

| MISSION DATA CARD |                          |           |  |                    |     |             |     |
|-------------------|--------------------------|-----------|--|--------------------|-----|-------------|-----|
| OPORD             |                          | Callsign  |  | Mission            |     | Date/Time   |     |
| 1016/2022         |                          | Panther 1 |  | Training           |     | 212215JUN22 |     |
| Task              | NELLIS Approach Training |           |  |                    |     | Freq        |     |
| AO                |                          |           |  |                    |     | 261.35      |     |
| Departure         |                          |           |  | Recovery           |     |             |     |
| MORMON MESA FOUR  |                          |           |  | HI-TACAN Z RWY 21L |     |             |     |
| #                 | Callsign                 | Pilot     |  | IFF                | TCN | LSR         | NET |
| -1                | Panther 1-1              | Tammi     |  | 1211               | 31Y | 1571        |     |

| LOADOUT |       |      |            |
|---------|-------|------|------------|
| A/A     | 2xA9X | GUN  | 100% HEI-T |
| A/G     |       | CHF  | 120        |
| POD     |       | FLR  | 0          |
| TKS     |       | FUEL | 50%        |

| TOLD |         |        |       |       |      |
|------|---------|--------|-------|-------|------|
|      | Takeoff | Target | Joker | Bingo | Land |
| FUEL | 5401    |        |       |       |      |

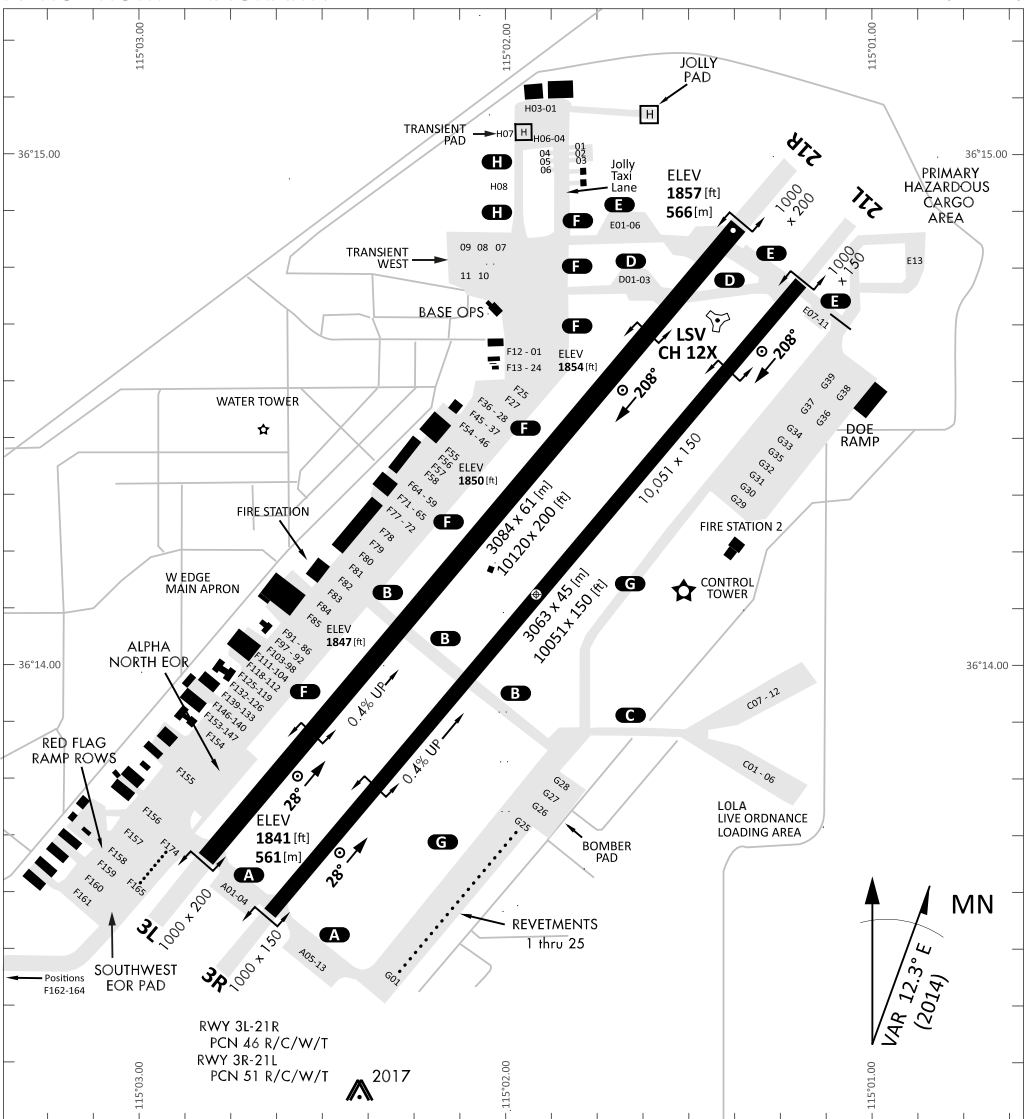
| AIRBASES |            |     |        |       |       |     |      |       |
|----------|------------|-----|--------|-------|-------|-----|------|-------|
|          | Name       | TCN | ATIS   | GND   | TWR   | RWY | Elev | ILS   |
| Dep      | Nellis AFB | 12X | 270.1  | 275.8 | 327.0 | 21L | 1850 | 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          | Mormon Mesa | N36 46.160 W114 16.650              | 20000 |     |
| 2          | ARCOE       | LSV 357/30 (N36 44.260 W114 55.020) | 15000 |     |

| 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                 |

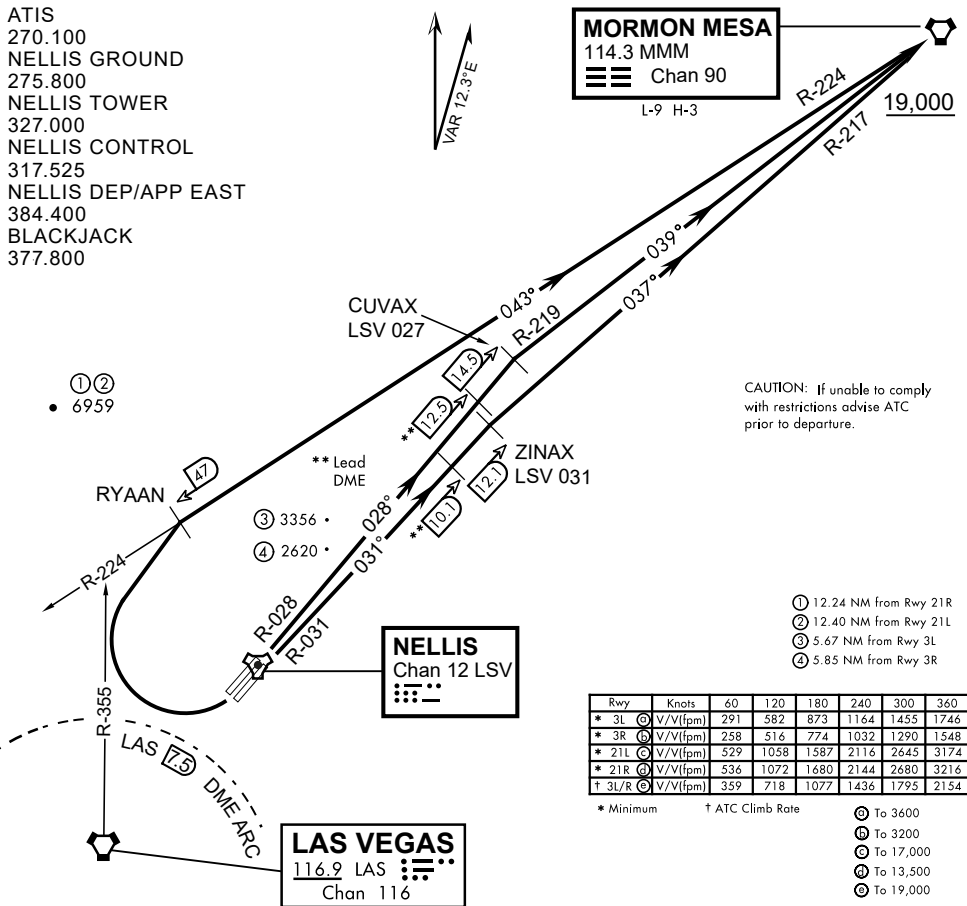
| RAMROD     |      |     |     |    |    |     |    |    |    |    |
|------------|------|-----|-----|----|----|-----|----|----|----|----|
| 0          | 1    | 2   | 3   | 4  | 5  | 6   | 7  | 8  | 9  |    |
| P          | R    | O   | S   | C  | E  | N   | I  | U  | M  |    |
| KTC 1400 C |      |     |     |    |    |     |    |    |    |    |
|            | 0    | 1   | 2   | 3  | 4  | 5   | 6  | 7  | 8  | 9  |
| A          | JDFN | HQS | OBA | YU | XK | WLC | PI | TR | EV | GM |
| B          | WAQU | KSL | YRD | GT | EH | CBJ | FV | XI | NP | MO |
| C          | YLV  | PUS | OAQ | DC | WB | HJF | EM | IG | TR | KN |
| D          | AWDL | XNI | MGY | BS | HK | UCJ | TR | FE | OQ | VP |
| E          | CMRF | ESY | DUQ | GN | BH | PLA | JO | KV | TX | WI |
| F          | TMLX | QWR | VEA | DN | FB | IOJ | KP | CU | HS | YG |
| G          | JVES | QIR | XAK | LY | DU | FPW | BH | TO | NG | MC |
| H          | PJTW | UBL | DNX | KO | YR | VIC | QF | HG | EM | AS |
| I          | TFLO | JGQ | WIE | VN | SY | BHC | UD | MA | PR | XK |
| J          | YSTL | CRO | HEP | BQ | AW | XUG | KM | JD | NF | VI |
| K          | VQCW | IXG | OPK | JU | AT | DYM | SE | FB | RL | NH |
| L          | ORTB | GWE | YSN | UL | XP | HQK | MD | VI | CJ | FA |
| M          | XVSJ | GDK | BLH | OW | FP | CEQ | RI | YT | NA | MU |
| N          | SAET | JXC | HRB | PV | OG | DLW | FK | MQ | IY | NU |
| O          | TPSL | YMQ | VAD | CJ | EX | NFI | KG | UR | BO | WH |
| P          | QKJR | GDH | OFC | NA | BL | TWI | XM | VE | PY | US |
| Q          | GECN | VIT | BOX | YA | QF | DHP | SK | WR | UJ | LM |
| R          | QAWD | KXR | EVG | UI | BT | LPC | SN | YJ | OM | FH |
| S          | MRJE | UWQ | SVH | YN | KB | TPX | FO | CA | GD | IL |
| T          | UMCK | LHY | GVD | JS | PO | IBN | EX | WR | TF | AQ |
| U          | HOGM | CSU | KLI | QW | FX | JRB | PE | TD | YN | AV |
| V          | BLJD | IAK | TVM | FC | QW | HEN | OS | UX | YG | RP |
| W          | HGSJ | UXY | BFA | NW | KL | OEP | DM | RI | QT | VC |
| X          | TIFL | EAW | VJR | YS | DP | OKG | XM | BN | CU | HQ |
| Y          | MERX | CSB | FLA | NU | DQ | IYG | OK | VW | TJ | PH |

| 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<br>36° 14.060' N<br>115° 01.058' W | ELEV<br>1857 [ft]<br>566 [m] | Scale 1:35'500 |                     |      |                          |      |             |             |
|             | 21L | A B D E             | 2057 - Q.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



## DEPARTURE ROUTE DESCRIPTION

### TAKE-OFF RWY 3L

- Fly runway heading to intercept the LSV TACAN R-027 then direct CUVAX, intercept the MMM VORTAC R-219 then direct MMM climbing to FL190 or as assigned, then via assigned route.

### TAKE-OFF RWY 3R

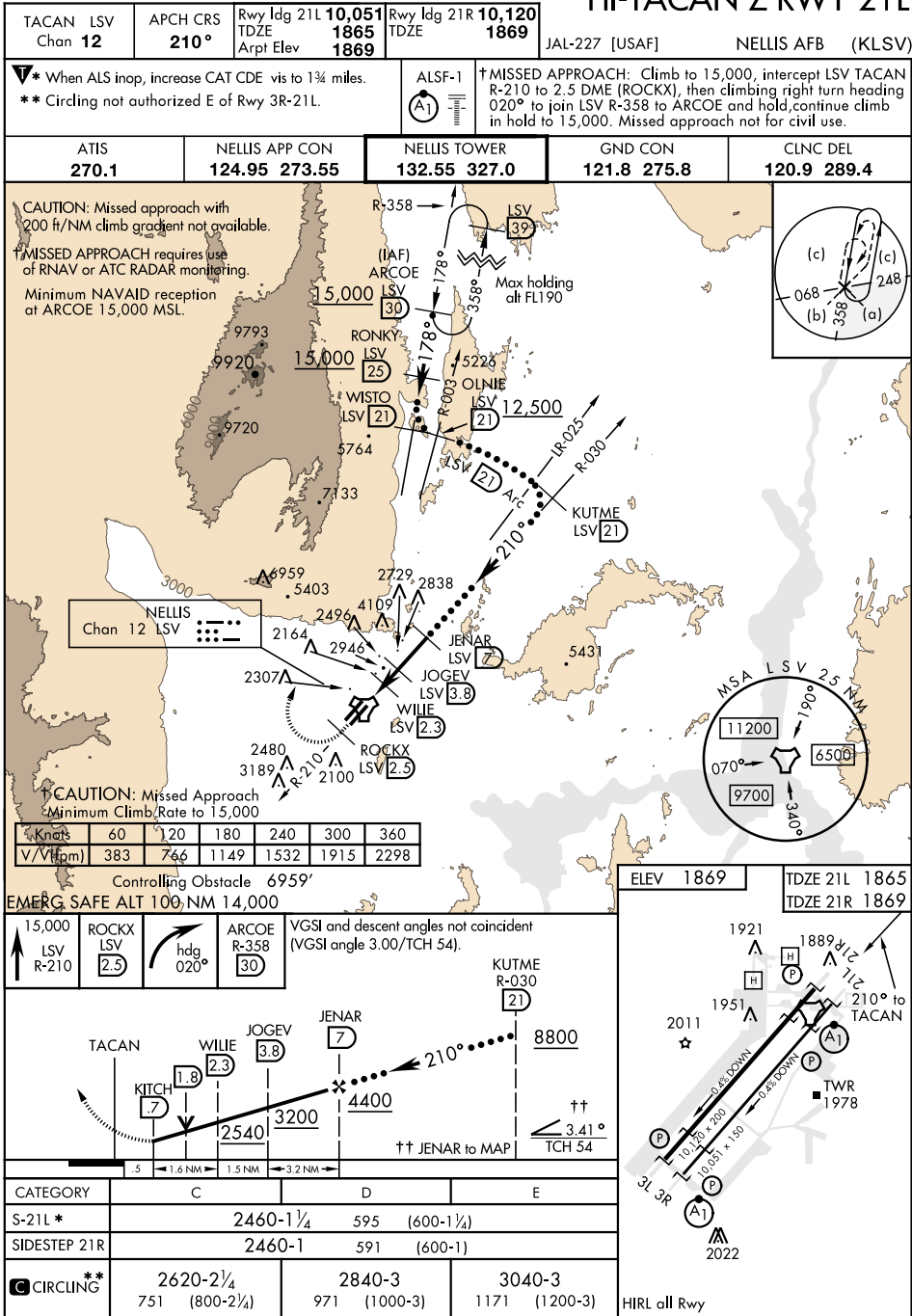
- Fly runway heading to intercept the LSV TACAN R-031 then direct ZINAX, intercept the MMM VORTAC R-217 then direct MMM, climbing to FL190 or as assigned, then via assigned route.

### TAKE-OFF RWY 21L/R

- Turn right to intercept MMM VORTAC R-224 prior to MMM 47 DME, remain North of the LAS VORTAC 7.5 DME, remain East of LAS R-355, intercept MMM R-224 then direct MMM cross MMM at or above FL190, then via assigned route.

NOISE ABATMENT PROCEDURES: Fly acc. Nellis Noise Abatement instructions

HI-TACAN Z RWY 21L



LAS VEGAS, NEVADA

36°14'N-115°02'W

NELLIS AFB (KLSV)

Amtd 8 05DEC19

HI-TACAN Z RWY 21L

SW-4, 05 DEC 2019 to 02 JAN 2020

SW-4, 05 DEC 2019 to 02 JAN 2020



INDIAN SPRINGS, NEVADA

|                      |                   |                              |                      |
|----------------------|-------------------|------------------------------|----------------------|
| TACAN INS<br>Chan 87 | APCH CRS<br>065 ° | Rwy ldg<br>TDZE<br>Arpt Elev | 9002<br>3133<br>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  
118.30 660.60

GND CON

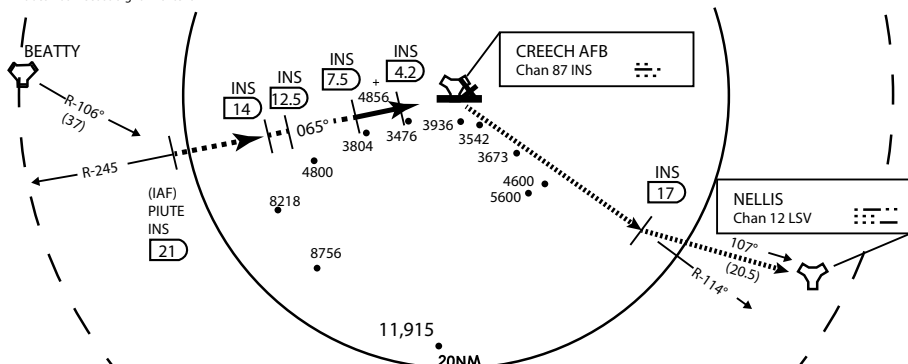
NOT FOR CIVIL USE

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



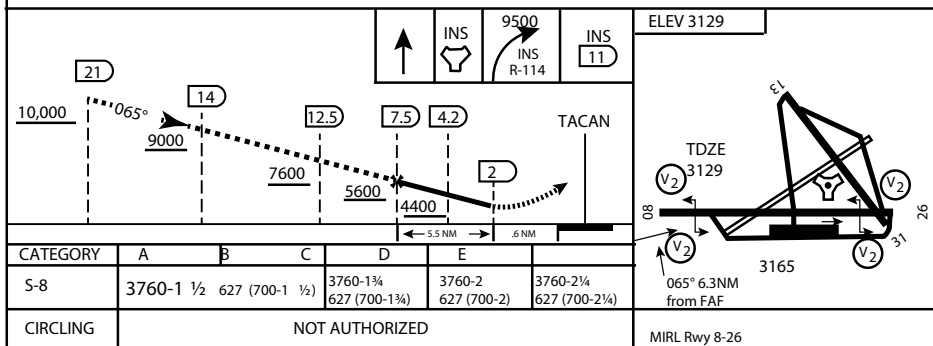
\* CAUTION: Missed Approach Climb Rate to 4,700

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

Controlling Obstacle

HIGH ALTITUDE FACILITIES

EMERG SAFE ALT 100 NM 14,000



CITY OF INDIAN, NEVADA

INDIAN SPRINGS AF AUX (KINS)

(FOR DAY VFR USE ONLY)

Modified by vJaBoG 66 for use with DCS

NOT FOR REAL LIFE NAVIGATION



