

## **USFWS Monthly Update of FAA Wind Turbine Data - Basic Instructions and General Information:**

### General Information:

#### Description:

ESRI point feature classes derived from the FAA's Obstruction Analysis - Airport Airspace Analysis (OE-AAA) database and representing wind turbines and MET towers from 1995 through the first update of the current month. Four separate feature classes depict sites classified by FWS staff as 'Determined with a Built Date', 'Determined with no Built Date', 'Not Yet Determined' and 'Determined Hazard'.

These categories are defined as follows:

Determined with Built Date - Wind turbines that have been determined by the FAA to pose no hazard to air navigation and have a built date in the FAA database. This category includes records in the database where STATUS = Determined and DTBUILT is not NULL.

Determined no Built Date - Wind turbines that have been determined by the FAA to pose no hazard to air navigation but do not yet have a built date in the FAA database (e.g. are not yet operational). This category includes records in the database where STATUS = Determined and DTBUILT is NULL and DETERMINATION = NULL, No Hazard, Extention, Extention Denied, Feasibility Study, M&L or M&L Denied.

Determined Hazard - Wind turbines that have been determined by the FAA to pose a hazard to air navigation. This category includes records where STATUS = Circularization; STATUS = Interim and DETERMINATION = Presumed Hazard; or STATUS = Determined and DETERMINATION = Hazard or Presumed Hazard.

Not Yet Determined - Wind turbine projects that have applied to the FAA for a determination of hazard or no hazard. FAA is in the process of performing an aeronautical study to determine whether or not the turbines poses a hazard to air navigation. This category in records where STATUS = Accepted, Add Letter or Work in Progress.

#### Purpose:

To provide basic information on the status and location of wind turbines and met towers throughout the US based on available FAA data.

#### Access\_Constraints:

Feature classes are available for download from a secure FWS ftp site. Must be a FWS employee to download. Active Directory username and password required.

Use\_Constraints:

See data source for any constraints:

<https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

The link below relates more specifically to the positional accuracy of the data:

<https://oeaaa.faa.gov/oeaaa/external/content/surveyAccuracy.jsp>

General USFWS disclaimer:

USFWS gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data. In addition, the USFWS shall not be held liable for improper or incorrect use of the data described and/or contained herein.

Point\_of\_Contact for Data served from FWS:

Michael Dick - Biologist (IT)  
US Fish and Wildlife Service  
Division of Ecological Services, Southwest Region  
Phone: 505-248-6670  
Fax: 505-248-6788  
Email: [mike\\_dick@fws.gov](mailto:mike_dick@fws.gov)  
Hours\_of\_Service: 8am - 5pm

Source:

Raw data (csv format) - Federal Aviation Administration Obstruction Evaluation / Airport Airspace Analysis (OE-AAA) database

GIS data - US Fish and Wildlife Service

Online Availability:

[https://www.fws.gov/southwest/es/Energy/Energy\\_Wind/Energy\\_Wind\\_FAA.html](https://www.fws.gov/southwest/es/Energy/Energy_Wind/Energy_Wind_FAA.html)

Update Frequency:

Monthly - FAA updates their database every Saturday. This data will be update shortly after the first Saturday of each month.

Description of file types:

- KML (keyhole markup language) – This file is used in Google Earth. To use, start Google Earth, click File, then click Open and navigate to the location of the kml (or kmz) file.

- KMZ – a zipped KML file. Open same as above.
- LYR – ESRI ArcGIS layer file. There is one of these associated with each feature class. The .lyr file contains only the symbology for its corresponding feature class. To Use, start ArcMAP, click Add Data and navigate to the desired .lyr file.

**NOTE:** Because of the way the .lyr files were created, when you add them to ArcMap, they may appear with a red exclamation point next to them in the Table of Contents. This means that the link to their source data has been lost. Right-click on the layer name, scroll down to Data and select Repair Data Source, navigate to where the associated feature classes now reside, select the appropriate feature class and click add. This should fix the links for all layer files within that same folder.

- Geodatabase(File) – ESRI data storage format. These geodatabases were created using ArcGIS 10, but saved as ArcGIS 9.3. In Windows explorer, this file will appear as folder with a .gdb file extension. In ESRI ArcCatalog, it will appear as a gray container. The geodatabase for a particular region contains the following four feature classes, based on the FWS\_Status attribute:

DETERMINED with Built Date  
 DETERMINED with no Built Date  
 DETERMINED Hazard  
 Not Yet Determined

- Excel – The raw data is provided in two Microsoft Excel formats. The database as a whole is provided in .xlsx format. There is also an older .xls format provided where data for each region is provided on separate tabs within the worksheet.

#### Symbology for layer (.lyr) and Google Earth (.kmz) files:

- Determined with Built Date: black triangle
- Determined with no Built Date: large green dot
- Determined Hazard: small red dot
- Not Yet Determined: medium yellow dot

#### Spatial Reference Information:

Coordinate System: Geographic

Units: Decimal degrees

Horizontal Datum: North American Datum of 1983

Ellipsoid\_Name: Geodetic Reference System 80

## Entity and Attribute Information:

**\*\*NOTE – Additional attribute definitions from the FAA Web Application Programming Interface (API) Restful Services User Guide (Glossary section) have been appended to the end of this document.**

### Attribute:

Attribute\_Label: FID

Attribute\_Definition: Internal feature number.

Attribute\_Definition\_Source: ESRI

Attribute\_Domain\_Values:

Unrepresentable\_Domain: Sequential unique whole numbers that are automatically generated.

### Attribute:

Attribute\_Label: Shape

Attribute\_Definition: Feature geometry.

Attribute\_Definition\_Source: ESRI

Attribute\_Domain\_Values:

Unrepresentable\_Domain: Coordinates defining the features.

### Attribute:

Attribute\_Label: InUpd

Attribute\_Definition: N=Record no longer in FAA Database;Not Updated=Record prior to 2008 and not updated;Null=Record in current update

Attribute\_Definition\_Source: USFWS

### Attribute:

Attribute\_Label: ASN

Attribute\_Definition: Study Number

Attribute\_Definition\_Source: FAA

### Attribute:

Attribute\_Label: PASN

Attribute\_Definition: Prior Study Number

Attribute\_Definition\_Source: FAA

### Attribute:

Attribute\_Label: STATUS

Attribute\_Definition: Status

Attribute\_Definition\_Source: FAA

### Attribute:

Attribute\_Label: DETERMINAT

Attribute\_Definition: Determination

Attribute\_Definition\_Source: FAA

### Attribute:

Attribute\_Label: EntDate

Attribute\_Definition: Entered Date

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RecDate

Attribute\_Definition: Received Date

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: CompDate

Attribute\_Definition: Completion Date

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: ExpDate

Attribute\_Definition: Expiration Date

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: LATITUDE

Attribute\_Definition: Latitude

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: LONGITUTDE

Attribute\_Definition: Longitude

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: DATUM

Attribute\_Definition: Horizontal Datum

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SurvAccy

Attribute\_Definition: Survey Accuracy

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: MLtype

Attribute\_Definition: Marking Lighting Type

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: MLtype2

Attribute\_Definition: Marking Lighting Type Other

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: StrName

Attribute\_Definition: Structure Name

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: StrCity

Attribute\_Definition: Structure City

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: StrST

Attribute\_Definition: Structure State

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: NrAirprt

Attribute\_Definition: Nearest Airport

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: Dist2Airpr

Attribute\_Definition: Distance From Airport

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: Dir2Airprt

Attribute\_Definition: Direction From Airport

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: OnAirprt

Attribute\_Definition: On Airport

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: PropDes

Attribute\_Definition: Proposal Description

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: LocDes

Attribute\_Definition: Location Description

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: NoticeOf

Attribute\_Definition: Notice Of

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: Duration

Attribute\_Definition: Duration

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: DurDays

Attribute\_Definition: Duration Days

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: DurMnths

Attribute\_Definition: Duration Months

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: WsBegDt

Attribute\_Definition: Work Schedule Beginning Data

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: WsEndDt

Attribute\_Definition: Work Schedule End Date

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: DtBuilt

Attribute\_Definition: Date Built

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: FCCnum

Attribute\_Definition: FCC Number

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: NACGnum

Attribute\_Definition: NACG Number

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: StrType

Attribute\_Definition: Structure Type

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: StrType2

Attribute\_Definition: Structure Type Other

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: AglDet

Attribute\_Definition: AGL Height Det

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: AglDne

Attribute\_Definition: AGL Height DNE

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: AglProp

Attribute\_Definition: AGL Height Proposed

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: Elev

Attribute\_Definition: Elevation

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: AmslDet

Attribute\_Definition: AMSL Height Det

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: AmslDne

Attribute\_Definition: AMSL Height DNE

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: AmslProp

Attribute\_Definition: AMSL Height Proposed

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepAttn

Attribute\_Definition: Representative Attn Of

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepCity

Attribute\_Definition: Representative City

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepCntry

Attribute\_Definition: Representative Country

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepEmail

Attribute\_Definition: Representative Email

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepName

Attribute\_Definition: Representative Name

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepFax

Attribute\_Definition: Representative Fax

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepPH

Attribute\_Definition: Representative Primary Phone

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepPHx

Attribute\_Definition: Representative Primary Phone Ext

Attribute\_Definition\_Source: FAA



Attribute:

Attribute\_Label: RepST

Attribute\_Definition: Representative State

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepAddr1

Attribute\_Definition: Representative Address 1

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepAddr2

Attribute\_Definition: Representative Address 2

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: RepZip

Attribute\_Definition: Representative Postal Code

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprAttn

Attribute\_Definition: Sponsor Attn Of

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprCity

Attribute\_Definition: Sponsor City

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprCntry

Attribute\_Definition: Sponsor Country

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprEmail

Attribute\_Definition: Sponsor Email

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprName

Attribute\_Definition: Sponsor Name

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprFax

Attribute\_Definition: Sponsor Fax

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprPH

Attribute\_Definition: Sponsor Primary Phone

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprPHx

Attribute\_Definition: Sponsor Primary Phone Ext

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprST

Attribute\_Definition: Sponsor State

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprAddr1

Attribute\_Definition: Sponsor Address 1

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprAddr2

Attribute\_Definition: Sponsor Address 2

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SprZip

Attribute\_Definition: Sponsor Postal Code

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: SigCtrlNum

Attribute\_Definition: Signature Control Number

Attribute\_Definition\_Source: FAA

Attribute:

Attribute\_Label: LatDD

Attribute\_Definition: Latitude (decimal degrees)

Attribute\_Definition\_Source: USFWS

Attribute:

Attribute\_Label: LonDD

Attribute\_Definition: Longitude (decimal degrees)

Attribute\_Definition\_Source: USFWS

Attribute:

Attribute\_Label: FWSRegion

Attribute\_Definition: USFWS Region (number)

Attribute\_Definition\_Source: USFWS

Attribute:

Attribute\_Label: FWSStatus

Attribute\_Definition: Status as classified by FWS Staff

Attribute\_Definition\_Source: USFWS

### Data Processing:

These were the steps taken for the initial creation of the database and output files:

- 1) Download off-airport archive files (as .csv) from FAA Obstruction Evaluation / Airport Airspace Analysis (OE-AAA) database by year and region for the area of interest.
- 2) Open new MS Excel files and save as "National\_Upd\_<MthYYYY>.xlsx (ie: National\_Upd\_Jan2012. This will be your master file.
- 3) Cut and paste individual archive files into new master file.
- 4) Modify field headings to be compatible with ESRI ArcGIS software.
- 5) Delete unneeded records (for non wind turbines) from master file.
- 6) Rename tab AllData
- 7) Add new attribute fields: InUpd (txt, 2), LatDD (double), LonDD Double), FWSSStatus (text, 50)and FWSRegion (integer, 1).
- 8) Sort data by ASN. For those records NOT WTE or WTW, populate "InUpd" with 'NotUpdated'

Starting in 2008, FAA began separating wind turbine data into WTW and WTE databases. Prior to that, the data for wind turbines was mixed with data for other structures and archived in many more regional databases.

- 9) Sort data by NACGnum, for those records were data is misaligned, move data to the right.
- 10) Sort data by StrType, for those records were data is misaligned, find source of misalignment and fix.
- 11) Sort data by LatDD, for those records were data is misaligned, find source of misalignment and fix.
- 12) Put single quotes around the data in the RepEmail and SprEmail columns.

13) Convert lat/longs from dms to dd for use in ESRI ArcGIS software and populate LatDD and LonDD.

14) Make sure all date fields are formatted as Date.

15) Populate FWSRegion via lookup table.

16) Populate FWStatus using the following Excel formulas:

Determined with Date Built given:

=IF(AND(C2="Determined",AD2<>""),"DETERMINED - With Built Date", "")

Determined, but no Date Built given:

=IF(AND(C2="Determined",AD2="",OR(D2="",D2="No Hazard",D2="Extension",D2="Extension Denied", D2="Feasibility Study", D2="M&L",D2="M&L Denied")),"DETERMINED - No Built Date", "")

Determined as Hazard:

=IF(OR(C2="Circularization", (AND(C2="Interim",D2="Presumed Hazard"))), (AND(C2="Determined",AD2="",OR(D2="Hazard",D2="Presumed Hazard")))), "DETERMINED - Hazard", "")

Not Yet Determined:

=IF(OR(C2="Accepted",C2="Add Letter", C2="Work In Progress"),"Not Yet Determined", "")

17) Copy all data into new tab, rename it 4GIS.

18) Truncate data in "PropDes" and "LocDes" to 255 characters.

19) Create NAD83 and NAD27 tabs in "National\_Upd" (You should 3 total: AllData, NAD27 and NAD83).

20) Sort records by datum (for records with no datum, populate with NAD83), then copy/paste into their respective tabs. In the NAD27 and NAD83 tabs, keep ASN, LatDD and LonDD. Remove all other data.

21) Open ArcCatalog, Run custom model to create feature classes from the NAD27 and NAD83 tabs; project the NAD27 to NAD83; append them; join attribute table; create four separate feature classes for FWStatus and create layer (.lyr) files for each with a specified symbology.

22) From ArcCatalog, run custom script to enable HTML popups and export each lyr file as KML (exports as kmz).

These are the steps taken to do the monthly updates (creation of shapefiles, layer files and KML files) after initial database is created:

- 1) After first Saturday of each month, download WTE and WTW files (2008 – present) from FAA archive download site.
- 2) Open current “National\_Upd\_<date>” (master file) and save with new update date. Delete any existing NAD27 or NAD83 tabs.
- 3) If this is the first update, save master file again as “Upd<mthYYYY>” (ie: UpdJan2012). If not the first update, then open last Upd file and Save As with new month. Delete all data (except header row) from new Upd file.
- 4) Cut & Paste data from downloaded archives into Upd file.
- 5) Sort data by NACGnum, for those records where data is misaligned, move data to the right.
- 6) Sort data by StrType, for those records where data is misaligned, find source of misalignment and fix.
- 7) Sort data by LatDD, for those records where data is misaligned, find source of misalignment and fix.
- 8) Put single quotes around the data in the RepEmail and SprEmail columns.
- 9) Convert lat/longs from dms to dd for use in ESRI ArcGIS software and populate LatDD and LonDD.
- 10) Make sure all date fields are formatted as Date.
- 11) Populate FWSRegion via lookup table.
- 12) Populate FWSStatus using the following Excel formulas:

Determined with Date Built given:

=IF(AND(C2="Determined",AD2<>""),"DETERMINED - With Built Date", "")

Determined, but no Date Built given:

=IF(AND(C2="Determined",AD2="",OR(D2="",D2="No Hazard",D2="Extension",D2="Extension Denied", D2="Feasibility Study", D2="M&L",D2="M&L Denied")),"DETERMINED - No Built Date", "")

Determined as Hazard:

```
=IF(OR(C2="Circularization",(AND(C2="Interim",D2="Presumed  
Hazard"))),(AND(C2="Determined",AD2="",OR(D2="Hazard",D2="Presumed  
Hazard")))), "DETERMINED - Hazard", "")
```

Not Yet Determined:

```
=IF(OR(C2="Accepted",C2="Add Letter", C2="Work In Progress"),"Not Yet  
Determined", "")
```

13) Open new master (if not already)

14) Sort by ASN, for all records except 'Not Updated', clear the clear the "InUpd" field.

15) Using the VLookup function, flag those records that exist in the new update and delete them. In addition populate those records not in current update with "N".

16) Copy records from new update to new "National\_Upd" and populate "InUpd" with 'Y'.

17) Create new tab call 4GIS. Copy all data into it. Truncate "PropDes" and "LocDes" fields to 254 characters.

18) Create NAD83 and NAD27 tabs in "National\_Upd" (You should 3 total: AllData, NAD27 and NAD83).

19) Sort records by datum (for records with no datum, populate with NAD83), then copy/paste into their respective tabs. In the NAD27 and NAD83 tabs, keep ASN, LatDD and LonDD. Remove all other data.

20) Save "National\_Upd\_<date>" and close Excel.

21) Open ArcCatalog, Run custom model to create feature classes from the NAD27 and NAD83 tabs; project the NAD27 to NAD83; append them; join attribute table; create four separate feature classes for FWSSStatus and create layer (.lyr) files for each with a specified symbology.

22) From ArcCatalog, run custom script to enable HTML popups and export each lyr file as KML (exports as kmz).

23) Open current master file and delete 4GIS, NAD27 and NAD83 tabs.



## 8 Glossary

The glossary list possible columns for any public OE/AAA RESTful web service. Sample data for each Public Access service is located in **Section 5** of this document

Note: **The list is not inclusive of any specific service, as specific services may have specific columns in their results.**

Column / Field Names	Description
aglStructureHeight	Proposed total structure height above ground level in whole feet rounded to the next highest foot. The total structure height should include anything mounted on top of the structure such as antennas, lightning rods, obstruction lights, etc.
aglStructureHeightDet	FAA confirmed total structure height above ground level.
aglStructureHeightDne	Maximum height that a proposed structure's total height above ground level can't exceed in order to not exceed FAA obstruction standards.
asn	Aeronautical Study Number (Case) Year-Region-Number-Case type (e.g. 2013-AAL-23-OE or NRA)
asnSequence	ASN sequence number (i.e. "23")
autoScreenCode	Line of business indicator that a response was not required for an ASN.
asn	Aeronautical Study Number (Case) Year-Region-Number-Case type (e.g. 2013-AAL-23-OE or NRA)
beginDate	ASN start date of temporary work schedule.
countyName	Name of On Airport county
dateBuilt	Date an Off Airport structure reached its greatest construction height.
dateCompleted	Aeronautical Study completion date
dateDismantled	Date an Off Airport structure was dismantled.
dateEntered	Date an On or Off Airport ASN was accepted.
dateWorkStart	Date case received in WRK status - Earliest date available for USAF division users to begin evaluation of a case.
dateWorkEnd	Date USAF division user completed evaluation of a case.



Column / Field Names	Description
determinedDate	Date a determination was made for an ASN.
dispositionChar	D = Destroyed, R = Sent to records center
dispositionDate	Date when ASN disposition must be addressed.
distanceFromNearestAirport	Off Airport structure's distance in feet from the nearest Airport.
directionFromNearestAirport	Off Airport structure's direction in degrees from the nearest Airport.
durationPeriodDays	Length of days a temporary structure is estimated to be in place.
durationPeriodMonths	Length of months a temporary structure is estimated to be in place.
durationType	Length of time a structure will be in place; Permanent or Temporary.
endDate	Date an ASN was completed.
expirationDate	Date an ASN determination expires.
faaGeographyId	FAA Regional Boundaries IDs across the country: AAL, ACE, AEA, AGL, ANE, ANM, ASO, ASW, AWP, WTE and WTW
fastTrack	Off Airport rapid case determination process
fccAsrNumber	Federal Communications Commission (FCC) Antenna Structure Registration Number. (Issued to an existing tower that has been registered with the FCC).
followupDate	Date ASN follow up action is required.
id	Number assigned as a case identifier
isOnAirport	Indicates the Off Airport (OE) case is located on an airport.
lastModifiedBy	Case correspondence creator.
lastModifiedDate	Case correspondence creation date.
latitude	Precise geographic coordinate entered in Decimal Degrees (e.g. 41.69883333333333).
legacyNacoNumber	National Aeronautical Charting Office (NACO) tracking number.
locationDescription	Description of the actual location of the Off Airport site.
longitude	Precise geographic coordinate entered in Decimal Degrees (e.g. 71.43244444444444).
nacgAcceptedDate	National Aeronautical Charting Group (NACG) accepted date.





Column / Field Names	Description
nacgNumber	National Aeronautical Charting Group (NACG) tracking number.
nearestAirport	Identifier of the nearest airport where the Off Airport structure will be located (i.e. LAX = Los Angeles International).
nearestAirportName	Name of the nearest airport to where the Off Airport structure will be located.
nearestAOR	Name of the nearest area of responsibility where the Off Airport structure will be located.
nearestCity	Name of the nearest city where the Off Airport structure will be located.
nearestCountyName	Name of the nearest county where an Off Airport structure will be located.
nearestState	Name of the actual state where the Off Airport structure will be located.
noticeOf	The proposal Type: <i>New Construction.</i> <i>Alteration</i> to an existing structure. <i>Existing</i> structure information has never been studied by the FAA.
nraCity	Name of the city where the On Airport structure will be located.
nraCounty	Name of the county where the On Airport structure will be located.
pointAccuracyCode	Obstacle vertical and horizontal accuracy codes (i.e. 1A, 2C, 4D).
priorAsn	Prior Aeronautical Study Number. (Only if an FAA aeronautical study was previously conducted for the same location).
projectId	Number assigned to a project containing batched cases.
projectName	Name assigned to a project containing batched cases.
proposalDescription	Description that details the nature of an Off Airport filing.
recommendedMarkLightTypeOther	FAA recommended marking and/or lighting type.
regionId	Eleven regional IDs across the country: AAL, ACE, AEA, AGL, ANE, ANM, ASO, ASW, AWP, WTW, WTE.
regionName	Eleven regional names across the country: Alaska, Central, Eastern, Great Lakes, New England, Northwest Mountain, Southern, Southwest, Western Pacific, Wind turbines West, Wind Turbines East.
remarks	Description of the nature of the filing.



Column / Field Names	Description
repAddress1	Sponsor Representative's mailing address
repAddress2	Sponsor Representative's mailing address
repAttnOf	Attention of specific person or department for a Sponsor Representative.
repCity	Sponsor Representative's mailing address city
repPostalCode	Sponsor Representative's mailing address zip code.
representative	Sponsor Representative
repState	Sponsor Representative's mailing address state
requestedMarkLightType	Proposed marking and/or lighting type desired.
requestedMarkLightTypeOther	Proposed marking and/or lighting type designated.
required74602Code	Indicates the type of Supplemental notice is required by the FAA, if any. A 7460-2 (PART I) prior to start of construction or A 7460-2 (PART II) after the construction reaches its greatest height or None.
returned74602Date	Date a Supplemental Notice is received within OE/AAA by the FAA.
siteElevationProposed	Proposed site elevation above mean sea level. Expressed in whole feet rounded to the nearest foot.
sourceSystem	Data supplier (i.e. NASR)
specialistEmailAddress	Off Airport case specialist e-mail address
specialistPhone	Off Airport case specialist phone number
specialistName	Off Airport case specialist name
sponsor	Person or business ultimately responsible for the construction or alteration.
sponsorAddress1	Sponsor's mailing address
sponsorAddress2	Sponsor's mailing address
sponsorAttnOf	Attention of specific person or department for a Sponsor.
sponsorCity	Sponsor's mailing address city
sponsorCountry	Sponsor's mailing address country
sponsorEmail	Sponsor's e-mail address
sponsorPhone	Sponsor's phone number
sponsorPostalCode	Sponsor's mailing address zip code



Column / Field Names	Description
sponsorState	Sponsor's mailing address state or Non-US state.
statusCode	<p>Case status codes:</p> <p>CIR Circularized</p> <p>DET-DNE Determination Does Not Exceed Letter has been sent</p> <p>DET-DNE-EXT Determination Does Not Exceed Extension letter has been sent</p> <p>DET-DNE-EXT-Denied Determination Does Not Exceed Extension Denial letter has been sent</p> <p>DET-DNE-Fasttrack Determination Does Not Exceed DNE-Fasttrack letter has been sent.</p> <p>DET-DNE-Fasttrack18 Determination Does Not Exceed DNE-Fasttrack18 letter has been sent.</p> <p>DET-DNE-PSF-SentDetermination Does Not Exceed Project Status Request Follow-Up Letter has been sent</p> <p>DET-DNE-PSR-Removed Determination Does Not Exceed, no Project Status Request letter sent but user removed from PSR report</p> <p>DET-DNE-PSR-Sent Determination Does Not Exceed and Project Status Request letter sent</p> <p>DET-DNE-TMP Determination Does Not Exceed, Temporary Crane/structure</p> <p>DET-DNH Determination of No Hazard Letter has been sent</p> <p>DET-DNH-EXT Determination of No Hazard Extension letter has been sentDET-DNH-EXT-Denied Determination of No Hazard Extension Denial letter has been sent</p> <p>DET-DNH-PSF-Sent Determination of No Hazard Project Status Request Follow-Up Letter has been sent</p> <p>(continued)</p>



Column / Field Names	Description
statusCode ( <i>continued</i> )	DET-DNH-PSR-Removed Determination of No Hazard, no PSR letter sent but user removed from PSR report DET-DNH-PSR-Sent Determination of No Hazard and Project Status Request letter sent DET-DOH Determination of Hazard Letter has been sent DET-DPH Determination of Presumed Hazard letter has been sent DET-EBODetermination of Exceeds But Okay Letter has been sent DET-EBO-EXT Determination of Exceeds But Okay Extension letter has been sent DET-EBO-EXT-Denied Determination of Exceeds But Okay Extension Denial letter has been sent DET-EBO-PSF-Sent Determination of Exceeds But Okay Project Status Request Follow-Up Letter has been sent DET-EBO-PSR-Sent Determination of Exceeds But Okay Project Status Request letter has been sent DET-EBO-TMP Determination of Exceeds But Okay, Temporary Crane/structure DET-FSB Determination of Feasibility Letter has been sent DET-M&L Determination of Marking and Lighting letter has been sent DET-M&L-Denied Determination of Marking and Lighting Denial letter has been sent DET-NNR No Notice Required, It is Legacy Status last used 1999 DET-NPH Notice of Presumed Hazard Letter has been sent DET-OTH OE Determination, Mostly Legacy Cases (before 2001)
statusDescription	Case status description
structureDescription	Structure location
structureType	Off Airport Type of structure; (e.g. Crane, Wind Turbine, Building, etc...).
studyComponentType	On Airport Component Type; (e.g. Buildings, Hangar, etc...).
studyDevelopmentType	On Airport Development Type (e.g. Construction, Expansion).



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Column / Field Names	Description
studyTypeOther	If used, contains more description of certain On Airport Component/Development Type combinations.
subsequentASN	Next ASN
transmissionDate	Date to WRK status - Earliest date available for FAA division users to begin evaluation of a case.
traverseway	Crossing for mobile objects: NO = None WW = Waterway IH = Interstate Highway PH = Public Highway PR = Private Road RR = Railroad
year	Year of case