

| MISSION DATA CARD |                     |          |        |          |      |             |       |     |
|-------------------|---------------------|----------|--------|----------|------|-------------|-------|-----|
| OPORD             |                     | Callsign |        | Mission  |      | Date/Time   |       |     |
| 1879/2023         |                     | Raptor 1 |        | Training |      | 082000MAY23 |       |     |
| Task              | Bomb Training - GPS |          |        |          |      |             | Freq  |     |
| AO                | Range 61            |          |        |          |      |             | 134.0 |     |
| Departure         |                     |          |        | Recovery |      |             |       |     |
| DREAM FOUR        |                     |          |        | STRYK    |      |             |       |     |
| #                 | Callsign            |          | Pilot  |          | IFF  | TCN         | LSR   | NET |
| -1                | Raptor 1-1          |          | Nerkub |          | 1611 | 21Y         | 1561  |     |
| -2                | Raptor 1-2          |          | Void   |          | 1612 | 84Y         | 1562  |     |
| -3                | Raptor 1-3          |          | Cyking |          | 1613 | 84X         | 1563  |     |

| LOADOUT |                |      |            |
|---------|----------------|------|------------|
| A/A     | 2xA120C, 2xA9X | GUN  | 100% HEI-T |
| A/G     | 4xG38          | CHF  | 120        |
| POD     | HTS, A184, TGP | FLR  | 0          |
| TKS     | 2xFT300        | FUEL | 100%       |

| TOLD |         |        |       |       |      |
|------|---------|--------|-------|-------|------|
|      | Takeoff | Target | Joker | Bingo | Land |
| FUEL | 11169   |        |       |       |      |

| 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          | DREAM      | N37 10 20.400 W114 59 31.800 | 20000 |     |
| 2          | HOLDING    | N37 16 60 W115 07 03         | 20000 |     |
| 3          | ENTRY      | N37 19 49.860 W115 20 45.240 | 7000  |     |
| 4          | T61.01     | N37 09 34.500 W115 25 34.500 | 3822  |     |
| 5          | T61.03     | N37 09 05.220 W115 23 30.780 | 3778  |     |
| 6          | SARAH      | N36 36 27 W115 18 01.800     | 12000 |     |
| 7          | GASS PEAK  | N36 24 08.400 W115 10 39.600 | 9000  |     |
| 8          | Nellis AFB | N36 13 32 W115 02 37         | 3500  |     |

NOTES

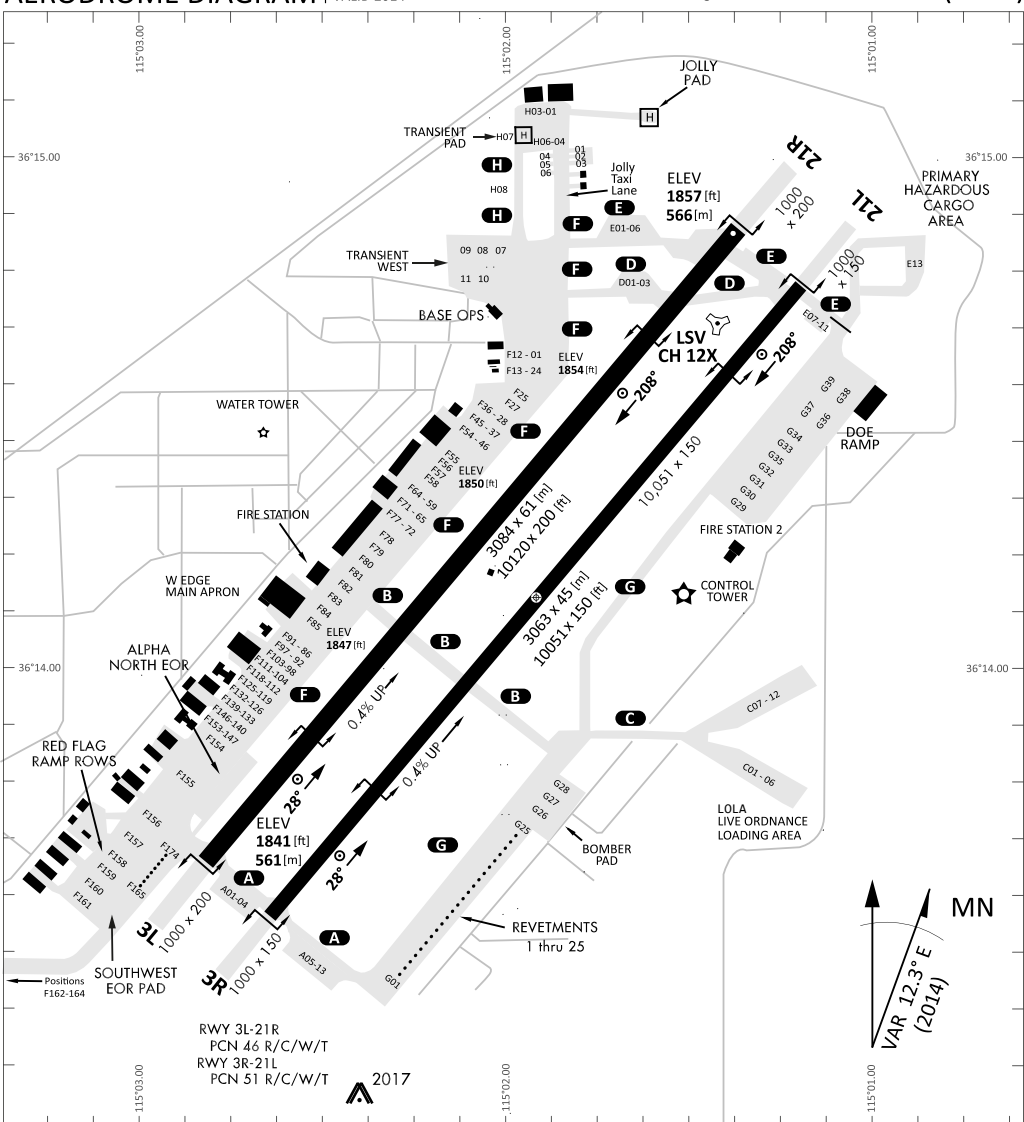
VRP: 0/50.000 200fuss POP: 0/28.000 200fuss

| OTHER FLIGHTS |          |                     |        |                   |       |       |
|---------------|----------|---------------------|--------|-------------------|-------|-------|
| Callsign      | Mission  | Airframe            | Freq   | TCN               | Grpld | Laser |
| Tiger 1       | Training | 2x F/A-18C          | 261.15 | 21/84             | 1     | 156X  |
|               | AO       | NTTR R63            | Task   | JTAC Training     |       |       |
| Panther 1     | Training | 2x F/A-18C          | 261.35 | 21/84             | 41    | 167X  |
|               | AO       | Range 64            | Task   | CAS/JTAC Training |       |       |
| T-Rex 2       | Training | 2x A-10C            | 132.25 | 27/90             | 25    | 165X  |
|               | AO       | R64                 | Task   | CAS               |       |       |
| Outlaw* 2     | Training | 2x Ground           | 33.65  | 21/84             |       | 156X  |
|               | AO       | Range 64            | Task   | JTAC              |       |       |
| Monster 2     | CAS      | 2x A-10C            | 132.15 | 27/90             | 21    | 164X  |
|               | AO       | R63                 | Task   |                   |       |       |
| Darkstar* 1   | Training | 2x Ground           | 33.5   | 21/84             |       | 156X  |
|               | AO       | Range 63            | Task   | JTAC              |       |       |
| Cougar 1      | Training | 4x F-14B            | 261.25 | 21/84             |       | 156X  |
|               | AO       | North of Nellis AFB | Task   | IFR Fam Flight    |       |       |

| 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    | N   | S   | U  | M  | A   | B  | L  | E  |    |
| KTC 1400 C |      |     |     |    |    |     |    |    |    |    |
|            | 0    | 1   | 2   | 3  | 4  | 5   | 6  | 7  | 8  | 9  |
| A          | MCRW | TID | FXV | QK | AN | ESU | GO | LB | PJ | YH |
| B          | PXDQ | GBV | AWJ | SI | YF | NRL | UO | CT | EK | HM |
| C          | LUCJ | RFM | DEO | SP | AN | VGY | KX | IW | HT | QB |
| D          | ETMH | AQB | OXJ | FW | YC | KGV | RU | IS | NL | PD |
| E          | FXGN | IML | YUB | QP | KD | ACW | RE | VH | TO | JS |
| F          | FUCL | IKV | PYX | NR | DJ | GTS | WH | BM | EQ | OA |
| G          | QJAV | FYX | OPB | GK | DN | CEI | UT | HL | RW | SM |
| H          | TVFC | IBY | KEW | HN | OQ | PXA | JU | MD | RG | LS |
| I          | ATGB | LOU | ERH | KJ | SX | WYM | DV | IP | CQ | NF |
| J          | FMBV | XIE | TOJ | NG | AC | YRW | KH | QU | SP | LD |
| K          | WVHL | TJU | MAQ | BE | PI | RXG | KY | OF | NC | SD |
| L          | OYIS | FTU | LEW | QA | NP | GCV | DK | XB | MJ | RH |
| M          | LBCY | TWD | MKX | GV | AS | OEJ | HR | IN | PQ | UF |
| N          | MVRP | UJG | DYQ | CF | TS | EBH | ON | KL | IA | XW |
| O          | MFSK | UCJ | DTL | IR | HB | VEP | QW | XG | AO | YN |
| P          | TOQM | YNX | KEH | RU | CP | LGI | FV | DA | JS | WB |
| Q          | HOPI | WJX | FQY | SR | DE | MBL | KA | CN | GV | UT |
| R          | DXTV | YFG | KIQ | JE | WN | RSA | BC | LP | HU | OM |
| S          | VCNL | RQY | BFT | ES | JO | PWH | KG | MI | AD | XU |
| T          | VQJA | BRD | KPE | LC | FW | IMY | HX | NG | UT | SO |
| U          | VWJN | YUT | RPF | XS | KC | BHL | OM | DQ | GE | IA |
| V          | DTBM | PRF | UNH | IW | AV | JQG | EC | SX | LY | KO |
| W          | FNWY | GPO | EUB | SL | DI | KJR | TH | XQ | CV | MA |
| X          | AXWU | PRE | OVG | IB | NQ | CJD | YL | TF | KH | SM |
| Y          | DPHO | AUF | NYE | WM | IJ | BRK | QT | XS | GV | LC |

| 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

DREAM  
N3710.34  
W11459.53

MINTT  
LAS 351/38  
17,000

| Rwy        | Knots     | 60  | 120 | 180  | 240  | 300  | 360  |
|------------|-----------|-----|-----|------|------|------|------|
| * 3 L (a)  | V/Vl(fpm) | 269 | 538 | 807  | 1076 | 1345 | 1614 |
| * 3 R (b)  | V/Vl(fpm) | 245 | 490 | 735  | 980  | 1225 | 1470 |
| † 3 L (c)  | V/Vl(fpm) | 498 | 996 | 1494 | 1992 | 2490 | 2988 |
| † 3 R (c)  | V/Vl(fpm) | 496 | 992 | 1488 | 1984 | 2480 | 2976 |
| * 21 L (d) | V/Vl(fpm) | 389 | 778 | 1167 | 1556 | 1945 | 2334 |
| * 21 R (d) | V/Vl(fpm) | 395 | 790 | 1185 | 1580 | 1975 | 2370 |
| † 21 L (c) | V/Vl(fpm) | 453 | 906 | 1359 | 1812 | 2265 | 2718 |
| † 21 R (c) | V/Vl(fpm) | 457 | 914 | 1371 | 1828 | 2285 | 2742 |

\* Minimum † ATC Climb Rate

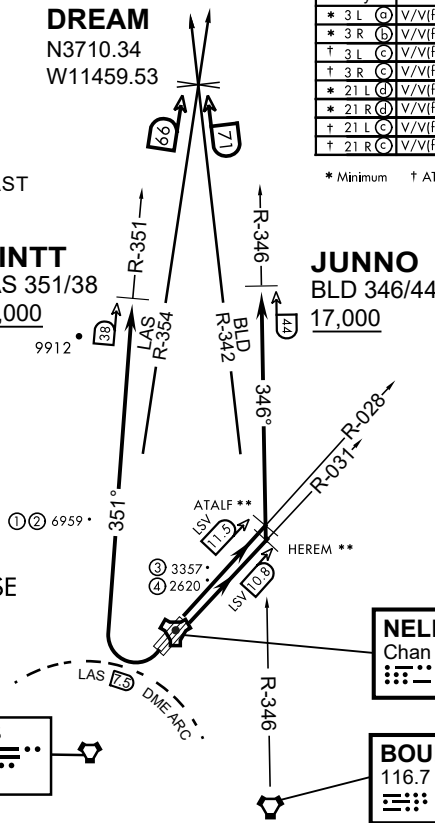
- (a) to 3600  
(b) to 3100  
(c) to 17,000  
(d) to 8500
- \*\* Lead DME:  
ATALF - LSV 9.5  
HEREM - LSV 8.8

- ① 12.24 NM from Rwy 21R  
② 12.40 NM from Rwy 21L  
③ 5.67 NM from Rwy 3L  
④ 5.85 NM from Rwy 3R

NOT FOR CIVIL USE

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

LAS VEGAS  
116.9 LAS  
Chan 116



NELLIS  
Chan 12 LSV

BOULDER CITY  
116.7 BLD  
Chan 114

VAR 12.3°E



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L

- Fly runway heading to intercept the LSV TACAN R-028 then direct ATALF, intercept the BLD VORTAC R-346 then direct JUNNO, cross JUNNO at or above 17,000, then via assigned route.

TAKE-OFF RWY 3R

- Fly runway heading to intercept the LSV TACAN R-031 then direct HEREM, intercept the BLD VORTAC R-346 then direct JUNNO, cross JUNNO at or above 17,000, then via assigned route.

TAKE-OFF RWY 21L/R

- Turn right to intercept LAS VORTAC R-351 outbound. Remain North of LAS 7.5 DME turning Northbound. Intercept LAS R-351 between 5000 and 6000, do not proceed West of LAS R-351. Cross MINTT at or above 17,000, then via assigned route.

NOISE ABATMENT PROCEDURES: Fly acc. Nellis Noise Abatement instructions



### 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.