

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| DP NAME | NUMBER                   | DP COMPUTER CODE         | SUPERSEDED NUMBER                   | DATED                    | ACTUAL EFFECTIVE DATE    |
|---------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| HOOVER  | SEVEN                    | HOOVR7.LAS               | SIX                                 | 08/17/2017               | 02/25/2021               |
| TYPE:   | OBSTACLE                 | COPTER                   | SID                                 | SPECIAL                  | RNAV                     |
|         | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

DP ROUTE DESCRIPTION:

TAKEOFF RWY 1L, 1R: CLIMB ON HEADING 013.92 TO 2500, THEN CLIMBING RIGHT TURN HEADING 060.00 THENCE...

TAKEOFF RWY 8L, 8R: CLIMB ON HEADING 078.93, THENCE...

TAKEOFF RWY 19L, 19R: CLIMB ON HEADING 193.92, THENCE...

TAKEOFF RWY 26L, 26R: CLIMB ON HEADING 258.95 UNTIL LAS VORTAC 3.00 DME, THEN CLIMBING LEFT TURN HEADING 190.00, THENCE...

...RADAR VECTORS TO TRANSITION OR ASSIGNED ROUTE. MAINTAIN 7000, EXPECT CLEARANCE TO FILED ALTITUDE TWO MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

| TRANSITION NAME | TRANSITION COMPUTER CODE | FROM FIX/NAVAID | TO FIX/NAVAID | COURSE                                     | DISTANCE | MEA   | MOCA  | CROSSING ALTITUDE/FIXES |
|-----------------|--------------------------|-----------------|---------------|--------------------------------------------|----------|-------|-------|-------------------------|
| DOVE CREEK      | HOOVR7.DVC               | GIDGT           | NICLE         | 066.00 (LAS R-066)                         | 49.80    | FL240 | 10000 | GIDGT AT/ABOVE 10000    |
|                 |                          | NICLE           | PGA VOR/DME   | 054.17 (PGA R-234)                         | 93.51    | FL240 | 10900 |                         |
|                 |                          | PGA VOR/DME     | DVC VORTAC    | 052.63 & 053.16<br>(PGA R-053 & DVC R-233) | 131.33   | FL260 | 11700 |                         |
| MILFORD         | HOOVR7.MLF               | RATPK           | MMM VORTAC    | 018.85 (MMM R-199)                         | 29.27    | 10000 | 6700  | RATPK AT/ABOVE 8500     |
|                 |                          | MMM VORTAC      | MLF VORTAC    | 015.93 & 016.70<br>(MMM R-016 & MLF R-197) | 112.82   | 10000 |       |                         |
| DRAKE           | HOOVR7.DRK               | SOOSN           | IGM VOR/DME   | 122.92 (IGM R-303)                         | 30.00    | 10000 | 9200  | SOOSN AT/ABOVE 10000    |
|                 |                          | IGM VOR/DME     | DRK VORTAC    | 099.58 & 281.42<br>(IGM R-100 & DRK R-281) | 79.08    | 17000 | 9700  |                         |
| BAVPE           | HOOVR7.BAVPE             | CHALL           | COWBY         | 080.00 (BLD R-080)                         | 17.00    | 10000 | 8100  | CHALL AT/ABOVE 10000    |
|                 |                          | COWBY           | PGS VOR/DME   | 120.77 (PGS R-301)                         | 25.03    | 10000 | 8000  |                         |
|                 |                          | PGS VOR/DME     | CUTRO         | 075.87 (PGS R-076)                         | 56.82    | FL180 | 9200  | CUTRO AT/ABOVE FL180    |
|                 |                          | CUTRO           | BAVPE         | 076.00 (PGS R-076)                         | 24.62    | FL180 | 10500 |                         |

PROCEDURAL DATA NOTES:

CHART NOTE: RADAR AND DME REQUIRED.

TAKEOFF MINIMUMS:

RWY 1L, 1R: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5200.

RWY 8L, 8R: STANDARD WITH MINIMUM CLIMB OF 440 FT PER NM TO 7000.

RWY 19L, 19R, 26L, 26R: STANDARD WITH MINIMUM CLIMB OF 360 FT PER NM TO 7000.



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|----------------|---------------|-------------------------|--------------------------|--------------|------------------------------|
| HOOVER         | SEVEN         | HOOVR7.LAS              | SIX                      | 08/17/2017   | 02/25/2021                   |

**TAKEOFF OBSTACLES NOTES:**

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

**CONTROLLING OBSTACLES:****RWY 1L, 1R:** 4279 FT MSL AAO 361036.25N/1145954.43W.**RWY 8L, 8R:** 5506 FT MSL AAO 360124.00N/1143709.00W.**RWY 19L, 19R, 26L, 26R:** 5895 FT MSL AAO 355333.91N/1152323.36W.**LOST COMMUNICATIONS PROCEDURES:**

IF NO CONTACT WITH ATC UPON REACHING 7000, PROCEED DIRECT BLD VORTAC THEN CLIMB IN BLD VORTAC HOLDING PATTERN TO APPROPRIATE MEA FOR ROUTE OF FLIGHT.

**ADDITIONAL FLIGHT DATA:****CHART:** TOP ALTITUDE 7000**CHART:** HOLDING AT BLD VORTAC, HOLD SE, RT, 330.00 INBOUND.

REFERENCE MAG VAR: KLAS 11E EPOCH YR: 2020.

**AIRPORTS SERVED:**

| <u>AIRPORT NAME</u> | <u>AIRPORT ID</u> | <u>CITY</u> | <u>STATE</u> |
|---------------------|-------------------|-------------|--------------|
| MC CARRAN INTL      | KLAS              | LAS VEGAS   | NV           |

**COMMUNICATIONS:**

ATIS, CLNC DEL, GND CON, LAS VEGAS TOWER, LAS VEGAS DEP CON

**FIXES AND/OR NAVAIDS:****REMARKS:**

NOISE SCREEN WAS ACCOMPLISHED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS UTILIZING THE ATNS 2.0 PROGRAM.

PUBLISHED CLIMB GRADIENTS/CLIMB-TO ALTITUDES FOR RWY 1L, 1R, 8L, 8R, 19L, 19R, 26L, 26R REQUIRED TO COMPLY WITH MINIMUM VECTORING ALTITUDES

ALL RWYS EVALUATED AS SINGLE SECTOR DEPARTURE USING SECTOR DEPARTURE CRITERIA IN 8260.3D, SECTION 14-3.

**FLIGHT INSPECTED BY**

PENDING

*Digitally signed by***JOHN BORDY**

Jan 12, 2021

**OFFICE****DATE****DEVELOPED BY**

JOHN BORDY (DEAN GRACEY)

*Digitally signed by***RALPH DUMAR**

Jan 12, 2021

**OFFICE****DATE**

AJV-A423

12/05/2019

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by***JOHN BORDY**

Jan 12, 2021

**OFFICE****DATE****TITLE**

AJV-A420

MANAGER

**REQUIRED EFFECTIVE DATE**

02/25/2021

**COORDINATED WITH:****A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLA, ZAB, LAS APP CON, APT MGR**CHANGES - REASONS:**

1. CHANGED DP ROUTE DESCRIPTION RWY 1L/R FROM "CLIMB HEADING 013.92 TO 2500, THEN CLIMBING RIGHT TURN HEADING 050.00" TO "CLIMB ON HEADING 013.92 TO 2500, THEN CLIMBING RIGHT TURN HEADING 060.00 THENCE..." - ATC REQUESTS.

2. CHANGED DP ROUTE DESCRIPTION RWY 8L/R FROM "CLIMB HEADING 078.93, THENCE..." TO CLIMB ON HEADING 078.93, THENCE..." - 8260.46G, 1-1-5 A (3).

3. CHANGED DP ROUTE DESCRIPTION RWY 19L/R FROM "CLIMB HEADING 193.92 UNTIL LAS VORTAC 3.00 DME, THEN CLIMBING RIGHT TURN HEADING 220.00, THENCE..." TO "CLIMB ON HEADING



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|----------------|---------------|-------------------------|--------------------------|--------------|------------------------------|
| HOOVER         | SEVEN         | HOOVR7.LAS              | SIX                      | 08/17/2017   | 02/25/2021                   |

193.92, THENCE..." - 8260.46G, 1-1-5 A (3).

4. CHANGED DP ROUTE DESCRIPTION RWY 26/R FROM "CLIMB HEADING 258.95 UNTIL LAS VORTAC 3.00 DME, THEN CLIMBING LEFT TURN HEADING 190.00, THENCE..." TO "CLIMB ON HEADING 258.95 UNTIL LAS VORTAC 3.00 DME, THEN CLIMBING LEFT TURN HEADING 190.00, THENCE..." - 8260.46G, 1-1-5 A (3).

5. TRANSITIONS: ADDED DOVE CREEK, MILFORD, AND MOSBI TRANSITIONS, REMOVED PEACH SPRINGS TRANSITION - ATC REQUEST.

6. CHANGED DRAKE TRANSITION FROM "COWBY TO PGS VOR/DME TO NAVHO TO DRK VORTAC" TO "NIITZ TO MAFLO TO ROSYY TO KIDDR TO DRK VORTAC"- ATC REQUEST.

7. CHANGED PROCEDURAL DATA NOTE FROM "RADAR AND DME REQUIRED" TO "CHART NOTE RADAR AND DME REQUIRED" - 8260.46G, SECTION 2, 5.

8. CHANGED TAKEOFF MINIMUMS RWY 8L, 8R FROM "STANDARD" TO "STANDARD WITH MINIMUM CLIMB OF 440 FT PER NM TO 7000 AND - ATC REQUEST.

9. CONTROLLING OBSTACLE: ADDED RWY 8L, 8R, 5506 FT MSL AAO 360124.00N/1143709.00W - TARGETS EVALUATION.

10. ADDED TO REMARKS: ALL RWYS EVALUATED AS SINGLE SECTOR DEPARTURE USING SECTOR DEPARTURE CRITERIA -8260.3D, SECTION 14-3

03/20/20: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/05/19

1. REMOVED MOCA VALUES FROM TRANSITION ROUTES - FICO REQUEST.

2. ADDED PROCEDURAL DATA NOTE: MOCA NOT CHARTED - FICO REQUEST.

06/17/20: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/05/19.

1. CHANGED DRAKE TRANSITION ROUTE FROM NIITZ-MAFLO-ROSYY-KIDDR-DRK VORTAC TO MAFLO-NIITZ-LEIKO-FEDBU-ROSYY-KIDDR-DRK VORTAC - TRANSITION REDESIGNED BY ATC/FPT IN RESPONSE TO FLIGHT INSPECTION DISAPPROVAL OF FLAGSTAFF VOR/DME EXTENDED SERVICE VOLUME FOR ORIGINAL INITIAL FIX NIITZ.

2. REMOVED MOSBI TRANSITION - PER FLIGHT INSPECTION INSTRUCTIONS AFTER FAILURE OF FLAGSTAFF VOR/DME EXTENDED SERVICE VOLUME FOR ORIGINAL INITIAL FIX NIITZ.

3. REPLACED MOSBI TRANSITION WITH BAVPE TRANSITION: MAFLO-NIITZ-LEIKO-FEDBU-BAVPE - PER ATC/FPT REDESIGN BASED ON FLIGHT INSPECTION RECOMMENDATIONS.

4. REMOVED BLD VORTAC FROM FIX AND/OR NAVAIDS - BLD VORTAC INCLUDED IN DRAKE AND BAVPE TRANSITION ROUTE DESCRIPTIONS.

12/08/20: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/05/19.

1. CHANGED DRAKE TRANSITION ROUTE FROM MAFLO-NIITZ-LEIKO-FEDBU-ROSYY-KIDDR-DRK VORTAC TO SOOSN-IGM VOR/DME-DRK VORTAC - TRANSITION REDESIGNED BY ATC/FPT IN RESPONSE TO FLIGHT INSPECTION DISAPPROVAL OF PREVIOUS ROUTE.

2. CHANGED BAVPE TRANSITION: MAFLO-NIITZ-LEIKO-FEDBU-BAVPE TO CHALL-COWBY-PGS VOR/DME-CUTRO-BAVPE - TRANSITION REDESIGNED BY ATC/FPT IN RESPONSE TO FLIGHT INSPECTION DISAPPROVAL OF PREVIOUS ROUTE.

01/04/2021: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/05/19:

1. ADDED "02/25/2021" TO ACTUAL EFFECTIVE DATE ON PAGES 1, 2, AND 3.

2. ON PAGE 2, CHANGED REQUIRED EFFECTIVE FROM "ROUTINE" TO "02/25/21".

01/12/20: THIS IS AN CORRECTED COPY OF THE FORM APPROVED ON 01/04/21.

1. ADDED MINIMUM OBSTACLE CLEARANCE ALTITUDES (MOCA) TO ALL TRANSITION ROUTES - REQUIRED IAW 8260.46G APPENDIX E SECTION 2 PARA. 4H.

2. REMOVED PROCEDURAL DATA NOTE 'MOCA NOT CHARTED.'

