

UDDF Creator Application V3.10

OVERVIEW

The UDDF (Universal Data Delivery Format) Creator application was created as a means of standardizing the input of airport survey information and as a vehicle for presenting the data to the Federal Aviation Administration (FAA). Designed to capture airport, runway, obstruction, and navigation aid information, the UDDF Creator provides the interface for the surveyor to enter data and create a UDDF file for each airport. In turn, the UDDF file will be electronically sent to the National Geological Survey (NGS) for data validation. If the validation routine detects critical input errors, the survey will be sent back to the party who entered the data. If the UDDF file passes validation, the survey will be electronically sent to the FAA where the National Flight Data Center (NFDC) airport specialists will review the data and enter it into the appropriate databases.

UDDF files are a NGS (National Geological Survey) file format standard. To learn more about them, visit http://www.ngs.noaa.gov/AERO/annof_7.htm.

DOWNLOADING THE APPLICATION

There are two different methods for downloading the UDDF Creator. For first time users (those who do NOT have the UDDF Creator on their computer), you must first visit the website <https://tpss.faa.gov/etpss/userMgmt/loginForm.jsp>. After logging into the site, you will select the link for the UDDF creator download (FIRST TIME USERS - [Entire Framework](#)). After loading the zip file to your computer, unzip the file and run the *setup.exe* file. This will install the application onto your desktop. To run the application, navigate to the desktop **Start Button**, then the **Programs** Menu and select **Airport Survey**.

For those who have already loaded the UDDF Creator but merely want the latest version, select (CURRENT USERS - [.exe Download Only](#)). This file (survey.exe) must then be copied to the directory where the application was originally installed. Usually this is *c:\program files\airport_survey*.

Note: If you have already loaded the UDDF Creator and created some surveys, re-installing the entire application (zip file) will remove your existing surveys. However, downloading the most current version (survey.exe) maintains your existing surveys.

GETTING STARTED

To initiate the program, select **Airport Survey** from your **Start** button – this brings up the form shown in Figure 1.

Figure 1: Startup Screen

Current and Completed Surveys

File Help

List of Surveys | Current Airport

SURVEYS CONDUCTED

Apt ID	Site No	Airport Name	Survey Date	Status	Survey Type
SER	05643.A	FREEMAN MUNICIPAL AIRPORT	08/12/2005	CERTIFIED	ANAPC
EDE	16689.A	NORTHEASTERN REGIONAL AIRPORT	08/27/2005	CERTIFIED	ANAPC
GKY	23352.1A	ARLINGTON MUNICIPAL AIRPORT1	09/15/2005	CERTIFIED	ANAPC
BFF	12915.A	WESTERN NEB. RGNL WILLIAM B. HEIL	09/14/2005	CERTIFIED	ANAPC
OV2	02719.A	HARRIET ALEXANDER FIELD	09/07/2004	CERTIFIED	AOC
DLS	19614.A	COLUMBIA GORGE REGIONAL/THE DA	08/18/2005	CERTIFIED	ANAPC
MVI	02690.1A	MONTE VISTA MUNICIPAL AIRPORT	10/10/2004	CERTIFIED	AOC
6V6	02696.A	NUCLA HOPKINS FIELD	10/18/2004	CERTIFIED	AOC
3V4	02612.A	FORT MORGAN MUNICIPAL AIRPORT	04/01/2004	CERTIFIED	AOC
LIC	02665.1A	LIMON MUNICIPAL AIRPORT	03/29/2004	CERTIFIED	AOC
RRR			03/21/2006	CERTIFIED	SPECIAL

New
Edit
Delete
Import UDDF
Create UDDF

Version 3.7

STARTUP SCREEN

The startup screen (Figure 1) is used to add new surveys, to modify existing surveys, to import existing UDDF files, and to create UDDF Files. It also serves as a log of all surveys entered on your computer. The status will be either “NEW” or “CERTIFIED.” A status of “CERTIFIED” indicates that the surveyor has reviewed the data and no further changes can occur.

CREATING A NEW SURVEY

From the main screen, choose . This will take you to the Survey Type Screen (Figure 2). You must define the type of survey you have been asked to perform. After selecting one of the options and clicking , you will be taken to the main Airport Screen (Figure 5) where you will begin entering data.

Figure 2: Identifying the Survey Type

Survey Type

Please Choose Survey Type

☒ AOC - Airport Obstruction Chart Survey

☐ ANAPC - Area Navigation Approach Survey

☐ ANALPV Survey

☐ Combined AOC / ANAPC Survey

☐ NAVAID Survey

☐ Runway Survey

☐ Runway End Survey

☐ Special Survey

Submit

Depending on which survey type you choose, a filename extension will be assigned to your output UDDF file. This will be discussed later.

EDITING A SURVEY

From the main screen, click on the appropriate survey (it will be highlighted in yellow when selected). Then choose **Edit**. This will open the airport screen for the surveyor to begin editing data. All previously entered airport data will pre-fill this screen. **Note: the airport identifier field cannot be edited.**

DELETING A SURVEY

From the main screen, click on the appropriate survey (it will be highlighted in yellow when selected). Then choose **Delete**. This will delete the entire survey for that airport from your computer. However, when you exit the program and if you decide not to save the changes, the survey for that airport will re-appear in the future. **Note: It is recommended that you delete surveys periodically to increase performance of the UDDF Creator. You will notice that there is a correlation between the length of time needed to create a UDDF file and the number of surveys on your computer. Also, if you delete a survey but later have a need for it, you can always import the UDDF file (see below) to get it back.**

IMPORTING A UDDF FILE


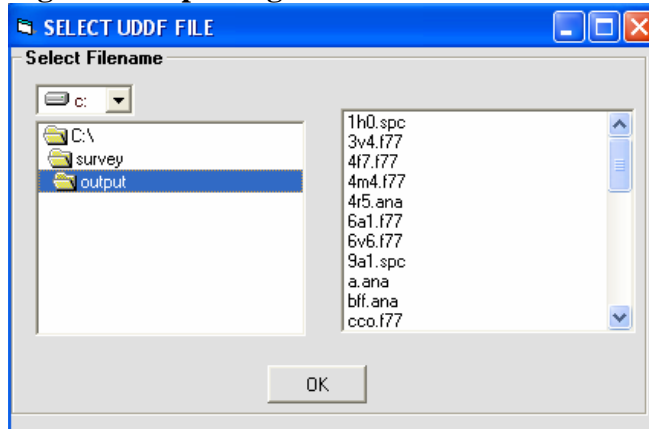

From the main menu, choose . This will open a path, directory, and filename listing for the user to select the appropriate UDDF file. First, choose the drive (top left box), then the directory (bottom left box), and then the filename (right box) of the UDDF file. After hitting the **OK** button, the program will import the UDDF file into your Creator Application. The file must be UDDF Version 1.07.

Figure 3: Importing a UDDF File

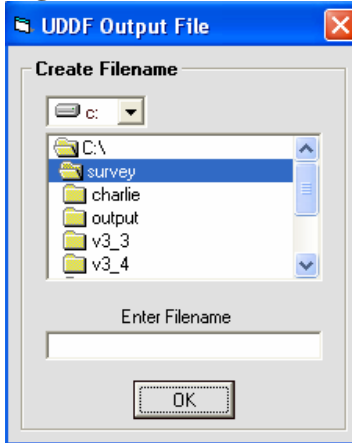


CREATING A UDDF FILE

From the main menu, choose . This will open a path and directory listing for the user to enter a file name (Figure 4). First, choose the drive (top box), then the directory (middle box), then enter a filename (lower box). After hitting the **OK** button, the program will generate a UDDF file. Remember this path and filename because the UDDF file will eventually be sent to the FAA. An extension will automatically be provided based upon survey type:

- AOC - .f77
- ANAPC - .ana
- ANALPV - .lpv
- Combined AOC / ANAPC - .cmb
- NAVAID - .nob
- Runway - .nob
- Runway End - .nob
- Special - .spc

Figure 4: Create UDDF Output File



AIRPORT SCREEN

The airport screen (Figure 5) is used to add or edit basic airport information and is subdivided into two sections. The top section is used to enter general airport information and is subdivided into GENERAL INFORMATION and AIRPORT REFERENCE POINT. Anytime information is added or edited from either of these sections, the user must select to save changes. The bottom section serves as the interface for entering, editing, or deleting runways, NAVAIDS, and obstructions.

Note: By placing the cursor over the field descriptors, you will receive feedback regarding what is expected for that field. For example, by placing your cursor over “Airport Elevation Location” on the Airport Screen, you will see the message “LOCATION OF AIRPORT ELEVATION IN FEET FROM THE INDICATED RUNWAY END. FOR EXAMPLE, 30 + 1500 = 1500 FEET FROM THE APPROACH END OF RUNWAY 30.”

After you have finished entering the data, you must click . This will take you to the Certification screen (Figure 6) whereby you acknowledge that the survey meets or exceeds the Informational Resolution requirements of FAA No. 405. Then you enter your name and license number.

Figure 5: Airport Screen

Part A: Airport Information
File Help
List of Surveys Current Airport

GENERAL INFORMATION (Required Fields in Yellow)

Airport Name **FOND DU LAC COUNTY AIRPORT**
FAA Site Number (ex. 03407.A) **27200.*A** City **FOND DU LAC**
Airport Identifier **FLD** State **WI**
FAA Region **AGL** *Click to expand*
Survey Date mm/dd/yyyy **08/17/2006**

AIRPORT REFERENCE POINT
Positions and ellipsoidal heights shall be referenced to NAD83.

Existing Latitude (dd mm ss.s)	Deg	Min	Sec	<input checked="" type="radio"/> N <input type="radio"/> S	Horizontal Datum	NAVD83
43	46	16.2	<input checked="" type="radio"/> W <input type="radio"/> E	Tie Accuracy	5 CM	
Existing Longitude (ddd mm ss.s)					Ellipsoidal Elevation	15 CM
088	29	18.3			Tie Accuracy	25 CM
Airport Elevation (00000.0)	Orthometric	Ellipsoidal			Orthometric Elevation	25 CM
808.0	Ft	Ft			Tie Accuracy	25 CM
Control Tower Floor Elevation	Ft	Ft			Vertical Datum	NAVD83
Airport Elevation Location					LCLTDL (Local Tidal)	
Magnetic Declination (00.0)	1.2				MSL	

AIRPORT RUNWAYS / NAVAIDS / OBSTRUCTIONS

Part B: Runways
Part C: NAVAIDS
Part D: Obstructions

Runway ID	New	Navaid Description	New	Obstruction Type	New
18 / 36	Edit		Edit	HANGAR (18) 43-46-26.3	Edit
9 / 27	Delete		Delete	HANGAR (18) 43-46-28.3	Edit
				BUILDING (18) 43-46-49.	Delete
				BUILDING (18) 43-46-58.	
				BUSINESS SIGN (18) 43-	
				BUILDING (18) 43-47-02.	

Figure 6: Certification Screen

Survey Certification

CERTIFICATION

NOTE: The registered surveyor must certify that the information submitted herein meets or exceeds the informational Resolution requirements of FAA No. 405 "Standard for Aeronautical Surveys and Related Products." The surveyor is not certifying that this information submitted constitutes a full FAA No. 405 survey. The surveyor shall apply their official seal to the completed form. The form shall be signed and dated in ink across the applied seal. Complying with standards in this document will meet FAA No. 405 requirements.

I hereby certify that the information provided herein above has been Compiled from accurate field surveys conducted under my direct supervision and that said information meets or exceeds the minimum Resolution requirements of FAA No. 405. "Standards for Aeronautical Surveys and Related Products" (including Change 1, effective April 15, 1998) by complying with prescribed Resolutions and accuracies specified in this document.

Surveyor's Name Surveyor's License Number

Additional Comments

Cancel Submit

EDE: NORTHEASTERN REGIONAL AIRPORT

ADDING A NEW RUNWAY




To add new runway data to the current survey, locate **Part B: Runways** on the lower left section of the main airport screen and select  from the section of the form. This will open the runway screen (Figure 7). The form was designed to view both ends of the runway on the same input screen. After the surveyor is done entering data for this runway, select  to save the information. It is required that the Runway ID field is completed for each runway end.

Figure 7: Runway Screen

Part B: Runway Information											
File Help											
List of Surveys Current Airport											
RUNWAY DATA											
Survey Date mm/dd/yyyy 08/27/2005											
Runway Dimensions		Surveyed Length 6000 Ft		Width 100 Ft		Surface P - Paved Hard Surface U - Unpaved Surface N - Not a specially prepared surface					
Runway Designation ?		Rwy ID 19		Blast Pad Yes No Not Verified		Opp. Rwy 1		Blast Pad Yes No Not Verified			
Runway Geodetic Azimuth (ddmmss)		1795436				3595436					
Runway End Coordinates (ddd mm ss.ssss)		Latitude 36 02 12.6100 N		36 01 13.2700 N		Longitude 076 34 11.2300 W		076 34 11.1100 W			
Runway End Elevation (00000.0)		Orthometric 18.8 Ft		Ellipsoidal -101.7 Ft		Orthometric 18.4 Ft		Ellipsoidal -102.2 Ft			
Touchdown Zone Elevation (00000.0)		20.0 Ft				20.0 Ft					
Displaced Threshold Coordinates		Latitude <input type="text"/> <input type="text"/> <input type="text"/> N		<input type="text"/> <input type="text"/> <input type="text"/> N		Longitude <input type="text"/> <input type="text"/> <input type="text"/> W		<input type="text"/> <input type="text"/> <input type="text"/> W			
Displaced Threshold Length (0000000)		<input type="text"/> Ft		<input type="text"/> Ft		<input type="text"/> Ft		<input type="text"/> Ft			
Displaced Threshold Elevation (00000.0)		Orthometric <input type="text"/> Ft		Ellipsoidal <input type="text"/> Ft		Orthometric <input type="text"/> Ft		Ellipsoidal <input type="text"/> Ft			
Additional Profile Points						Additional Profile Points					
Positions and ellipsoidal heights shall be referenced to NAD83.											
Cancel				Save				Save and Return			
EDE: NORTHEASTERN REGIONAL AIRPORT											

EDITING A RUNWAY

If the surveyor has already entered runway information for the current airport and wishes to edit this data, select the appropriate runway from the list of runways on the Airport Screen (the selected runway will be highlighted in yellow). Then choose  from the **Part B: Runways** section of the form. This will open the runway screen for the

surveyor to begin editing data. All previously entered runway data for this record will pre-fill this screen. **Note: the runway designation field cannot be edited.**

ADDIING ADDITIONAL PROFILE POINTS

On the runway screen, there is an option to add additional profile points ^{Additional Profile Points}. These are points along the runway that are identified by reporting their elevation and distance from the selected runway end (Figure 8). Though the threshold and displaced thresholds are reflected on the UDDF file in the Profile Points section, the user should NOT enter these values as additional profile points (this data is captured in the main runway screen). Also, if a profile point is created from one runway end, the user should NOT enter the corresponding reference point from the opposite runway end (the application will calculate this and populate the UDDF file). For example, if a user enters a profile point 100 feet from runway 3L and runway 3L / 21R is 5000 feet, the user should NOT enter a profile point 4900 feet from runway 21R.

Figure 8: Additional Profile Points Screen

Part B: Runway Information

File Help

List of Surveys Current Airport Current Runway

RUNWAY DATA (Profile Points)

Runway Profile Point Distance from Runway Approach End Ft

Runway Profile Point Elevation Ft Ft

Orthometric Ellipsoidal

Runway	Distance	Orth Elv	Ellip Elv
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Add


Delete

Orthometric heights (MSL elevations) shall be referenced to NAVD88. Positions and ellipsoidal heights shall be referenced to NAD83.

Back

EDE: NORTHEASTERN REGIONAL AIRPORT (Rwy 19)

DELETING A RUNWAY

If the surveyor has already entered runway information for the current airport and wishes to delete a runway pair, select the appropriate runway from the list of runways on the Airport Screen (the selected runway will be highlighted in yellow). Then choose  from the **Part B: Runways** section of the form. However, when you exit the program and if you decide not to save the changes, the runways that you deleted will re-appear in the future.

ADDING A NEW NAVAID



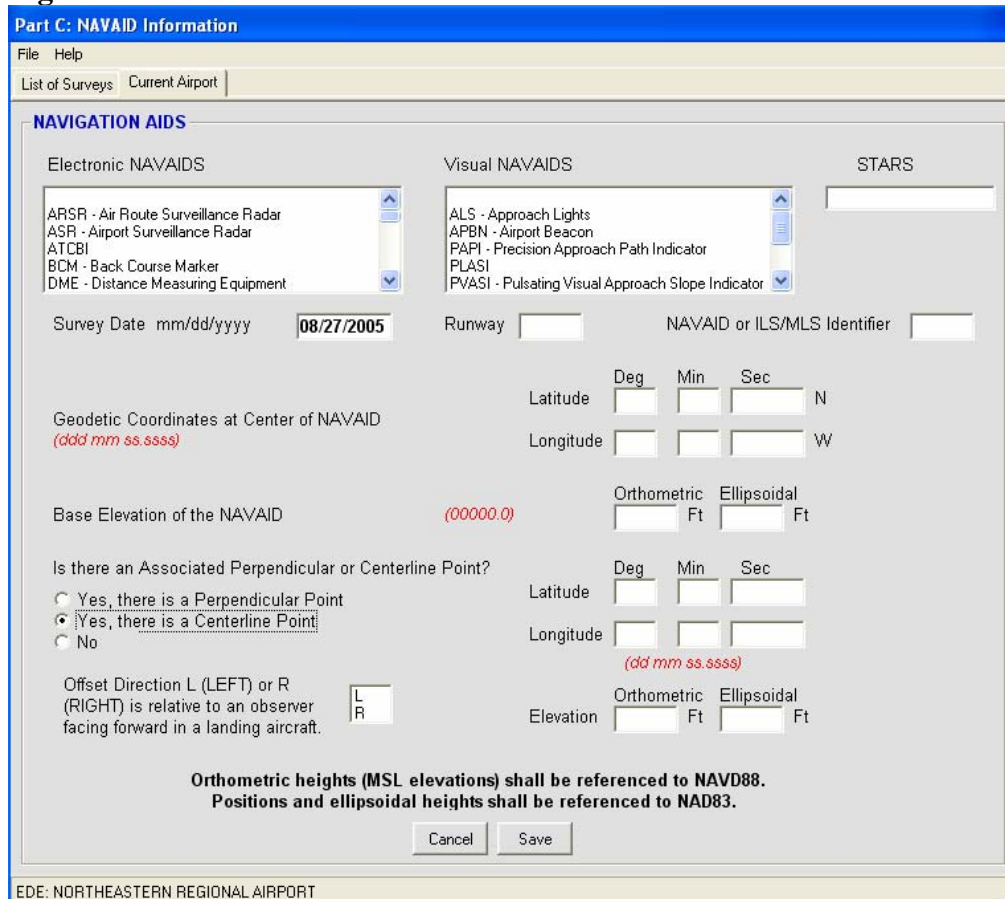
To add new NAVAID data to the current survey, locate **Part C: NAVAIDS** on the lower left section of the main airport screen and select . This will open the NAVAID screen (Figure 9). From the navaid screen, the user must select the type of Navigation Aid from the electronic or visual list boxes. For certain types of Navigation Aids, the user will be asked if there is an associated perpendicular or centerline point. If so, the user must enter coordinates and an elevation for the perpendicular or centerline point. After the surveyor is done entering data for this navaid, select  to save the information.

Figure 9: NAVAID Screen



The screenshot shows the 'Part C: NAVAID Information' window. It has a menu bar with 'File' and 'Help', and a tab bar with 'List of Surveys' and 'Current Airport'. The main area is titled 'NAVIGATION AIDS' and is divided into three sections: 'Electronic NAVAIDS', 'Visual NAVAIDS', and 'STARS'. The 'Electronic NAVAIDS' list includes ARSR, ASR, ATCBI, BCM, and DME. The 'Visual NAVAIDS' list includes ALS, APBN, PAPI, PLASI, and PVASI. Below these lists are input fields for 'Survey Date' (08/27/2005), 'Runway', and 'NAVAID or ILS/MLS Identifier'. There are also fields for 'Geodetic Coordinates at Center of NAVAID' (Latitude and Longitude) and 'Base Elevation of the NAVAID' (00000.0). A section titled 'Is there an Associated Perpendicular or Centerline Point?' has three radio buttons: 'Yes, there is a Perpendicular Point', 'Yes, there is a Centerline Point' (selected), and 'No'. Below this are fields for 'Offset Direction L (LEFT) or R (RIGHT) is relative to an observer facing forward in a landing aircraft.' and 'Elevation'. At the bottom, there is a note: 'Orthometric heights (MSL elevations) shall be referenced to NAVD88. Positions and ellipsoidal heights shall be referenced to NAD83.' and two buttons: 'Cancel' and 'Save'.

Part C: NAVAID Information

File Help

List of Surveys Current Airport

NAVIGATION AIDS

Electronic NAVAIDS

Visual NAVAIDS

STARS

ARSR - Air Route Surveillance Radar
ASR - Airport Surveillance Radar
ATCBI
BCM - Back Course Marker
DME - Distance Measuring Equipment

ALS - Approach Lights
APBN - Airport Beacon
PAPI - Precision Approach Path Indicator
PLASI
PVASI - Pulsating Visual Approach Slope Indicator

Survey Date mm/dd/yyyy 08/27/2005

Runway NAVAID or ILS/MLS Identifier

Geodetic Coordinates at Center of NAVAID
(ddd mm ss.ssss)

Latitude Deg Min Sec N
Longitude W

Base Elevation of the NAVAID (00000.0)

Orthometric Ellipsoidal
Ft Ft

Is there an Associated Perpendicular or Centerline Point?

☐ Yes, there is a Perpendicular Point
☒ Yes, there is a Centerline Point
☐ No

Latitude Deg Min Sec
Longitude W
(dd mm ss.ssss)

Offset Direction L (LEFT) or R (RIGHT) is relative to an observer facing forward in a landing aircraft.

L R


Orthometric Ellipsoidal
Ft Ft

Orthometric heights (MSL elevations) shall be referenced to NAVD88.
Positions and ellipsoidal heights shall be referenced to NAD83.


Cancel Save

EDE: NORTHEASTERN REGIONAL AIRPORT



EDITING A NAVAID

If the surveyor has already entered navaid information for the current airport and wishes to edit this data, select the appropriate navaid from the list of navaids on the Airport Screen (the selected navaid will be highlighted in yellow). Then choose  from the **Part C: Navaids** section of the form.. This will open the NAVAID screen for the surveyor to begin editing data. All previously entered navaid data for this record will pre-fill this screen. It should be noted that the requested information varies depending on the chosen NAVAID type.

DELETING A NAVAID

If the surveyor has already entered NAVAID information for the current airport and wishes to delete one, select the appropriate record from the list of NAVAIDS on the Airport Screen (the selected record will be highlighted in yellow). Then choose  from the **Part C: NAVAIDS** section of the form. However, when you exit the program and if you decide not to save the changes, the NAVAIDS that you deleted will re-appear in the future.

ADDING A NEW OBSTRUCTION

To add new obstruction data to the current survey, locate **Part D: Obstructions** on the lower left section of the main airport screen and select . This will open the obstruction screen (Figure 10). After the surveyor is done entering data for this obstruction, select  to save the information.

EDITING AN OBSTRUCTION


If the surveyor has already entered obstruction information for the current airport and wishes to edit this data, select the appropriate obstruction from the list of obstructions on the Airport Screen (the selected obstruction will be highlighted in yellow). Then choose  from the **Part D: Obstructions** section of the form.. This will open the obstruction screen for the surveyor to begin editing data. All previously entered obstruction data for this record will pre-fill this screen.

Figure 10: Obstruction Screen

Part D: Obstruction Information

File Help

List of Surveys Current Airport

OBSTRUCTION DATA

Obstruction Identification Surface

ANALPV: Area Nav Approach
ANAPC: Area Nav Approach - Precision, conventional landing
AV: FAR77 Visual Approach: Utility runway includes approach and primary surfaces only
ANP: FAR77 Nonprecision Approach: Utility runway includes approach and primary surfaces only
BV: FAR77 Visual Approach: Includes approach and primary surfaces only
C: FAR77 Nonprecision Approach: Visibility minimums > 3/4 mile includes approach and primary surfaces only
D: FAR77 Nonprecision Approach: Visibility minimums as low as 3/4 mile includes approach and primary surfaces only
PIR: Precision Instrument Approach, includes approach and primary surfaces only
SUPLC: C Approach underlying a BV Approach, includes approach and primary surfaces only
HCT: FAR77 Horizontal, Conical, and Transitions includes FAR77 horizontal, conical, and transition surfaces only
NUL: OIS not applicable

Survey Date mm/dd/yyyy 08/27/2005 Rwy ID 1 Object TREE

Geodetic Coordinates Latitude Deg Min Sec 36 00 39.50 N
(ddd mm ss.ss) Longitude 076 34 17.51 W

Top Elevation of Object (00000) Orthometric 103 Ft Ellipsoidal Ft

Above Ground Elevation (AGL) (00000) Ft
(Difference between base and top elevation)

Accuracy Code Horizontal Vertical
1 (20') A (3')
2 (50') B (10')
3 (100') C (20')
D (50')
E (Estimated max elv)

Cancel Save

EDE: NORTHEASTERN REGIONAL AIRPORT

DELETING AN OBSTRUCTION

If the surveyor has already entered obstruction information for the current airport and wishes to delete one, select the appropriate record from the list of obstructions on the Airport Screen (the selected record will be highlighted in yellow). Then choose Delete from the **Part D: Obstructions** section of the form. However, when you exit the program and if you decide not to save the changes, the obstructions that you deleted will re-appear in the future.