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.
NORWICH, NY	LT WARREN EATON		3

TAKEOFF MINIMUMS:

RWY 1, STANDARD WITH MINIMUM CLIMB OF 555 FT PER NM TO 2000 OR 800- 2 ¼ WITH MINIMUM CLIMB OF 325 TO 2300 OR 1600-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 19, 700- 2 ½ WITH MINIMUM CLIMB OF 325 FT PER NM TO 2100 OR 1600-3 FOR CLIMB IN VISUAL CONDITIONS.

TEXTUAL DEPARTURE PROCEDURES:

RWY 1- CLIMB HEADING 013.59 TO 2500 BEFORE PROCEEDING ON COURSE OR FOR CLIMB IN VISUAL CONDITIONS CROSS LT WARREN EATON AIRPORT AT OR ABOVE 2500 BEFORE PROCEEDING ON COURSE.

RWY 19 - CLIMB HEADING 193.58 TO 2500 BEFORE PROCEEDING ON COURSE OR FOR CLIMB IN VISUAL CONDITIONS CROSS LT WARREN EATON AIRPORT AT OR ABOVE 2500 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE RWY 1: VEHICLES ON ROADWAY ABEAM DER, 113 FT LEFT OF CENTERLINE, UP TO 15 FT AGL / 1024 FT MSL. TREES BEGINNING 364 FT FROM DER, 520 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL / 1759 FT MSL. TREES BEGINNING 1352 FT FROM DER, 312 FT LEFT OF CENTERLINE, UP TO 100 FT AGL / 1139 FT MSL.

NOTE RWY 19: TREES BEGINNING 35 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 100 FT AGL / 1119 FT MSL. TREES BEGINNING 1057 FT FROM DER, 569 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL / 1679 FT MSL.

CONTROLLING OBSTACLES:

RWY 1: 1759 FT MSL TREE 423604.65N/0753041.85W, 1959 FT AAO 423810.05N/0753107.08W.
RWY 19: 1619 FT MSL TREE 423109.59N/0753204.08W, 1959 FT AAO 422924.72N/0753051.78W, 1679 FT MSL TREE 423132.07N/0752316.69W.

VCOA: 2179 FT MSL AAO 423251.62N/0752705.40W, 2251 FT MSL TOWER 423440.70N/0752549.60W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 1,19 - 2179 FT MSL AAO 423251.62N/0752705.40W

QUALITY CHECKED

REMARKS:

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.
NORWICH, NY	LT WARREN EATON		3

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

DONALD SMITH (AISHAT NAUZO) AJV-352 06/03/2011

APPROVED BY:

DARRYEL ADAMS AJV-352

COORDINATED WITH:

ALPA, AOPA, NBAA, ZBW, AMGR

CHANGES:

1. CHANGED RWY 1 TAKEOFF MINIMUMS FROM 700-2 OR STANDARD WITH A MINIMUM CLIMB OF 400 FT PER NM TO 1900 TO STANDARD WITH MINIMUM CLIMB OF 555 FT PER NM TO 2000 OR 800- 2 ¼ WITH MINIMUM CLIMB OF 325 TO 2300 OR 1600-3 FOR CLIMB IN VISUAL CONDITIONS.
2. CHANGED RWY 19 TAKEOFF MINIMUMS FROM 700-2 OR STANDARD WITH A MINIMUM CLIMB OF 400 FT PER NM TO 1900 TO 700- 2 ½ WITH MINIMUM CLIMB OF 325 FT PER NM TO 2100 OR 1600-3 FOR CLIMB IN VISUAL CONDITIONS.
3. CHANGED RWY 1 DEPARTURE PROCEDURE FROM CLIMB RUNWAY HEADING TO 2500 BEFORE PROCEEDING ON COURSE TO CLIMB HEADING 013.59 TO 2500 BEFORE PROCEEDING ON COURSE OR FOR CLIMB IN VISUAL CONDITIONS CROSS LT WARREN EATON AIRPORT AT OR ABOVE 2500 BEFORE PROCEEDING ON COURSE.
4. CHANGED RWY 19 DEPARTURE PROCEDURE FROM CLIMB RUNWAY HEADING TO 2500 BEFORE PROCEEDING ON COURSE TO CLIMB HEADING 193.58 TO 2500 BEFORE PROCEEDING ON COURSE OR FOR CLIMB IN VISUAL CONDITIONS CROSS LT WARREN EATON AIRPORT AT OR ABOVE 2500 BEFORE PROCEEDING ON COURSE.
5. UPDATED TAKEOFF OBSTACLE NOTES.
6. UPDATED CONTROLLING OBSTACLES.

REASONS:

1,2 8260.3B, VOLUME 4, PAR 1.4.1 AND PAR 1.4.2 TO COMPLY WITH OBSTACLE CLEARANCE REQUIREMENTS.
3,4 8260.3B, VOLUME 4, PAR 1.4.1 AND PAR 1.4.2 TO COMPLY WITH OBSTACLE CLEARANCE REQUIREMENTS.
5 IAPA/ MAP STUDY AND PER 8260.46D APPENDIX D SECTION 1, PAR 8.
6 IAPA/ MAP STUDY AND PER 8260.46D APPENDIX D SECTION 1, PAR 9.

QUALITY CHECKED

Federal Aviation Administration

Memorandum

Date:

To: Leslie H. Smith, Manager, Flight Technologies and Procedures Division
THRU: Stacey L. Zinke-McKee, Manager, Flight Procedure Implementation & Oversight Branch

From: Wade EK Terrell Lead, Production Integration Coordination Team, AJV-34

Reply To Attn Of: Wade EK Terrell
(405) 954-7370
FAX (405) 954-1301

Subject: **ACTION:** Approval Request

TAKEOFF MINIMUMS ODP RWY 1, LT Warren Eaton, Norwich, NY (KOIC)

Climb gradient exceeds 500 feet per NM, 8260.46c, Para. 10e(2).

The computed climb gradient is 555 feet per NM to an altitude 977 feet above airport elevation. The obstacle driving this climb gradient is a 1759 MSL TREE (100' worst case vegetation obstacle), located 10,778 ft from RWY 1 DER.

Request approval to publish a minimum climb gradient of 555 feet per NM to 2000.

Adverse assumption obstacles were applied on terrain making it impossible to design a departure procedure to avoid all possible penetrations because there is no adequate obstacle survey for departures from this runway.

Please respond as soon as possible.