

MISSION DATA CARD							
OPORD		Callsign		Mission		Date/Time	
474/2021		Cougar 1		SEAD		162030DEC21	
Task	SEAD Echo					Freq	
AO	SAM City					261.35	
Departure				Recovery			
FYTTR LOW				HI-ILS or LOC/DME Z RWY 21L			
#	Callsign	Pilot		IFF	TCN	LSR	NET
-1	Cougar 1-1	Striver/Uta		1011	11Y	1551	
-2	Cougar 1-2	Tank		1012	74Y	1552	
-3	Cougar 1-3	Repsus/Lempo		1013	74X	1553	
-4	Cougar 1-4	Bruce/Bane		1014	11X	1554	

LOADOUT			
A/A	2xA9M		GUN 100% HEI
A/G	4xM20, 4xA141		CHF 140
POD			FLR 60
TKS	2xFT300		FUEL 100%

TOLD					
	Takeoff	Target	Joker	Bingo	Land
FUEL	20206		6000	4000	2000

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	WP1: FYTTR	N36 21.4 W115 41.5	1500	
2	WP2: TUCKY	N36 21.2 W116 49.4	30000	
3	WP3: SEAD ECHO	N37 01.4 W116 50.8	30000	
4	FP: BEATTY TCN X94X	N36 48.5 W116 44.9	2921	
5	IP: IP	N36 49.9 W117 18.3	30000	13:00
6	ST: SAM North	N37 29.1 W116 13.9	30000	
7	HB: SAM middle	N37 19.6 W116 21.1	30000	
8	HA: SAM South	N37 06 W116 18.7	1500	

NOTES

STP 1214J

////GAMEPLAN////

//Departure//

- Steptime is 1214J
- TAXI NLT: Step+20 (1234J)
- TAKEOFF NLT: Step+25 (1239J) [03R] - FYTTR LOW
- Intervall 3s, AB, Flaps Full

//Cruise//

- MIL PWR CLMB to A30, Cruise GS560 - M.95
- Erreichen IP NLT Step+40 (1254J)

//Hold//

- HOLD IP: 30° AOB Circle pattern A30

//Engagement//

Objective: Decoy TALDs over target between Step+49 and Step+54 (1303J - 1309J)

- Turn hot at Step+45 (1259J)
- Cougar 1-1 punches off W/M in sequence 4-3-2-1 +60s
- Cougar 1-4 fly HDG 020°M
- Cougar 1-3 fly HDG 040°M
- Cougar 1-2 fly HDG 060°M
- Cougar 1-1 fly HDG 080°M

- Gameplan: Custom TALD | Release at Step+48 in sequence (1302J)
- Cougar 1-4 4x TALD HDG 010°M, 020°M, 030°M, 040°M
- Cougar 1-3 4x TALD HDG 030°M, 040°M, 050°M, 060°M
- Cougar 1-2 4x TALD HDG 050°M, 060°M, 070°M, 080°M
- Cougar 1-1 4x TALD HDG 020°M, 040°M, 060°M, 080°M
- A30, min. M1.0, 20° nose up
- After Release:
- Cougar 1-3 and Cougar 1-4 turn HDG 080°M and deploy CHAFF
- Cougar 1-1 and Cougar 1-2 turn HDG 350°M and deploy CHAFF
- Abort on confirmed SAM launch on own A/C and continue to Rendezvous

- Rendezvous at IP
- Cougar 1-1 and Cougar 1-2 @A20
- Cougar 1-3 and Cougar 1-4 @A15
- Make ready for subsequent strike tasking w/ MK20 (elements)

- Elements may choose to RTB on conditions
- BINGO: 4000lbs
- WINCHESTER: TALD and MK20 spent
- FOXTROT: Commanded by Cougar 1-1
- TANGO: Step+120 (1414J)

//Recovery//

- HI-ILS Z RWY 21L NLT in Elements

====sorting=====

as described above

//////AAR Tanker////

- none

//////WEATHER////

tba

//////THREATS////

Ground: 2x SA-10, EWR, possible SA-15, SA-18, SA-19, AAA

Air: NONE

//////ALR MEDIUM////

LOSSES EXPECTED AT HISTORICAL COMBAT RATES. ACCEPT NEUTRAL OR DISADVANTAGEOUS ENGAGEMENTS; WITHDRAW TO PRESERVE FORCES.

A/A TACTICS

ACCEPT MERGE WITH EQUAL MERGE RATIOS. USE L&D TACTICS IF REQUIRED. AIRCRAFT RECOVERY HIGHER PRIORITY THAN MISSION GOAL.

//////ADDITIONAL DOCUMENTS////

- <https://www.dropbox.com/sh/w8dKo4uf62wjx3v/AAAHAckVaw1H7sAfePOCpyOda?dl=0>
- <https://www.dropbox.com/s/dhw3d0ug146avcr/LOS%20A30%2025nm.PNG?dl=0>
- <https://www.dropbox.com/s/nfkf5avo0aiqu5v/Path.PNG?dl=0>
- <https://www.dropbox.com/s/n40mnpfplb86kjs/Spread.PNG?dl=0>

OTHER FLIGHTS						
Callsign	Mission	Airframe	Freq	TCN	Grpld	Laser
Tiger 1	DEAD	4x F/A-18C	261.15	11/74	1	155X
	AO	Sam City	Task	SEAD Alpha		
Tiger 2	DEAD	4x F/A-18C	261.25	11/74		155X
	AO	Sam City	Task	SEAD Bravo		
Panther 7	DEAD	4x F/A-18C	261.45	11/74		155X
	AO	Sam City	Task	SEAD Charly		
Panther 6	DEAD	4x F/A-18C	261.55	11/74		155X
	AO	Sam City	Task	SEAD Delta		
Monster 1	SEAD	4x A-10C	132.15	25/88	21	161X
	AO	Sam City	Task	Dead Bravo		
T-Rex 1	SEAD	4x A-10C	132.25	25/88	21	161X
	AO	Sam City	Task	Dead Alpha		
Lion 1	SEAD	4x F-16C	134.0	25/88	21	161X
	AO	Sam City	Task	Dead Charly		

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	
P	R	E	C	L	U	S	I	O	N	
KTC 1400 C										
	0	1	2	3	4	5	6	7	8	9
A	MXGQ	DUR	WES	CB	NT	LFP	YI	HV	OK	JA
B	MBWO	PFC	GJV	AY	IN	RQX	DK	ES	TU	HL
C	PODK	XCH	VEN	WY	JS	ILB	TM	GR	FA	QU
D	UDGK	VPT	ERJ	XC	LY	SIH	QO	FB	NA	WM
E	FHNP	WRB	TJK	OC	VI	LMU	DS	EG	YQ	AX
F	BQJF	HAW	NUV	YC	IK	GTO	EL	XS	DM	PR
G	MBWK	XAS	HFP	NI	RO	LGC	JE	YU	QD	TV
H	IAJR	NXW	LUD	GS	CO	QEH	FK	MV	BT	PY
I	UBOI	TLK	JXE	FQ	YM	NVH	RD	PG	AC	WS
J	MPWI	COF	DQN	UJ	HY	RBX	KE	AG	TL	SV
K	NVPA	MXB	TRW	KO	JD	SLU	FH	EG	QY	IC
L	IFOB	DVJ	USQ	TL	GN	YKH	AM	RC	PX	EW
M	MITY	JNW	DSX	QK	OA	UGE	PC	VL	BH	RF
N	BQTK	JIF	DNP	EW	RY	UMV	GO	CS	HA	LX
O	IYOW	RDU	NTC	MX	GB	QJP	EF	LK	AV	HS
P	RNKP	GSM	TWB	CV	UI	LDH	JX	AE	YQ	OF
Q	OBYJ	MRT	VIQ	DA	NP	LKG	WH	XU	SC	EF
R	OMUC	AFS	PRY	EV	WN	HGT	LB	KD	XQ	IJ
S	XHSV	UGA	NOP	JW	ID	TFC	LY	MB	EK	QR
T	BHAS	QDC	LUO	YJ	IX	PTG	EV	RK	MN	FW
U	IOLY	URC	MBH	DS	FK	WJA	TV	GP	QN	EX
V	AJPH	EIX	LVS	NW	CR	UMY	QB	KO	FD	GT
W	VDAL	BCR	WQI	FP	MJ	UTK	HG	SO	NX	EY
X	QMAY	PGO	XHK	VJ	SD	URW	FT	EI	LB	NC
Y	JXIS	YEO	MHV	PG	WD	CTB	FR	AN	KU	QL

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 36° 14.060' N 115° 01.058' W	ELEV 1857 [ft] 566 [m]	Scale 1:35'500						
	21L	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3°				0	300	600	900	1200	1500 [m]	
	3R	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3°				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

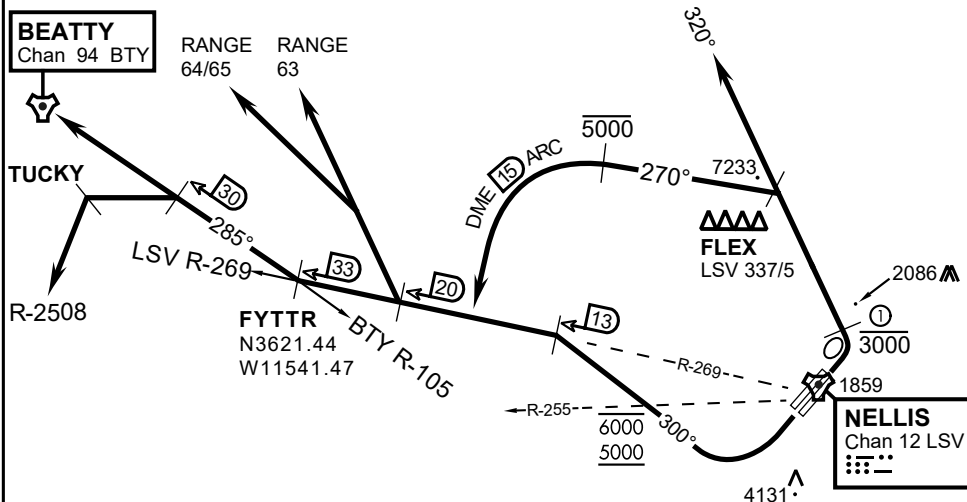
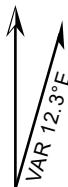
ATIS
 270.100
 NELLIS GROUND
 275.800
 NELLIS TOWER
 327.000
 NELLIS CONTROL
 317.525
 NELLIS DEP/APP EAST
 384.400
 BLACKJACK
 377.800

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 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.

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)

LAS VEGAS, NEVADA

HI-ILS or LOC Z RWY 21L

LOC I-DIQ 109.1	APCH CRS 209°	Rwy Idg 10,051	21L 10,120	21R 10,120
		TDZE 1865	1865	1869
		Arpt Elev 1869		

JAL-227 (USAF)

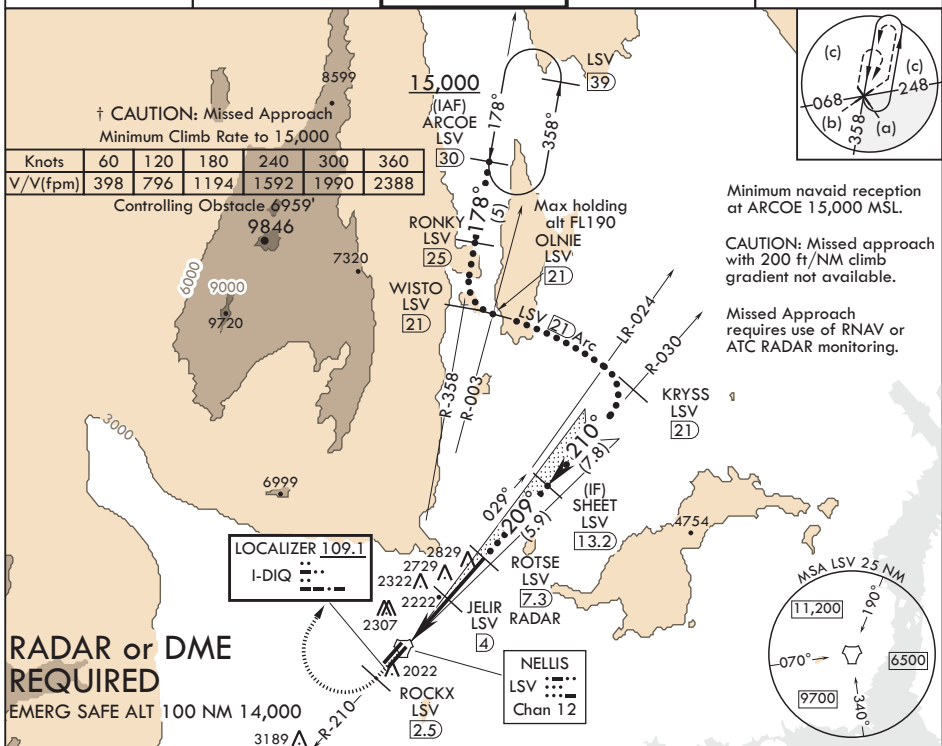
NELLIS AFB (KLSV)

T * When ALS inop, increase CAT CDE RVR to 40, vis to 3/4 mile.
 ** When ALS inop, increase CAT CDE vis to 1 3/4 miles.
 *** Circling not authorized E of Rwy 3R-21L.

Rwy 21
ALSF-1

† MISSED APPROACH: Climb to 15,000, intercept LSV TACAN R-210 to 2.5 DME (ROCKX), then climbing right turn heading 020° to join LSV R-358 to ARCOE and hold, continue climb-in-hold to 15,000. Missed approach not for civil use.

ATIS 270.1	APP CON 124.95 273.55	TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
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CATEGORY	C	D	E
S-ILS 21L*	2065/24	200	(200-1/2)
S-LOC 21L**	2480-1 3/4	615	(700-1 3/4)
SIDESTEP 21R	2500-1 3/4	631	(700-1 3/4)

CIRCLING***

	2620-2 1/4 751 (800-2 1/4)	2840-3 971 (1000-3)	3040-3 1171 (1200-3)
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ELEV 1869

TDZE 21L 1865
TDZE 21R 1869

209° 7.2 NM from FAF

2011 BCN 1951 2116

1949 10120 200 10051 x 150

1978 TWIR

HIRL all Rwy's

FAF to MAP 6.7 NM

Knots	120	140	160	180	200
Min:Sec	3:21	2:52	2:31	2:14	2:00

LAS VEGAS, NEVADA

36°14'N - 115°02'W

NELLIS AFB (KLSV)

Amdt 8 03JAN19

HI-ILS or LOC Z RWY 21L



INDIAN SPRINGS, NEVADA

TACAN INS Chan 87	APCH CRS 065 °	Rwy ldg TDZE Arpt Elev	9002 3133 3113
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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
118.30 660.60

GND CON

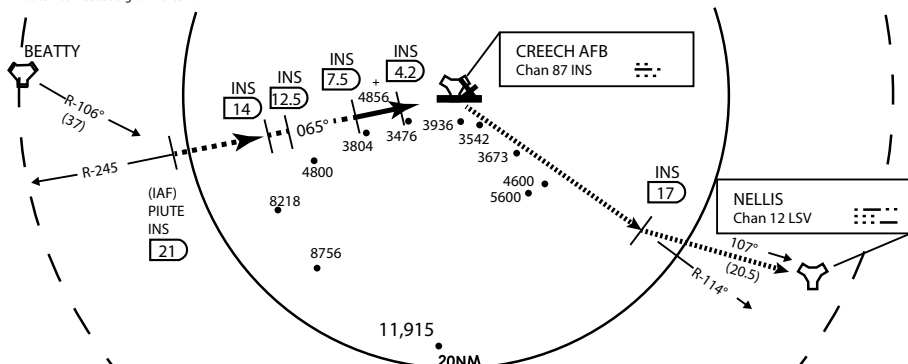
NOT FOR CIVIL USE

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

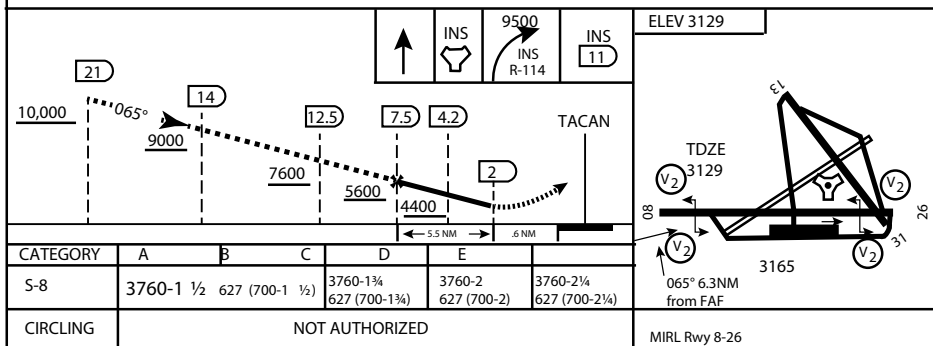


* CAUTION: Missed Approach Climb Rate to 4,700

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

Controlling Obstacle

EMERG SAFE ALT 100 NM 14,000



CITY OF INDIAN, NEVADA

INDIAN SPRINGS AF AUX (KINS)

(FOR DAY VFR USE ONLY)



