

**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>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
ST JOHNS INDUSTRIAL AIR PARK	KSJN	RNAV (GPS) RWY 32	1	ST JOHNS	AZ	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
5737	5737	RNAV (GPS) RWY 32	ORIG-A	10/25/2007	12E	1980
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		10 OCTOBER 2019	ROUTINE			

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
IRECU		GUVCE		TF	FO	1.00	116.08	29.01	9400
SJN VORTAC		GUVCE		TF	FO	1.00	216.34	7.01	9400
GUVCE	IF/IAF	HOXOK		TF	FB	1.00	316.42	3.20	8500
HOXOK		CUVOV		TF	FB	1.00	316.43	2.76	7700
CUVOV	FAF	HUGOV/2.11 NM TO RW32		TF	FB	0.30	316.37	3.73	
HUGOV/2.11 NM TO RW32		RW32	MAP	TF	FO	0.30	316.37	2.11	
RW32	MAP	5987 MSL		CA			316.37		
5987 MSL		ZOVEK		DF	FB	1.00			
ZOVEK		IRECU		TF	FO	1.00	276.56	15.57	9400

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW32

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 9400 DIRECT ZOVEK AND ON TRACK 276.56 TO IRECU AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)	
2.	HOLD SE GUVCE, LT, 316.42 INBOUND, 9400 FT. IN LIEU OF PT (IAF), MAX 14000.				
3. FAC:	316.37	FAF: CUVOV	DIST FAF TO MAP: 5.84	DIST FAF TO THLD: 5.84	
4. MIN ALT:	GUVCE 9400, HOXOK 8500, CUVOV 7700, HUGOV/2.11 NM TO RW32 6480*				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.60	GS ANT:
6. MIN GP INCPT: 7700	GP ALT AT FAF : CUVOV 7700			OM:	MM: IM:
7. GP ANGLE: 3.08	34:1: IS NOT CLEAR	20:1: IS NOT CLEAR	TCH: 53.0		
8. MSA FROM:	RW32 11400				

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART: V264  
CHART NOTE: RWY 32 STRAIGHT-IN NA AT NIGHT, CIRCLING RWY 03, 32 NA AT NIGHT.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SJN VORTAC ON V528 EASTBOUND, AND V190 NORTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

\*LNAV ONLY  
CHART CIRCLING ICON.  
WAAS CHANNEL #42643  
REFERENCE PATH ID: W32A  
CHART FAS OBST: 5841 TREE 343003N/1092206W.  
6437 AAO 342521N/1091906W.  
HOLD W, RT, 098.55 INBOUND  
LTP HAE: 1725.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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
LPV DA	5987	1	250	5987	1	250		NA			NA				
LNAV/VNAV DA	6167	1 1/4	430	6167	1 1/4	430		NA			NA				
LNAV MDA	6140	1	403	6140	1	403		NA			NA				
CIRCLING	6260	1	523	6280	1	543		NA			NA				



**CHANGES - REASONS**

- 1. CHANGED TERMINAL ROUTE RNP VALUE FOR FEEDER IRECU TO GUVCE FROM 2.00 TO 1.00, FEEDER SJN VORTAC TO GUVCE FROM 2.00 TO 1.00, IF/IAF GUVCE TO HOXOK FROM .50 TO 1.00, AND IF STEP-DOWN HOXOK TO CUVOV FROM .50 TO 1.00 - PER 8260.58A, TABLE 1-2-1.
- 2. REMOVED CHART NOTE: DME/DME RNP-0.3 NA - THE NA NOTE HAS BEEN REPLACED WITH PBN NAVSPEC REQUIREMENTS.
- 3. ADDED CHART NOTE: RWY 32 STRAIGHT-IN NA AT NIGHT, CIRCLING RWY 03, 32 NA AT NIGHT - PER 8260.19H PARA. 8-6-11.O.(2).(C). AND 8-6-11.O.(2).(G).
- 4. CHANGED HELICOPTER NOTE FROM VISIBILITY REDUCTION BY HELICOPTERS NA, TO RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. - 20:1 OBSTACLES EXIST IN THE VISUAL SURFACE.
- 5. ADDED CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - GS TCH NOT WITHIN THREE FEET OF VGSI TCH.
- 6. CHANGED THE ALTITUDE AT THE LNAV STEP-DOWN FIX HUGOV FROM 6360 TO 6480, FIX MOVED 1891.92 FEET SE - TO MAINTAIN OBSTACLE CLEARANCE AND DESCENT ANGLE FOR THE LNAV PORTION OF FINAL.
- 7. ADDED: CHART CIRCLING ICON - NEW CIRCLING CRITERIA PER 8260.3D, SECTION 2-7.
- 8. FAF (CUVOV) MOVED 325.70 FT SE, CHANGING DISTANCE FAF TO MAP AND FAF TO THLD FROM 5.79 TO 5.84, COURSE CHANGED FROM 316.42 TO 316.39 - CUVOV FIX MOVED DUE TO NEW PFAF FORMULA.
- 9. CHANGED DISTANCE OF HUGOV TO RWT FROM 1.80 TO 2.11 NM. - REQUIRED DUE TO INCREASED ALTITUDE FOR SDF.
- 10. CHANGED LNAV/VNAV CAT A/B VIS FROM 1 1/2 TO 1 1/4. - UPDATED VISI VALUES IN 8260.3D, TABLE 3-3-1.
- 11. CHANGED DIST FAF TO MAP/THLD FROM 5.79 TO 5.84 NM. - PFAF (CUVOV) MOVED 325 FEET SOUTHEAST.
- 12. TCH CHANGED FROM 40.0 TO 53.0. - MITIGATE GQS PENETRATIONS.
- 13. RAISED CAT A CIRCLING MDA/HAA FROM 6240/503 TO 6260/523. - NEW CONTROLLING OBSTACLE.
- 14. MOVED ALL BACKUP ALTIMETER SOURCE NOTES FROM -3 TO -9. - LOCAL WEATHER (ASOS) ON WMSCR.
- 15. CHANGED DISTANCE FROM HOXOK TO CUVOV FROM 2.81 TO 2.76, AND COURSE FROM 316.42 TO 316.43 - PFAF MOVED SOUTHEAST.
- 16. REMOVED 430 HAT: 1.15, AND ADDED DIST TO THLD TO 250 HAT: .06 NM. - ADDED LPV LINE OF MINIMA TO PROCEDURE.
- 17. BARO-VNAV NOTE CHANGED FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26C {-15F) OR ABOVE 30C / {86F). TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13°C OR ABOVE 54°C. - FIVE YEAR TEMPERATURE DATA UPDATED AND REMOVED FAHRENHEIT VALUES.
- 18. ADDED LPV LINE OF MINIMA - PER FPT REQUEST.
- 19. MOVED FIX ZOVEK 5346.98 FEET NW, COURSE/DISTANCE TO IRECU CHANGED FROM 278.55/16.26 NM TO 276.55/15.57 NM - TO MEET CRITERIA FOR A LPV MISSED APPROACH TURN TO THE CLEARANCE LIMIT.

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZOB ARTCC, APT MNGR

**FLIGHT CHECKED BY**

BRYAN VIET

*Digitally signed by*

**WARDELL HENNING**

Jul 03, 2019

**OFFICE**

FICO

**DATE**

6/28/19

**DEVELOPED BY**

WARDELL HENNING (TODD BOWLING)

*Digitally signed by*

**WARDELL HENNING**

Jul 03, 2019

**OFFICE**

AJV-A432

**DATE**

03/25/2019

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*

**WARDELL HENNING**

Jul 03, 2019

**OFFICE**

AJV-A430

**DATE**

**TITLE**

MANAGER



AIRPORT

ST JOHNS INDUSTRIAL AIR PARK

AIRPORT ID

KSJN

PROCEDURE NAME

RNAV (GPS) RWY 32

ORIGINAL/AMENDMENT

1

CITY

ST JOHNS

STATE

AZ

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE

0

SBAS SERVICE PROVIDER IDENTIFIER

0

AIRPORT IDENTIFIER

KSJN

RUNWAY

RW32

APPROACH PERFORMANCE DESIGNATOR

0

ROUTE INDICATOR

REFERENCE PATH DATA SELECTOR

0

REFERENCE PATH IDENTIFIER (APPROACH ID)

W32A

LTP/FTP LATITUDE

343050.2120N

LTP/FTP LONGITUDE

1092225.0010W

LTP/FTP ELLIPSOIDAL HEIGHT

+17252

FPAP LATITUDE

343206.1765N

FPAP LONGITUDE

1092321.6090W

THRESHOLD CROSSING HEIGHT (TCH)

00053.0

TCH UNITS SELECTOR (METERS OR FEET USED)

F

GLIDEPATH ANGLE (GPA)

03.08

COURSE WIDTH AT THRESHOLD

106.75

LENGTH OFFSET

1160

HORIZONTAL ALERT LIMIT (HAL)

40.0

VERTICAL ALERT LIMIT (VAL)

50.0

CRC REMAINDER

7A37A6AC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE

K2

LTP ORTHOMETRIC HEIGHT

+17485

FPAP ORTHOMETRIC HEIGHT

+17485

