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Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
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Aeronautical Study No.
2021-AGL-10816-OE

Issued Date: 08/12/2021

Edwin Porter
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**** PUBLIC NOTICE ****

The Federal Aviation Administration is conducting an aeronautical study concerning the following:

| | |
|------------|---|
| Structure: | Water Tank City of Hamilton Enterprise Park Water Tank |
| Location: | Hamilton, OH |
| Latitude: | 39-22-31.81N NAD 83 |
| Longitude: | 84-30-27.18W |
| Heights: | 730 feet site elevation (SE) 200 feet above ground level (AGL) 930 feet above mean sea level (AMSL) |

The structure above exceeds obstruction standards. To determine its effect upon the safe and efficient use of navigable airspace by aircraft and on the operation of air navigation facilities, the FAA is conducting an aeronautical study under the provisions of 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77.

**** SEE REVERSE SIDE FOR ADDITIONAL INFORMATION ****

In the study, consideration will be given to all facts relevant to the effect of the structure on existing and planned airspace use, air navigation facilities, airports, aircraft operations, procedures and minimum flight altitudes, and the air traffic control system.

Interested persons are invited to participate in the aeronautical study by submitting comments to the above FAA address or through the electronic notification system. To be eligible for consideration, comments must be relevant to the effect the structure would have on aviation, must provide sufficient detail to permit a clear understanding, must contain the aeronautical study number printed in the upper right hand corner of this notice, and must be received on or before 09/18/2021.

This notice may be reproduced and circulated by any interested person. Airport managers are encouraged to post this notice.

If we can be of further assistance, please contact our office at (817) 222-5933, or andrew.hollie@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2021-AGL-10816-OE.

Signature Control No: 478214083-491207284

(CIR)

Andrew Hollie
Specialist

Attachment(s)

Part 77

Additional Information

Case Description

Map(s)

Additional Information for ASN 2021-AGL-10816-OE

Proposal: To construct and/or operate a(n) Water Tank to a height of 240 feet above ground level, 970 feet above mean sea level.

Location: The structure will be located 0.97 nautical miles northeast of HAO Airport reference point.

Part 77 Obstruction Standard(s) Exceeded:

Section 77.17 (a) (5) a height that affects an Airport Surface by penetrating:

Section 77.19 (a) Horizontal Surface by 147 feet as applied to HAO.

Preliminary FAA study indicates that the above mentioned structure would:

have no effect on any existing or proposed arrival, departure, or en route instrument flight rules (IFR) operations or procedures.

have no effect on any existing or proposed arrival, departure, or en route visual flight rules (VFR) operations.

have no effect on any existing or proposed arrival, departure, or en route instrument/visual flight rules (IFR/VFR) minimum flight altitudes.

have no physical or electromagnetic effect on the operation of air navigation and communications facilities.

have no effect on any airspace and routes used by the military.

Additional information for ASN 2021-AGL-10816-OE

Abbreviations

AGL = Above Ground Level

RWY = Runway

MSL = Mean Sea Level

NM = Nautical Mile

TPA = Traffic Pattern Airspace

ILS = Instrument Landing System

LOC = Localizer

RNAV = Area Navigation

GPS = Global Positioning System

CAT = Approach Category of Aircraft

MDA = Minimum Descent Altitude

DA = Decision Altitude

Part 77 = Title 14 CFR Part 77, Safe, Efficient Use and Preservation of the Navigable Airspace

Our study has disclosed that this proposed water tower, located approximately .97 nm northeast of the airport reference point or 4,738 direct distance from proposed runway end RWY 25, is within the protected surfaces at Butler County Regional / Hogan Field Airport (HAO), Hamilton, OH.

At the proposed height, this structure will penetrate these protected airport surfaces:

> 77.17 (a)(3) A height within a terminal obstacle clearance area, including an initial approach segment, a departure area, and a circling approach area, which would result in the vertical distance between any point on the object and an established minimum instrument flight altitude within that area or segment to be less than the required obstacle clearance.

At 930 AMSL 4D, Butler County Rgnl-Hogan Field (HAO) Hamilton, OH. ILS or LOC RWY 29 ARTHN FIX MINIMUMS, RNAV (GPS) RWY 11, RNAV (GPS) RWY 29 increase CATS A/B CIRCLING MDA from 1160/1260 to 1280 NEH 857 AMSL. Exceeds by 73 feet.

**Note: Aircraft categories are based on approach speed, CAT A = less than 91 knots, CAT B = 91- 120 knots, CAT C = 121-140 knots, CAT D = 141-165 knots, CAT E = 165 + knots.

**The MDA / DA is the minimum altitudes to which an aircraft may descend while on the instrument approach to the airport during periods when reduced visibility and/or low cloud ceiling conditions exist. If the pilot cannot achieve visual reference to the ground upon reaching the MDA / DA, the approach must be abandoned. This results in the aircraft having to proceed to an alternate airport or waiting in a holding pattern for improved weather conditions. Any increase in the MDA / DA would have a significant adverse effect on the benefits derived from the instrument procedures.

> 77.17 (a)(5) The surface of a takeoff and landing area of an airport or any imaginary surface established under 77.19, 77.21, or 77.23.

77.19 (a) Horizontal surface. A horizontal plane 150 feet above the established airport elevation. Exceeds by 147 feet.

> The proposed structure would lie within the TPA, exceeding the horizontal area 147 feet.

Case Description for ASN 2021-AGL-10816-OE

The purpose of this construction project is to provide adequate water supply and pressure for fire safety in the enterprise park region.



