50	20	2C	300		XP491	1860
CATEGORY B											
10.TREE	371729.37N/0792112.82W	1.50	1018	1069	50	20	2C	300		XP491	1860

CIRCLING REMARKS:

XP - THE VIRGINIA DEPT OF AVIATION HAS RESTRICTED HAA TO 1000 FT DUE TO FEDERAL OBSTRUCTION STANDARDS.

MSA
CENTER
RW36

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	373056.10N/0793032.07W	340	17.0	4425	1000	20	6C	1000			5500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

AIRPORT
NEW LONDON

AIRPORT ID
W90

PROCEDURE NAME
RNAV (GPS) RWY 36

AMDT NO.
ORIG-B

CITY
FOREST

STATE
VA

AIRPORT ELEVATION
842

FACILITY
RNAV



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZDC ARTCC, ROA APP CON

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KLYH	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLYH	<u>DISTANCE</u> 7.19	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 31
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME KW90 842, KLYH 938 RA = 30.1 BACKUP ALTIMETER NOT REQUIRED DUE TO AVAILABILITY OF REDUNDANT WEATHER SOURCES.

<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>
RW18		BSC-G	
RW36		BSC-G	

<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>
<u>FINAL APPROACH COURSE AIMING</u>						
RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE			
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE				
<u>CRITICAL TEMPERATURES</u>						
<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>			

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



PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FT VEGETATION USED.

20:1 PENETRATIONS ASSUMED DUE TO NO RUNWAY SURVEY. PROCEDURE NA AT NIGHT.

VDP NOT ESTABLISHED - PRIMARY ALTIMETER IS REMOTE.

FLIGHT INSPECTION RESULTS DO NOT WARRANT A VDA. COMPUTED PROCEDURE VDA/TCH: 3.00/40, REMOVED PER FLIGHT INSPECTION.



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	3.38
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.51
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	364.54
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	8.1
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	346.56
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1000

THRESHOLD
COORDINATES
(IF STR-IN)371603.01N/0792004.68W

ARP COORDINATES371618.22N/0792009.24W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARPRUNWAY 36 DISTANCE 0.26 NM

FAF
COORDINATES371206.35N/0791853.82W

FIX NAME
COORDINATES

REMARKS
NO ADDITIONAL AIRSPACE REQUIRED



PART E: PREPARED BY

<u>NAME</u> HEIDI SNIDER (ANTHONY CAPPABIANCO)	<u>OFFICE</u> AJV-A422	<u>DATE</u> 09/05/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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