

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

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.

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
TONOPAH, NV	TONOPAH	17 AUGUST 2017	2

TAKEOFF MINIMUMS:

RWY 11, 29: N/A - ATC.

RWY 15: STANDARD WITH A MINIMUM CLIMB OF 320 FT PER NM TO 9100 OR 2500-3 FOR VCOA.

RWY 33: STANDARD WITH A MINIMUM CLIMB OF 352 FT PER NM TO 9100 OR 2500-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 15: CLIMBING LEFT TURN DIRECT TONOPAH (TPH) VORTAC THENCE...

RWY 33: CLIMBING RIGHT TURN DIRECT TONOPAH (TPH) VORTAC THENCE...

...CONTINUE CLIMB IN TPH HOLDING PATTERN (NE, RT, 246.00 INBOUND) TO CROSS TPH VORTAC AT OR ABOVE 9300 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 15, 33: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TONOPAH AIRPORT AT OR ABOVE 7800 DIRECT TONOPAH VORTAC, CONTINUE CLIMB IN TPH HOLDING PATTERN (NE, RT, 246.00 INBOUND) TO CROSS TPH VORTAC AT OR ABOVE 9300 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 15, TRANSMISSION LINE TOWER 515 FT FROM DER, 473 FT LEFT OF CENTERLINE, 23 FT AGL/5418 FT MSL.

NOTE: RWY 33, FENCE BEGINNING 173 FT FROM DER, 401 FT RIGHT OF CENTERLINE, 6 FT AGL/5438 FT MSL.

CONTROLLING OBSTACLES:

RWY 15: 8179 FT MSL AAO 381035.61N-1165552.08W.

RWY 33: 7284 FT MSL AAO 381016.96N-1170138.46W.

VCOA: 8179 FT MSL AAO 381035.61N-1165552.08W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: **RWY 15, 33:** 9108 FT MSL SPOT ELEVATION 380137.78N-1172934.30W.



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TONOPAH, NV	TONOPAH	17 AUGUST 2017	2

REMARKS:

FLIGHT INSPECTED BY:

THOMAS E. MOLOKIE

*Digitally signed by
JACOB POWERS
Apr 04, 2017*

OFFICE SYMBOL:

FICO

DATE:

03/28/2017

DEVELOPED BY:

ALAN WILL (IVAN BLANCO)

*Digitally signed by
JACOB POWERS
Apr 04, 2017*

OFFICE SYMBOL:

AJV-5432

DATE:

06/23/2016

APPROVED BY:

LONNIE EVERHART

*Digitally signed by
JACOB POWERS
Apr 04, 2017*

OFFICE SYMBOL:

AJV -5430

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA



OTHER:

ZLC, NELLIS APP CON, AMGR

CHANGES - REASONS:

1. REMOVED 2600-2 CEILING AND VISIBILITY MITIGATION FROM TAKEOFF MINS - EVALUTION SHOWED NO OBSTACLES MEET CRITERIA FOR APPLICATION OF THIS OPTION.
2. CHANGED RWY 15, 33 TAKEOFF MINS FROM 2600-2 OR STANDARD WITH A MIN CLIMB OF 260 FT PER NM TO 8000 TO **RWY 15:** STANDARD WITH A MIN CLIMB OF 320 FT PER NM TO 9100 OR 2400-3 FOR VCOA. **RWY 33:** STANDARD WITH A MIN CLIMB OF 352 FT PER NM TO 9100 OR 2400-3 FOR VCOA - APPLICATION OF AAO CRITERIA PRODUCED NEW CONTROLLING OBSTACLES.
3. CHANGED CLIMB IN HOLD FROM ...CROSS TPH VORTAC AT OR ABOVE 8000 TO ...CROSS TPH VORTAC AT OR ABOVE 9300 - APPLICATION OF AAO CRITERIA AND PR ADJUSTMENT PRODUCED NEW MIN HOLDING ALTITUDE.
4. ADDED VCOA OPTION TO PROCEDURE - REQUIRED BY CURRENT CRITERIA.
5. ADDED TAKEOFF OBSTACLE NOTES TO RWY 15, 33 - DATABASE MODIFICATION.
6. ADDED OBSTACLE MANDATING ODP ROUTE DEVELOPMENT - REQUIRED BY CURRENT CRITERIA.
7. RECREATED MAPS - NO MAPS WERE ARCHIVED.

12/12/16: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/01/16.

1. RWY 15 TAKEOFF MINIMUMS CLIMB TO ALTITUDE CHANGED FROM 9200 TO 9100.
2. RWY 33 TAKEOFF MINIMUMS CLIMB TO ALTITUDE CHANGED FROM 9200 TO 9100.
3. VCOA ALTITUDE TO CROSS TPH VORTAC CHANGED FROM 9200 TO 9300.

3/20/17: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/01/16 AND UPDATED ON 12/12/16.

1. CHANGED VCA CLIMB-TO ALTITUDE FROM 7700 TO 7800 DUE TO APPLICATION OF PRECIPITOUS TERRAIN ADJUSTMENT PER AFS.
2. CHANGED VCOA MINIMUMS FROM 2400/3 TO 2500/3 DUE TO PR ADJUSTMENT.

06/13/2017: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 04/04/2017.

ADDED "NV" TO CITY/STATE.

QUALITY
4
CHECKED