03/07/2025

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE

GRAPHIC DEPARTURE PROCEDURES (DP)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL Altitudes are minimum altitudes unless otherwise indicated

DP NAI				Sennigs are in reet abo	ve alipoit eleva	NUMBER	DP COMPUTER CODE		DATED	ACTUAL EFFECTIVE DATE
NANDR						THREE	NANDR3.NANDR	TWO	04/20/2023	17 APR 2025
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	DNAV					
<u></u>					RNAV					
50F:	TE DESCRIPTIO	<u>UN:</u>								
TAKEO	FRWY 17: CLI	MB ON HEADIN	NG 165.44 OR	AS ASSIGNED	BY ATC, TH	IENCE				
KADS:										
				AS ASSIGNED	,					
	1 1001 04. OLI			AO AOOIONED	STAIO, II					
KAFW:	F RWY 16I · CI	IMB ON HEAD	ING 166 21 O	R AS ASSIGNED	BY ATC T	HENCE				
TAKEO	FF RWY 16R: CL	LIMB ON HEAD	ING 166.21 T	O 1100 BEFORE	TURNING	RIGHT OR AS	ASSIGNED BY ATC, THENCE			
				R AS ASSIGNED R AS ASSIGNED	,					
KCPT: TAKEO	FRWY 15: CUI	MB ON HEADIN	NG 153 20 OR	AS ASSIGNED		IENCE				
				AS ASSIGNED						
KDTO:										
				R AS ASSIGNED	,					
				R AS ASSIGNED R AS ASSIGNED	,					
				R AS ASSIGNED						
F46:										
				AS ASSIGNED						
TAKEO	-F RWY 35: CLI	MB ON HEADIN	NG 347.45 OR	AS ASSIGNED	BY AIC, IF	IENCE				
KFTW:								TUENCE		
							E OR AS ASSIGNED BY ATC, E OR AS ASSIGNED BY ATC,			
				AS ASSIGNED	,					
TAKEU	FRVVY 35: CLI		NG 343.90 OR	AS ASSIGNED	BY AIC, IF	IENCE				
KFWS:			INC 177 11 T				ASSIGNED BY ATC. THENCE			
				R AS ASSIGNED			ASSIGNED BY ATC, THENCE			
KGKY:										
							SIGNED BY ATC, THENCE OUND OR AS ASSIGNED BY A			
	1 1. WY 1 34. OLI		10 042.02 10		011111100	OUTHEAST BU	JUND OIL AS ASSIGNED DI A	TO, THENCE		
KGPM:	F RWY 18: CUI						E OR AS ASSIGNED BY ATC,	THENCE		OVAL /7_
							OR AS ASSIGNED BY ATC, TH			20 Syseculo

DPL ANAME NUMBER DE COMPUTER CODE BURGESDED NUMBER DATED ACTUAL EFFECTIVE DATE NANDR TWO 04/30/2023 17 APP 2025 KIG2: TAKEOFT RWY 18: CLIME ON HEADING 177.88 OR AS ASSIGNED BY ATC, THENCE TAKEOFT RWY 18: CLIME ON HEADING 314.31 OR AS ASSIGNED BY ATC, THENCE TAKEOFT RWY 18: CLIME ON HEADING 314.31 TO 1000 BEFORE TURNING LEFT OR AS ASSIGNED BY ATC, THENCE THENCE TAKEOFT RWY 18: CLIME ON HEADING 194.31 OR AS ASSIGNED BY ATC, THENCE TAKEOFT RWY 18: CLIME ON HEADING 194.31 TO 1000 BEFORE TURNING LEFT OR AS ASSIGNED BY ATC, THENCE THENCE THENCE TAKEOFT RWY 18: CLIME ON HEADING 194.31 TO 1000 BEFORE TURNING LEFT OR AS ASSIGNED BY ATC, THENCE THENCE THENCE TAKEOFT RWY 18: CLIME ON HEADING 194.30 TO 700 BEFORE TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE THENCE THEADING TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE TAKEOFT RWY 18: CLIME ON HEADING 176: 10 7000 BEFORE TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE THEADING TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE THEADING TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE TAKEOFT RWY 18: CLIME ON HEADING 176: 10 7000 BEFORE TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE THEADING TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE TAKEOFT RWY 18: CLIME ON HEADING 170: 10 700 BEFORE TURNING WESTEDUND OR AS ASSIGNED BY A	NO. 04-	+			00/01/2020					50
CARCOPT RWY 18: CLIMB ON HEADING 17:80 ON ASSIGNED BY ATC, THENCE CARCOPT RWY 31: CLIMB ON HEADING 31:31 OR AS ASSIGNED BY ATC, THENCE CARCOPT RWY 31: CLIMB ON HEADING 31:31 OR AS ASSIGNED BY ATC, THENCE CARCOPT RWY 31: CLIMB ON HEADING 31:31 OR AS ASSIGNED BY ATC, THENCE CARCOPT RWY 31: CLIMB ON HEADING 18:45 TO 1700 BEFORE TURNING LEFT OR AS ASSIGNED BY ATC, THENCE KUD: TARCOPT RWY 32: CLIMB ON HEADING 17:6 35 OR AS ASSIGNED BY ATC, THENCE KMPRI: TARCOPT RWY 32: CLIMB ON HEADING 12:08 OF AS ASSIGNED BY ATC, THENCE KMPRI: TARCOPT RWY 32: CLIMB ON HEADING 12:08 OF AS ASSIGNED BY ATC, THENCE KMRD: TARCOPT RWY 32: CLIMB ON HEADING 12:08 OF ABORT UNNING WESTBOLIND OR AS ASSIGNED BY ATC, THENCE TARCOPT RWY 33: CLIMB ON HEADING 30:08 OF 100 BEFORE TURNING SOUTHOUND OR AS ASSIGNED BY ATC, THENCE TARCOPT RWY 33: CLIMB ON HEADING 30:08 OF 100 BEFORE TURNING SOUTHOUND OR AS ASSIGNED BY ATC, THENCE TARCOPT RWY 33: CLIMB ON HEADING 30:08 OF 100 BEFORE TURNING SOUTHOUND OR AS ASSIGNED BY ATC, THENCE TARCOPT RWY 33: CLIMB ON HEADING 30:08 OF 100 BEFORE TURNING SOUTHOUND OR AS ASSIGNED BY ATC, THENCE TARCOPT RWY 35: CLIMB ON HEADING 30:08 OF 100 BEFORE TURNING SOUTHOUND OR AS ASSIGNED BY ATC, THENCE TARCOPT RWY 35: CLIMB ON HEADING 30:08 OF ASSIGNED BY ATC, THENCE TARCOPT										
TARGOFF RWY 13: CUMB ON HEADING 134 31 TO BOB BEFORE TURNING LET OR AS ASSIGNED BY ATC, THENCE KLUD: TARGOFF RWY 17: CUMB ON HEADING 169,45 TO 1709 BEFORE TURNING LET OR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 18: CUMB ON HEADING 169,45 TO 1709 BEFORE TURNING VESTBOLING OR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 18: CUMB ON HEADING 170,30 CR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 18: CUMB ON HEADING 170,30 CR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 18: CUMB ON HEADING 170,30 CR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 19: CUMB ON HEADING 170,30 CR AS ASSIGNED DY ATC, THENCE TARGOFF RWY 19: CUMB ON HEADING 170,30 CR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 19: CUMB ON HEADING 170,30 CR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 38: CUMB ON HEADING 30,40 TO 1000 BEFORE TURNING WESTBOLIND OR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 38: CUMB ON HEADING 30,40 TO 1000 BEFORE TURNING SOUTHEDUND OR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 38: CUMB ON HEADING 359,21 TO 1000 BEFORE TURNING SOUTHEDUND OR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 38: CUMB ON HEADING 359,21 TO 1000 BEFORE TURNING LEFT, THENCE TARGOFF RWY 38: CUMB ON HEADING 359,21 TO 1000 BEFORE TURNING SOUTHEDUND OR AS ASSIGNED BY ATC, THENCE TARGOFF RWY 38: CUMB ON HEADING 359,21 TO 1000 BEFORE TURNING LEFT, THENCE TARGOFF RWY 38: CUMB ON HEADING 359,21 TO 1000 BEFORE TURNING LEFT, THENCE TARGOFF RWY 38: CUMB ON HEADING 359,20 TO 700, THENCE	TAKEOFF RWY 18: CLI									
TAKEOFF RWY 17: CLIMB ON HEADING 169.45 TO 1700 BEFORE PROCEEDING NORTH, THENCE KNPW: TAKEOFF RWY 18: CLIMB ON HEADING 178.53 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 129.08 TO 1800 BEFORE TURNING WESTBOUND OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 129.08 TO 1800 BEFORE TURNING WESTBOUND OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 129.08 TO 1800 BEFORE TURNING WESTBOUND OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 129.08 TO 1800 BEFORE TURNING WESTBOUND OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 129.12 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 179.12 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 175.38 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 176.08 AS OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 176.08 AS OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 176.07 ON DR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 176.08 AS OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 176.08 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 176.08 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 358.410 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 358.40 OR AS ASSIGNED BY ATC, THENCE	TAKEOFF RWY 13: CLI				SIGNED BY ATC, THENCE					
TAKEOPF RWY 18: CLIMB ON HEADING 776 53 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 716 53 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 18: CLIMB ON HEADING 72 88 TO 1800 BEFORE TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 18: CLIMB ON HEADING 72 88 TO 1800 BEFORE TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 18: CLIMB ON HEADING 72 80 TO 1800 BEFORE TURNING WESTEDUND OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 717 12 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 179.12 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 179.12 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 179.12 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 175.28 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 175.28 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 175.28 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 175.28 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 175.28 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 175.28 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 175.28 OT AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 175.88 OR AS ASSIGNED BY ATC, THENCE TAKEOPF RWY 38: CLIMB ON HEADING 175.88 OR AS ASSIGNED BY ATC, THENCE		IMB ON HEADING 169.45 T(O 1700 BEFORE PROCEEDI	NG NORTH, TH	ENCE					
TAKEOFF RWY 13: CLIMB ON HEADING 129.08 DF OKE TURNING WESTBOUND OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 334.13 TO 2000 BEFORE TURNING SUTHBOUND OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 334.13 TO 2000 BEFORE TURNING SOUTHBOUND OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 334.13 TO 2000 BEFORE TURNING SOUTHBOUND OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 179.12 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 175.33 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 175.33 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 175.33 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 198.44 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 198.43 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 198.44 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 198.43 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 197.98 TO 1700, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 197.98 TO 1700, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 197.98 TO 1700, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 177.98 TO 1700, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 197.98 TO 1700, THENCE TAKEOFF RWY 33: CLIMB ON HEADING 177.98 TO 1700, THENCE <td< td=""><td>TAKEOFF RWY 18: CLI</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	TAKEOFF RWY 18: CLI									
TAKEOFF RWY 18: CLIMB ON HEADING 179.12 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 36: CLIMB ON HEADING 359.11 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 36: CLIMB ON HEADING 175.38 OR AS ASSIGNED BY ATC, THENCE F41: TAKEOFF RWY 18: CLIMB ON HEADING 175.38 OR AS ASSIGNED BY ATC, THENCE F41: TAKEOFF RWY 18: CLIMB ON HEADING 358.49 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 338.49 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 338.49 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 338.49 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 338.49 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 338.49 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 338.49 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 338.49 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 18: CLIMB ON HEADING 372.88 TO 2700, THENCE TAKEOFF RWY 36: CLIMB ON HEADING 172.98 TO 2700, THENCE TAKEOFF RWY 36: CLIMB ON HEADING 373.40 OR ABOVE 3000, THEN ON TRACK 357.12 TO CROSS NANDR AT OR BELOW 13000, THEN ON ASSIGNED BY ATC, THENCE TAREOFT RWY 36: CLIMB ON HEADING 373.40 OR ABOVE 3000, THEN ON TRACK 357.12 TO CROSS NANDR AT OR BELOW 13000, THEN ON ASSIGNED BY ATC, THENCE TAREOFT RWY 36: CLIMB ON HEADING 373.40 OR ABOVE 3000, THEN ON TRACK 357.12 TO CROSS NANDR AT OR	TAKEOFF RWY 13: CLI TAKEOFF RWY 17: CLI TAKEOFF RWY 31: CLI	IMB ON HEADING 174.13 TO IMB ON HEADING 309.09 TO	O 2600 BEFORE TURNING W O 1500 BEFORE TURNING S	VESTBOUND OI	R AS ASSIGNED BY ATC, TH OR AS ASSIGNED BY ATC, T	IENCE HENCE				
TAKEOFF RWY 13: CLIMB ON HEADING 175:38 OR AS ASSIGNED BY ATC, THENCE F41: TAKEOFF RWY 13: CLIMB ON HEADING 158:48 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 158:48 OR AS ASSIGNED BY ATC, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 177:98 TO 1700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 177:98 TO 1700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 177:98 TO 1700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 13: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 14: CLIMB ON HEADING 12:98 TO 2700, THENCE TAKEOFF RWY 15: CLIMB ON HEADING 17:98 TO 1700, THENCE TAKEOFF RWY 15: CLIMB ON HEADING 17:98 TO 1700, THENCE TAKEOFF RWY 15: CLIMB TO ROUTES (GRAPHIC DEPICTION ONLY): TARISTION ROUTES (GRAPHIC DEPICTION ONLY): TARISTION NAME <u>TRANSITION FINITANA TRANDA TRACK 038.90</u> 16.35 5000 2100 NANDR AT/BELOW 13000 TO TAKUNA TIKYS TRACK 025.19 41.90 5000 3800 TO TIKYS MLC TACAN TRACK 031.08 56.73 5000 2500 WILL ROGERS NANDR3.IRW NANDR BLECO TRACK 341.24 12.64 5000 2700 NANDR AT/BELOW 13000	TAKEOFF RWY 18: CLI									
TAKEOFF RWY 18: CLIMB ON HEADING 158.48 OR AS ASSIGNED BY ATC, THENCE KJWY: TAKEOFF RWY 34: CLIMB ON HEADING 177.98 TO 1700, THENCE TAKEOFF RWY 36: CLIMB ON HEADING 012.98 TO 2700, THENCE TAKEOFF RWY 36: CLIMB ON HEADING 012.98 TO 2700, THENCE TAKEOFF RWY 36: CLIMB ON HEADING 012.98 TO 2700, THENCE TAKEOFF RWY 36: CLIMB ON HEADING 012.98 TO 2700, THENCE TAKEOFF RWY 36: CLIMB ON HEADING 012.98 TO 2700, THENCE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY): TRANSITION NAME TRANSITION ONLY: TRANSITION NAME FROM COMPUTER CODE FROM FIX/NAVAID TO COURSE DISTANCE MEA MOCA ALITITUDE/FIXES MC ALESTER NANDR3.MLC NANDR AKUNA TRACK 031.08 56.73 5000 2100 NANDR AT/BELOW 13000 MC ALESTER NANDR3.IRW NANDR BLECO TRACK 031.08 56.73 5000 2500 WILL ROGERS NANDR3.IRW NANDR BLECO TRACK 341.24 12.64 5000 2700 NANDR AT/BELOW 13000	TAKEOFF RWY 17: CLI									
TAKEOFF RWY 18: CLIMB ON HEADING 177.98 TO 1700, THENCE TAKEOFF RWY 38: CLIMB ON HEADING 012.98 TO 2700, THENCE ALL AIRPORTS: EXPECT RADAR VECTORS TO CROSS CUZNO AT OR ABOVE 3000, THEN ON TRACK 357.12 TO CROSS NANDR AT OR BELOW 13000, THEN ON ASSIGNED TRANSITION. TRANSITION ROUTES (GRAPHIC DEPICTION ONLY): TRANSITION NAME TRANSITION COMPUTER CODE FROM FIX/NAVAID TO FIX/NAVAID COURSE DISTANCE MEA MOCA CROSSING ALTITUDE/FIXES MC ALESTER NANDR3.MLC NANDR AKUNA TRACK 038.90 16.35 5000 2100 NANDR AT/BELOW 13000 TIKYS MLC TACAN TRACK 031.08 56.73 5000 2500 NANDR AT/BELOW 13000 WILL ROGERS NANDR3.IRW NANDR BLECO TRACK 341.24 12.64 5000 2700 NANDR AT/BELOW 13000	TAKEOFF RWY 16: CLI									
EXPECT RADAR VECTORS TO CROSS CUZNO AT OR ABOVE 3000, THEN ON TRACK 357.12 TO CROSS NANDR AT OR BELOW 13000, THEN ON ASSIGNED TRANSITION. TRANSITION ROUTES (GRAPHIC DEPICTION ONLY): TRANSITION NAME IRANSITION COMPUTER CODE FROM FIX/NAVAID IO OURSE DISTANCE MEA MOCA CROSSING ALTITUDE/FIXES MC ALESTER NANDR3.MLC NANDR AKUNA TRACK 038.90 16.35 5000 2100 NANDR AT/BELOW 13000 Image: Transition Name NANDR3.MLC NANDR AKUNA TRACK 038.90 16.35 5000 2100 NANDR AT/BELOW 13000 Image: Transition Name NANDR3.MLC NANDR BLECO TRACK 031.08 56.73 5000 2500 2500 Image: Transition Name NANDR3.IRW NANDR BLECO TRACK 341.24 12.64 5000 2700 NANDR AT/BELOW 13000	TAKEOFF RWY 18: CLI									
TRANSITION NAME TRANSITION ONE TI- TRANSITION NAME FROM FIX/NAVAID FROM FIX/NAVAID COURSE DISTANCE MEA MOCA CROSSING ALTITUDE/FIXES MC ALESTER NANDR3.MLC NANDR AKUNA TRACK 038.90 16.35 5000 2100 NANDR AT/BELOW 13000 AKUNA TIKYS MLC TACAN TRACK 031.08 56.73 5000 2500 2500 WILL ROGERS NANDR3.IRW NANDR BLECO TRACK 341.24 12.64 5000 2700 NANDR AT/BELOW 13000	EXPECT RADAR VE			I ON TRACK 35	7.12 TO CROSS NANDR AT (OR BELOW 13000,	THEN ON ASSIC	GNED TRA	NSITION.	20
IRANSITION NAMECOMPUTER CODEFIX/NAVAIDFIX/NAVAIDCOURSEDISTANCEMEAMIOCAALTITUDE/FIXESMC ALESTERNANDR3.MLCNANDRAKUNATRACK 038.9016.3550002100NANDR AT/BELOW 13000AKUNATIKYSTRACK 025.1941.9050003800TIKYSMLC TACANTRACK 031.0856.7350002500WILL ROGERSNANDR3.IRWNANDRBLECOTRACK 341.2412.6450002700NANDR AT/BELOW 13000		•			то					
MC ALESTER NANDR3.MEC NANDR AKUNA TRACK 038.90 16.35 5000 2100 13000 </td <td>TRANSITION NAME</td> <td></td> <td></td> <td></td> <td></td> <td>COURSE</td> <td>DISTANCE</td> <td>MEA</td> <td>MOCA</td> <td>ALTITUDE/FIXES</td>	TRANSITION NAME					COURSE	DISTANCE	MEA	MOCA	ALTITUDE/FIXES
TIKYS MLC TACAN TRACK 031.08 56.73 5000 2500 WILL ROGERS NANDR3.IRW NANDR BLECO TRACK 341.24 12.64 5000 2700 NANDR AT/BELOW 13000	MC ALESTER	NANDR3.MLC	NANDR	AI	KUNA T	RACK 038.90	16.35	5000	2100	
WILL ROGERS NANDR3.IRW NANDR BLECO TRACK 341.24 12.64 5000 2700 NANDR AT/BELOW			AKUNA	Т	TIKYS T	RACK 025.19	41.90	5000	3800	
WILL ROGERS NANDRS.IRW NANDR BLECO TRACK 341.24 12.64 5000 2700 13000			TIKYS	MLC	TACAN T	RACK 031.08	56.73	5000	2500	
	WILL ROGERS	NANDR3.IRW	NANDR	BI	LECO T	RACK 341.24	12.64	5000	2700	
				F 1-	etropia Varaion					

03/07/2025

NO. 044

56

	NO. 044			03/07/2025					57
DP NAME NANDR			NUMBER THREE	DP COMPUTER CODE NANDR3.NANDR	SUPERSEDED TWO	<u>NUMBER</u>	DATE 04/20/2		ACTUAL EFFECTIVE DATE 17 APR 2025
		BLECO	ZEM	IMA	TRACK 003.04	56.20	5000	2500	
		ZEMMA	IRW VC	DRTAC	TRACK 329.54	65.91	5000	2600	
OKMULGEE	NANDR3.0KM	NANDR	GRA	ABE	TRACK 015.03	12.84	5000	2100	NANDR AT/BELOW 13000
		GRABE	EAK	KER	TRACK 015.12	54.60	5000	3700	
		EAKER	OKM VC	DR/DME	TRACK 021.06	90.40	5000	2400	
ROLLS	NANDR3.ROLLS	NANDR	LOW	/GN	TRACK 316.22	16.08	5000	2200	NANDR AT/BELOW 13000
		LOWGN	ADM V	ORTAC	TRACK 002.09	45.75	5000	2600	
		ADM VORTAC	MRM	/AC	TRACK 306.22	60.00	5000	2700	
		MRMAC	ROI	LLS	TRACK 305.69	85.20	5000	3400	
TULSA	NANDR3.TUL	NANDR	BLE	CO	TRACK 341.24	12.64	5000	2700	NANDR AT/BELOW 13000
		BLECO	ZEM	IMA	TRACK 003.04	56.20	5000	2500	
		ZEMMA	TUL VC	DRTAC	TRACK 025.19	123.58	5000	2600	
EAKER	NANDR3.EAKER	NANDR	GRA	ABE	TRACK 015.03	12.84	5000	2100	NANDR AT/BELOW 13000
		GRABE	EAK	KER	TRACK 015.12	54.60	5000	3700	
ZEMMA	NANDR3.ZEMMA	NANDR	BLE	CO	TRACK 341.24	12.64	5000	2700	NANDR AT/BELOW 13000
		BLECO	ZEN	IMA	TRACK 003.04	56.20	5000	2500	

PROCEDURAL DATA NOTES:

NOTE: EAKER TRANSITION: FOR TUL TERMINAL ARRIVALS ONLY NOTE: TULSA TRANSITION: FOR ALL AIRCRAFT OVERFLYING TUL VORTAC NOTE: AIRCRAFT ARRIVING TO THE OKLAHOMA CITY TERMINAL AREA, FILE AND EXPECT THE ZEMMA ENROUTE TRANSITION.

PBN REQUIREMENTS NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

TAKEOFF MINIMUMS:

50F: RWY 17: 300-2 OR STANDARD WITH MINIMUM CLIMB OF 512 FT/NM TO 1300.

NO. 044		03/07/2025			58
DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
NANDR	THREE	NANDR3.NANDR	TWO	04/20/2023	17 APR 2025
KADS: RWY 34: STANDARD RWY 16: 400-2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 325 FT/NM TO 110	00.				
KAFW: RWY 34L, 34R: STANDARD RWY 16L, 16R: 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TAKEOFF MUST OCCUR NO LATER THAN 1900 FEET PRIOR TO DER.	TO 1100, OR /	ALTERNATIVELY WITH STAN	DARD TAKEOFF MINIMUMS AN	ID A NORMAL 200 F	T/NM CLIMB GRADIENT,
KCPT: RWY 15: STANDARD RWY 33: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 422 FT/NM TO 120	00.				
KDTO: RWY 18L, 18R, 36L, 36R: STANDARD					
F46: RWY 15, 33: STANDARD					
KFTW: RWY 16, 17: STANDARD RWY 34: 300-2 OR STANDARD WITH MINIMUM CLIMB OF 225 FT/NM TO 1100, 4 MUST OCCUR NO LATER THAN 2000 FT PRIOR TO DER. RWY 35: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 210 FT/NM TO 900 MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.					
KFWS: RWY 18L, 36R: NA - ENVIRONMENTAL RWY 18R, 36L: STANDARD					
KGKY: RWY 16, 34: STANDARD					
KGPM: RWY 18, 36: STANDARD					
KHQZ: RWY 18, 36: STANDARD					
KLNC: RWY 13: STANDARD RWY 31: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 205 FT/NM TO 800 MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.	0, OR ALTERN	IATIVELY, WITH STANDARD 1	TAKEOFF MINIMUMS AND A NO	DRMAL 200 FT/NM C	CLIMB GRADIENT, TAKEOFF
KLUD: RWY 17: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 248 FT/NM TO 250	00.				
KNFW: REFER TO APPROPRIATE MILITARY SERVICE DIRECTIVES.					
KRBD: RWY 13, 31, 35: STANDARD RWY 17: 400-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 120	00				0 ^{NAL17} 2 20 94 _{ECK} E

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KTKI:

RWY 18, 36: STANDARD

KWEA: RWY 17, 35: STANDARD

KJWY: RWYS 18, 36: STANDARD

F41: RWY 16. 34: STANDARD

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES: 50F

RWY 17: 1011 FT MSL TREES 323407.39N/0973524.72W (CLIMB GRADIENT/CLIMB-TO ALTITUDE). 1123 FT MSL TRANSMISSION TOWER 323306.16N/0973536.73W (CEILNG). 1092 TRANSMISSION TOWER 323258.36N/0973539.81W (VISIBILITY) OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 17: 1275 FT MSL TOWER 323156.00N/0973623.00W.

KADS:

RWY 16: 850 FT MSL BUILDING 325629.00N/0964925.00W (CLIMB GRADIENT), 975 FT MSL BUILDING 325540.81N/0964919.57W (CLIMB-TO-ALTITUDE/CEILING), 973 FT MSL BUILDING 325536.93N/0964906.47W (VISIBILITY).

KAFW:

RWY 16L: 961 FT MSL WATER TOWER 325641.35N/0971909.88W (CLIMB GRADIENT/CLIMB-TO ALTITUDE/CEILING), 954 FT MSL TANK 325642.21N/0971909.98W (VISIBILITY). RWY 16R: 961 FT MSL WATER TOWER 325641.35N/0971909.88W. OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 16R: 1002 FT MSL TOWER 325653.00N/0971932.00W.

KCPT:

RWY 33: 1043 FT MSL WELL DRILLING RIG 322243.27N/0972649.63W.

KFTW:

RWY 34: 970 FT MSL BUILDING 325123.18N/0972128.11W. RWY 35: 826 FT MSL TRANSMISSION TOWER 325026.78N/0972232.32W. OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 16: 1196 FT MSL BUILDING 324522.00N/0971950.00W, 1743 FT MSL TOWER 324501.00N/0971608.00W; RWY 17: 1743 FT MSL TOWER 324501.00N/0971608.00W.

KFWS:

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 18R: 1772 FT MSL TOWER 323212.00N/0972446.86W.

KGKY:

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 16, 34: 2549 FT MSL TOWER 323502.67N/0965748.75W.

KGPM:

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 18, 36: 2549 FT MSL TOWER 323502.67N/0965748.75W.

KLNC:

RWY 31: 661 FT MSL TRANSMISSION LINE 323601.76N/0964358.15W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 31: 2549 FT MSL TOWER 323502.67N/0965748.75W.

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DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
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KLUD:

RWY 17: 2859 FT MSL TOWER 332312.00N/0973358.00W (CLIMB GRADIENT TERMINATION ALTITUDE), 1199 FT MSL TREE 331359.97N/0973413.66W (VISIBILITY), 1209 FT MSL TREE 331402.68N/0973415.79W (CLIMB GRADIENT) (CEILING). OBSTACLES MANDATING ODP ROUTE DEVELOPMENT : RWY 17: 2859 FT MSL TOWER 332312.00N/0973358.00W.

KRBD:

RWY 17: 1024 FT MSL ANTENNA 323817.76N/0965154.08W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 13, 17, 31, 35 - 2549 FT MSL TOWER 32352.67N/0965748.75W.

KWEA:

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT RWY 35: 1420 FT MSL TOWER 324648.40N/0974155.16W.

KJWY

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 18: 2449 FT MSL TOWER 323235.00N/0965733.00W. RWY 36: 2549 FT MSL TOWER 323502.67N/0965748.75W.

MSA:

MSA FROM 50F, 3600. MSA FROM KADS, 3600. MSA FROM KAFW, 4000. MSA FROM KCPT, 3600. MSA FROM KDTO, 4000. MSA FROM F46, 2600. MSA FROM KFTW, 3600. MSA FROM KFWS, 3600. MSA FROM KGKY, 3600. MSA FROM KGPM, 3600. MSA FROM KHQZ, 3600. MSA FROM KLNC, 3600. MSA FROM KLUD, 4000. MSA FROM KNFW, 3600. MSA FROM KRBD, 3600. MSA FROM KTKI, 3800. MSA FROM KWEA, 3600. MSA FROM KJWY, 3600 MSA FROM F41, 3600

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

AIRPORT MV: ADS (P) 3E/2025, 50F 6E/2000, AFW 4E/2015, CPT 6E/2000, DTO 4E/2010, F46 5E/2000, FTW 8E/1975, FWS 3E/2025, GKY 6E/2000, GPM 3E/2025, HQZ 3E/2015, LNC 6E/1990, LUD 3E/2025, NFW 4E/2015, RBD 6E/1990, TKI 3E/2015, WEA 5E/2010, JWY 6E/1995, F41 3E/2020. DME/DME ASSESSMENT: SAT (RNP 2.0) ALL AIRPORTS - CHART: TOP ALTITUDE: ASSIGNED BY ATC. CHART: MINIMUM CROSSING ALTITUDE AT CUZNO - 3000

AIRPORTS SERVED:

AIRPORT ID	CITY	<u>STATE</u>
KADS	DALLAS	ТХ

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DP NAME NANDR	NUMBER THREE	DP COMPUTER CODE NANDR3.NANDR	SUPERSEDED NUMBER TWO	DATED 04/20/2023	ACTUAL EFFECTIVE DATE 17 APR 2025
KAFW		FORT WORTH			ТХ
KCPT		CLEBURNE			ТХ
KDTO		DENTON			ТХ
F46		ROCKWALL			ТХ
KFTW		FORT WORTH			ТХ
KFWS		FORT WORTH			ТХ
KGKY		ARLINGTON			ТХ
KGPM		GRAND PRAIRIE			ТХ
KHQZ		MESQUITE			ТХ
KLNC		LANCASTER			ТХ
KLUD		DECATUR			ТХ
KNFW		FORT WORTH			ТХ
KRBD		DALLAS			ТХ
КТКІ		DALLAS			ТХ
KWEA		WEATHERFORD			ТХ
50F		FORT WORTH			ТХ
F41		ENNIS			ТХ
KJWY		MIDLOTHIAN/WAXAHACHIE			ТХ
COMMUNICATIONS: CHART: KADS: ATIS, CLNC DEL, GND CON, ATCT CHART: KAFW: ATIS, CLNC DEL, GND CON, ATCT CHART: KDTO: CLNC DEL, GND CON, ATCT CHART: KFTW: ATIS, CLNC DEL, GND CON, ATCT CHART: KFWS: ATIS, GND CON, ATCT CHART: KGKY: CLNC DEL, GND CON CHART: KGPM: GND CON, ATCT CHART: KNFW: ATIS, GND CON, ATCT CHART: KNFW: ATIS, GND CON, ATCT					



CHART: KRBD: ATIS, CLNC DEL, GND CON, ATCT CHART: KTKI: CLNC DEL, GND CON, ATCT CHART: KJWY: ATIS, CLNC DEL, GND CON

CHART: F41: CLNC DEL, GND CON

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DP NAME NANDR		NUMBER THREE	DP COMPUTER CODE NANDR3.NANDR	SUPERSEDED NUMBER TWO	DATED 04/20/2023	ACTUAL EFFECTIVE DATE 17 APR 2025
FIXES AND/OR NAVAIDS:						
REMARKS: ENVIRONMENTAL REVIEW: COMPLETE NOISE SCREENING: COMPLETE MLC TACAN LOCATION USED ON PROCEI MAXIMUM 100 FT VEGETATION HEIGHT A						
FLIGHT INSPECTED BY				OFFICE	DATE	
JEREMY C LEIGHTON	Digitally signed by			AJF	01/22/2025	
	DAVID DANNER					
DEVELOPED BY	Jan 27, 2025			OFFICE	DATE	
LEO PALMER	Digitally signed by			AJV-A421	10/21/2024	
	LEO PALMER				10/2 //2021	
APPROVED BY	Dec 09, 2024			OFFICE	DATE	TITLE
DAVE DANNER	Digitally signed by			AJV-A421	04/17/2025	MANAGER
DAVE DANNER	DAVID DANNER			AJV-A421	04/17/2025	MANAGER
REQUIRED EFFECTIVE DATE	Jan 27, 2025					
ROUTINE						
COORDINATED WITH:						

OORDINATED WITH

A4A 🔀		HAI	OTHER: ZFW, REGIONAL DEP CON, ADS ATCT, RBD ATCT, TKI ATCT, AFW ATCT, FTW ATCT, FWS ATCT NEW ATCT GPM ATCT AMGR(S)
			ALCE NEW ALCE GPM ALCE AMGR(S)

CHANGES - REASONS:

- DP ROUTE: KLUD CHANGED FROM: TAKEOFF RWY 17: CLIMB ON HEADING 163.45 TO 1700 BEFORE PROCEEDING NORTH, THENCE ... "TO "TAKEOFF RWY 17: CLIMB ON HEADING 169.45 TO 1700 BEFORE PROCEEDING NORTH, THENCE ... " - MAGVAR UPDATED FROM 9E/2000 TO 3E/2025.

- TAKEOFF MINIMUMS: KLUD: RWY 17: STANDARD" TO "RWY 17: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 248 FT/NM TO 2500." - UPDATED ODP EVALUATION.

- CONTROLLING OBS: KLUD: CHANGED FROM "RWY 17: 2859 FT MSL TOWER 332312.00N/0973358.00W." TO "KLUD: RWY 17: 2859 FT MSL TOWER 332312.00N/0973358.00W (CLIMB GRADIENT TERMINATION ALTITUDE), 1199 FT MSL TREE 331359.97N/0973413.66W (VISIBILITY), 1209 FT MSL TREE 331402.68N/0973415.80W (CLIMB GRADIENT) (CEILING). OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 17: 2859 FT MSL TOWER 332312.00N/0973358.00W" - NEW TARGETS EVALUATED ODP.

- KJWY (MID-WAY RGNL) AND F41 (ENNIS) DP ROUTE, TAKEOFF MINIMUMS, CONTROLLING OBS, COMMUNICATIONS, AIRPORT SERVED, MAGVAR IN ADDITIONAL FLIGHT DATA AND MSA'S. - PER ATC, NO ADDITIONAL CHANGES REQUESTED.

NO. 044

03/07/2025

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE

						DEPART	URE (DATA RECORD)			
DP NAME NANDR						NUMBER THREE	DP COMPUTER CODE NANDR3.NANDR	SUPERSEDED NUMBER TWO	DATED 04/20/2023	ACTUAL EFFECTIVE DATE 17 APR 2025
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	LEG TYPE	<u>TC</u>	<u>DIST</u> (NM)	ALTITUDE	SPEED	REMARKS	
CUZNO	330538.50N/0970227.84W	Y	-	IF	-	-	AT/ABOVE 3000			
NANDR	331451.55N/0970226.43W	Y	FB	TF	000.12	9.20	AT/BELOW 13000			
NANDR	331451.55N/0970226.43W	Y	-	IF	-	-	AT/BELOW 13000			
BLECO	332702.70N/0970632.59W	Y	FB	TF	344.24	12.64			NANDR3.IRW	
ZEMMA	342301.81N/0965924.01W	Y	FB	TF	006.04	56.20				
IRW VORTAC	352130.95N/0973633.22W	Y	FB	TF	332.54	65.91				
NANDR	331451.55N/0970226.43W	Y	-	IF	-	-	AT/BELOW 13000		NANDR3.MLC	
AKUNA	332702.48N/0964923.30W	Y	FB	TF	041.90	16.35				
TIKYS	340359.93N/0962533.53W	Y	FB	TF	028.19	41.90				
MLC TACAN	345057.99N/0954656.44W	Y	FB	TF	034.08	56.73				
NANDR	331451.55N/0970226.43W	Y	-	IF	-	-	AT/BELOW 13000		NANDR3.OKM	
GRABE	332705.25N/0965741.50W	Y	FB	TF	018.03	12.84				
EAKER	341902.72N/0963711.52W	Y	FB	TF	018.12	54.60				
OKM VOR/DME	354135.07N/0955157.44W	Y	FB	TF	024.06	90.40				
NANDR	331451.55N/0970226.43W	Y	-	IF	-	-	AT/BELOW 13000		NANDR3.ROLLS	3
LOWGN	332702.70N/0971459.29W	Y	FB	TF	319.22	16.08				
ADM VORTAC	341241.71N/0971005.62W	Y	FB	TF	005.09	45.75				
MRMAC	345028.82N/0980634.32W	Y	FB	TF	309.22	60.00				OUAL/72
										20 97ECKE

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DP NAME						NUMBER	DP COMPUTER CODE		DATED	ACTUAL EFFECTIVE DATE
NANDR						THREE	NANDR3.NANDR	TWO	04/20/2023	17 APR 2025
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	<u>LEG</u> TYPE	<u>TC</u>	<u>DIST</u> (NM)	ALTITUDE	SPEED	REMARKS	
ROLLS	354321.88N/0992814.51W	Y	FB	TF	308.69	85.20				
NANDR	331451.55N/0970226.43W	Y	-	IF	-	-	AT/BELOW 13000		NANDR3.TUL	
BLECO	332702.70N/0970632.59W	Y	FB	TF	344.24	12.64				
ZEMMA	342301.81N/0965924.01W	Y	FB	TF	006.04	56.20				
TUL VORTAC	361146.51N/0954717.13W	Y	FB	TF	028.19	123.58				
NANDR	331451.55N/0970226.43W	Y	-	IF	-	-	AT/BELOW 13000		NANDR3.EAKEI	२
GRABE	332705.25N/0965741.50W	Y	FB	TF	018.03	12.84				
EAKER	341902.72N/0963711.52W	Y	FB	TF	018.12	54.60				
NANDR	331451.55N/0970226.43W	Y	-	IF			AT/BELOW 13000		NANDR3.ZEMM	A
BLECO	332702.70N/0970632.59W	Y	FB	TF	344.24	12.64				
ZEMMA	342301.81N/0965924.01W	Y	FB	TF	006.04	56.20				