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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSDLK2FRNV-D	APOURS	010POURSK2EA0E	A	IF					18000		B	JC
SUSAP	KSDLK2FRNV-D	APOURS	020TAGOCK2EA0E		010TF			18950143	+ 07400			B	JC
SUSAP	KSDLK2FRNV-D	APOURS	030WILUPK2EA0EE	B	010TF			18950080	+ 04600			B	JC
SUSAP	KSDLK2FRNV-D	R	010WILUPK2EA0E	I	IF				+ 04600	18000		B	JC
SUSAP	KSDLK2FRNV-D	R	020CACTOK2EA0E	F	051TF			10910061	+ 03400		HEKAD K2EAB	JC	
SUSAP	KSDLK2FRNV-D	R	030HEKADK2EA0EY	M	031TF			10920044	02160	000		B	JC
SUSAP	KSDLK2FRNV-D	R	040	0	M	CA		1092	+ 01910			B	JC
SUSAP	KSDLK2FRNV-D	R	050WILUPK2EA0EY	R	DF				+ 05000	250		B	-JC
SUSAP	KSDLK2FRNV-D	R	060WILUPK2EA0EE	L	HM			10910050	+ 05000			B	JC

[illegible]

CITY AND STATE SCOTTSDALE, AZ	ELEVATION: 1510	TDZE:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS)-D, AMDT 1 05 APR 2012	SUP:
	AIRPORT NAME: SCOTTSDALE	FACILITY IDENTIFIER: RNAV		AMDT: ORIG
				DATED: 3/17/2005

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - 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.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	POURS	POURS	010	IAF	IF		FB					
	POURS	TAGOC	020		TF		FB	1.0	189.5 (201.5T)	014.3	AA 07400	
	POURS	WILUP	030		TF		FB	1.0	189.5 (201.5T)	008.0	AA 04600	
		WILUP	010	FACF	IF		FB				AA 04600	
		CACTO	020	FAF	TF		FB	0.5	109.1 (121.1T)	006.1	AA 03400	
		HEKAD	030	MAP	TF		FO	0.3	109.2 (121.2T)	004.4	AT 02160	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		109.2 (121.2T)		AA 01910	
	WILUP	050		DF	R	FO				AA 05000	AB 250
	WILUP	060		HM	L	FO		109.1 (121.1T)	005.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CACTO	N334006.80	W1115922.00	N3340.113	W11159.367
	HEKAD	N333748.59	W1115449.11	N3337.810	W11154.819
	POURS	N340359.85	W1115548.63	N3403.998	W11155.811
	TAGOC	N335042.71	W1120204.69	N3350.712	W11202.078
	WILUP	N334315.27	W1120535.03	N3343.255	W11205.584

CITY AND STATE
SCOTTSDALE, AZ

ELEVATION: 1510
AIRPORT NAME:
SCOTTSDALE

TDZE:

FACILITY
IDENTIFIER:

RNAV

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

05 APR 2012

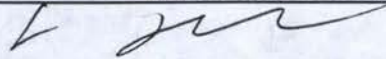
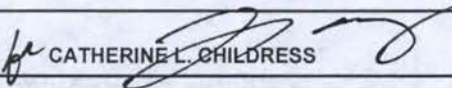
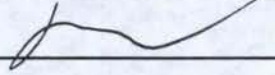
SUP:

AMDT: ORIG

DATED: 3/17/2005

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	LNAV: HEKAD CLIMBING RIGHT TURN TO 5000 DIRECT WILUP AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD W, LT, 109.12 INBOUND. FAS OBST: 1799 AAO 334021N/1115812W 1839 AAO 334117N/1115812W FAC CROSSES 2586 SE OF RWY 21 THRESHOLD											
POURS (IAF)	TAGOC	189.49 / 14.25	7400												
TAGOC	WILUP (FB)	189.45 / 8.00	4600												
WILUP (IF)	CACTO (FB)	109.12 / 6.06	3400												
CACTO (FAF)	HEKAD (MAP) (FO)	109.18 / 4.44													
HEKAD (MAP)	1910 MSL	109.18													
1910 MSL	WILUP (FO)		5000												
1. PT <u>NA</u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT WILUP 3. FAC: 109.18 FAF: CACTO DIST FAF TO MAP: 4.44 THLD: <u> </u> 4. MIN. ALT: WILUP 4600, CACTO 3400 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: <u> </u> GS ALT AT: <u> </u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u> </u> TCH: <u> </u> 8. MSA FROM: HEKAD 7700															
				MAG VAR: 12E EPOCH YEAR: 1990											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT			ALTERNATE: N A <u> </u> STANDARD @ <u> </u>												
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
CIRCLING	2080	1	570	2080	1	570	2160	2	650	2160	2	650			
NOTES: CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 21 NA AT NIGHT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PHOENIX SKY HARBOR INTL ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET, INCREASE CAT C VISIBILITY 1/4 MILE AND CAT D VISIBILITY 1/2 MILE. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: LIMIT MISSED APPROACH TO 250 KIAS.															
CITY AND STATE SCOTTSDALE, AZ		ELEVATION: 1510 TDZE: AIRPORT NAME: SCOTTSDALE		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-D, AMDT 1				SUP: AMDT: ORIG DATED 03/17/2005					



ALL AFFECTED PROCEDURES REVIEWED? <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> YES</div><div><input checked="" type="checkbox"/> NO</div></div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
				ROUTINE	
COORDINATED WITH:					
ATA <input type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input type="checkbox"/>	APA <input checked="" type="checkbox"/>	AOPA <input checked="" type="checkbox"/>	NBAA <input checked="" type="checkbox"/>
				OTHER (specify) <u>ZAB, PHX TRACON, ARPT MANAGER, SDL ATCT</u>	
FLIGHT CHECKED BY					
NAME: Thomas Molokie 				FIFO AVN	DATE: 12/29/11
DEVELOPED BY					
NAME:  CATHERINE L. CHILDRESS				FIFO AJV-354	DATE: 07/21/2011
APPROVED BY					
NAME: DEZ SILAGYI  MANAGER				FIFO AJV-354	DATE: FEB 21 2012
CHANGES:					
1. ADDED CAT D MINIMUMS. 2. CHANGE MISSED APPROACH CLEARANCE LIMIT FROM AVENT TO WILUP. 3. REMOVED INTERMEDIATE STEPDOWN FIX AVENT. 4. REMOVED PXR FEEDER AND HOLD-IN-LIEU AT WILUP. 5. ADDED "CONTINUE CLIMB-IN-HOLD TO 5000" TO MISSED APPROACH INSTRUCTIONS. 6. CAT C MDA/HAA CHANGED FROM 2080/570 TO 2160/650, VISIBILITY CHANGED FROM 1 1/2 TO 2. 7. REMOVED PHOENIX SKY HARBOR ALTIMETER SETTING MINIMUMS AND ADDED THEM BY NOTE. 8. ADDED CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 21 NA AT NIGHT. 9. FAF MOVED 8 FEET EAST. 10. REMOVED NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PHOENIX SKY HARBOR ALTIMETER SETTING.					
PDF EDIT CHANGES:					
1. TERMINAL ROUTE 1910 MSL TO WILUP CHANGED ALTITUDE FROM 1910 TO 5000. 2. CHART NOTE: REMOVED THE "S" FROM MDAS. 3. ARINC SEGMENTS REMOVED 020 FROM BLOCKS 45, 46 AND 47 OF HOLDING SEGMENT. 4. ARINC FLIGHT INSPECTION SUMMARY: REMOVED RNP 020 FROM MISSED APPROACH.					
REASONS:					
1, 7. FPO REQUEST. 2, 3. DTA NOT SUFFICIENT FROM WILUP TO AVENT. 4. ATC REQUEST. 5. 40:1 SURFACE ELEVATION IS LESS THAN THE ROC SURFACE ELEVATION. 6. MISSED APPROACH PENETRATOR. 8. 20:1 PENETRATOR. 9. NEW PFAF FORMULA. 10. ADDED PHOENIX SKY HARBOR ALTIMETER SETTING MINIMUMS BY NOTE.					
02/15/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 07/21/2011.					
1. ADDED CHART PLANVIEW NOTE: LIMIT MISSED APPROACH TO 250 KIAS.					

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[illegible][illegible]

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SUSAP KSDLK2FRNV-D APOURS	010POURSK2EA0E	A	IF							18000		B	JC
SUSAP KSDLK2FRNV-D APOURS	020TAGOCK2EA0E		010TF			18950143	+	07400				B	JC
SUSAP KSDLK2FRNV-D APOURS	030WILUPK2EA0EE	B	010TF			18950080	+	04600				B	JC
SUSAP KSDLK2FRNV-D R	010WILUPK2EA0E	I	IF				+	04600		18000		B	JC
SUSAP KSDLK2FRNV-D R	020CACTOK2EA0E	F	051TF			10910061	+	03400			HEKAD K2EAB	JC	
SUSAP KSDLK2FRNV-D R	030HEKADK2EA0EY	M	031TF			10920044		02160		000		B	JC
SUSAP KSDLK2FRNV-D R	040		0 M	CA		1092	+	01910				B	JC
SUSAP KSDLK2FRNV-D R	050WILUPK2EA0EY	R	DF				+	05000		250		B-JC	
SUSAP KSDLK2FRNV-D R	060WILUPK2EA0EE	L	HM			10910050	+	05000				B	JC

[illegible]

CITY AND STATE SCOTTSDALE, AZ	ELEVATION: 1510	TDZE:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS)-D, AMDT 1	SUP:
	AIRPORT NAME: SCOTTSDALE	FACILITY IDENTIFIER: RNAV		AMDT: ORIG
				DATED: 3/17/2005

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
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	POURS	TAGOC	020		TF		FB	1.0	189.5 (201.5T)	014.3	AA 07400	
	POURS	WILUP	030		TF		FB	1.0	189.5 (201.5T)	008.0	AA 04600	
		WILUP	010	FACF	IF		FB				AA 04600	
		CACTO	020	FAF	TF		FB	0.5	109.1 (121.1T)	006.1	AA 03400	
		HEKAD	030	MAP	TF		FO	0.3	109.2 (121.2T)	004.4	AT 02160	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		109.2 (121.2T)		AA 01910	
		WILUP	050		DF	R	FO				AA 05000	AB 250
		WILUP	060		HM	L	FO		109.1 (121.1T)	005.0	AA 05000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		CACTO	N334006.80		W1115922.00		N3340.113		W11159.367			
		HEKAD	N333748.59		W1115449.11		N3337.810		W11154.819			
		POURS	N340359.85		W1115548.63		N3403.998		W11155.811			
		TAGOC	N335042.71		W1120204.69		N3350.712		W11202.078			
		WILUP	N334315.27		W1120535.03		N3343.255		W11205.584			

CITY AND STATE SCOTTSDALE, AZ	ELEVATION: 1510	TDZE: SCOTTSDALE	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS)-D, AMDT 1	SUP:
	AMDT: ORIG				
	DATED: 3/17/2005				

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:

SCOTTSDALE (KSDL)
SCOTTSDALE, AZ
RNAV (GPS)-D

2. Waiver Required and Applicable Standard:

DIRECT TO FIX (DF) minimum segment length. FAAO 8260.54A, par. 2.5.1b, Policy Guidance Memorandum titled Performance Based Navigation Instrument Procedure Minimum Segment Length Standard, Step 3.C, 10/02/2009.

3. Reason for Waiver (*Justification for nonstandard treatment*):

The Missed approach requires an immediate climbing right turn, due to terrain. The distance for the missed DF leg is 11.42 NM and the minimum distance required is 25.38 NM.

4. Equivalent Level of Safety Provided:

1. Air Traffic Control personnel receive training on these instrument flight procedures prior to implementation.
2. Controllers are required to radar monitor the procedures.
3. Controllers are trained to take action to assist aircraft in returning to the lateral path when deviations from the designed path may compromise separation standards.
4. Procedure has proven operationally effective and no systemic anomalies attributable to procedure design have accrued on existing procedures.
5. ATC has not had the opportunity to observe the Radar track data on an actual missed approach in IMC due to Phoenix weather being VFR 98% of the time. The missed approach has not changed and ATC believes there are no safety problems or concerns.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:

NA - RNAV PROCEDURE

6. Coordination With User Organizations (*Specify*):

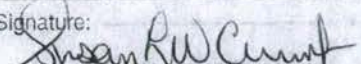
AJV-354 *for*

7. SUBMITTED BY

DATE:
FEB 08 2012

Office Identification:
AJV-35

Title:
**MANAGER, TERMINAL PRODUCTS
GROUP**

Signature:

GREGORY YAMAMOTO

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD											
PART - A OBSTRUCTION DATA											
1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS		MIN. ALT.		
INITIAL	POURS	TAGOC	1. AAO	340309.00N/1115848.00W	5388 (4E)	1000	AT1012		7400		
			2. TERRAIN	340309.00N/1115848.00W	5188 (5200)		AS1500		6700		
INITIAL STEPDOWN	TAGOC	WILUP	3. AAO	335042.00N/1115939.00W	3009 (4E)	1000	AT591		4600		
			4. TERRAIN	335009.00N/1120036.00W	2645 (2600)		AS1500		4100		
INTERMEDIATE	WILUP	CACTO	5. AAO	334357.00N/1120427.00W	2583 (2C)	500			3100		
			6. TERRAIN	334357.00N/1120427.00W	2383 (2400)		AS1000		3400		
FINAL: LNAV	CACTO	HEKAD	7. AAO	334021.45N/1115811.74W	1799 (2C)	250	XP31		2080		
			7. AAO	334021.45N/1115811.74W	1799 (2C)	250	XP31		2080		
			7. AAO	334021.45N/1115811.74W	1799 (2C)	250	MA100		2160		
			7. AAO	334021.45N/1115811.74W	1799 (2C)	250	MA100		2160		
2. PROCEDURE TURN			NA								
3. MISSED APPROACH	MAP: HEKAD		WILUP	8. AAO	333112.60N/1115736.70W	2904 (2D)	ASC			5000	
				8. AAO	333112.60N/1115736.70W	2904 (2D)	1000			4000	
	ELEV: 1980			9. TERRAIN	333112.60N/1115736.70W	2704 (2700)		AS1500		4200	
4. CIRCLING AREA		DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	570	10. TRMSN TWR	333856.39N/1115319.69W	1732 (2C)	300	SI	2080
CATEGORY B	1.5 NM		450		570	11. T-L TWR (04-020019)	333906.31N/1115328.37W	1741 (1A)	300	SI	2080
CATEGORY C	1.7 NM		450		650	11. T-L TWR (04-020019)	333906.31N/1115328.37W	1741 (1A)	300	SI	2160
CATEGORY D	2.3 NM		550		650	12. TREE	333956.32N/1115254.96W	1759 (2C)	300	SI	2160
CATEGORY E	4.5 NM		550								
5. MINIMUM SAFE ALTITUDES					PRIMARY NAVAID: HEKAD						
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
360-360	AAO	033/ 27.8	6664 (4E)	7700							
CITY AND STATE		ELEVATION: 1510		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION			
SCOTTSDALE, AZ		AIRPORT NAME: SCOTTSDALE		RNAV		RNAV (GPS)-D, AMDT 1		AWP			

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:	
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING				VDP NOT ESTABLISHED - CIRCLING PROCEDURE.	
AB ARTCC KHX APP CON KSDL TOWER			<input type="checkbox"/> NWS <input type="checkbox"/> FAA <input type="checkbox"/> A/C			OTHER: ASOS SOURCE: KSDL / KPHX DISTANCE: 0 / 12.38 HOURS REMOTE OPERATION:				PRECIPITOUS TERRAIN EVALUATION COMPLETED.	
SATISFACTORY ON:			LOCATION: KSDL			ADJUSTMENT: 0 / 82				TERPS PARAGRAPH 289 APPLIED TO 1839 AAO 334117N/1115812W	
4. MONITOR STATUS			PRIMARY NAVAID:							FINAL APPROACH COURSE AIMING POINT AS CLOSE TO OLD LOCATION OF NDB PER USER REQUEST.	
			MONITOR POINT:							WAIVER: FAAO 8260.54A PARA 2.5.1B MISSED APPROACH DIRECT TO FIX (DF) MINIMUM SEGMENT LENGTH.	
			HRS CAT 1							RASS PRESSURE PATTERNS SAME KSDL 1510, KPHX 1135 RA = 81.09.	
			OPTN: CAT 3							SEE ATTACHED AIRSPACE LETTER.	
5. APPROACH & RUNWAY LIGHTING			ALS							TAA NOT DEVELOPED PER FPO AND AIR TRAFFIC.	
			(S) SALS							OBST #8 IS IPDS DTED, 29 FOOT ADJUSTMENT APPLIED.	
			MALS							TERPS, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS:	
			HIRL							20:1 RWY 21 1551 TREE (KSDLL012) 333758.43N/1115401.03W (0.63)	
			X MIRL 21 (PCL), 03 (PCL)							XP: RAISED CAT A TO CURRENT MDA	
			X REIL 21 (PCL), 03 (PCL)							XP: RAISED CAT B TO CURRENT MDA	
			TDZ								
			C/LINE								
X OTHER (SPECIFY) PAPI-2L 21 (PCL), 03 (PCL)											
6. RUNWAY MARKINGS			BASIC								
			ALL WEATHER								
			INSTRUMENT NPI-G 21, 03								
7. RUNWAY VISUAL RANGE			APPROACH								
			MIDFIELD								
			ROLL OUT								
8. GLIDE PATH			GP ANGLE:			ELEV RWY THRESHOLD:					
			DISTANCE FROM RWY:			ELEV GP ANTENNA:					
			THRESHOLD CROSSING HEIGHT:								
FINAL APPROACH						RUNWAY THRESHOLD			FT. FROM THRESHOLD		
COURSE AIMING						ON CENTERLINE			FT. FROM CENTERLINE		
9. WAIVERS: 1											
ORDER 8260.54A, PARAGRAPH 2.5.1B; MISSED APPROACH DIRECT TO FIX (DF) MINIMUM SEGMENT LENGTH.											
PART D - PREPARED BY: CATHERINE L. CHILDRESS DATE: 07/21/2011 TITLE: AERONAUTICAL INFORMATION SPECIALIST OFFICE: AJV-354											

QUALITY
9
CHECKED