

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation 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.
TOWANDA, PA	BRADFORD COUNTY		2

TAKEOFF MINIMUMS:

RWY 5 800-2 WITH MINIMUM CLIMB OF 333 FT PER NM TO 2000, OR STANDARD WITH MINIMUM CLIMB OF 461 FT PER NM TO 2000, OR 2000-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 23 STANDARD WITH MINIMUM CLIMB OF 685 FT PER NM TO 2800, OR 2000-3 FOR CLIMB IN VISUAL CONDITIONS.

TEXTUAL DEPARTURE PROCEDURES:

RWY 5 – CLIMB HEADING 047.03 TO 2000 BEFORE PROCEEDING ON COURSE OR FOR CLIMB IN VISUAL CONDITIONS: CROSS BRADFORD COUNTY AIRPORT AT OR ABOVE 2600 BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE.

RWY 23 – CLIMB HEADING 227.04 TO 2000 BEFORE PROCEEDING ON COURSE OR FOR CLIMB IN VISUAL CONDITIONS: CROSS BRADFORD COUNTY AIRPORT AT OR ABOVE 2600 BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 5, POLE AND TREES BEGINNING 4 FT FROM DER, 267 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/859 FT MSL. GRAIN BIN/SILO AND TREES BEGINNING 131 FT FROM DER, 475 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/823 FT MSL.

NOTE: RWY 23, TREES BEGINNING 1069 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1159 FT MSL. NAVAID 14 FT FROM DER, 113 FT RIGHT OF CENTERLINE, 12 FT AGL/731 FT MSL. TREES BEGINNING 3206 FT FROM DER, 44 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1287 FT MSL.

CONTROLLING OBSTACLES:

RWY 5: 1319 FT MSL TREES 414621.49N/0762551.12W. 1439 FT MSL TREES 414708.70N/0762433.60W.

RWY 23: 2286 FT MSL TOWER 414104.44N/0762901.12W.

RWY 5/23 (VCOA): 2286 FT MSL TOWER 414104.44N/0762901.12W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 05 - 1659 FT MSL AAO 414946.64N/0762410.48W.

RWY 23 - 2286 FT MSL TOWER 414104.44N/0762901.12W.



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REMARKS:

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

KHALED M SALEM AJV-352 12/15/11

APPROVED BY:

DARRYEL ADAMS AJV-352

COORDINATED WITH:

AOPA, NBAA, ZNY, BGM APP CON, AMGR

CHANGES:

1. RWY 5 TAKEOFF MINIMUMS AMENDED FROM 900-2 OR STANDARD WITH MINIMUM CLIMB OF 380 FT PER NM TO 2000, TO 800-2 WITH A MINIMUM CLIMB OF 333 FT PER NM TO 2000, OR STANDARD WITH A MINIMUM CLIMB OF 461 FT PER NM TO 2000.
2. RWY 23 TAKEOFF MINIMUMS AMENDED FROM 1600-2 OR STANDARD WITH MINIMUM CLIMB OF 580 FT PER NM TO 2800, TO STANDARD WITH A MINIMUM CLIMB OF 685 FT PER NM TO 2800, OR 1900-3 FOR CLIMB IN VISUAL CONDITIONS.
3. RWY 5 DEPARTURE PROCEDURE AMENDED TO READ CLIMB HEADING 047.03 TO 2000 BEFORE TURNING OR FOR CLIMB IN VISUAL CONDITIONS: CROSS BRADFORD COUNTY AIRPORT AT OR ABOVE 2600 BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE.
4. RWY 23 DEPARTURE PROCEDURE AMENDED TO READ CLIMB HEADING 227.04 TO 2000 BEFORE TURNING ON COURSE OR FOR CLIMB IN VISUAL CONDITIONS: CROSS BRADFORD COUNTY AIRPORT AT OR ABOVE 2600 BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE.

REASONS:

- 1, 2. NEW OBSTACLE STUDY.
- 3, 4. DEPARTURE INSTRUCTIONS FORMATTED IAW FAAO 8260.46.





Federal Aviation Administration

Memorandum

Date:

To: Manager, Flight Procedure Standards

From: Gregory Yamamoto
Manager, Terminal Products Group

Subject: **ACTION:** Approval Request

BRADFORD COUNTY DEPARTURE, Takeoff Rwy 23
Bradford County, Towanda, PA (KN27).

Climb gradient exceeds 500 feet per NM, 8260.46D, paragraph 2-1d(2).

There are 22 surveyed obstacles in the ICA extended area that require a climb gradient in excess of 500 ft per NM. The controlling obstacle is a 2286 MSL Tower that requires a 685 foot per NM climb gradient to 2800. Because of the location of the obstacles, a departure route to avoid them can't be constructed.

Rwy 5/23 is 4300 feet long. The airport is not a FAR Part 139 certified. FAA Form 5010 for the airport lists 27 single engine, 2 multi-engine, and 0 jet aircraft based there.

Request approval to publish the following minimums: Standard with minimum climb of 685 feet per NM to 2800.

If disapproved, recommend publishing a VCOA.

Attachments