

MISSION DATA CARD						
OPORD		Callsign		Mission		Date/Time
702/2022		Cougar 1		Training		212000MAR22
Task	NCR - Aerial Refueling					Freq
AO	45MN South OAL124 // ARCO1					261.15
Departure				Recovery		
FYTTR LOW				STRYK		
#	Callsign	Pilot		IFF	TCN	LSR NET
-1	Cougar 1-1	Bane		1021	11Y	1551

LOADOUT			
A/A		GUN	100% HEI
A/G		CHF	140
POD		FLR	60
TKS	2xFT300	FUEL	100%

TOLD					
	Takeoff	Target	Joker	Bingo	Land
FUEL	20206				

AIRBASES								
	Name	TCN	ATIS	GND	TWR	RWY	Elev	ILS
Dep	Nellis AFB	12X	270.1	275.8	327.0	21L	1850	109.1
Arr	Nellis AFB	12X	270.1	275.8	327.0	21L	1850	109.1
Div	Creech AFB	87X	290.45	275.8	360.6			

FLIGHTPLAN				
#	Name	Navaid/Coords/DME	ALT	TOT
1	FYTTR	N36 21 26.400 W115 41 28.200	12000	
2	BTY	N36 48 02.099 W116 44 51.529	15000	
3	Tanker	N37 14 48.911 W117 54 35.166	23000	
4	INS	N36 35 06.004 W115 40 13.202	15000	
5	STRYK	N36 25 37.200 W115 30 42	11000	
6	LSV	N36 14 40.718 W115 01 30.407	15000	

COMMS	
Radio	Usage
1	LSV ATIS (270.1/11) - LSV GND (275.8/3) - LSV TWR (327.0/4) - BLACKJACK (377.8/16) - LSV ATIS (270.1/11) - LSV TWR (327.0/4) - LSV GND (275.8/3)
2	Package

SUPPORT				
Tanker				
Callsign	TCN	Freq	ALT	TAS
ARCO 1	113Y	319.8	FL250	450
	Pos	AR-625: MVA 168/77 (N3717 W11802)		

OTHER FLIGHTS						
Callsign	Mission	Airframe	Freq	TCN	Grpld	Laser
Rattler 5	Training	4x AH-64D	32.0	21/84		156X
	AO	KLSV	Task	Pattern Work		
Tiger 2	Training	4x F/A-18C	261.15	11/74		155X
	AO	45MN South OAL124 // ARCO1	Task	NCR - Aerial Refueling		
Panther 5	Training	4x F/A-18C	261.35	31/94		157X
	AO		Task	HMD Modes A2A		
Lion 1	Training	4x F-16C	134.0	31/94		157X
	AO		Task	HMD Modes A2A		
T-Rex 2	Training	2x A-10C	132.0	27/90	25	165X
	AO		Task	LGB Range 62-B		
Chevy 4	Training	2x A-10C	131.25	21/84		156X
	AO		Task	LGB Range 64-B		
Monster 1	Training	2x A-10C	132.15	25/88	21	161X
	AO		Task	LGB Range 64-A		

RADIO CHANNELS		
#	Freq	Name
1		Flight/Squadron specific
2	289.4	Nellis Clearance Delivery
3	275.8	Nellis Ground
4	327.0	Nellis Tower
5	385.4	Nellis Approach/Departure West
6	273.55	Nellis Approach/Departure East
7	317.525	Nellis Control -- Sally
8	254.4	Nellis Control-- Lee
9	305.6	SOF Bullseye
10	343.725	EMERGENCY SINGLE FRQ
11	270.1	Nellis ATIS
12	360.625	Creech AFB Tower
13	250.1	HAVE QUICK 13
14	251.1	HAVE QUICK 14
15	252.1	HAVE QUICK 15
16	377.8	Blackjack
17	265.0	KC-135 AR-641A
18	360.8	KC-135MPRS AR-635
19	319.8	KC-135MPRS AR-625
20	300.05	KC-135 AR-231V

RAMROD										
0	1	2	3	4	5	6	7	8	9	
O	V	E	R	A	C	T	I	N	G	
KTC 1400 C										
	0	1	2	3	4	5	6	7	8	9
A	BNUI	LQC	GJX	WM	HY	VT	KR	OD	EF	SP
B	WHLD	ABF	SJP	YK	IM	NGX	ET	QR	OV	CU
C	BWKY	FMG	HAN	QU	XS	DEC	PV	JL	OT	IR
D	PKSQ	ECT	MJL	YV	NO	FAX	HI	BG	WD	UR
E	GMDT	ROF	KPS	NE	XH	BAV	YI	LC	UQ	JW
F	USLF	EOV	GTM	QJ	KD	BYC	IX	AR	NP	HW
G	PETO	LSY	DKR	VB	WX	HQI	NC	JA	FU	GM
H	YBFP	ISO	GTR	DL	VW	HKU	CA	QX	JE	MN
I	QWGC	ERI	JXD	VT	HK	NAP	BY	FM	UO	SL
J	BRDO	EWA	KPF	LM	YQ	TSI	JV	GC	HU	NX
K	HYAG	IOQ	LXU	BV	CS	PDR	WK	MN	EF	TJ
L	IVWB	KUG	JLM	HF	OP	SNE	YR	QA	DC	XT
M	OLTF	PMX	JCD	IR	UN	WVY	SE	AB	GQ	KH
N	WAJR	PND	BIX	SK	CQ	YFL	EG	VM	HT	OU
O	GDEL	BYR	VCU	AW	JO	MFI	NT	QX	HS	PK
P	XMPE	QYI	COB	JU	GW	KST	NA	FR	LV	DH
Q	SLRK	OUV	FQM	JW	XE	HPT	AG	YN	CD	IB
R	KYEA	XNG	CJL	BH	IS	RTD	FU	QO	VM	WP
S	QJRC	NGB	MUY	XH	TE	LAI	OW	SD	KF	PV
T	INDJ	GLK	TPS	AR	BY	OCQ	WE	XV	FH	UM
U	YVEO	HDS	TRJ	LW	MX	QUN	PK	AB	GI	FC
V	JIRE	MAS	KXW	OH	DP	TUY	LC	VB	GN	FQ
W	RGCL	BJN	QPE	XI	VO	DFU	HA	WY	TS	KM
X	TUAW	MJS	GRD	FX	PO	CYV	EI	LB	HQ	KN
Y	PEHL	YQD	BWT	GO	NR	XIA	SF	VU	MC	JK

NAVAIDS				
Id	Name	Channel	Position	Elevation
BCE	Bryce Canyon	75	N3741.35 W11218.23	9040
BIH	Bishop	33	N3722.62 W11821.99	4114
BLD	Boulder	114	N3559.75 W11451.82	3650
BTY	Beatty	94	N3648.54 W11644.86	2925
CDC	Cedar City	120	N3747.24 W11304.90	5463
DAG	Daggett	79	N3457.75 W11634.69	1760
EED	Needles	99	N3445.96 W11428.43	650
GFS	Goffs	91	N3507.87 W11510.59	4019
GRL	Groom Lake	18	N3713.91 W11548.16	4475
HEC	Hector	74	N3447.83 W11627.78	1854
ILC	Wilson Creek	110	N3815.02 W11423.65	9318
INS	Creech AFB	87	N3635.20 W11540.12	3101
LAS	McCarran Intl	116	N3604.78 W11509.59	2142
LSV	Nellis	12	N3614.68 W11501.50	1864
MLF	Milford	58	N3821.62 W11300.79	4977
MMM	Mormon Mesa	90	N3646.16 W11416.65	2120
MVA	Mina	98	N3833.92 W11801.97	7860
OAL	Coale Dale	124	N3800.20 W11746.23	4800
PGS	Peach Springs	57	N3537.48 W11332.67	4754
TPH	Tonopah Muni	119	N3801.84 W11702.01	5330
TQQ	Silverbow	77	N3748.00 W11647.00	5500
UTI	St George	23	N3705.29 W11335.53	2871



PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale
	21L	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3"	36° 14.060° N	1857 [ft]	0 300 600 900 1200 1500 [m]
	3R	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3"	115° 01.058° W	566 [m]	0 1000 2000 3000 4000 5000 [ft]
SRA	21R	A C D E	2257 - 1.2 350 (350-1.2/1.6)			
	3L	A C D E	2257 - 1.2 350 (350-1.2/1.6)			

RWY	TORA	TODA	ASDA	LDA	PSN	THR	ALS
21L	10051 [ft] 3063 [m]	11051 [ft] 3368 [m]	11051 [ft] 3368 [m]	10051 [ft] 3063 [m]	36°14.043'N	115°01.018'W	⊕
3R	10120 [ft] 3084 [m]	11120 [ft] 3398 [m]	11120 [ft] 3398 [m]	10120 [ft] 3084 [m]	36°13.029'N	115°02.038'W	

ATIS	NELLIS GROUND	NELLIS TOWER	NELLIS CONTROL	TACAN	ILS RWY 21L	NELLIS EAST	NELLIS WEST
270.100 MHz	275.800 121.800	327.000 132.55	317.525	LSV 12X	109.10 Mhz	384.400	385.000

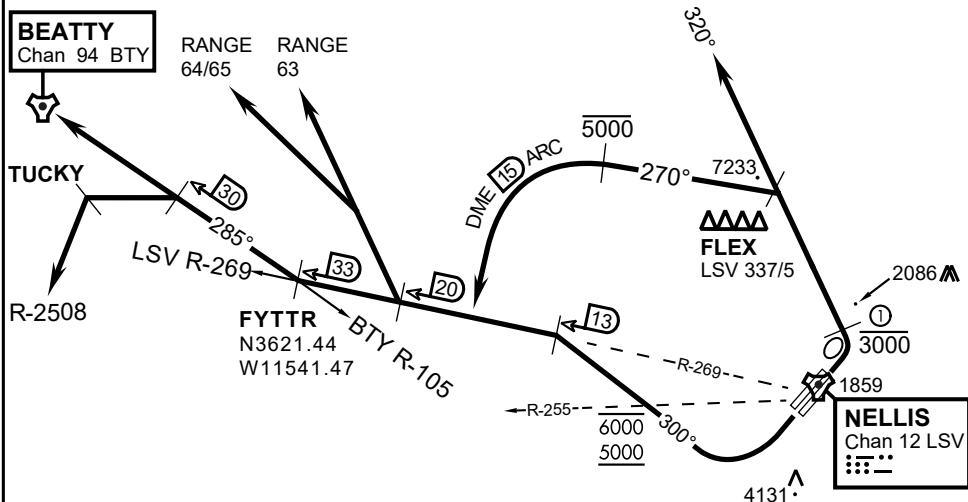
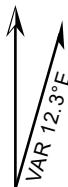
ATIS
 270.100
 NELLIS GROUND
 275.800
 NELLIS TOWER
 327.000
 NELLIS CONTROL
 317.525
 NELLIS DEP/APP EAST
 384.400
 BLACKJACK
 377.800

CAUTION: If unable to comply
with restrictions advise ATC
prior to departure.

VMC ONLY

PILOT RESPONSIBLE FOR TERRAIN AVOIDANCE

① 4 NM from RWY 3L/R



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 3L/R:

- Remain below 3,000' MSL until north of Race Track and turned westbound.
- Turn left within 4NM of Nellis direct FLEX. Fly north of FLEX and turn left heading 270°.
- Intercept LSV 15 DME ARC at or below 5,000' MSL.
- ARC south, intercept LSV R-269 outbound. Maintain VFR.

TAKEOFF RWY 21L/21R:

- Follow Noise Abatement Procedures.
- Fly runway heading until past Golf Course, turn right heading 300°.
- Cross LSV R-255 between 5,000' and 6,000' , intercept and proceed outbound on the LSV R-269. Recommend climb to 8,500' MSL or appropriate VFR altitude for overflight of North Las Vegas Training Area. Fly routing for appr. mission/transition.

TRANSITIONS:

R-4806: Turn right at the LSV 269/20 direct to assigned ranges.

BEATTY: Turn right at FYTTR direct BTY via the BTY R-105

R-2508: Turn right at the FYTTR, intercept the BTY 105/30, direct TUCKY, then direct R-2508

FYTTR DEPARTURE AND TRANSITIONS (FYTTR LOW)



APPROACH ROUTE DESCRIPTION

APPROACH RWY 3L/R

Cross STRYK at or above 9,500' MSL, proceed direct GASS PEAK. Cross JORDN at or above 9,500' MSL, cross GASS PEAK at or above 8,500' MSL. Proceed direct SIMNS and cross at 5,500' MSL. Cross Las Vegas Blvd at or above 4,000' MSL then to 3,500' MSL for Initial. Remain within 4 DME if LSV on turn to final.

VFR STRAIGHT-IN RWY 3L/R

Depart CRAIG & descend to be at 3,000' MSL by Las Vegas Blvd. Do not descend below 3,000' MSL until within 5 DME of LSV or 4 NM of the runway on turn to final.

APPROACH RWY 21L/R

Cross STRYK at or above 9,500' MSL, proceed direct GASS PEAK. Cross JORDN at or above 9,500' MSL, cross GASS PEAK at or above 8,500' MSL. Cross APEX at or above 4,500' MSL then direct 5NM initial. Descend to cross PHINN at 4,000' MSL, Inside 5 NM descend to 3,500' MSL.

VFR STRAIGHT-IN RWY 21L/R

Cross APEX at 4,000' MSL. Descend to be at 3,000' MSL at PHINN. Descend to 3,000' MSL at LSV 027/5.

RANGE 63B EXIT

SOUTH: Via NIXON at or above 10,000' MSL, then direct STRYK.

EAST: Via SARAH at or above 10,000' MSL, then direct GASS PEAK.



INDIAN SPRINGS, NEVADA

TACAN INS	APCH CRS	Rwy Idg	9002
Chan 87	065 °	TDZE	3133
		Arpt Elev	3113

INDIAN SPRINGS AF AUX (KINS)



* MISSED APPROACH: Straight ahead to INS TACAN, intercept INS R-outbound, cross 17 DME at or above 9500, then direkt KSV TACAN

114

NELLIS CON

CREECH AFB TOWER
118.30 1360.60

GND CON

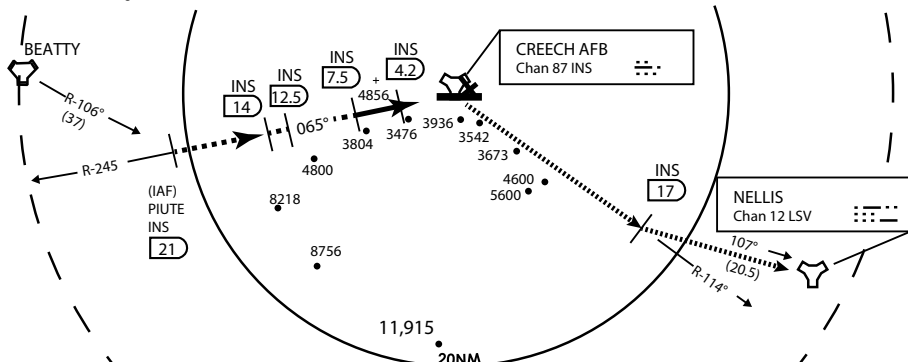
NOT ~~FOR~~ CIVIL USE

FOR USE UNDER BASIC VFR
WEATHER MINIMUMS ONLY

PILOT IS RESPONSIBLE
FOR TERRAIN/OBSTACLE
AVOIDANCE AND
APPROPRIATE VFR CLOUD
CLEARANCE FOR ALL

CAUTION: Descent gradients are greater than allowed under standard TERPS criteria and inbound course does not meet straight-in criteria

CAUTION: Final approach course crosses Runway centerline at MIDFIELD. Maneuvering left of course required prior to landing. Do not Maneuver farther north than the INS R- 258



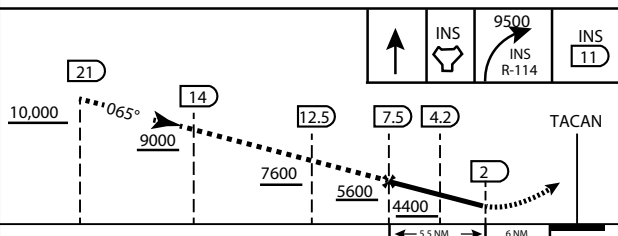
* CAUTION: Missed Approach Climb Rate to 4,700

Knots	60	120	180	240	300
V/V (fpm)	230	460	690	920	1150

Controlling Obstacle

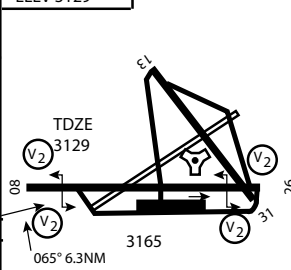
HIGH ALTITUDE FACILITIES

EMERG SAFE ALT 100 NM 14,000



CATEGORY	A	B	C	D	E	F
S-8	3760-1 1/2	627 (700-1 1/2)		3760-1 1/4 627 (700-1 1/4)	3760-2 627 (700-2)	3760-2 1/4 627 (700-2 1/4)
CIRCLING	NOT AUTHORIZED					

ELEV 3129



MIRL Rwy 8-26

CITY OF INDIAN, NEVADA

INDIAN SPRINGS AF AUX (KINS)

(FOR DAY VFR USE ONLY)

Modified by VLABOG 66 for use with DCS

Modified by vJaBoG 66 for use with DCS

NOT FOR REAL LIFE NAVIGATION





476 vFG JAN 2019

476 vFG JAN 2019