

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							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: RW24												
HZN VORTAC (IF/IAF)				ZEKEM (TF) (FB) (RNP 1.00)				215.47 / 3.54				7000		CLIMB TO 6900 THEN CLIMBING LEFT TURN TO 9900 DIRECT HZN VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9900. *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 315 FEET PER NM TO 6900.												
ZEKEM				ZUTZA (TF) (FB) (RNP 1.00)				221.75 / 3.63				6200														
ZUTZA (FAF)				RW24 (MAP) (TF) (FO) (RNP 0.30)				236.18 / 6.11																		
RW24 (MAP)				6900 MSL				236.18				6900														
6900 MSL				HZN VORTAC (DF) (FO) (RNP 1.00)								9900		ADDITIONAL FLIGHT DATA: FAS OBST: 4817 AAO 392519N/1190911W 4912 AAO 392715N/1190720W DISTANCE TO THLD FROM 356 HAT: 1.06 NM. WAAS CHANNEL # 65740 REFERENCE PATH ID: W24A CHART CIRCLING ICON. CHART FALLON NAS (VAN VOORHIS FLD) ATIS. LTP HAE: 1260.3 M												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	MAG VAR: 13E EPOCH YEAR: 2020									
2. HOLD NE HZN VORTAC, RT, 215.47 INBOUND, 8000 FT. IN LIEU OF PT (IAF)																										
3. FAC: 236.18 FAF: ZUTZA DIST FAF TO MAP: 6.11 THLD: 6.11																										
4. MIN. ALT: HZN VORTAC 8000, ZEKEM 7000, ZUTZA 6200																										
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																										
6. MIN GS INCPT: 6200 GS ALT AT: ZUTZA 6200 OM: _____ MM: _____ IM: _____																										
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR																										
8. MSA FROM: RW24 10200																										
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*	4593	1 1/4	356	4593	1 1/4	356	4593	1 1/4	356		NA															
LPV DA	5007	3	770	5007	3	770	5007	3	770		NA															
LNAV/VNAV DA	5209	4	972	5209	4	972	5209	4	972		NA															
LNAV MDA	5280	1 1/4	1043	5280	1 1/2	1043	5280	3	1043		NA															
CIRCLING	5280	1 1/4	1015	5620	1 1/2	1355	6040	3	1775		NA															
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -23C (-9F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON HZN VORTAC AIRWAY RADIAL R-011. (CONTINUED ON PAGE 2)																										
CITY AND STATE SILVER SPRINGS, NV				ELEVATION: 4265 TDZE: 4237 AIRPORT NAME: SILVER SPRINGS				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 24, ORIG					SUP: AMDT: NONE DATED											

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>CONCURRENT</div>	
COORDINATED WITH: <div><div>ATA<input type="checkbox"/></div><div>AAT<input type="checkbox"/></div><div>ALPA<input checked="" type="checkbox"/></div><div>APA<input type="checkbox"/></div><div>AOPA<input checked="" type="checkbox"/></div><div>NBAA<input checked="" type="checkbox"/></div><div>OTHER (specify) ZOA ARTCC, NFL APP CON, AMGR.</div></div>					
FLIGHT CHECKED BY					
NAME: <div>TONY BAMSEY</div>			Digitally signed by JOHNNIE BAKER Feb 15, 2017		<div>FIFO FICO</div> <div>DATE: 02/10/2017</div>
DEVELOPED BY					
NAME: <div>STEVE NELSON</div>			Digitally signed by STEVEN NELSON Nov 14, 2016		<div>FIFO AJV-5423</div> <div>DATE: 11/14/2016</div>
APPROVED BY					
NAME: <div>TONY R LAWSON</div>			Digitally signed by JOHNNIE BAKER Feb 15, 2017		<div>FIFO AJV-5420</div> <div>DATE:</div>
CHANGES: ORIG.					
REASONS: AIRPORT REQUEST.					
EFFECTIVE CONCURRENT WITH: AIRSPACE DOCKET 16-AWP-11.					
03/02/17: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/15/17: 1. ADDED MIN ALT HZN VORTAC 8000 TO LINE 4.					
<div>QUALITY 22 CHECKED</div>					

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.

NOTES, (CONT.):
CHART NOTE: USE FALLON NAS (VAN VOORHIS FLD) ALTIMETER SETTING; WHEN NOT RECEIVED, USE RENO/TAHOE INTL ALTIMETER SETTING.

CITY AND STATE SILVER SPRINGS, NV	ELEVATION: 4265 AIRPORT NAME: SILVER SPRINGS	TDZE: 4237	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 24, ORIG	SUP:
					AMDT: NONE
					DATED:

QUALITY
22
CHECKED

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <div><input type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>		ALPA <div><input type="checkbox"/></div>	
APA <div><input type="checkbox"/></div>		AOPA <div><input type="checkbox"/></div>		NBAA <div><input type="checkbox"/></div>	
OTHER (specify)		<div><input type="checkbox"/></div>		<div><input type="checkbox"/></div>	
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					



RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR 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.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSPZ
RUNWAY	RW24
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	392421.5320N
LTP/FTP LONGITUDE	1191428.6080W
LTP/FTP ELLIPSOIDAL HEIGHT	+12603
FPAP LATITUDE	392349.7055N
FPAP LONGITUDE	1191615.9835W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
<u>CRC REMAINDER</u>	1FA600D7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+12846
FPAP ORTHOMETRIC HEIGHT	+12846

CITY AND STATE
SILVER SPRINGS, NV

ELEVATION: 4265 TDZE: 4237
AIRPORT NAME:
SILVER SPRINGS

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 24, ORIG

SUP: **QUALITY
22
CHECKED**
AMDT: NONE
DATED:

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <input type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input type="checkbox"/>	APA <input type="checkbox"/>	AOPA <input type="checkbox"/>	NBAA <input type="checkbox"/>
OTHER (specify) <input type="checkbox"/> _____					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT		FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL	ROC	ALT. ADJUSTMENTS		MIN. ALT.					
INTERMEDIATE		HZN VORTAC		ZEKEM		1. AAO		393033.00N/1190330.00W		4984 (2D)	500	AT1516		7000					
		(IF/IAF)				2. TERRAIN		393033.00N/1190330.00W		4784 (4800)		AS1500		6300					
INTERMEDIATE:		ZEKEM		ZUTZA		3. AAO		393030.00N/1190333.00W		4945 (2D)	500			5500					
STEPDOWN						4. TERRAIN		392733.00N/1190642.00W		4738 (4700)		AS1500		6200					
FINAL: LPV		ZUTZA		RW24							ASC	RA106		4593/356					
FINAL: LPV		ZUTZA		RW24							ASC	RA106 MA414		5007/770					
FINAL: LNAV/VNAV		ZUTZA		RW24							ASC	RA106 MA616		5209/972					
FINAL: LNAV		ZUTZA		RW24		5. AAO		392518.76N/1190911.26W		4817 (2C)	250	XL6 RA106 MA100		5280					
2. HOLD-IN-LIEU-OF-PT		HZN VORTAC		P-9		6. AAO		394157.00N/1185924.00W		5679 (2E)	1000	AT1321		8000					
						7. TERRAIN		394157.00N/1185924.00W		5479 (5500)		AS1500		7000					
3. MISSED APPROACH	MAP:	DA / DA / DA /		HZN VORTAC		8. AAO		392509.00N/1192427.00W		6329 (2C)	ASC			9900					
		RW24				9. AAO		391954.00N/1191912.00W		5981 (2C)	ASC			9900					
	ELEV:	4278/4511/4931/5069				10. AAO		392509.00N/1192433.00W		6382 (2C)	ASC			9900					
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	1015	13. T-L TWR (32-023238)		392521.13N/1191511.65W	4712 (1B)	300	SI	5280					
CATEGORY B		1.5 NM			450		1355	14. GRD (KSPZT2181)		392610.02N/1191530.80W	5204 (1B)	300	RA106	5620					
CATEGORY C		1.7 NM			450		1775	15. GRD (KSPZT3014)		392655.97N/1191522.25W	5621 (1B)	300	RA106	6040					
CATEGORY D		2.3 NM			550														
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES																			
PRIMARY NAVAID: RW24																			
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
360-360		AAO		192/25.5		9183 (2E)		10200											
CITY AND STATE		ELEVATION: 4265				FACILITY				PROCEDURE AND AMENDMENT NO:				REGION					
SILVER SPRINGS, NV		AIRPORT NAME: SILVER SPRINGS				RNAV				RNAV (GPS) RWY 24, ORIG				AWP					

QUALITY
22

CHECKED

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: VDP NOT ESTABLISHED - DUAL REMOTE ALTIMETERS. PRECIPITOUS TERRAIN EVALUATION COMPLETED. ORDER 8260.3 CHAPTER 2 APPLIED TO 4912 AAO 392715N/1190720W 2-3. KNFL ATIS IS 16 HRS M-F, 8 HRS SAT, 6 HRS SUN, CLSD HOLIDAYS. KRNO ASOS IS TRANSMITTED TO WMSCR. RASS PRESSURE PATTERNS THE SAME KSPZ 4265.2, KNFL 3934.7, KRNO 4419.9 RA = 105.44 / 78.84 CRITICAL TEMPERATURES: CRITICAL LOW :-23C (-9F) CRITICAL HIGH :+54C (+130F) ACT :-23C APT ISA :+6.55C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 867 HIGH TEMP 1176. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.38NM CAT B: 1.98NM CAT C: 3.16NM SEE ATTACHED AIRSPACE LETTER. LPV SLOPE: 34:1 LNAV/VNAV SLOPE: 23.39:1 VEGETATION 45'. KNFL PREFERRED AS PRIMARY ALTIMETER SOURCE DUE TO APP CON RESPONSIBILITY WHEN OPEN AND APPROACH COURSE DIRECTION. CAT D NOT DEVELOPED PER AMGR DUE TO IMPACT ON MINIMUMS FROM HIGH TERRAIN TO THE WEST. LPV BASE HAT 250 DUE TO NPI-F MARKINGS. ATC WILL ENSURE DECONFLICTION FROM AIRCRAFT REQUIRING CIH AT HZN VORTAC AND CHURCHILL MOA. PER EMAIL 102, BANK ANGLE 25.49 DEGREES USED IN MISSED APPROACH DUE TO HIGH TERRAIN TO THE WEST. VGSI DATA: 3.00/40.0. OBS #1, #3, #6, #8-11, AND MSA - HORIZONTAL ACCURACY 43'. MISSED APPROACH OBSTACLES CONT. PRIMARY: 11. AAO 391330.00N/1192630.00W 6703 (2E) 1000 7800 12. TERRAIN 391330.00N/1192630.00W 6503 (6500) AS1500 8000	
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING					
ZOA ARTCC NFL APP CON				N W S	OTHER: ATIS		SOURCE:KNFL / KRNO				
				F A A			DISTANCE: 25.71 / 24.84				
				A / C			HOURS REMOTE OPERATION: 16/NO / 24/YES				
SATISFACTORY ON:			LOCATION: KNFL			ADJUSTMENT: 106 / 79					
4. MONITOR STATUS	X	V H F	X	U H F		H F	PRIMARY NAVAID:				
							MONITOR POINT:				
							HRS OPTN:	CAT 1			
								CAT 3			
5. APPROACH & RUNWAY LIGHTING	X	V H F	X	U H F		H F	ALS				
							(S) SALS				
							MALS				
							HIRL				
							MIRL 06 (PCL), 24 (PCL)				
							REIL 06, 24				
							TDZ				
							C/LINE				
								X	OTHER (SPECIFY) PAPI-2L 06, 24		
6. RUNWAY MARKINGS		X	V H F	X	U H F		H F	BASIC			
								ALL WEATHER			
								INSTRUMENT NPI-F 06, 24			
7. RUNWAY VISUAL RANGE		X	V H F	X	U H F		H F	APPROACH			
								MIDFIELD			
								ROLL OUT			
8. GLIDE PATH		X	V H F	X	U H F		H F	GP ANGLE: 3.00		ELEV RWY THRESHOLD:4214.6	
								DISTANCE FROM RWY:		ELEV GP ANTENNA:	
								THRESHOLD CROSSING HEIGHT:40.0			
9. FINAL APPROACH COURSE AIMING			X	V H F	X	U H F		H F	RUNWAY THRESHOLD FT. FROM THRESHOLD		
									ON CENTERLINE FT. FROM CENTERLINE		
10. WAIVERS: NONE											
PART D - PREPARED BY: STEVE NELSON							DATE: 11/14/2016				
TITLE: AERONAUTICAL INFORMATION SPECIALIST							OFFICE: AJV-5423				

