

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		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	ILS: DA LOC: 4.83 MILES AFTER NADOS NDB OR AT ZITGI/I-CH 1.25 DME FIX. CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2100 DIRECT NADOS NDB AND HOLD; OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2400 DIRECT LFK VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE LFK VORTAC, RT, 331.67 INBOUND. CHART FAS OBST: 433 TREE 313328N/0944243W CHART 563 TREE 312925N/0944310W. CHART VDP AT 1.90 DME*; DISTANCE VDP TO THLD 0.95 MILES. *LOC ONLY. CHART LFK R-082 AT BODTA. CHART IN PLANVIEW: LFK VORTAC.													
ARMOR/LFK 28.00 DME	NADOS NDB/I-CH 6.07 DME	171.57 / 8.66	2100														
LFK VORTAC (IAF)	MAFIE/I-CH 13.46 DME (NOPT)	351.86 / 11.99	2200														
BODTA/LFK 12.00 DME CCW (IAF)	MAFIE/I-CH 13.46 DME (NOPT)	12.00 DME ARC (LFK LR-002)	2400														
MAFIE/I-CH 13.46 DME (IF)	NADOS NDB/I-CH 6.07 DME	359.49 / 7.38 (I-CH)	2100														
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD S NADOS NDB, LT, 359.49 INBOUND, 2100 FT. IN LIEU OF PT (IAF) 3. FAC: <u>359.49</u> FAF: <u>NADOS NDB/I-CH 6.07 DME</u> DIST FAF TO MAP: <u>4.83</u> THLD: <u>5.13</u> 4. MIN. ALT: <u>NADOS NDB 2100, CATEB/I-CH 2.61 DME 760*</u> 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>825</u> 6. MIN GS INCPT: <u>2100</u> GS ALT AT: <u>NADOS 2040</u> OM: <u> </u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>53.3</u> 8. MSA FROM: <u>OC NDB 2400</u>				MAG VAR: 5E EPOCH YEAR: 1995													
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A <input type="checkbox"/> X <input type="checkbox"/>													
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		
S-ILS 36	527	1/2	200	527	1/2	200	527	1/2	200	NA							
S-LOC 36	760	1/2	433	760	1/2	433	760	3/4	433	NA							
CIRCLING	860	1	505	860	1	505	860	1 1/2	505	NA							
CATEB FIX MINIMUMS (DME REQUIRED)																	
S-LOC 36	700	1/2	373	700	1/2	373	700	1/2	373	NA							
CIRCLING	860	1	505	860	1	505	860	1 1/2	505	NA							
NOTES: CHART NOTE: ADF REQUIRED. CHART PLANVIEW NOTE: ADF OR DME REQUIRED. *LOC ONLY *820 WHEN USING ANGELINA COUNTY ALTIMETER SETTING. (SEE FORM 8260-10)																	
CITY AND STATE		ELEVATION: 355 THRE: 327		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
NACOGDOCHES, TX		AIRPORT NAME:		A L MANGHAM JR. RGNL		I-CH		ILS OR LOC RWY 36, AMDT 3A 9 JANUARY 2014				AMDT: 3					
												DATED 10/25/2007					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ANGELINA COUNTY ALTIMETER SETTING AND

INCREASE ALL DA/MDA 60 FEET AND INCREASE ALL S-LOC 36 CAT C VISIBILITY 1/4 MILE.

CHART NOTE: VDP NA WHEN USING ANGELINA COUNTY ALTIMETER SETTING.

CHART NOTE: LOCALIZER UNUSABLE INSIDE 0.3 NM FROM THRESHOLD.

CITY AND STATE
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ARINC PACKET - 424-18 - ILS

[illegible][illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KOCHK4FI36	AARMOR	010ARMORK4EA0E	IF							18000		0	NS
SUSAP KOCHK4FI36	AARMOR	020NADOSK4PC0EY	TF						+ 02100			0	NS
SUSAP KOCHK4FI36	AARMOR	030NADOSK4PC0EE AL	HF LFK K4			354701933595T010D			+ 02100			0	NS
SUSAP KOCHK4FI36	ABODTA	010BODTAK4EA0E A	IF LFK K4			08200120	D			18000		0	NS
SUSAP KOCHK4FI36	ABODTA	020MAFIEK4PC0EE BL	AF LFK K4			351801200820	D		+ 02400			0	NS
SUSAP KOCHK4FI36	ALFK	010LFK K4D 0V A	FC LFK K4			0000000035190100D			+ 02200	18000		0	NS
SUSAP KOCHK4FI36	ALFK	020MAFIEK4PC0EE B	CF IOCHK4			1795013535190020PI			+ 02200			0	NS
SUSAP KOCHK4FI36	I	010MAFIEK4PC0E I	IF IOCHK4			17950135	PI	J	022000210018000			0	NS
SUSAP KOCHK4FI36	I	020NADOSK4PC0E F	CF IOCHK4			1795006135900074PI	H	0210002040		-300OCN	K4PN0	NS	
SUSAP KOCHK4FI36	I	030RW36 K4PG0GY M	CF IOCHK4			1795000935900051PI				-300		0	NS
SUSAP KOCHK4FI36	I	040 0 M	CA			3595			+ 01000			0	NS
SUSAP KOCHK4FI36	I	050NADOSK4PC0EY L	DF						+ 02100			0	NS
SUSAP KOCHK4FI36	I	060NADOSK4PC0EE L	HM			3595T010			+ 02100			0	NS

[illegible]

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[illegible]

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ILS STANDARD INSTRUMENT APPROACH PROCEDURE

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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ARMOR	ARMOR	010		IF		FB					
	ARMOR	NADOS	020		TF		FO				AA 02100	
	ARMOR	NADOS	030	IAF	HF	L	FO		359.5()	T01.0	AA 02100	
	BODTA	BODTA	010	IAF	IF		FB					
	BODTA	MAFIE	020		AF	L	FB		082.0()		AA 02400	
	LFK	LFK	010	IAF	FC		FB		351.9()	010.0	AA 02200	
	LFK	MAFIE	020		CF		FB		351.9()	002.0	AA 02200	
		MAFIE	010	FACF	IF		FB				AA 02200	GI 02100
		NADOS	020	FAF	CF		FB		359.0()	007.4	GI 02100	GS 02040
		RW36	030	MAP	CF		FO		359.0()	005.1	AT 00380	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		359.5()		AA 01000	
	NADOS	050		DF	L	FO				AA 02100	
	NADOS	060		HM	L	FO		359.5()	T01.0	AA 02100	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	LFK	N310944.79	W0944300.60	N3109.747	W09443.010
	IOCH (DME)	N313511.53	W0944230.55	N3135.192	W09442.509
	ARMOR	N313747.67	W0944349.13	N3137.795	W09443.819
	BODTA	N311021.49	W0942902.95	N3110.358	W09429.049
	MAFIE	N312144.88	W0944347.37	N3121.748	W09443.790
	NADOS	N312907.61	W0944306.93	N3129.127	W09443.116
	RW36	N313415.31	W0944238.73	N3134.255	W09442.646
	IOCH (LOC)	N313511.17	W0944233.58	N3135.186	W09442.560
	OCN	N312908.00	W0944312.70	N3129.133	W09443.212

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW36	00327	53

CITY AND STATE
NACOGDOCHES, TX

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FACILITY
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ARINC PACKET - 424-18 - LOC

[illegible][illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KOCHK4FL36	AARMOR	010ARMORK4EA0E	IF						18000		0	NS	
SUSAP KOCHK4FL36	AARMOR	020NADOSK4PC0EY	TF					+ 02100			0	NS	
SUSAP KOCHK4FL36	AARMOR	030NADOSK4PC0EE AL	HF LFK K4		354701933595T010D			+ 02100			0	NS	
SUSAP KOCHK4FL36	ABODTA	010BODTAK4EA0E A	IF LFK K4		08200120		D		18000		0	NS	
SUSAP KOCHK4FL36	ABODTA	020MAFIEK4PC0EE BL	AF LFK K4		351801200820		D	+ 02400			0	NS	
SUSAP KOCHK4FL36	ALFK	010LFK K4D 0V A	FC LFK K4		0000000035190100D			+ 02200	18000		0	NS	
SUSAP KOCHK4FL36	ALFK	020MAFIEK4PC0EE B	CF IOCHK4		1795013535190020PI			+ 02200			0	NS	
SUSAP KOCHK4FL36	L	010MAFIEK4PC0E I	IF IOCHK4		17950135		PI	+ 02200	18000		0	NS	
SUSAP KOCHK4FL36	L	020NADOSK4PC0E F	CF IOCHK4		1795006135900074PI			+ 02100		OCN	K4PN0	NS	
SUSAP KOCHK4FL36	L	021CATEBK4PC0E S	CF IOCHK4		1795002635900035PI			+ 00760		-316		0	NS
SUSAP KOCHK4FL36	L	030ZITGIK4PC0EY M	CF IOCHK4		1795001235900014PI			+ 00481		-316		0	NS
SUSAP KOCHK4FL36	L	040	0 M	CA	3595			+ 01000				0	NS
SUSAP KOCHK4FL36	L	050NADOSK4PC0EY L	DF					+ 02100				0	NS
SUSAP KOCHK4FL36	L	060NADOSK4PC0EE L	HM		3595T010			+ 02100				0	NS

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RUNWAY 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KOCHK4GRW36 0050003595 N31341531W094423873+0200 +0072500327000053075IIIOCH1

1 2 3 4 5 6 7 8 9 0 1 2 3
ILS 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KOCHK4IIIOCH1 011150RW36 N31351117W0944233583595N31342376W0944242580661 08250560300E00505300346

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KOCHK4SOCN K4PN 0 18018002425 M

1 2 3 4 5 6 7 8 9 0 1 2 3
NAVAID 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAPNKOCHK4 OCN K4002530H MW N31290800W094431270 E0050 NARNADOS

CITY AND STATE
NACOGDOCHES, TXELEVATION: 355 THRE: 327
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ARMOR		ARMOR	010		IF		FB					
ARMOR		NADOS	020		TF		FO				AA 02100	
ARMOR		NADOS	030	IAF	HF	L	FO		359.5 ()	T01.0	AA 02100	
BODTA		BODTA	010	IAF	IF		FB					
BODTA		MAFIE	020		AF	L	FB		082.0 ()		AA 02400	
LFK		LFK	010	IAF	FC		FB		351.9 ()	010.0	AA 02200	
LFK		MAFIE	020		CF		FB		351.9 ()	002.0	AA 02200	
		MAFIE	010	FACF	IF		FB				AA 02200	
		NADOS	020	FAF	CF		FB		359.0 ()	007.4	AA 02100	
		CATEB	021	SDF	CF		FB		359.0 ()	003.5	AA 00760	
		ZITGI	030	MAP	CF		FO		359.0 ()	001.4	AT 00481	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		359.5 ()		AA 01000	
	NADOS	050		DF	L	FO				AA 02100	
	NADOS	060		HM	L	FO		359.5 ()	T01.0	AA 02100	

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	LFK	N310944.79	W0944300.60	N3109.747	W09443.010
	IOCH (DME)	N313511.53	W0944230.55	N3135.192	W09442.509
	ARMOR	N313747.67	W0944349.13	N3137.795	W09443.819
	BODTA	N311021.49	W0942902.95	N3110.358	W09429.049
	CATEB	N313235.31	W0944247.87	N3132.589	W09442.798
	MAFIE	N312144.88	W0944347.37	N3121.748	W09443.790
	NADOS	N312907.61	W0944306.93	N3129.127	W09443.116
	ZITGI	N313356.84	W0944240.40	N3133.947	W09442.673
	RW36	N313415.31	W0944238.73	N3134.255	W09442.646
	IOCH (LOC)	N313511.17	W0944233.58	N3135.186	W09442.560
	OCN	N312908.00	W0944312.70	N3129.133	W09443.212

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW36	00327		53

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