EAATS Jalalabad CH-47 SFTS Tactical Scenario

1. SITUATION

A Taliban stronghold been reported in the mountain valleys vicinity N34.41.67 E070.36.03 Four CH47 helicopters will transport assault force from Jalalabad to LZ Blue (N34.41.67 E070.36.03). The worst weather during the operation is forecast to be ceiling 6000 BKN and visibility 5 statute miles.

- Enemy Forces: Enemy forces occupy multiple homes in small village just west of LZ Blue. Radar Threat SA4 located N34.30.00 E070.20.00
- b. Friendly Forces: Are located at Jalalabad N34.24.00 E070.29.91
- Weather forecast VMC 8 miles sky clear.
 OAJL: PA 1800, Temp 30, Wind calm, ALT 29.90.
 Primary LZ: PA forecast 4500, Temp 30.

2. MISSION

Transport 10 personnel, 5000 lb. vehicle to LZ Blue. (N34.41.67 E070.36.03).

3. EXECUTION

- a. Commander's Intent: Air movement will avoid enemy contact. Insert team and supplies on objective, engage enemy, pick up team and return to Jalalabad.
- Ground Tactical Plan: Insertion team will continue to engage enemy positions and apprehend or destroy enemy combatants.
- c. Concept of Operation: This is a suspected insurgent leadership strong hold and is a target of opportunity. Ranger element will engage insurgents and capture any personnel and/or intelligence data.
- d. Tasks to maneuver Units: NA
- e. Coordinating Instructions:

Risk reduction and control measures: The air mission commander will include flight routes in air mission FRAGO to provide horizontal separation between CH-47 flight routes. The risk management process will be accomplished at individual unit level and appropriate controls implemented. Hazards assessed as high risk will be elevated to the Commander 1st Brigade for risk decision. If weather falls below 2000-3, the air portion of the operation will be postponed until weather improves and is forecast to remain at or above 2000-3 for the duration of the air operation

4. SERVICE AND SUPPORT

Class I - V at Jalalabad only.

5. COMMAND AND SIGNAL

- a. Command—Overall commander is Commander 1st Brigade __th Infantry Division (Mechanized).
 - 1) Ground force commander is Commander 1st Bn 1028th IN.
 - 2) Air Mission Commander is commander C/4-1028th AVN.
- b. Signal per 1st Brigade SOI.

Instructor Operator Set up Instructions

Open Afghanistan folder, load Jalalabad Formation initial condition set. Open recordings tab and click on playback. The formation will appear in parking. Take of freeze and formation will taxi to the runway, fly to destination, land and return to Jalalabad and park.

Training Objectives:

Dust Takeoff and Landing:

Practice dust take off. Aviator maintains attitude and heading while applying appropriate power to climb out of dust. The use of TRC and P-hold should be encouraged. Neutralize the cyclic prior to raising thrust so TRC is able to stabilize P-hold.

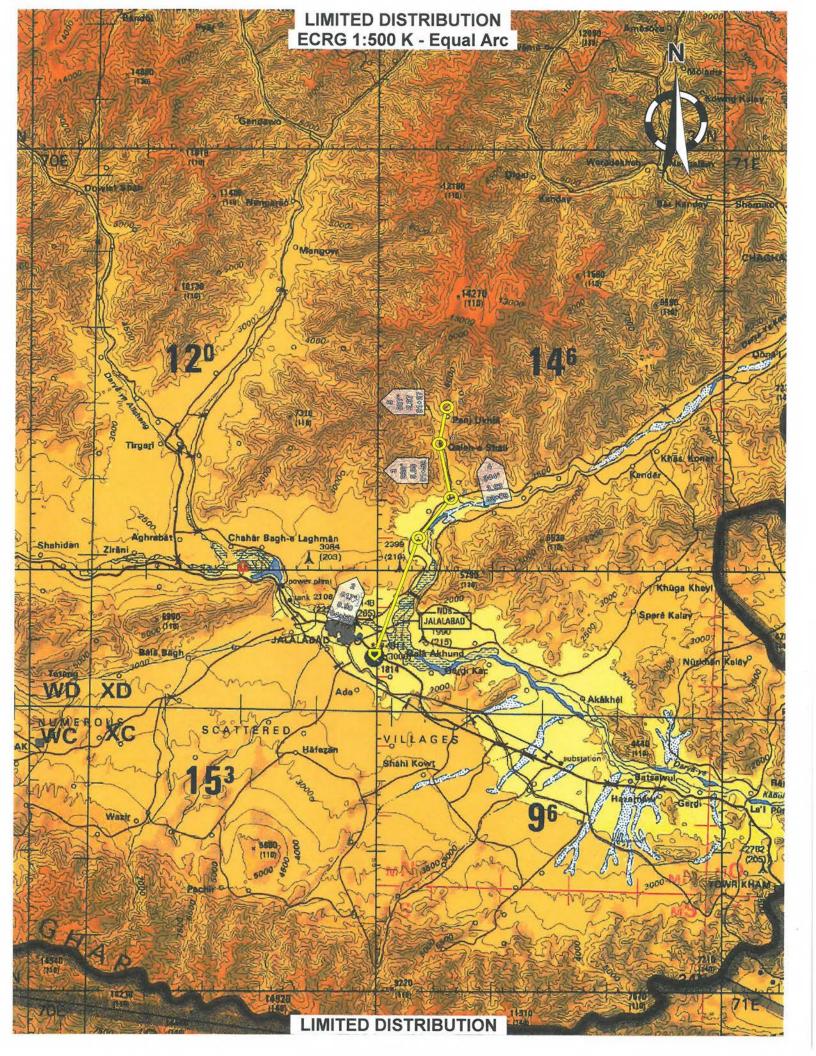
Practice dust landings to surface using HSDH cues, TRC and p-hold. Turn on HSDH, TRC and P-hold during before landing check. Maintain airspeed above ETL on approach (use 30 KIAS) to stay ahead of dust. Establish angle of approach with thrust to the appropriate hover altitude (approx. 25 feet AGL). At hover altitude activate ALT-INT or release thrust brake if already activated. Decelerate using HSDH velocity vector to activate TRC and P-hold (smooth cyclic application is crucial so TRC can take over stabilization). Lower thrust so aircraft contacts the ground. Perform after landing (move cyclic to 1 ½ inches aft to stabilize aft gear).

Inadvertent IMC:

The weather has a ragged broken\scattered layer that varies from 2000 to 12000 feet. Visibility is good from 4 to 5 miles. Use visibility reduction over time achieve IMC condition. (Recommend ½ mile visibility over 5 minutes). Spatial disorientation may occur over the desert with ½ mile visibility due to the lack of horizon and lack of ground texture.

Radar Threat:

Place SA4 10 miles west of route as depicted on map. TIV and route considerations should be considered.



RouteName:C:\Users\Planner\Desktop\Pilot FileDate: 8 MAR 16 NAVDATE: 3 MAR 16

CLEA	RANCE			TAKE-OFF, CLIMB, CRUISE DATA CH-47F (T55-GA-714A) Climb: 1840M Cruise: 109 Wind: Wind: 260/00 Temp: +15C FF: 2027								
FRE	QUENCIES	FOB:		N/C	ROUTE	ROUTE AVG WIND:						
DEP FIELD DATA TOT DIST							TO	r ete	TOT F	TOT FUEL		
INS ChkPt = CHARLESTON 19.2							00-	+10+26	6888	6888		
TP# DTD# KIND ALT	FIX/PT ID DESCRIPTION (ADD PT ID) (DESCRIPTION) INS X-Check	NAV CHAN FREQ	LAT LON VAR		MH MC (MH)	DIST LEG TOT		CAS GS TAS IMN	ETE ETA (DVT FF)	FUEL: LEG USE TOT REM CONT.FU	G	
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TP 2 DTD	.TURN POINT		N 34 3 E070 3		017 018		.9	106 110 109	00+04+51 00:04:51	164 6724		
TURN 1840M	CHS/R 033/644		3.0E 184	0				.17		188)	
TP 3 DTD	.TURN POIN		N 34 3 E070 3		036 036	12.	. 6	106 110 109	00+01+59 00:06:50	67 6657		
TURN 1840M	CHS/R 033/644		3.0E un	k				.17		121 (2019)	
TP 4 DTD	.RELEASE POI		N 34 3 E070 3		344 345	3. 16.	. 9	107 110 110	00+02+09 00:08:59	72 6585		
TURN 1840M	CHS/R 033/643		3.0E un	k				.17		49 (2024)	
TP 5 DTD	.LANDING		N 34 4 E070 3		007 008	2. 19.		107 110 110	00+01+27 00:10:26	49 6536		
TURN 1840M	CHS/R 033/643		3.0E un	k				.17		0 (2020)	

AF FORM 70 (Modified 05/17/2002, INS X-Check added) - CFPS Ver. 4.2

	CH-47 For use of this for				- 7.		-	OC.		
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PRESSURE ALT:	1800		FAT: 30			LOAD: 8000 TAKEOFF GWT: 35108 / 43108				3108
FUEL MANAGEMEN	T									
TIME:	QTY:		PPH:		В	JRNOUT	7:		RSV:	
				DUAL E	NGINE			SINGLE	ENGINE	
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CONTIN		8	4				34			
MAX GWT TO HVR	10 MIN. / SE IG	E/OGE	50000	50000	50000	50000	36704	*33370	*34152	*333
MAX GWT TO	HVR 30 MIN. IG	E/OGE	50000	49264	50000	49264				10
MAX GWT TO	HVR CONT IG	E/OGE	50000	45651	46721	45651		G	45.15	
PREDICTI	ED HVR TQ - IG	E/OGE	52	59	75	78	104	*118*	*150*	*155
	GO / NO	GO TQ	8	7	9	7				
MAX MSN PROFIL	LE GWT / VALID	NOITA	39630	61	39630	67	E I			
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PRESSURE ALT: 5	6000 FAT:	24		DUAL E	NGINE			SINGLE	ENGINE	
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CONTIN	UOUS TORQUE	AVAIL		7	5	76				
	MAX GWT CON	T PWR	482	205	482	205				
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CRUISE 1	TQ (+ DRAG FA	CTOR)	4	5	51		76		*90*	
	CRUISE FUEL	FLOW	22	:38	24	22	1606		1856	
MINIMUI	M SINGLE ENG	INE IAS			Dag B		2	5	5	0
MAXIMUI	M SINGLE ENG	INE IAS	BENI	E H	ALL I		107		9.	2
	MAX GWT S/E	/ SESC			399	904	100	040	59	90
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PRESSURE ALT: 4	1500 FAT:	24	NO L	.OAD	WITH	LOAD	NO L	OAD	WITH	LOAD
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M	AX TQ AVAIL -	30 MIN.		8	8		l bear			90
CONTIN	UOUS TORQUE	AVAIL		7	9			7	9	
MAX GWT TO HVR	10 MIN. / SE IG	E/OGE	49330	49173	49330	49173	33712	*30650	*31368	*306
MAX GWT TO	HVR 30 MIN. IG	E/OGE	49330	45964	47041	45964			The R	
MAX GWT TO	HVR CONT IG	E/OGE	47063	42788	43790	42788	LEDE:		Mag 1	
PREDICTI	ED HVR TQ - IG	E/OGE	50	57	67	69	100	*113*	*133*	*138

			PERFOR	RMANC	E CON	FIGURA	TION			
EAPS:	Installed	IRSS:	Installed	Sk	s: Not	Installed	М	ax Structural (SWT:	50000
			Δ	DDITIC	NAL IN	PUTS				
- 1	INPUT NAME		DEPARTUR	RE	CRU	ISE	-	RRIVAL	A	RRIVAL 2
SE	SC Lapse Rate	/ 1000 ft	N/A	La	pse Temp	perature (-2	2	N/A		N/A
9	Engine High Te	mp Limit	Limit Tempera	iture	Limit Terr	perature	Limit	Temperature	Limit	Temperature
	Hover Height (I	No Load)	10		N/	A		10		80
н	lover Height (W	ith Load)	40		N/	A		40		80
		Heater	N/A		0	ff		N/A		N/A
	Transmiss	ion Limit	Limit Torqu	е	Limit T	orque	Lir	mit Torque	Lir	mit Torque
Ir	nt/Aux/Main Fue		5800		40			4000		6901
	Sling Load	an recommendation	0		C			0		0
	Int/Add Load		8000		52			5250		3000
	ing Load Flat Pl		N/A		0.0			N/A		N/A
	ixed/Add Flat Pl		N/A		8.3			N/A		N/A
	Torque Availab		1.00		1.0			1.00		1.00
	que Available [0		0			0		0
	Torque Require		1.00		1.0			1.00		1.00
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Fuel Flow Increase		N/A	200				N/A N/A			
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		- 20	Cruise GWT			308			38558	
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NOTES:										
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	AME: Arrival 2	36209 /	39209	ARRIV		ATA ENGINE			kmui LE EN	GINE
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74

PREDICTED HVR TQ - IGE/OGE

						LEMAC		
		WEIGHT AND	BALANCE CLEARANCE F	ORM	F - TRANSPORT	MAC		
						Constant	1000	
DATE:	16 Sep 16	MDS:	CH-47F	FRO	M: Departure	STATION:		
MISSION:	737	SERIAL NO):	TO:	Arrival 2	PILOT:		
REMARKS		0		REF		WEIGHT	LON MOM	LAT MOI
	20029			1	Basic Aircraft (From Chart C)	27900	9560.0	
External Pa				2	Corrections	0	0.0	
Consists o	of Sling Load, Rigg	ging, and Hoist L	oad.	3	Crew - Pilot/Co-Pilot	400	30.0	
				4	Crew's Baggage	308	13.3	
Expendabl	les			6	Emergency Equipment	65	2.0	
Consists o	of Ammo (L Door C	Gun, R Door Gur	, and Tail Gun), Chaff, and		Other Equip	35	0.6	
Flares.								
				7				
					TRP CDR	0	0.0	
					CE/GNR RH/LH	400	54.0	
				8	FE	200	94.2	
					Ramp GNR	0		
				9	OPERATING WEIGHT	29308		
				<u> </u>	Main Fuel	3739		
					Aux Fuel	2061	647.2	
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					RAMP WEIGHT	43108		
		LIMITATIONS	12/12/15 2013/07		RAMP CG (Inches)		325.6	
	ht vs Limit (lbs)		43108 <= 50000		TAXI FUEL	. 0		
	ight vs Limit (lbs)		43108 <= 50000		TAKEOFF WEIGHT	43108		
	eight vs Limit (lbs)		39209 <= 50000	20	TAKEOFF CG (Inches)		325.6	
	eight vs Limit (lbs	5)	37308 <= 50000	_	Expendable Fuel at Takeoff	5800		
	wable Load (lbs)		8000 <= 14892		ZERO FUEL WEIGHT	37308		
	Allowable Load (lb		6892		Less Expendables / Loads	-5000	-1245.0	
	LIMITS - LONGIT		FWD CURRENT AFT	23	EST LANDING FUEL	6901	2178.1	
	itudinal CG (Inche		317.7 <= 325.6 <= 337.0	24	EST LANDING WEIGHT	39209	13135.2	
akeoff Lon	gitudinal CG (Inch	nes)	317.7 <= 325.6 <= 337.0	25	EST LANDING CG (Inches)		335.0	
anding Lon	ngitudinal CG (Inc	hes)	314.7 <= 335.0 <= 339.3		SIG	INATURES		
ero Fuel C	G (Inches)		317.7 <= 327.1 <= 337.0	СОМ	PUTED BY SIGNATURE			
С	G LIMITS - LATE	RAL	LT CURRENT RT		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			
Ramp Latera	al CG (Inches)			WEI	SHT AND BALANCE AUTHORITY			
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				PILO	T SIGNATURE			
anding Late	eral CG (Inches)				OIOIVATORE			

JALALABAD (OAJL)

▼IFR TAKE-OFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

Military Airports and Selected Civilian Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in feet MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (military), or the applicable civil volume. Users will recognize graphic ODPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or radar vector as part of the IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specific route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting an IFR clearance.

At some locations where an ODP has been established, a Diverse Vector Area (DVA) may be created to allow radar vectors to be used in lieu of an ODP. DVA information will state that headings will be assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedures.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation, and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

MILITARY USERS: IFR departure procedures not published as graphic Departure Procedures and take-off minima are included below and are established to assist pilots in obstacle avoidance. Refer to appropriate service directives for take-off minimums.

CIVIL USERS: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less-one statute mile. (2) Aircraft having more than two engines-one-half statute mile. These standard minima apply in the absence of any different minima listed below.

AIRPORT NAME TAKE-OFF MINIMUMS

JALALABAD (OAJL) Orig, 16119

Jalalabad, Afghanistan

Diverse departure not authorized.

TAKE-OFF OBSTACLES: Rwy 13: Building 851' from DER, 652' left of centerline, 26' AGL/1840' MSL. Building 275' from DER, 321' left of centerline, 20' AGL/1835' MSL. Building 1814' from DER, 154' right of centerline, 41' AGL/1869' MSL. Building 1701' from DER, 505' right of centerline, 30' AGL/1862' MSL. Building 1670' from DER, 687' right of centerline, 24' AGL/1859' MSL. Building 343' from DER, 181' right of centerline, 19' AGL/1840' MSL. Building 16' from DER, 268' right of centerline, 31' AGL/1847' MSL. Building 7' from DER, 286' right of centerline, 21' AGL/1849' MSL. Building 259' from DER, 240' right of centerline, 18' AGL/1840' MSL. Rwy 31: Tank 79' from DER 403' left of centerline, 25' AGL/1860' MSL. Building 788' from DER, 375' right of centerline, 22' AGL/1853' MSL. Building 219' from DER, 395' right of centerline, 16' AGL/1851' MSL. Tower 999' from DER, 350' left of centerline, 52' AGL/ 1902' MSL. Building 1726' from DER, 581' left of centerline, 17' AGL/ 1862' MSL. Building 68' from DER, 496' right of centerline, 30' AGL/ 1857' MSL. Building 434' from DER, 606' right of centerline, 9' AGL/ 1843' MSL. Pylon 5364' from DER, 1724' right of centerline, 35' AGL/ 1869' MSL. Tank 14' from DER, 401' left of centerline, 25' AGL/1870' MSL. Building 1004' from DER, 498' left of centerline, 22' AGL/1869' MSL. Building

451' from DER, 582' right of centerline, 30' AGL/1862' MSL.

JESOV TWO (RNAV) DEPARTURE

SHL-3211 [USAF]

JALALABAD (OAJL)

JALALABAD, AFGHANISTAN

JALALABAD TOWER 129.7 231.0

Procedure not authorized

when aerostats east of the rwy are aloft.

10.130

Rwy	Knots	60	120	180	240	300	360
13*@	V/V(fpm)	350	700	1050	1400	1750	2100
13† (b)	V/V(fpm)	425	850	1275	1700	2125	2550
31*C	V/V(fpm)	483	966	1449	1932	2415	2898
311@	V/V(fpm)	547	1094	1641	2188	2735	3282

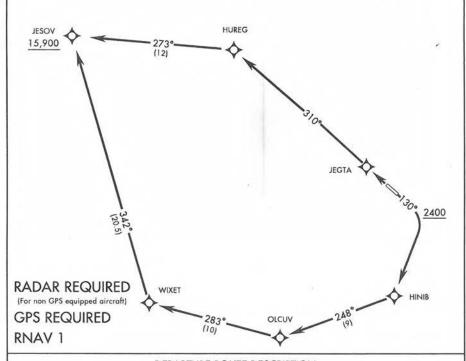
* Minimum Climb Rate † ATC Climb Rate

(a) to 7900

(h) to 15,900

© to 7500

(i) to 15,900



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 13: Climb on heading 130° to 2400, then climbing right turn direct HINIB. Then track 248° to OLCUV, track 283° to WIXET, track 342° to JESOV. Cross JESOV at or above 15,900, thence...

TAKE-OFF RWY 31: Climb direct JEGTA, then track 310° to HUREG, track 273° to JESOV. Cross JESOV at or above 15,900, thence...

... Proceed on course or as directed by ATC.

JESOV TWO (RNAV) DEPARTURE

JALALABAD, AFGHANISTAN JALALABAD (OAJL)



RNAV (GPS) - A

Rwy ldg TDZE APCH CRS N/A (OAJL) 339° AL-3211 [USAF] JALALABAD Arpt Elev 1840 DME/DME RNP-0.3 NA MISSED APPROACH: Climbing left turn to 5500 direct ERDEW and hold Circling to Rwy 31 not authorized at night JALALABAD TOWER 129.7 231.0 2187 A A †CAUTION: Missed Approach Minimum Climb Rate to 5500 60 120 180 240 JEBGU V/V(fpm) 290 580 870 1160 Controlling Obstacle 4010 2276 2109 **OFAZU** PROCEDURE NOT AUTHORIZED WHEN AEROSTAT ALOFT (FAF) COPVA JEBGU 16,000 5 NM 0 (IAF) IFICO 259 5500 (6) 5500 (IAF) 079 HOWGN (IF) ERDEW EMERG SAFE ALT 100 NM 22,700 5500 ∆ 3442 **ELEV** 1840 Rwy 31 ldg 6483 ERDEW **ERDEW** 5500 COPVA **OFAZU** 3390-4000 JEBGU 3000 TWR -1.7 NM --D CATEGORY 3400-2000m 1559 (1600-2000m) 3400-2400m 1559 (1600-2400m) CIRCLING 3400-4800m 1559 (1600-4800m) 339° to ARPT † BELOW MINIMA REQUIRES MISSED APPROACH CLIMB GRADIENT of 290 from 2640-1600m 799 (800-1600m) 2460-1600m 2700-4000m 2920-4800m 1079 (1100-4800m) 619 (700-1600m) CIRCLING (900-4000m)

34°24'N-70°30'E

JALALABAD, AFGHANISTAN

Amdt 1 28APR16 TERPS

JALALABAD RNAV (GPS) - A

(OAJL)

JALALABAD, AFGHANISTAN

Amdt 1 28APR16

TERPS

JALALABAD, AFGHANISTAN RNAV (GPS) RWY 13 Rwy ldg 6687 TDZE 1840 APCH CRS 141° AL-3211 [USAF] Arpt Elev 1840 JALALABAD (OAJL) MISSED APPROACH: Climbing to 5500 direct TOPXO, then track 167° to ERDEW and hold. DME/DME RNP-0.3 NA JALALABAD TOWER 129.7 231.0 † CAUTION: Missed Approach Minimum Climb Rate to 5500 (IF) MAIKE Knots 60 120 180 240 V/V(fpm) 250 500 750 1000 SHAVR -090 8000 Controlling Obstacle 2666 △ 2240 Λ^{2040} ∧²³⁹⁹ PROCEDURE NOT AUTHORIZED WHEN AEROSTAT ALOFT NESAE A 2108 PROCEDURE NOT AUTHORIZED AT NIGHT RW13 TOPXO 3293 • RW13 1990 Λ 5 NM 16,000 0 **ERDEW** EMERG SAFE ALT 100 NM 22,700 5500 MAIKE tt OJELA to Rwy 13. ERDEW ELEV 1840 TDZE 1840 6300 **OJELA** TOPXO 1300 Rwy 31 ldg 6483' NESAE 141° to RW13 4400 1410 **RW13** †† 3.39° <u></u> TCH 40 3080 CATEGORY 3280-2000m 3280-2400m LNAV MDA 1439 1439 3280-5000m 1439 (1500-5000m 3280-2400m 3280-2000m CIRCLING 1439 (1500-2000m) 1439 (1500-2400m 3280-5000m 1439 (1500-5000m TWR † BELOW MINIMA REQUIRES MISSED APPROACH CLIMB GRADIENT OF 250 HAM LNAV MDA 2540-1600m 699 (700-1600m) 2540-3200m 699 (700-3200m) 2640-1600m 799 (800-1600m) 2900-4800m 1059 2540-1600m 2700-4000m CIRCLING 699 859 [700-1600m] (900-4000m) (1100-4800m)

34° 24' N-70° 30'E

JALALABAD

RNAV (GPS) RWY 13

(OAJL)