

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW31 CLIMB TO 3200 DIRECT HIBIR AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 128.14 INBOUND. CHART FAS OBST: 1720 TOWER 463605N/0953423W DISTANCE TO THLD FROM 295 HATH: 0.79 NM. WAAS CHANNEL # 78133 REFERENCE PATH ID: W31A CHART CIRCLING ICON LTP HAE: 391.3 M											
INXAL (IAF)	ILUZY (NOPT) (FB)	218.53 / 6.50	3000												
JORVO (IAF)	ILUZY (NOPT) (FB)	038.39 / 6.50	3000												
ILUZY (IF/IAF)	UJOTO (FB)	308.46 / 6.52	3000												
UJOTO (FAF)	RW31 (MAP) (FO)	308.38 / 4.97													
RW31 (MAP)	1666 MSL	308.38													
1666 MSL	HIBIR (FO)		3200												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SE ILUZY, RT, 308.46 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 308.38 FAF: UJOTO DIST FAF TO MAP: 4.97 THLD: 4.97 4. MIN. ALT: ILUZY 3000, UJOTO 3000 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: 3000 GS ALT AT: UJOTO 3000 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>				MAG VAR: 2E EPOCH YEAR: 2015											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A X											
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1666	1	295	1666	1	295		NA			NA				
LNAV/VNAV DA	2155	2 1/2	784	2155	2 1/2	784		NA			NA				
LNAV MDA	2080	1	709	2080	1	709		NA			NA				
CIRCLING	2120	1	744	2120	1	744		NA			NA				
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: USE DETROIT LAKES ALTIMETER SETTING; WHEN NOT RECEIVED, USE WADENA ALTIMETER SETTING.															
CITY AND STATE PERHAM, MN		ELEVATION: 1376 THRE: 1371 AIRPORT NAME: PERHAM MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE RNAV (GPS) RWY 31, AMDT 1 22 AUGUST 2013				SUP: RNAV (GPS) RWY 30 AMDT: ORIG DATED 09/23/2010					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TAA

	FROM	TO	ALT
1.	218/30 CW 038/30 (NOPT) 218/9 CW 038/9	218/9 CW 038/9 ILUZY (IF/IAF) (FB)	3300 3000
2.	038/30 CW 128/30	JORVO (IAF) (FB)	3100
3.	128/30 CW 218/30	INXAL (IAF) (FB)	3400

QUALITY
3
CHECKED

CITY AND STATE
 PERHAM, MN

ELEVATION: 1376 THRE: 1371
 AIRPORT NAME:
 PERHAM MUNI

FACILITY
 IDENTIFIER:
 RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 31, AMDT 1
 22 AUGUST 2013

SUP: RNAV (GPS) RWY 30
 AMDT: ORIG
 DATED: 09/23/2010

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	16D
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	463626.4450N
LTP/FTP LONGITUDE	0953559.5875W
LTP/FTP ELLIPSOIDAL HEIGHT	+03913
FPAP LATITUDE	463724.0600N
FPAP LONGITUDE	0953738.1700W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDE PATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1496
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

75203A50

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04180
FPAP ORTHOMETRIC HEIGHT	+04180

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				AMDT: ORIG
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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP 16D K3FR31	AILUZY	010ILUZYK3EA0EE	AR	HF			30850040	+	03000	18000		A	JS
SUSAP 16D K3FR31	AINXAL	010INXALK3EA0E	A	IF						18000		A	JS
SUSAP 16D K3FR31	AINXAL	020ILUZYK3EA0EE	B	010TF			21850065	+	03000			A	JS
SUSAP 16D K3FR31	AJORVO	010JORVOK3EA0E	A	IF						18000		A	JS
SUSAP 16D K3FR31	AJORVO	020ILUZYK3EA0EE	B	010TF			03840065	+	03000			A	JS
SUSAP 16D K3FR31	R	010ILUZYK3EA0E	I	IF				+	03000	18000		A	JS
SUSAP 16D K3FR31	R	020UJOTOK3EA1E	F	051TF			30850065	+	03000			A	JS
SUSAP 16D K3FR31	R	020UJOTOK3EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP 16D K3FR31	R	030RW31 K3PG0GY	M	031TF			30840050			-300		A	JS
SUSAP 16D K3FR31	R	040	0	M	CA		3084	+	01666			A	JS
SUSAP 16D K3FR31	R	050HIBIRK3EA0EY		DF				+	03200			A	JS
SUSAP 16D K3FR31	R	060HIBIRK3EA0EE	R	HM			12810040	+	03200			A	JS

[illegible][illegible]

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RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ILUZY	ILUZY	010	IAF	HF	R	FO		308.5 (310.5T)	004.0	AA 03000	
	INXAL	INXAL	010	IAF	IF		FB					
	INXAL	ILUZY	020		TF		FB	1.0	218.5 (220.5T)	006.5	AA 03000	
	JORVO	JORVO	010	IAF	IF		FB					
	JORVO	ILUZY	020		TF		FB	1.0	038.4 (040.4T)	006.5	AA 03000	
		ILUZY	010	FACF	IF		FB				AA 03000	
		UJOTO	020	FAF	TF		FB	0.5	308.5 (310.5T)	006.5	AA 03000	
		RW31	030	MAP	TF		FO	0.3	308.4 (310.4T)	005.0	AT 01416	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		308.4 (310.4T)		AA 01666	
	HIBIR	050		DF		FO				AA 03200	
	HIBIR	060		HM	R	FO		128.1 (130.1T)	004.0	AA 03200	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HIBIR	N464429.25	W0954948.86	N4644.488	W09549.814
	ILUZY	N462859.93	W0952318.82	N4628.999	W09523.314
	INXAL	N463356.46	W0951711.95	N4633.941	W09517.199
	JORVO	N462403.07	W0952924.59	N4624.051	W09529.410
	UJOTO	N463313.37	W0953029.90	N4633.223	W09530.498
	RW31	N463626.45	W0953559.59	N4636.441	W09535.993

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW31	01371		45

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