

<b>RNAV - STANDARD</b> <b>US DEPARTMENT OF TRANSPORTATION</b> <b>FEDERAL AVIATION ADMINISTRATION</b>						<b>INSTRUMENT APPROACH PROCEDURE</b> <b>TITLE 14 CFR PART 97.33</b>										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: RW18  CLIMB TO 3200 DIRECT NUFAD AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD S, LT, 353.97 INBOUND. CHART FAS OBST: 1279 TREE 353621N/0974139W DISTANCE TO THLD FROM 250 HAT: 0.74 NM. CHART VDP AT 1.11 NM TO RW18* *LNAV ONLY. WAAS CHANNEL # 81923 REFERENCE PATH ID: W18A LTP HAE: 324.2 M											
YAVOR (IF/IAF)				ILWIM (TF) (FB) (RNP 1.00)				173.97 / 7.10				2800													
ILWIM (FAF)				WAROP/1.70 NM TO RW18 (TF) (FB) (RNP 0.30)				173.97 / 3.35																	
WAROP/1.70 NM TO RW18				RW18 (MAP) (TF) (FO) (RNP 0.30)				173.97 / 1.70																	
RW18 (MAP)				1427 MSL (CA)				173.97				3200													
1427 MSL				NUFAD (DF) (FO) (RNP 1.00)																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N YAVOR, RT, 173.97 INBOUND, 3600 FT. IN LIEU OF PT (IAF) 3. FAC: 173.97 FAF: ILWIM DIST FAF TO MAP: 5.05 THLD: 5.05 4. MIN. ALT: YAVOR 3600, ILWIM 2800, WAROP/1.70 NM TO RW18 1720* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2800 GS ALT AT: ILWIM 2800 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: _____																MAG VAR: 4E EPOCH YEAR: 2020									
MINIMUMS																									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																ALTERNATE: N A		STANDARD							
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	1427	1	250	1427	1	250	1427	1	250		NA														
LNAV/VNAV DA	1473	1 1/8	296	1473	1 1/8	296	1473	1 1/8	296		NA														
LNAV MDA	1540	1	363	1540	1	363	1540	1 1/8	363		NA														
CIRCLING	1740	1	547	1780	1	587	1840	1 3/4	647		NA														
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: BARO-VNAV AND VDP NA WHEN USING WILEY POST ALTIMETER SETTING. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: CIRCLING TO RWY 36 NA AT NIGHT																									
CITY AND STATE  OKLAHOMA CITY, OK				ELEVATION: 1193 TDZE: 1177				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 1D				SUP: RNAV (GPS) RWY 17									
				AIRPORT NAME:  SUNDANCE												AMDT: 1C									
																DATED 09/15/2016									

QUALITY  
 10  
 CHECKED

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
ROUTINE					
COORDINATED WITH:					
ATA <div></div>		AAT <div></div>		ALPA <div>X</div>	
APA <div></div>		AOPA <div>X</div>		NBAA <div>X</div>	
OTHER (specify)		<div>X</div> ZFW, OKC APP CON, AMGR			
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
BEV L BORDY (STEVEN OWNBEY)				AJV-5433	02/28/2017
APPROVED BY					
NAME:				FIFO	DATE:
PATRICK J. MULQUEEN				AJV-5430	
MANAGER					
CHANGES:					
<div>1. CHANGED ALL TERMINAL ROUTES COURSES FROM 170.97 TO 173.97.</div> <div>2. CHANGED HOLD IN LIEU COURSE FROM 170.97 TO 173.97.</div> <div>3. CHANGED FINAL APPROACH COURSE FROM 170.97 TO 173.97.</div> <div>4. REMOVED BACKUP ALTIMETER NOTE AND DOCUMENTED ON THE BACK OF THE -9 AS A CONTINGENCY.</div> <div>5. CHANGED TAA STRAIGHT IN COURSE FROM 081 TO 084 AND HOLD IN LIEU COURSE FROM 261 TO 264.</div> <div>6. ADDED VDP.</div> <div>7. REMOVED HELICOPTER VISIBILITY RESTRICTION.</div> <div>8. CHANGED NOTE: "CIRCLING RWY 35 NA AT NIGHT" TO "CIRCLING RWY 36 NA AT NIGHT".</div> <div>9. CHANGED ALTERNATE MINIMUMS FROM NA TO STANDARD.</div> <div>10. CHANGED PROCEDURE NAME FROM RNAV (GPS) RWY 17 TO RNAV (GPS) RWY 18</div>					
REASONS:					
<div>1, 2, 3, 5, 10. MAG VAR UPDATED TO 2020 EPOCH YEAR.</div> <div>4. PER 8062.19G 8-6-6 F(4)</div> <div>6. 20:1 IS CLEAR.</div> <div>7. 34:1 IS CLEAR PER FPT</div> <div>8. 20:1 PENETRATION REPORTED BY FPT 1204 VEHICLE 353540.61N-0974221.03W</div> <div>9. LOCAL ALTIMETER ESTABLISHED</div> <div>PDF EDIT THE SUPPERSEDE BLOCK CHANGED 1 TO 1C AND THE ASSOCIATED DATE</div>					



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.

TAA

	FROM	TO	ALT
1.	084/30 CW 264/30 (NOPT)	YAVOR (IF/IAF) (FB)	3600
2.	264/30 CW 084/30	YAVOR (IF/IAF) (FO)	3800

QUALITY  
10  
CHECKED

CITY AND STATE  
OKLAHOMA CITY, OK

ELEVATION: 1193 TDZE: 1177  
AIRPORT NAME:  
SUNDANCE

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 18, AMDT 1D

SUP: RNAV (GPS) RWY 17  
AMDT: 1C  
DATED: 09/15/2016

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>			
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	KHSD
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	353631.2950N
LTP/FTP LONGITUDE	0974223.2365W
LTP/FTP ELLIPSOIDAL HEIGHT	+03242
FPAP LATITUDE	353502.1200N
FPAP LONGITUDE	0974219.3700W
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	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 5B398425

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+03514
FPAP ORTHOMETRIC HEIGHT	+03514

QUALITY  
10  
CHECKED

CITY AND STATE OKLAHOMA CITY, OK	ELEVATION: 1193      TDZE: 1177 AIRPORT NAME:  SUNDANCE	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  RNAV (GPS) RWY 18, AMDT 1D	SUP: RNAV (GPS) RWY 17
				AMDT: 1C
				DATED: 09/15/2016

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>			
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.			
STRAIGHT-IN AREA		084/30 CW 264/30		YAVOR		1. TOWER (40-002311)		355850.00N/0974143.00W		2569 (4D)		1000				3600			
						2. TERRAIN		355212.00N/0982027.00W		1602 (1600)				AS1500		3100			
STRAIGHT-IN AREA		264/30 CW 084/30		YAVOR		3. TOWER (40-003513)		353336.96N/0972907.63W		2749 (4D)		1000				3800			
						4. TERRAIN		353336.96N/0972907.63W		1640 (1600)				AS1500		3100			
INTERMEDIATE		YAVOR (IF/IAF)		ILWIM		5. WINDMILL (40-029077)		354535.13N/0974525.92W		1567 (4D)		500		SA-37 AT770		2800			
						6. TERRAIN		354136.45N/0974311.60W		1200 (1200)				AS1500		2700			
FINAL: LPV		ILWIM		RW18		7. TREE (KHSDL006)		353636.96N/0974227.10W		1163 (1B)		34:1		AC10		1427/250			
FINAL: LNAV/VNAV		ILWIM		RW18		8. TREE		353620.68N/0974139.44W		1279 (2C)		23.40:1		AC20		1473/296			
FINAL: LNAV		ILWIM		WAROP/1.70 NM TO RW18		9. AAO		354052.75N/0974303.15W		1409 (2C)		250		RA37 XP21		1720			
FINAL: LNAV STEPDOWN		WAROP/1.70 NM TO RW18		RW18		8. TREE		353620.68N/0974139.44W		1279 (2C)		250				1540			
2. HOLD-IN-LIEU-OF-PT		YAVOR		P-5		1. TOWER (40-002311)		355850.00N/0974143.00W		2569 (4D)		1000		SA-653 AT684		3600			
						10. TERRAIN		354533.00N/0974800.00W		1220 (1200)				AS1500		2700			
3. MISSED APPROACH	MAP:		DA / DA / RW18		NUFAD								ASC				3200		
	ELEV:		1216/1299/1440				11. TOWER (40-001570)		352445.00N/0974027.00W		1608 (5D)		1000				2700		
						12. TERRAIN		352903.00N/0974427.00W		1362 (1400)				AS1500		2900			
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	547	13. TREE		353428.00N/0974156.60W		1409 (2C)		300		XP31		1740	
CATEGORY B		1.5 NM			450		587	14. TOWER (40-000579)		353424.00N/0974141.00W		1421 (4D)		300		AC50		1780	
CATEGORY C		1.7 NM			450		647	15. TOWER (40-020546)		353413.06N/0974125.32W		1538 (2C)		300				1840	
CATEGORY D		2.3 NM			550														
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES																			
PRIMARY NAVAID:																			
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
CITY AND STATE		ELEVATION: 1193		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION											
OKLAHOMA CITY, OK		AIRPORT NAME: SUNDANCE		RNAV		RNAV (GPS) RWY 18, AMDT 1D		ASW											

PART B - SUPPLEMENTAL DATA										<div>PART C - REMARKS:</div> <div>PRECIPITOUS TERRAIN EVALUATION COMPLETED.</div> <div>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILEY POST ALTIMETER SETTING: INCREASE LPV DA TO 1464 FEET, LNAV/VNAV DA 1510 FEET AND LNAV/VNAV VISIBILITY ALL CATS 1/8 SM. INCREASE ALL MDA 40 FEET AND CIRCLING CAT C VISIBILITY 1/4 SM.</div> <div>CRITICAL TEMPERATURES: CRITICAL LOW :-17C (+2F) CRITICAL HIGH :+54C (+130F) ACT :-17C APT ISA :+12.6378C</div> <div>CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM 3-YEAR HISTORY CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 831 HIGH TEMP 1126.</div> <div>SEE ATTACHED AIRSPACE LETTER. RASS PRESSURE PATTERNS SAME KHSD 1192.9, KWPA 1299.8 RA = 36.17.</div> <div>LPV SLOPE 34:1 LNAV/VNAV SLOPE 23.40:1 ISA DEVIATION -30</div> <div>100 FT VEGETATION USED.</div> <div>VGSI DATA: 3.00/30.3</div> <div>H-I-L OBSTRUCTION 3726' INTO SECONDARY.</div> <div>CAT D MINIMUM NOT CONSTRUCTED DUE TO IT NOT BEING FEASIBLE AT THE AIRPORT</div> <div>RWY 36 PER FPT 20;1 PENETRATION 100 FT FROM END OF RUNWAY 1204 VEHICLE 353540.61N-0974221.03W (5.7)</div> <div>PDF EDITED: DELECTED NEW CIRLING REFERENCE</div> <div>XP-MATCH CURRENT PUBLISHED LNAV PROCEDURE</div> <div>XP: CIRCLING CAT A-TO MATCH CURRENT PUBLISHED PROCEDURE.</div> <div><div>QUALITY 10 CHECKED</div></div>																	
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																			
OKC APP CON ZFW ARTCC						N W S		OTHER: AWOS-3												SOURCE:KHSD / KPWA							
						F A A														DISTANCE: 0 / 9.22							
						A / C														HOURS REMOTE OPERATION: 0/YES / 24/YES							
SATISFACTORY ON:				LOCATION: KHSD				ADJUSTMENT: 0 / 37																			
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																								ALS			
														(S) SALS													
														MALS													
														HIRL													
		X												MIRL 18 (PCL), 18 (PCL), 36 (PCL), 36 (PCL)													
														REIL													
														TDZ													
														C/LINE													
		X												OTHER (SPECIFY) VASI-2L 18, 18, 36, 36													
6. RUNWAY MARKINGS														BASIC													
														ALL WEATHER													
														INSTRUMENT      NPI-G 18, 36													
7. RUNWAY VISUAL RANGE														APPROACH													
														MIDFIELD													
														ROLL OUT													
8. GLIDE PATH														GP ANGLE: 3.00													
														ELEV RWY THRESHOLD:1152.9													
														DISTANCE FROM RWY:													
														ELEV GP ANTENNA:													
														THRESHOLD CROSSING HEIGHT:40.0													
9. FINAL APPROACH COURSE AIMING				X				RUNWAY THRESHOLD				FT. FROM THRESHOLD															
				X				ON CENTERLINE				FT. FROM CENTERLINE															
10. WAIVERS: NONE																											
PART D - PREPARED BY: BEV L BORDY (STEVEN OWNBEY)										DATE: 02/28/2017																	
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5433																	