

| MISSION DATA CARD |              |          |         |          |      |             |      |     |
|-------------------|--------------|----------|---------|----------|------|-------------|------|-----|
| OPORD             |              | Callsign |         | Mission  |      | Date/Time   |      |     |
| 2161/2023         |              | Raptor 1 |         | Training |      | 182000SEP23 |      |     |
| Task              | BVR Training |          |         |          |      | Freq        |      |     |
| AO                |              |          |         |          |      | 134.0       |      |     |
| Departure         |              |          |         | Recovery |      |             |      |     |
| FYTTR THREE       |              |          |         | STRYK    |      |             |      |     |
| #                 | Callsign     |          | Pilot   |          | IFF  | TCN         | LSR  | NET |
| -3                | Raptor 1-3   |          | Newbie  |          | 1613 | 84X         | 1563 |     |
| -4                | Raptor 1-4   |          | Woodman |          | 1614 | 21X         | 1564 |     |

| LOADOUT |  |  |  |
|---------|--|--|--|
| A/A     |  |  |  |
| A/G     |  |  |  |
| POD     |  |  |  |
| TKS     |  |  |  |

| TOLD |         |        |       |       |      |
|------|---------|--------|-------|-------|------|
|      | Takeoff | Target | Joker | Bingo | Land |
| FUEL | 7163    |        |       | 3000  |      |

| 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 |

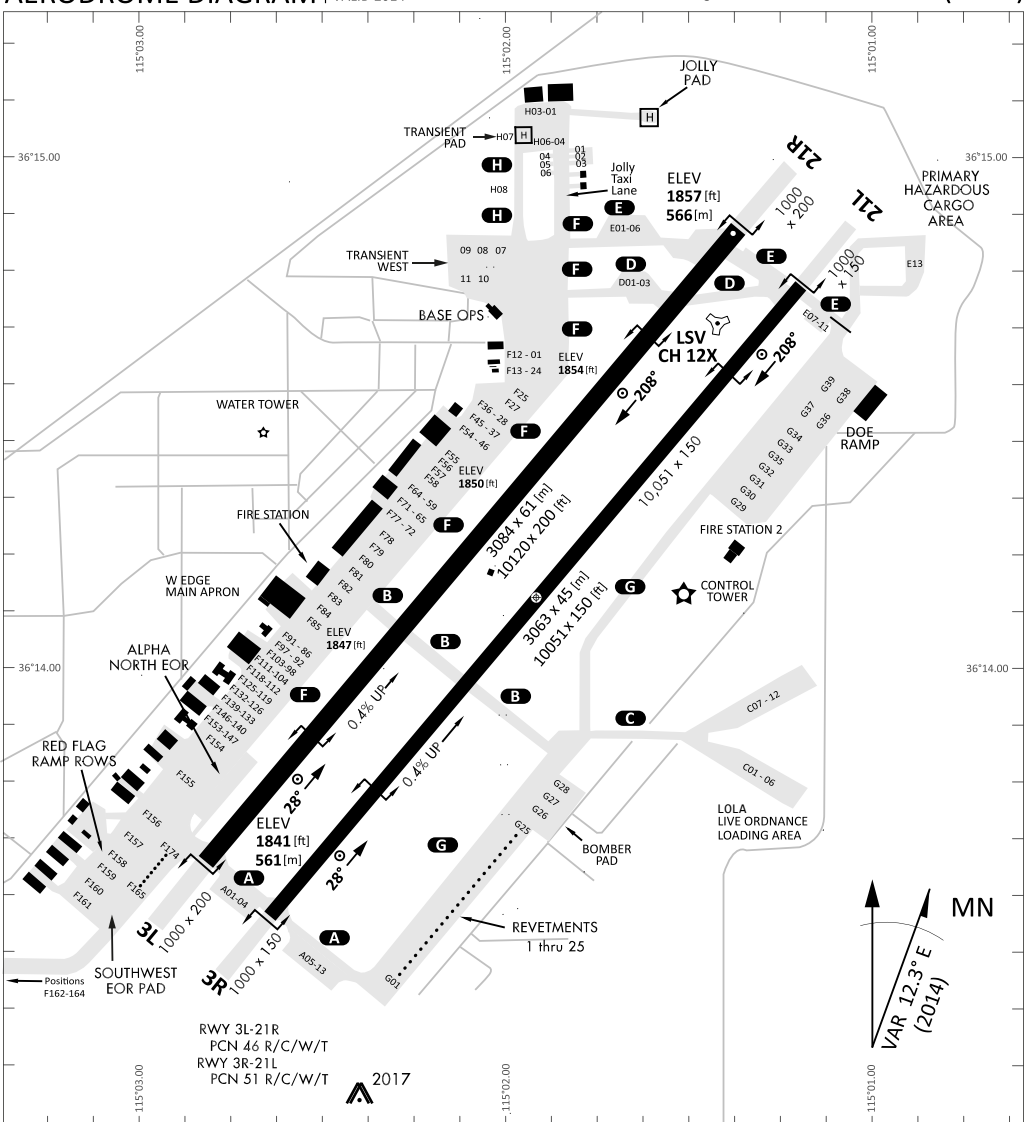
| SUPPORT  |       |       |                             |
|----------|-------|-------|-----------------------------|
| AWACS    |       |       |                             |
| Callsign | Freq  | ALT   | Pos                         |
| MAGiC    | 377.8 | FL270 | N3749 W11417 - N3713 W11446 |

| OTHER FLIGHTS |          |              |        |                   |       |       |
|---------------|----------|--------------|--------|-------------------|-------|-------|
| Callsign      | Mission  | Airframe     | Freq   | TCN               | Grpld | Laser |
| Vanguard 1    | Training | 1x AV-8B N/A | 264.55 | 21/84             |       | 166X  |
|               | AO       |              | Task   |                   |       |       |
| Monster 1     | Training | 4x A-10C     | 132.15 | 25/88             | 21    | 161X  |
|               | AO       | Range 64-B   | Task   | RED FLAG Training |       |       |
| T-Rex 2       | Training | 4x A-10C     | 132.25 | 27/90             | 25    | 165X  |
|               | AO       | Range 63     | Task   | RED FLAG Training |       |       |
| Edelweiss 6   | Training | 1x A-10C     | 134.65 | 21/84             | 40    | 166X  |
|               | AO       |              | Task   | BJT               |       |       |
| Nazgul* 6     | Training | 4x F-15E     | 261.25 | 21/84             |       | 156X  |
|               | AO       | BVR X        | Task   | BVR Training      |       |       |
| Claw 5        | Training | 2x AH-64D    | 133.35 | 21/84             |       | 156X  |
|               | AO       |              | Task   |                   |       |       |
| Edelweiss 1   | Training | 2x F/A-18C   | 264.15 | 21/84             |       | 171X  |
|               | AO       |              | Task   |                   |       |       |
| Panther 7     | DEAD     | 2x F/A-18C   | 261.35 | 31/94             |       | 157X  |
|               | AO       | Groom        | Task   |                   |       |       |

| 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  |    |
| B          | L    | A   | C   | K  | T  | H   | O  | R  | N  |    |
| KTC 1400 C |      |     |     |    |    |     |    |    |    |    |
|            | 0    | 1   | 2   | 3  | 4  | 5   | 6  | 7  | 8  | 9  |
| A          | VCPY | DQU | XNK | OI | LT | SJH | FE | BR | GM | WA |
| B          | LPXH | DJY | EGB | UR | TO | CWK | FN | SI | AQ | MV |
| C          | FKRW | VLJ | CIG | MH | TP | DQX | YO | AU | BN | SE |
| D          | BRCM | YAK | QJV | FP | WS | OTL | IX | HG | EU | ND |
| E          | DMUR | VGP | ETX | QA | BC | HYP | IS | OK | WJ | NL |
| F          | UYPG | JOH | KRW | CN | BM | TAV | QS | XF | ED | LI |
| G          | MCBI | KLO | SQR | YU | FA | VEJ | NX | HT | DG | PW |
| H          | KNRI | SFT | BWD | QL | MV | EXG | HJ | CA | PU | OY |
| I          | QOSJ | ELU | WAI | TY | PH | GCM | DR | FV | KN | XB |
| J          | HTEW | FON | UXM | KY | CB | QIV | GP | SD | LR | JA |
| K          | OIQJ | FPK | RHM | GL | SW | CYX | BE | TD | UV | AN |
| L          | LBPM | KUV | QSC | OG | WD | FEJ | AX | YN | IH | TR |
| M          | LVNP | MSF | ODH | QU | YW | RBX | CT | AG | IE | JK |
| N          | MEPN | SVG | WUB | RY | XI | QFJ | AH | OT | DK | LC |
| O          | QEWA | VPU | HBN | OM | SF | YRL | CG | TJ | ID | XK |
| P          | OETA | DPL | VCJ | FW | QR | BIN | XK | GU | HY | MS |
| Q          | OVNJ | FMS | LKI | YD | QA | EPT | HC | BW | RG | UX |
| R          | QYMI | SPN | RXJ | VT | FK | CUG | BH | DA | LO | WE |
| S          | NHFR | XMI | AEV | LY | PQ | USC | OB | KG | JT | WD |
| T          | KSJG | EHU | AXL | QV | YC | DRB | WP | OI | NT | FM |
| U          | VECS | OLP | KUI | BX | TD | YQM | HR | JA | GF | WN |
| V          | NKVA | EPT | HCI | YG | DM | OBF | SJ | LR | UQ | XW |
| W          | HTAG | SQD | MIC | PV | OX | YNW | EB | RU | FK | LJ |
| X          | TXVC | OYW | PES | GQ | AM | UFB | DK | LH | RN | IJ |
| Y          | SFKD | OGE | AIH | LT | UB | PCJ | QY | VW | XR | NM |

| 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     |

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



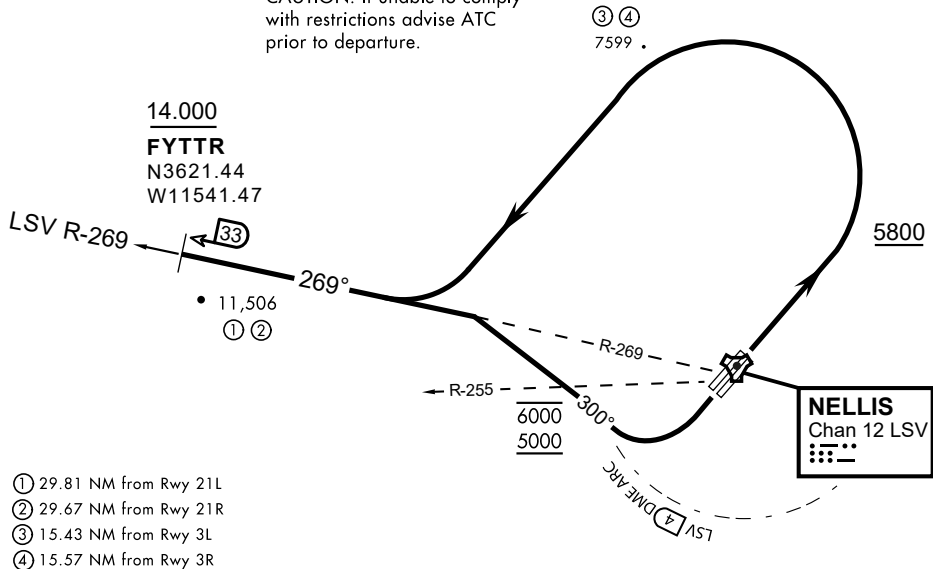
| Rwy | Knots        | 60  | 120 | 180  | 240  | 300  | 360  |
|-----|--------------|-----|-----|------|------|------|------|
| 3L  | (a) V/V(fpm) | 394 | 788 | 1182 | 1576 | 1970 | 2364 |
| 3R  | (a) V/V(fpm) | 392 | 784 | 1176 | 1568 | 1960 | 2352 |
| 21L | (b) V/V(fpm) | 388 | 776 | 1164 | 1552 |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

Minimum Climb Rate

(a) to 9300

(b) 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



### 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.