

| MISSION DATA CARD |             |          |  |                    |     |             |     |
|-------------------|-------------|----------|--|--------------------|-----|-------------|-----|
| OPORD             |             | Callsign |  | Mission            |     | Date/Time   |     |
| 2147/2023         |             | Cougar 7 |  | Training           |     | 142000SEP23 |     |
| Task              | SEAD        |          |  |                    |     | Freq        |     |
| AO                | PAHUTE MESA |          |  |                    |     | 263.85      |     |
| Departure         |             |          |  | Recovery           |     |             |     |
| FYTTR THREE       |             |          |  | HI-TACAN Z RWY 21L |     |             |     |
| #                 | Callsign    | Pilot    |  | IFF                | TCN | LSR         | NET |
| -1                | Cougar 7-1  | Ghost    |  | 1131               | 21Y | 1561        |     |
| -2                | Cougar 7-2  | Taxman   |  | 1132               | 84Y | 1562        |     |

| LOADOUT |                |  |                |
|---------|----------------|--|----------------|
| A/A     | 2xA9X, 3xA120C |  | GUN 100% HEI-T |
| A/G     | 2xA88C         |  | CHF 120        |
| POD     | TGP            |  | FLR 0          |
| TKS     | FPU-8A         |  | FUEL 100%      |

| TOLD |         |        |       |       |      |
|------|---------|--------|-------|-------|------|
|      | Takeoff | Target | Joker | Bingo | Land |
| FUEL | 13047   |        |       | 5000  |      |

| 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 |

| FLIGHTPLAN |                         |                              |       |       |
|------------|-------------------------|------------------------------|-------|-------|
| #          | Name                    | Navaid/Coords/DME            | ALT   | TOT   |
| 1          | APEX                    | N36 21 34.800 W114 54 20.400 | 15000 |       |
| 2          | FYTTR                   | N36 21 26.400 W115 41 28.200 | 28000 | 20:46 |
| 3          | SEAD<br>CHARLIE         | N36 05 28.068 W116 10 47.536 | 28000 | 20:50 |
| 4          | SEAD<br>CHARLIE         | N36 14 07.798 W116 00 32.922 | 28000 |       |
| 5          | WHISKEY                 | N36 54 04.810 W116 54 39.973 | 28000 |       |
| 6          | SIERRA                  | N36 37 04.509 W116 01 50.696 | 28000 |       |
| 7          | ECHO                    | N37 00 09.953 W115 24 54.146 | 28000 |       |
| 8          | Pahute Mesa<br>Airstrip | N37 05 41 W116 18 55         | 0     |       |
| 9          | ARCOE                   | N36 44 15.600 W114 55 01.200 | 15000 |       |
| 10         | Nellis AFB              | N36 13 32 W115 02 37         | 1500  |       |

| COMMS |                   |
|-------|-------------------|
| Radio | Usage             |
| 1     | 3,4,16,319.8      |
| 2     | Inhouse 263.85    |
| 3     | MIDS A:42 / B:22  |
| 4     | MIDS A 42 Package |

## NOTES

HUNTER/KILLER, WM SWAP AGM88 - AGM65

Die Sequence of Events sieht wie folgt aus.

20:00 Start Briefing

20:15 Wechsel ins Pit

20:35 Start IFR DEP Cougar 3

20:37 Start IFR DEP Tiger 5

20:39 Start IFR DEP Cougar 7

20:50 TOT All Flights - Join first Standard Pattern (ALPHA, BRAVO, CHARLIE)

ACTIVITY 00:50 TOS

21:40 Rückkehr IFR Nellis

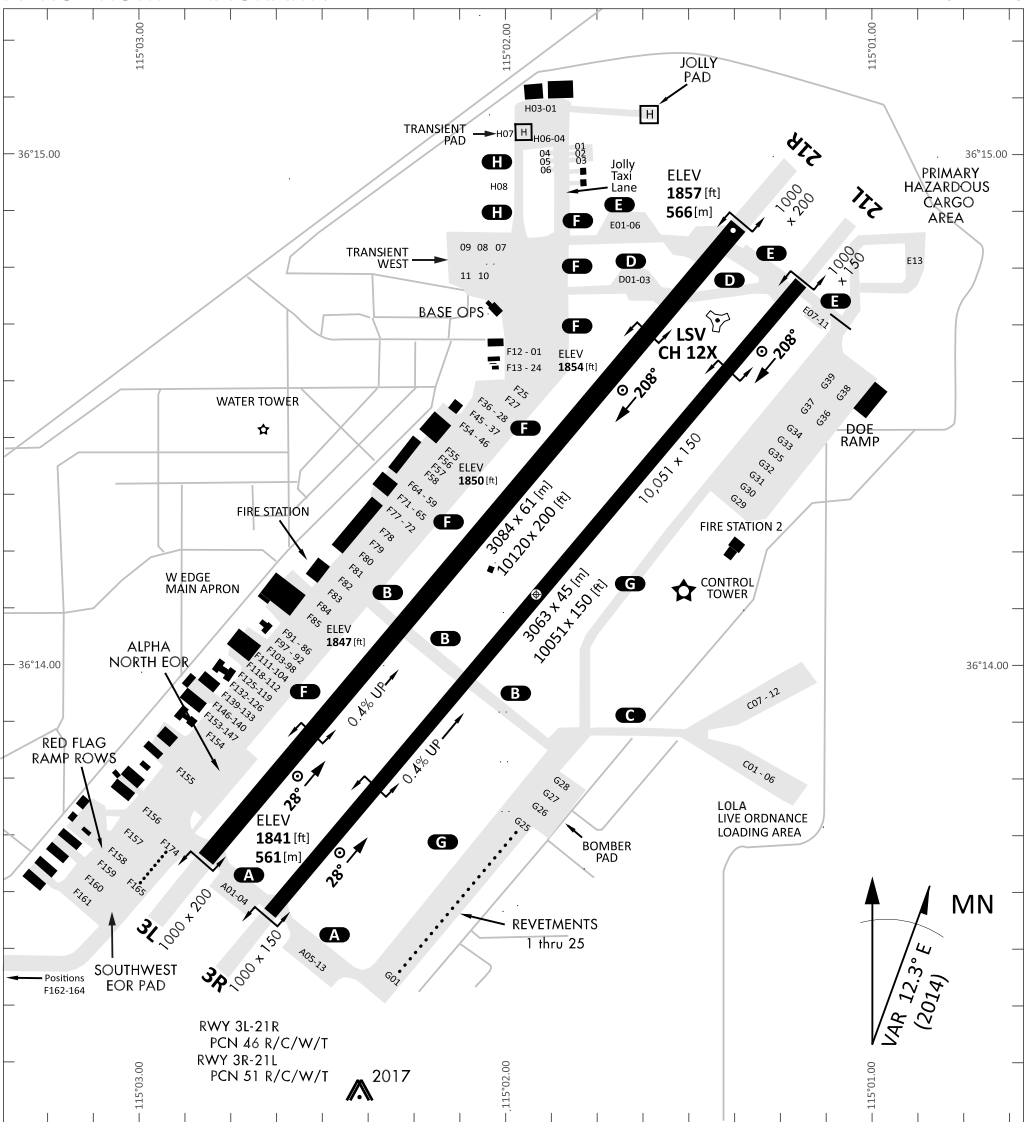
| SUPPORT  |       |                                    |                             |       |     |
|----------|-------|------------------------------------|-----------------------------|-------|-----|
| Tanker   |       |                                    |                             |       |     |
| Callsign |       | TCN                                | Freq                        | ALT   | TAS |
| ARCO 1   |       | 113Y                               | 319.8                       | FL250 | 450 |
|          | Pos   | AR-625: MVA 168/77 (N3717 W11802)  |                             |       |     |
| SHELL 2  |       | 115Y                               | 360.8                       | FL250 | 430 |
|          | Pos   | AR-635: MLF 260/127 (N3831 W11542) |                             |       |     |
| AWACS    |       |                                    |                             |       |     |
| Callsign | Freq  | ALT                                | Pos                         |       |     |
| MAGIC    | 377.8 | FL270                              | N3749 W11417 - N3713 W11446 |       |     |

| OTHER FLIGHTS |             |              |            |       |       |       |
|---------------|-------------|--------------|------------|-------|-------|-------|
| Callsign      | Mission     | Airframe     | Freq       | TCN   | Grpld | Laser |
| Vanguard 1    | Training    | 1x AV-8B N/A | 264.55     | 21/84 |       | 156X  |
| AO            |             | Task         |            |       |       |       |
| Cougar 3      | Training    | 2x F/A-18C   | 263.45     | 21/84 |       | 156X  |
| AO            | PAHUTE MESA | Task         | SEAD       |       |       |       |
| Tiger 5       | Training    | 2x F/A-18C   | 263.65     | 21/84 |       | 156X  |
| AO            | PAHUTE MESA | Task         | SEAD       |       |       |       |
| Hawg 1        | Training    | 2x A-10C     | 132.55     | 21/84 | 11    | 156X  |
| AO            | LATNC       | Task         | Buddy Lase |       |       |       |
| Outlaw* 5     | Training    | 2x AH-64D    | 133.5      | 21/84 |       | 156X  |
| AO            | LATNC       | Task         | Buddy Lase |       |       |       |
| Nazgul*       | Training    | 4x F-15E     | 261.25     | 21/84 |       | 156X  |
| AO            |             | Task         | AAR Night  |       |       |       |
| Raptor 1      | Training    | 4x F-16C     | 134.0      | 21/84 |       | 156X  |
| AO            | R61         | Task         | Mav + TGP  |       |       |       |
| Edelweiss 1   | Training    | 1x F/A-18C   | 264.15     | 21/84 |       | 171X  |
| AO            |             | Task         |            |       |       |       |
| Panther 6     | Training    | 2x F/A-18C   | 263.75     | 21/84 |       | 156X  |
| AO            | PAHUTE MESA | Task         | SEAD       |       |       |       |

| 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  |    |
| R          | E    | P   | U   | B  | L  | I   | C  | A  | N  |    |
| KTC 1400 C |      |     |     |    |    |     |    |    |    |    |
|            | 0    | 1   | 2   | 3  | 4  | 5   | 6  | 7  | 8  | 9  |
| A          | FTIB | OXp | HJR | AG | KS | UVY | ME | CQ | LN | DW |
| B          | OBAY | VTL | RWU | SJ | CI | DXN | GM | PE | HK | QF |
| C          | AGJL | SMR | XEV | WT | KI | BUO | DF | HP | QY | NC |
| D          | JSBR | TMH | YGI | FE | UO | PVQ | WN | CL | XK | AD |
| E          | YNWL | BSR | OFU | TG | QK | IPM | AC | EX | VH | DJ |
| F          | VQOH | JEM | GXA | FY | UN | PSD | CB | RW | KL | IT |
| G          | KYVI | SAG | DHR | EW | PF | NXL | MT | UB | OC | QJ |
| H          | FIQA | BDS | XYN | HG | KV | UCP | RT | LW | OJ | EM |
| I          | FDRL | XKW | NUJ | OA | IT | QEV | CY | PS | MB | HG |
| J          | JPRT | ALH | EKF | CD | XS | VNM | QI | WG | YU | BO |
| K          | BRNU | VMC | LIF | YO | GX | TSK | JQ | PW | DE | AH |
| L          | LHWP | BFC | TQI | OE | XA | SUV | MD | NG | YJ | RK |
| M          | JFKG | YSR | BAL | IX | TO | PDW | UC | VH | EQ | NM |
| N          | KMUO | WCV | TQP | LH | ED | XGJ | BN | YR | IF | SA |
| O          | BFGM | JAI | TQC | XL | PH | WKU | NY | SV | OE | RD |
| P          | GMHB | WCR | ANT | KX | ID | SFJ | QL | VE | YO | UP |
| Q          | VDGB | LWI | KAP | MR | EF | COU | XT | JY | SH | NQ |
| R          | KUOA | LYF | NRC | MW | PX | TSE | IQ | GB | JV | DH |
| S          | DEFV | JRY | GUM | IK | XN | OBH | WL | QC | SP | TA |
| T          | YDQV | UAB | KCR | NH | MX | WOT | FP | LE | GS | IJ |
| U          | PJUY | IMT | BSR | LE | XH | VOD | CK | AQ | FG | NW |
| V          | LDVN | EIJ | KXP | CS | YU | TOF | HG | RA | BQ | MW |
| W          | HAVL | PUC | TEG | JO | RY | DQI | XN | FS | MW | BK |
| X          | ELAH | KPY | JQM | WF | NV | OBT | SC | XI | UR | DG |
| Y          | QABI | NLV | UYW | DJ | TX | KCG | SP | EF | HR | OM |

| 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     |

FYTTR THREE DEPARTURE

NELLIS AFB (KLSV)  
IFR CHART | VALID 2014 LAS VEGAS, NEVADA

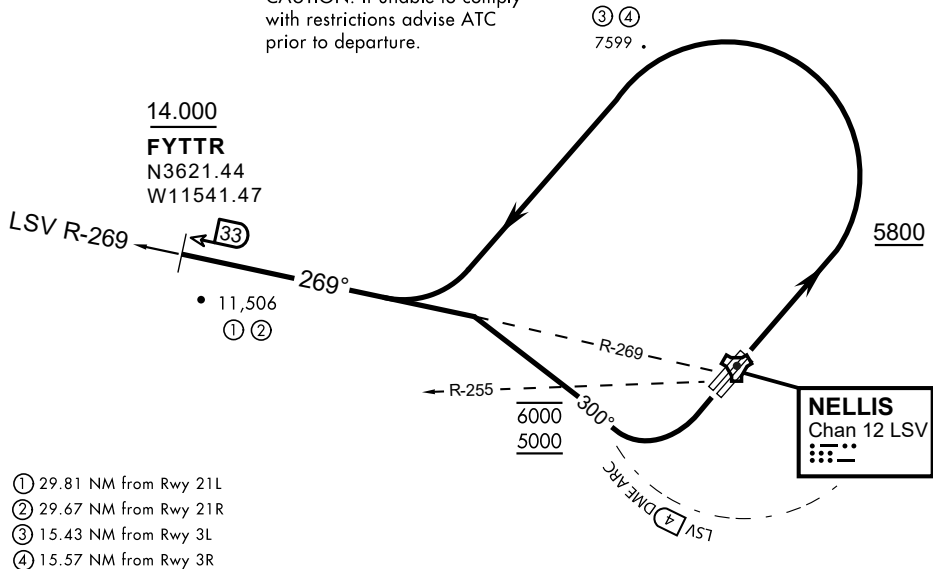
ATIS  
270.100  
NELLIS GROUND  
275.800  
NELLIS TOWER  
327.000  
NELLIS CONTROL  
317.525  
NELLIS DEP/APP EAST  
384.400  
BLACKJACK  
377.800



| Rwy   | Knots    | 60  | 120 | 180  | 240  | 300  | 360  |
|-------|----------|-----|-----|------|------|------|------|
| 3L ①  | V/V(fpm) | 394 | 788 | 1182 | 1576 | 1970 | 2364 |
| 3R ②  | V/V(fpm) | 392 | 784 | 1176 | 1568 | 1960 | 2352 |
| 21L ③ | V/V(fpm) | 388 | 776 | 1164 | 1552 | 1940 | 2328 |
| 21R ④ | V/V(fpm) | 390 | 780 | 1170 | 1560 | 1950 | 2340 |

Minimum Climb Rate  
① to 9300  
③ to 13 500

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



- ① 29.81 NM from Rwy 21L
- ② 29.67 NM from Rwy 21R
- ③ 15.43 NM from Rwy 3L
- ④ 15.57 NM from Rwy 3R

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 3L/R

- Fly runway heading until reaching 5,800'.
- Then climbing left turn to intercept LSV TACAN R-269 outbound.
- Cross FYTTR at or above 14,000' or as assigned, then via assigned route.

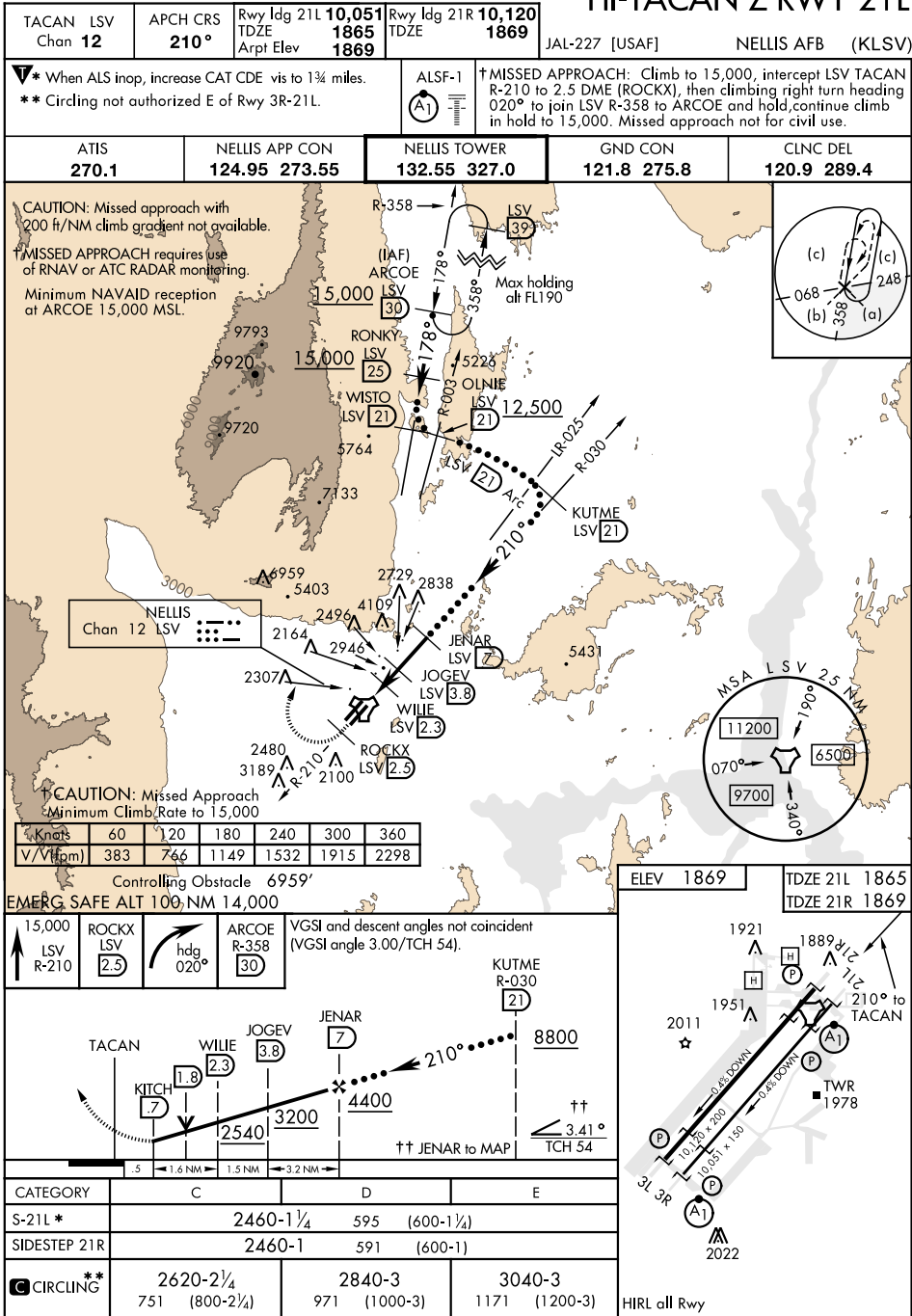
TAKEOFF RWY 21L/21R

- Turn right to intercept LSV TACAN R-269 outbound.
- Remain within LSV 4 DME until joining LSV R-269
- Cross R-255 between 5,000' and 6,000'.
- Cross FYTTR at or above 14,000' or as assigned, then via assigned route.

NOISE ABATEMENT PROCEDURES:

Fly according Nellis Noise Abatement instructions as published

HI-TACAN Z RWY 21L



SW-4, 05 DEC 2019 to 02 JAN 2020

SW-4, 05 DEC 2019 to 02 JAN 2020