Headquarters U.S. Air Force

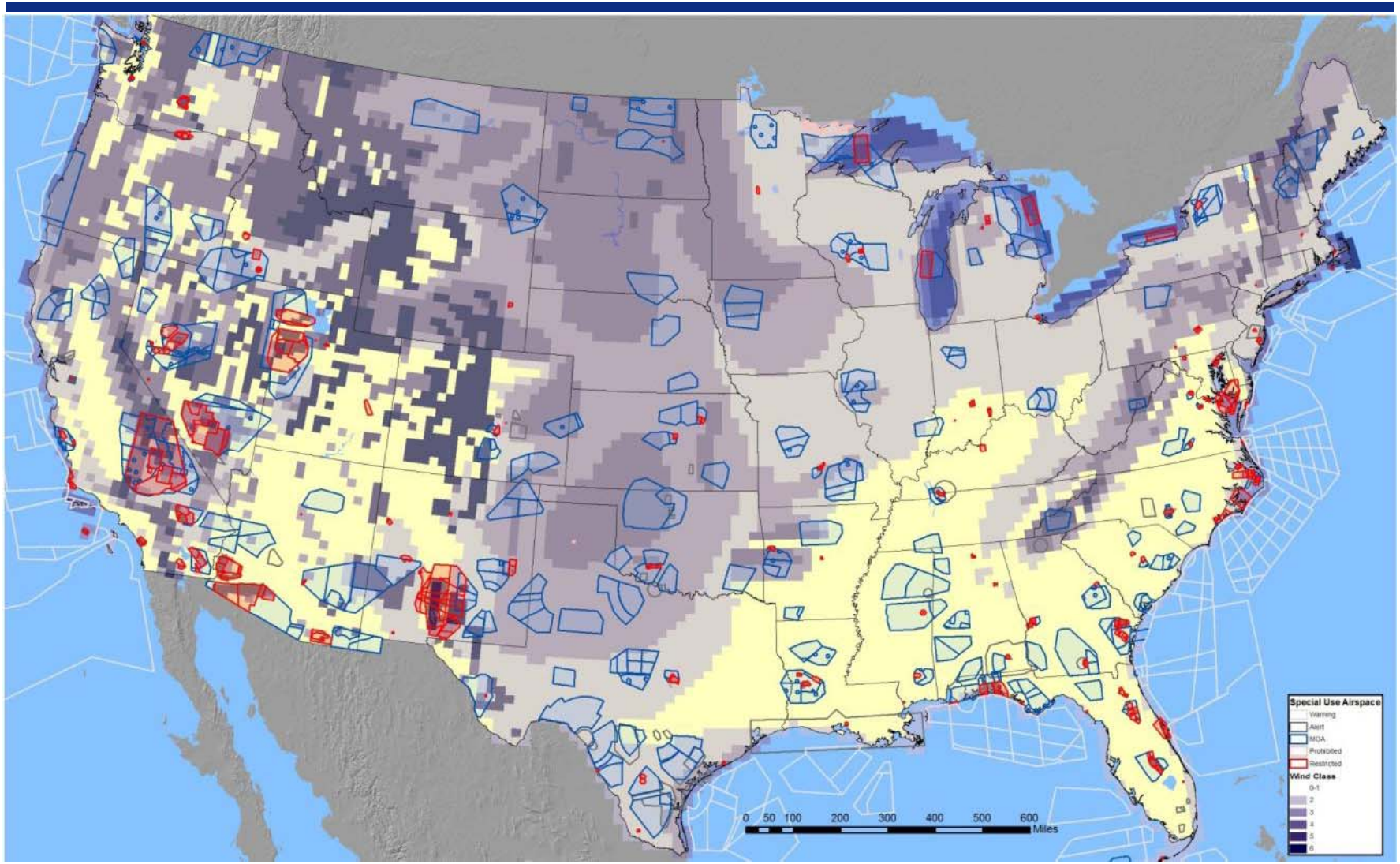
Fly - Fight - Win

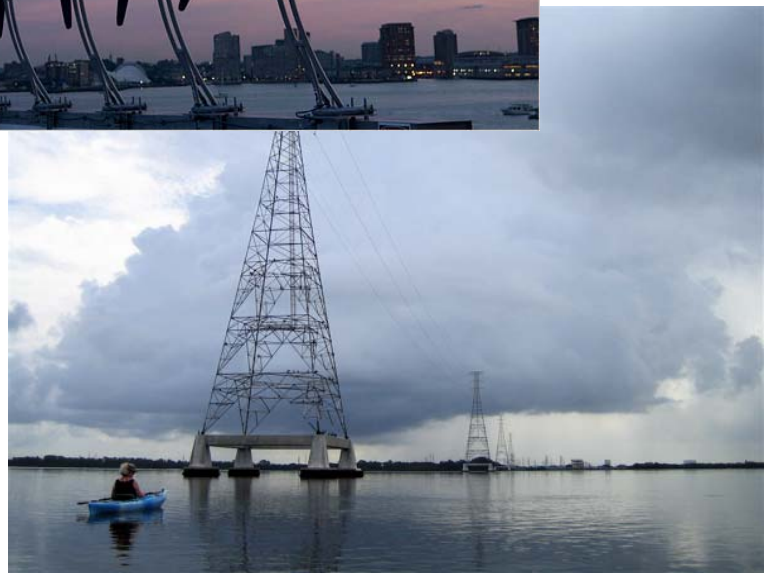
Energy Development – Ops Perspective

Steve Sample

HQ USAF Ranges and Airspace

Wind and Operations





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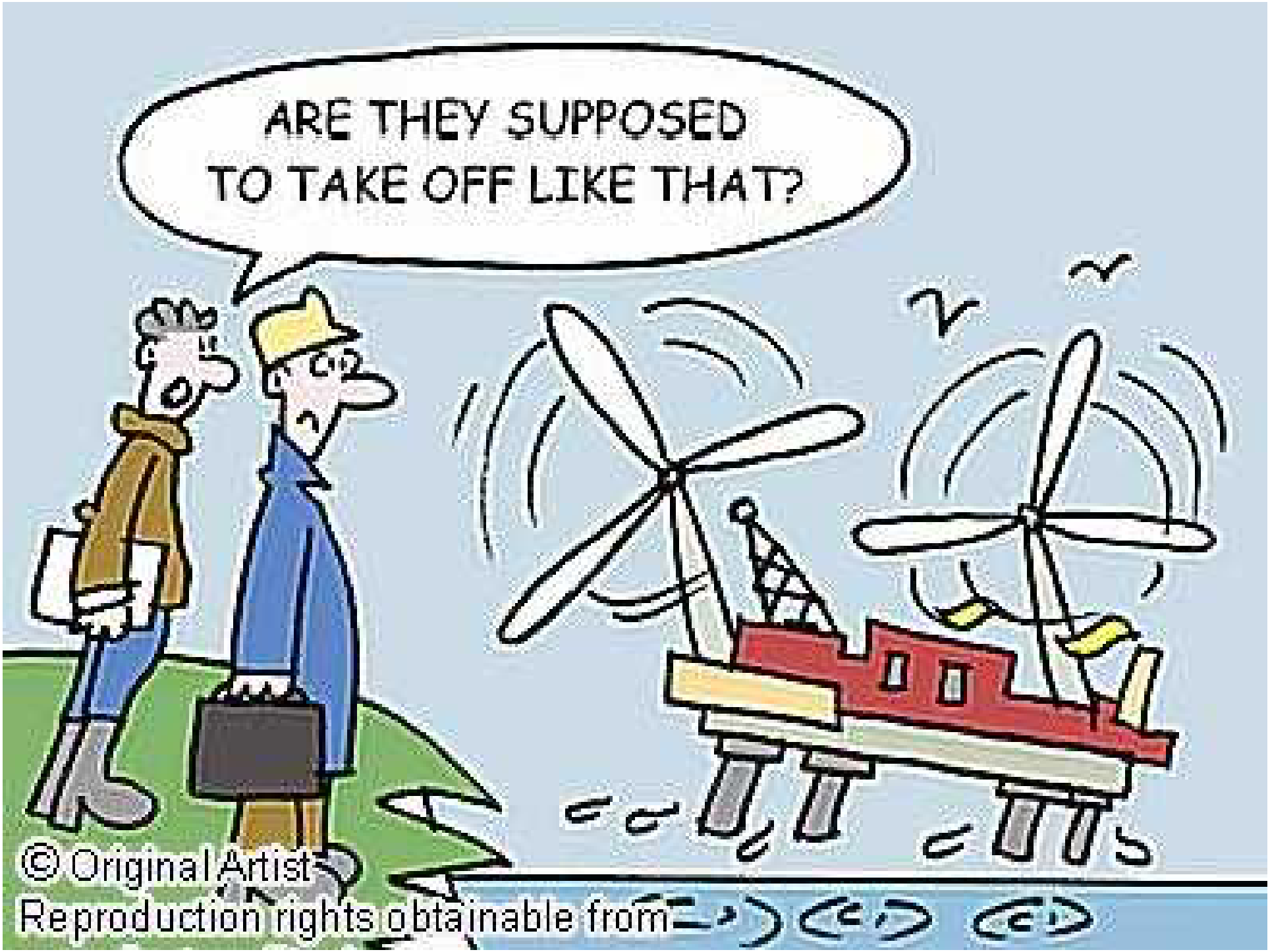
ARE THEY SUPPOSED TO TAKE OFF LIKE THAT?
© Original Artist
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Potential Impacts to Operations

- **Electromagnetic Interference**
- **Flight Obstruction**
- **Security**
- **Lighting**
- **Reflection**

DoD Policy—Energy Siting

1. Case-by-case review
2. Oppose only those with unacceptable, unmitigatable impacts
3. Work through appropriate authority.

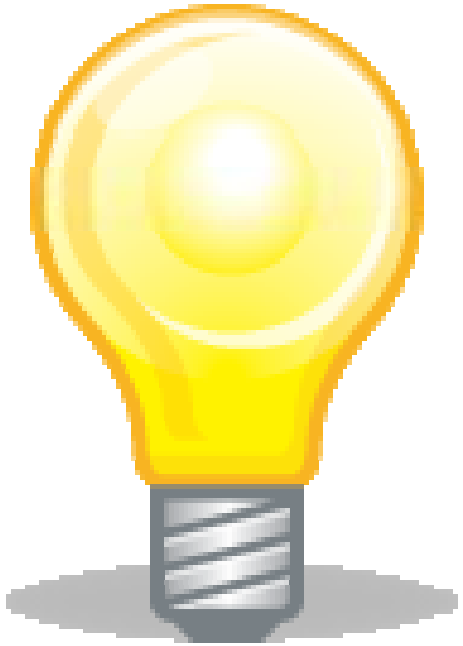
DoD Evaluation Opprotunities

- **FAA Obstruction Evaluation**
- **Local Zoning and Permitting**
- **Frequency/ Spectrum Oversight**
- **Department of Interior**

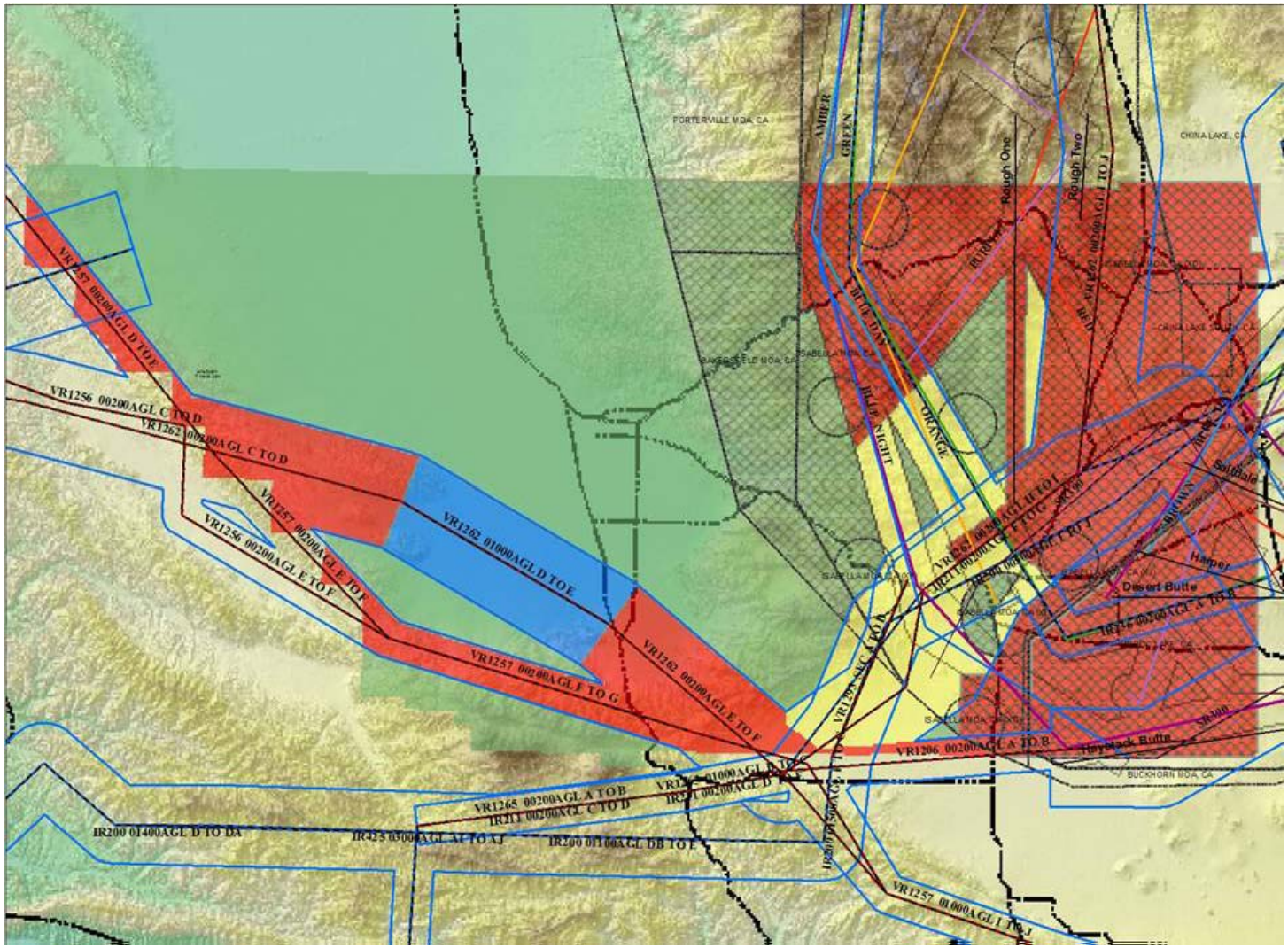
Early Collaboration

- **Official processes can be too late for both the Developer and the Air Force**
- **Developer needs early feedback to:**
  - **Secure funding**
  - **Remove uncertainty (timelines, objections)**
- **All parties benefit by collaborating before too many decisions are made**

On energy development, DoD has more influence than authority.

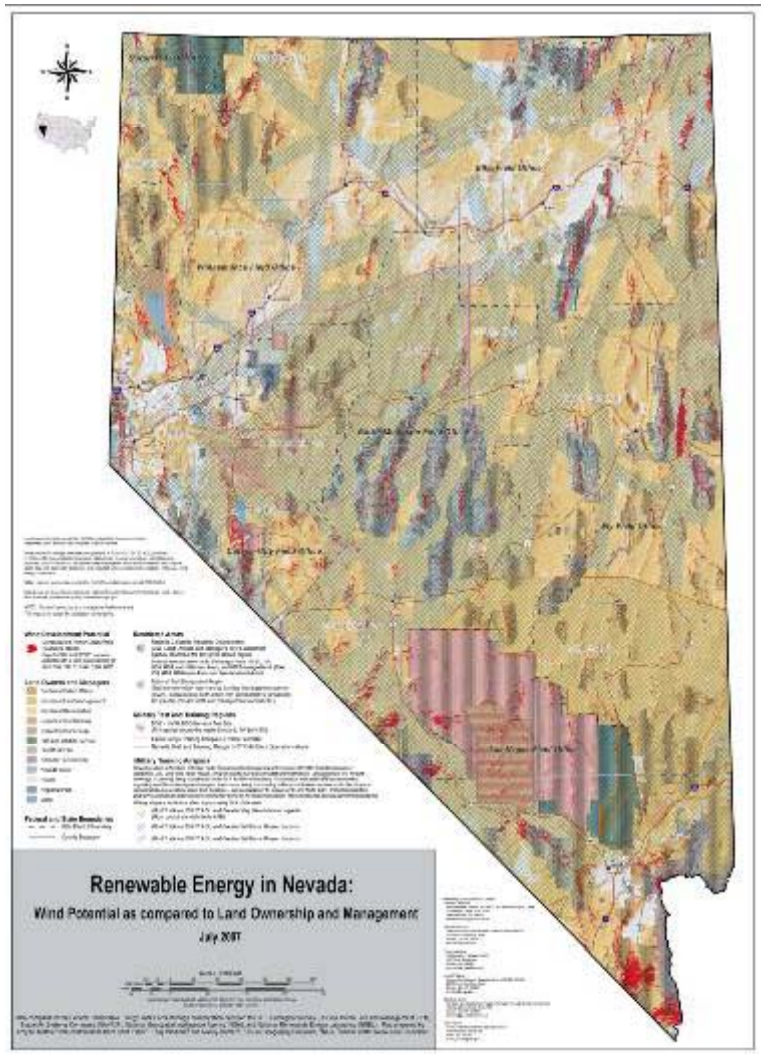


Outreach: Stoplight Chart



Fly - Fight - Win

Expanded Development Maps



- Provided and published through the Federal Renewable Energy Task Force
- Available as part of series of renewable energy resources maps at UNR website
- Published in Governor's NV Renewable Energy Transmission Access Advisory Committee Phase I Report, 31 Dec 07

Obstruction Evaluation

- Home
- FAA OE/AAA Offices
- View Determined Cases
- View Proposed Cases
- View Supplemental Notices (Form 7460-2)
- View Circularized Cases
- Search Archives
- Circle Search for Cases
- Circle Search for Airports
- Discretionary Review FAQs
- Notice Criteria Tool
- DoD Preliminary Screening Tool
- Distance Calculation Tool
- Competition for the Sky

OE/AAA Account

- Login
- New User Registration

Information Resources

- FAA Acronyms
- Forms
- Regulatory Policy
- Relevent Advisory Circulars
- Light Outage Reporting
- Airports Regional Contacts
- Air Traffic Areas of Responsibility

Obstruction Evaluation / Airport Airspace Analysis (OE/AAA)

faa.gov Tools: Print this page

In administering Title 14 of the Code of Federal Regulations CFR Part 77, the prime objectives of the FAA are to promote air safety and the efficient use of the navigable airspace. To accomplish this mission, aeronautical studies are conducted based on information provided by proponents on an FAA Form 7460-1, Notice of Proposed Construction or Alteration.

Advisory Circular 70/7460-1K, Obstruction Marking and Lighting, describes the standards for marking and lighting structures such as buildings, chimneys, antenna towers, cooling towers, storage tanks, supporting structures of overhead wires, etc.

OE/AAA Filing Process

If your organization is planning to sponsor any construction or alterations which may affect navigable airspace, you must file a **Notice of Proposed Construction or Alteration** (Form 7460-1) with the FAA.

If construction or alteration IS NOT LOCATED on an airport:	If construction or alteration IS LOCATED on an airport:
You may file forms 7460-1 and 7460-2 electronically via this website - New User Registration. **or** You may file forms 7460-1 and 7460-2 via US Postal Mail to: Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Service, AJR-32 2601 Meacham Boulevard Fort Worth, TX 76193 **Questions**? Please contact the appropriate representative.	You may file forms 7460-1 electronically via this website - New User Registration. **or** Find the FAA Airports Region / District Office having jurisdiction over the airport on which the construction is located, and file to that address.

Who Needs to File

CFR Title 14 Part 77.13 states that any person/organization who intends to sponsor any of the following construction or alterations must notify the Administrator of the FAA:

- any construction or alteration exceeding 200 ft above ground level

DoD Preliminary Screening Tool

Page Tools

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DoD Preliminary Screening Tool

faa.gov Tools:

Disclaimer:

- The DoD Preliminary Screening Tool enables developers to obtain a preliminary review of potential impacts to Long Range Radar(s), Military Training Route(s) and Special Use Airspace prior to offical OE/AAA filing. This tool will produce a map of the structure and any nearby military airspace or Long Range Radars. The use of this tool is **100 % optional** and will provide a first level of feedback and a single point of contact within DoD to discuss impacts/mitigation efforts of the military training mission. **The use of this tool does not in any way replace the official FAA processes/procedures.**

Instructions:

- Select a screening type for your intial evaluation. Currently the system supports pre-screening on:
  -Air Defense and Homeland Security radars(Long Range Radar)
  -Weather Surveillance Radar-1988 Doppler radars(NEXRAD)
  -Military Operations
- Enter either a single point or a polygon and click submit to generate a long range radar analysis map.
- Military Operations is only available for a single point.
- At least three points are required for a polygon, with an optional fourth point.
- The largest polygon allowed has a maximum perimeter of 100 miles.

Screening Type: Military Operations **Geometry Type:** Single Point

Point	Latitude				Longitude			
	Deg	Min	Sec	Dir	Deg	Min	Sec	Dir
1	35	19	11.91	N	87	41	50.39	W

Horizontal Datum: NAD83

Submit

This is a preliminary review of your proposal and does not preclude official FAA processes.
Your search data is not retained and the privacy of all your searches is assured.

Any questions interpreting the map, please email Steve Sample with you phone number at steven.sample@pentagon.af.mil

Internet 100%

DoD Preliminary Screening Tool

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1	35	19	11.91	N	87	41	50.39	W

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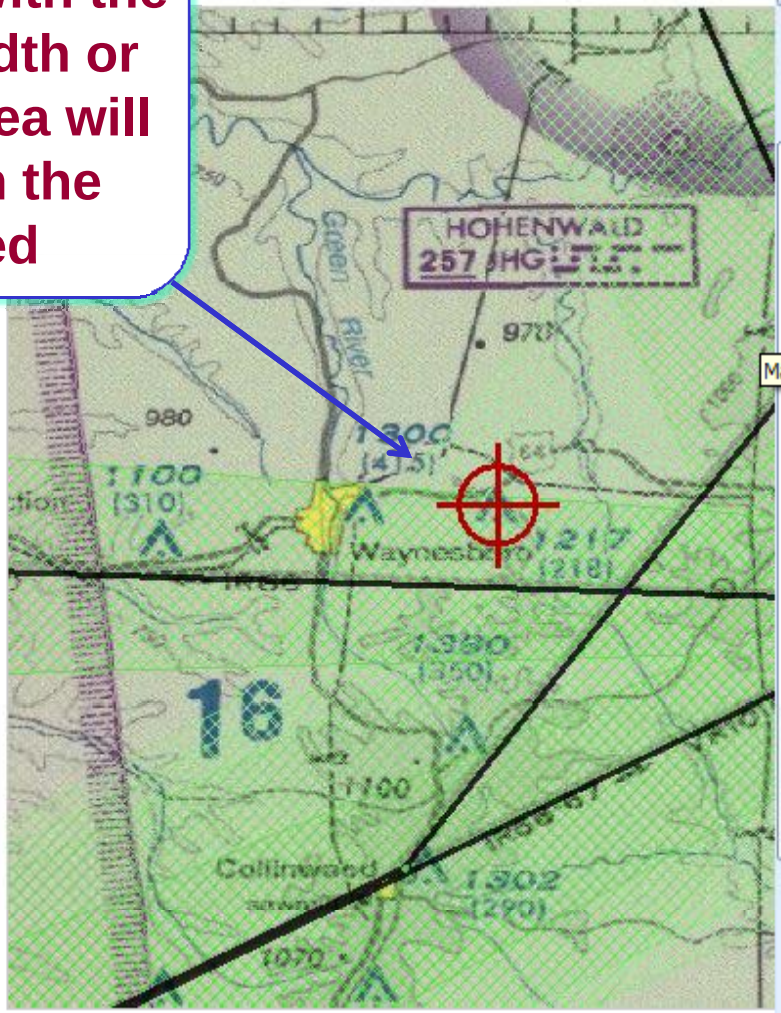
Submit

Your structure falls within the confines of IR066, and may have an impact on military operations. For a more detailed review, please contact Cpt Jason Rubenstein at (662)434-7633. This POC will review the analysis and identify any additional areas of concern.Upon completion of this process, the POC will provide you a letter stating the results of the review.

Your structure falls within the confines of VR1050, and may have an impact on military operations. For a more detailed review, please contact Cpt Jason Rubenstein at (662)434-7633. This POC will review the analysis and identify any additional areas of concern.Upon completion of this process, the POC will provide you a letter stating the results of the review.

Your structure falls within the confines of VR1051, and may have an impact



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phone number at steven.sample@pentagon.af.mil

Internet 100%

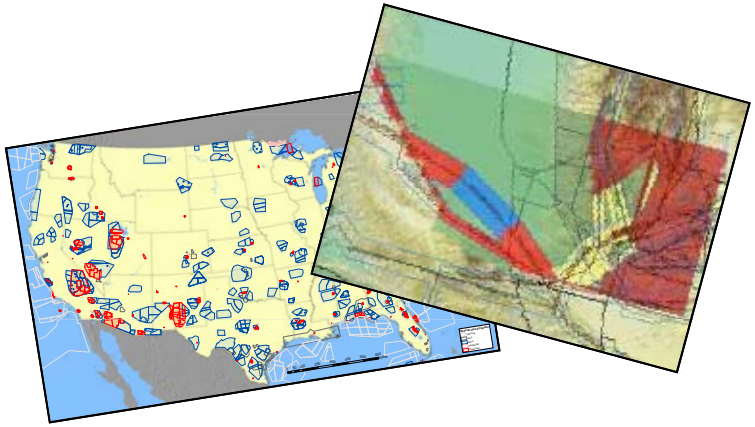
The sectional map with the MTR and Route Width or MOA/ Restricted Area will appear along with the structure plotted

Contact information

Screening Tool Highlights

- **All four Services participating**
- **Long Range Radar and NEXRAD buttons on same site**
- **Developer performs first screen, then has POCs for next stage**
- **Quarterly update potential**

Tools for Evaluators

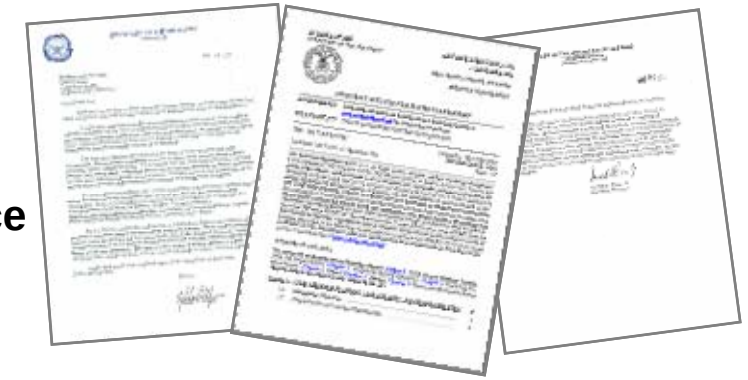


Maps, Data Layers

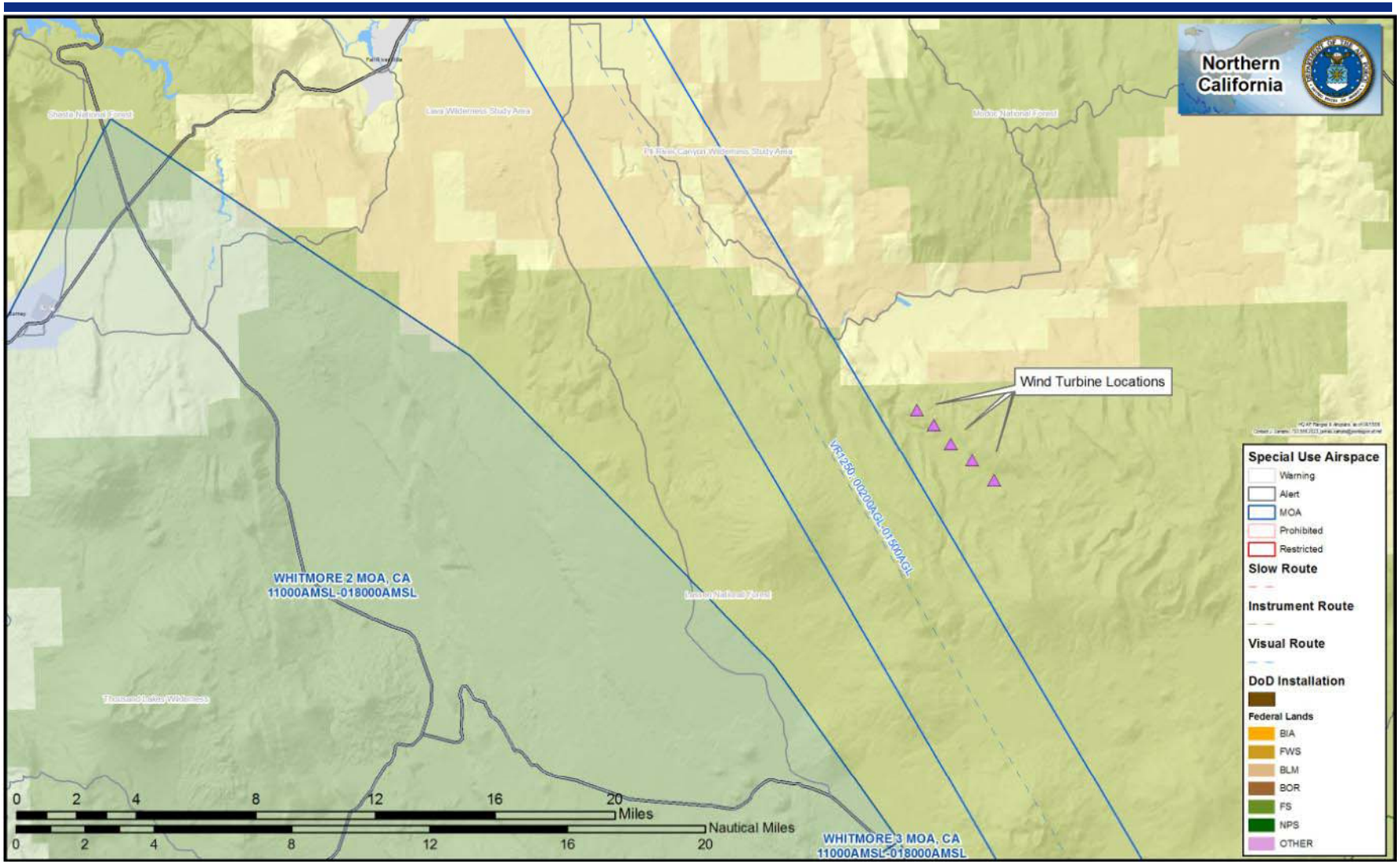
POC Lists

Internal Site

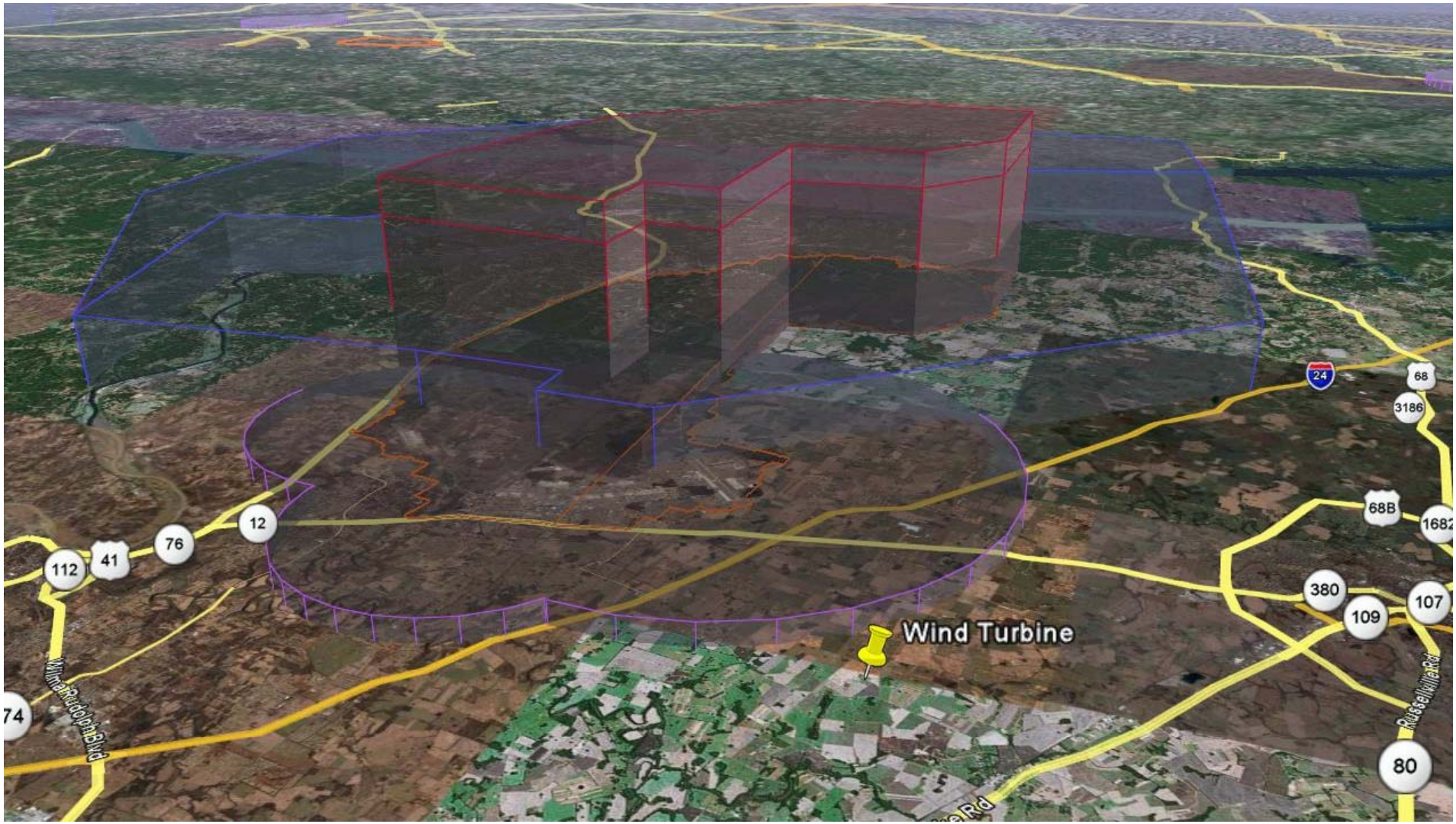
Policy & Guidance



2D Airspace and Lands



3D Airspace and Highways



Comprehensive Study of Impacts and Mitigations

- **AFRL $800k study on impacts and mitigations**
- **$750k added to expand scope**
- **Phase 1: Report on potential impacts and mitigations**
- **Phase 2: Begin validation and tests**
- **Began September 2009**

Tracking Tool

- $700k tool to assist evaluations and track proposals
- Potential applications:
  - Track proposals
  - Standardized, clear responses
  - Public site?

Summary: Three Fronts

- **Improve communication with industry and communities**
- **Support proposal evaluators**
- **Increase study on mitigation techniques**

Thank You