

MISSION DATA CARD								
OPORD		Callsign		Mission		Date/Time		
512/2022		Cougar 2		Training		102000JAN22		
Task	T&Gs and AAR					Freq		
AO						264.25		
Departure				Recovery				
A10 TAC NORTH				RAMMM				
#	Callsign		Pilot		IFF	TCN	LSR	NET
-1	Cougar 2-1		Striver/Uta		1121	20Y	1561	
-2	Cougar 2-2		Tank/Candyman		1122	83Y	1562	
-3	Cougar 2-3		Repsus/Lempo		1123	83X	1563	
-4	Cougar 2-4		Newbie/Bane		1124	20X	1564	

LOADOUT			
A/A	2xC9M		
A/G			
POD			
TKS			
		GUN	0% TP
		CHF	140
		FLR	60
		FUEL	100%

TOLD					
	Takeoff	Target	Joker	Bingo	Land
FUEL	16200				

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	Laughlin Airport	N35 09.419 W114 33.514		
2	Beatty Airport	N36 51.682 W116 47.186		
3	V105	BTY94X 310		
4	V135	TPH107 206		
5	V244	TPH107 66 / ILC110 249		
6	ELKXX	LSV 001/100 (N37 52 W114 30)		
7	MOOSE	LSV 016/94 (N37 36.770 W114 04.420)		
8	RAMMM	LSV 024/38 (N36 45 W114 33.330)		
9	APEX	LSV 027/09 (N36 21.580 W114 54.340)		

NOTES

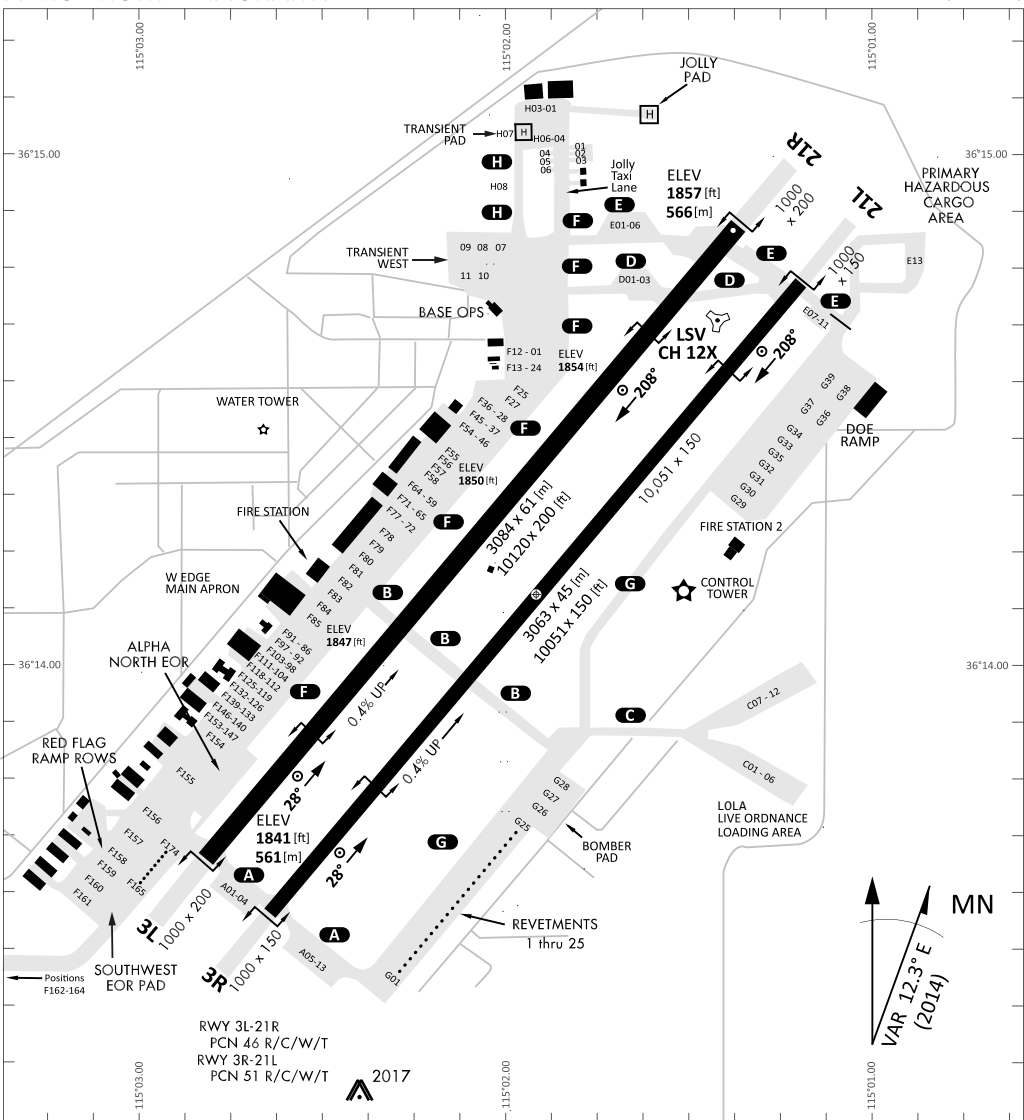
165° Laughlin
312° Inbound Beatty

OTHER FLIGHTS						
Callsign	Mission	Airframe	Freq	TCN	Grpld	Laser
Panther 7	Training	4x F/A-18C	261.35	31/94		157X
	AO		Task			
Lion 1	Training	4x F-16C	134.0	41/104		158X
	AO	NTTR East	Task	East Airfield Fam Flight		
Tiger 1	Training	4x F/A-18C	261.15	11/74	1	155X
	AO	Jean Airport, Boulder City, Echo Bay, Mesquite	Task	Landing & AAR Refresher		
T-Rex 2	Training	2x A-10C	132.25	27/90	25	165X
	AO	Pahute Mesa, Beatty, Range64	Task	Touch'n'Go Training + AAR		
Monster 1	Training	2x A-10C	132.15	25/88	11	161X
	AO	Range 64, Pahute, Beatty	Task			
Axe 4	Training	3x A-10C	132.65	21/84	24	156X
	AO	Lincoln, LATN East, Echo Bay	Task			
Panther 5	Training	4x F/A-18C	261.25	32/95	1	156X
	AO	Creech, Tonopah	Task	Landing & AAR Refresher		

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	
C	O	M	P	A	T	I	B	L	E	
KTC 1400 C										
	0	1	2	3	4	5	6	7	8	9
A	HTEY	RJC	NIO	QK	GX	FWU	PS	MV	BA	DL
B	NJKA	OGX	EWR	SC	HP	YFU	TQ	IL	DV	BM
C	AFXR	TQK	GCB	YI	DE	WMU	SH	PV	JO	NL
D	QOVL	UKX	TNF	JG	MH	ICS	PA	YW	DE	RB
E	SYCW	UXA	GHM	VL	DR	JPO	KI	BQ	TE	NF
F	DFNK	WSO	UMX	TJ	AQ	RBY	GI	EL	HV	PC
G	UHXE	CSY	IPW	NR	AO	VFK	TQ	DB	JG	LM
H	PSRV	IQU	YXC	HN	EG	WLM	KB	AT	FJ	OD
I	QVTG	LUS	MEN	RI	WJ	ABK	XP	OF	CY	DH
J	LARJ	VHP	GYX	SN	TD	EIQ	CB	FM	OK	WU
K	KTWH	YLP	EAF	OJ	GS	IBM	DR	VX	QN	UC
L	BVHQ	MOL	DEI	AY	RG	NJC	TK	XW	PU	SF
M	NXPK	VDU	MSJ	QE	CA	GRO	YW	BT	LH	FI
N	GQYF	ILK	VEJ	CO	SM	DBP	TR	UN	AX	HW
O	XCID	TSJ	LAB	FG	MN	VEK	HU	PW	YO	RQ
P	PFKB	AJM	QLN	IO	SR	XET	CY	HW	GD	UV
Q	FYSB	OJQ	XDN	IM	RC	GVL	PE	HK	AU	TW
R	HGPC	MEK	IOS	JQ	LW	UXD	NA	YR	TF	BV
S	UBRI	DOE	QFL	GJ	TS	WXH	YN	MK	AV	PC
T	SGFU	XOH	WCB	DI	QR	EJV	MA	PN	YL	TK
U	WDJV	CBQ	NFA	RY	OT	XSH	PM	UL	KE	GI
V	AJDE	HCP	YGI	XB	KM	SFL	UT	NO	QW	RV
W	SICA	VRL	DKM	FN	HB	TQY	OE	JG	WX	PU
X	RWJI	TUM	PYC	OK	QD	SAH	NF	LE	GV	BX
Y	RHGD	ELF	QWV	BI	AN	OYM	SU	CJ	XK	TP

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 1:35'500	
	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	

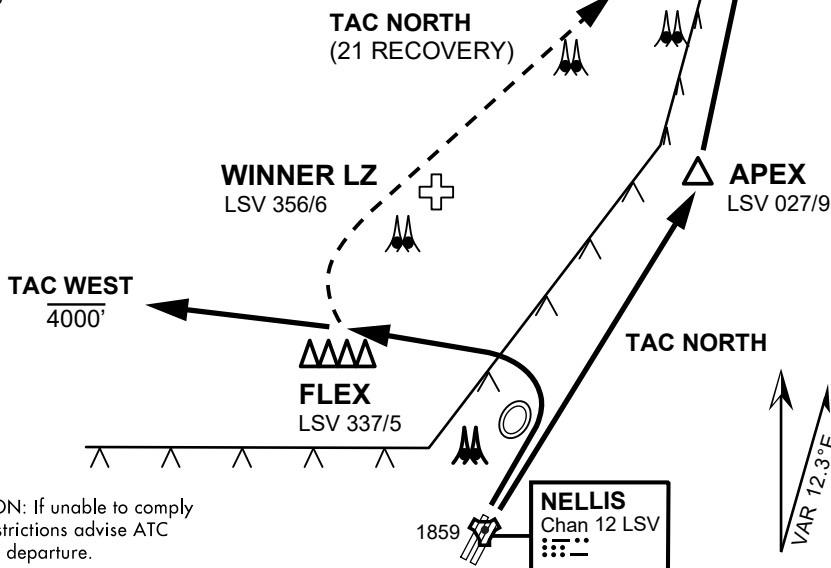
ATIS	NELLIS GROUND	NELLIS TOWER	NELLIS CONTROL	TACAN	ILS RWY 21L	NELLIS EAST	NELLIS WEST
270.100 MHz	275.800 121.800	327.000 132.55	317.525	LSV 12X	109.10 Mhz	384.400	385.000

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

VMC ONLY

PILOT RESPONSIBLE FOR TERRAIN AVOIDANCE

DRY LAKE
LSV 017/15



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



DEPARTURE ROUTE DESCRIPTION

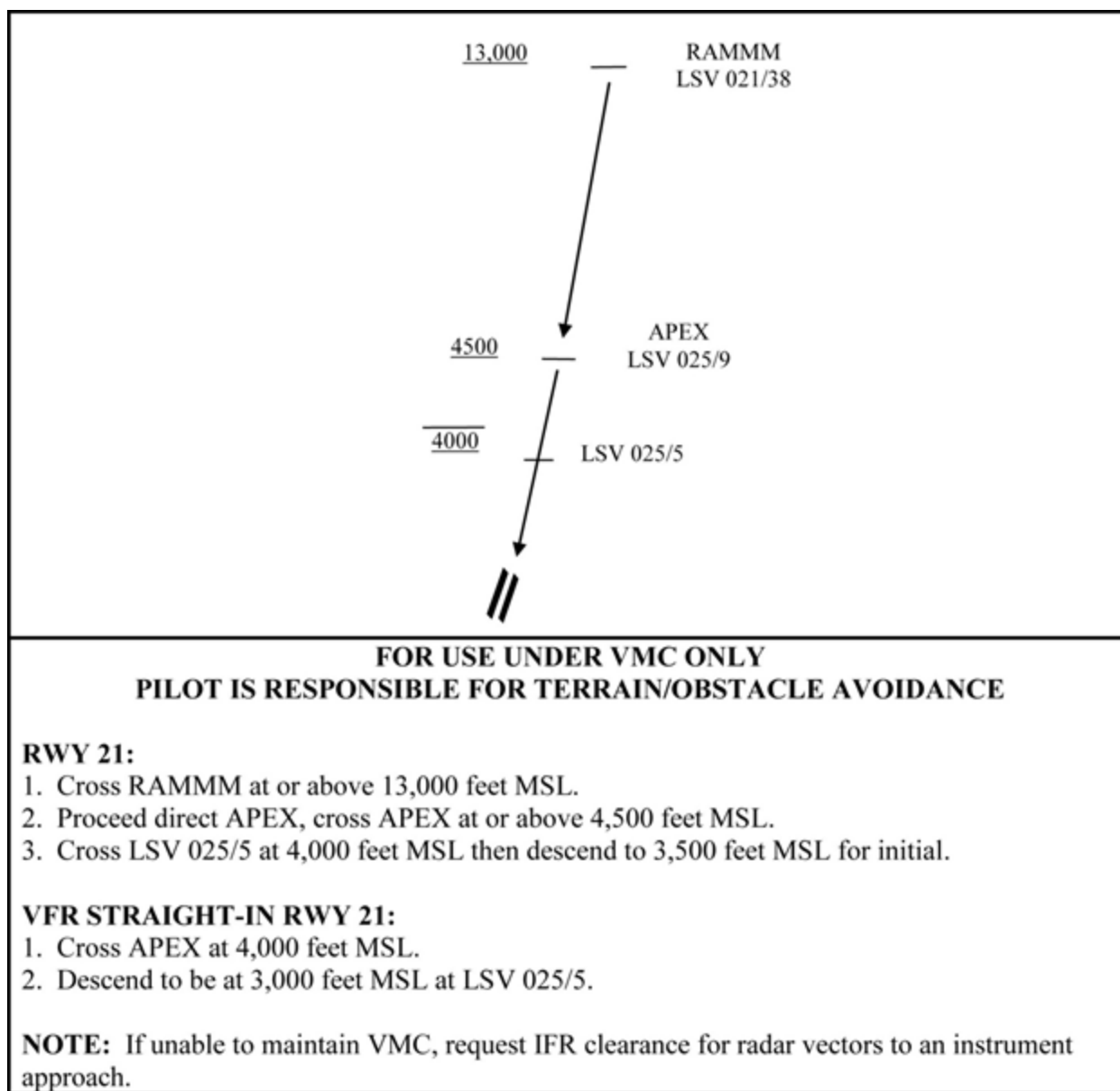
- Tac North / Tac West departures only flown during daylight from RWY 03
- Use caution for helicopters operating 3 Nm NE of FLEX (Winner LZ).
- Flights will remain at 500' AGL until deconflicted with helicopter traffic.
- Upon reaching FLEX or Dry Lake maintain VFR, remain clear of Class B airspace, and switch frequency to coordinate for range entry.

TAC NORTH

- Proceed direct APEX then direct Dry Lake. Report "APEX" informing ATC flight will clear Class B in 3Nm enroute to Dry Lake.
- For opposite direction takeoffs when RWY 21 is the active, proceed to FLEX then to Dry Lake.
- Report "FLEX" to inform ATC flight is clear of Class B airspace. Use caution for helicopter training.

TAC WEST:

- Proceed to FLEX. Report "FLEX" to inform ATC flight is clear of Class B airspace. Remain below 4000' MSL until north of Gass Peak.

Figure A23.5. RAMMM Recovery (Not For Use In IMC).



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)

T	* MISSED APPROACH: Straight ahead to INS TACAN, intercept INS R-outbound, cross 17 DME at or above 9500, then direkt KSV TACAN	114
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NELLIS CON -	CREECH AFB TOWER 118.30 660.60	GND CON -
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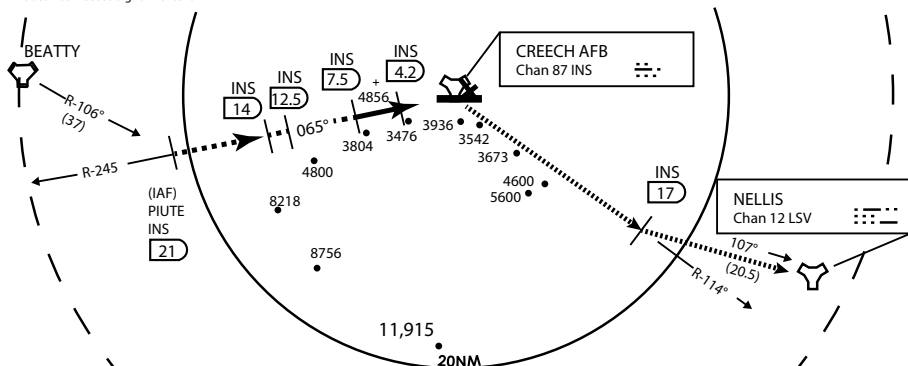
NOT FOR CIVIL USE

FOR USE UNDER BASIC VFR
WEATHER MINIMUMS ONLY

PILOT IS RESONPSIBLE
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

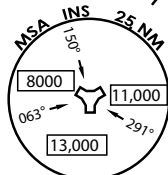
CAUTION: Final approach course crosses
Runway centerline at MIDFIELD. Maneuvering
left of course required prior to landing. Do not
Maneuver farther north than the INS R- 258



* 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

					ELEV 3129	
CATEGORY	A	B	C	D	E	
S-8	3760-1 ½	627 (700-1 ½)	3760-1¾ 627 (700-1¾)	3760-2 627 (700-2)	3760-2¼ 627 (700-2¼)	
CIRCLING	NOT AUTHORIZED					MIRL Rwy 8-26

CITY OF INDIAN, NEVADA

INDIAN SPRINGS AF AUX (KINS)

(FOR DAY VFR USE ONLY)

Modified by viaBoG 66 for use with DCS
NOT FOR REAL LIFE NAVIGATION

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