

Interpretation of the New FAA OE/AAA DoD Preliminary Screening Tool Results

The ROC's new wind farm impact evaluation criteria have been updated on the FAA's OE/AAA Preliminary Screening Tool (PST) website at

<https://oeaaa.faa.gov/oeaaa/external/gisTools/gisAction.jsp?action=showLongRangeRadarToolForm>. The purpose of this paper is to provide examples of the results received from the PST and how to interpret these results.

A single point or a three- or four-point polygon can be entered for analysis. A single point will return a map similar to the one shown in Figure 1. The map contains the four wind farm developers suggested action zones that the ROC uses in the detailed analysis of a wind farm proposal along with a wind turbine blade symbol indicating the location of the proposed turbine. Text indicating which of the four wind farm developers suggested action zones the proposal falls into is located next to the symbol with a description of each zone located in the legend.

Disclaimer:

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

Instructions:

- Select a screening type for your initial 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: Geometry Type:

Point	Latitude				Longitude			
	Deg	Min	Sec	Dir	Deg	Min	Sec	Dir
1	45	42	27	N	09	17	16	W

Horizontal Datum:

Map Legend:

- Green: No Impact Zone.** Impacts not likely. NOAA will not perform a detailed analysis, but would still like to know about the project.
- Dark Green: Notification Zone.** Some impacts possible. Consultation with NOAA is optional, but NOAA would still like to know about the project.
- Yellow: Consultation Zone.** Significant impacts possible. NOAA requests consultation to discuss project details and to perform a detailed impact analysis. NOAA may request mitigation of significant impacts.
- Orange: Mitigation Zone.** Significant impacts likely. NOAA will likely request mitigation if a detailed analysis indicates that the project will cause significant impacts.
- Red: No-Build Zone.** Severe impacts likely. NOAA requests developers not build wind turbines within 3 km of the NEXRAD. Detailed impact analysis required.

Because the NEXRAD can detect wind turbines occasionally at great distance, NOAA would like to know the location of all wind farm projects so that corrupted radar data can be flagged. Send project information directly to NOAA at wind.energy.matters@noaa.gov or through the National Telecommunications & Information Administration (NTIA) in the Dept. of Commerce. NOAA protects all wind project information as proprietary and sensitive.

Figure 1. OE/AAA PST results for a single point location.

In the case of a polygon, the returned map shows the polygon with the wind farm developers suggested action zones highlighted and the zone or zones that the proposal area intersects labeled (Figure 2). However, in some cases, like the one in Figure 3, the area is not large enough to include the label. In cases like this users need to refer to the Map Legend to determine the zones impacted.

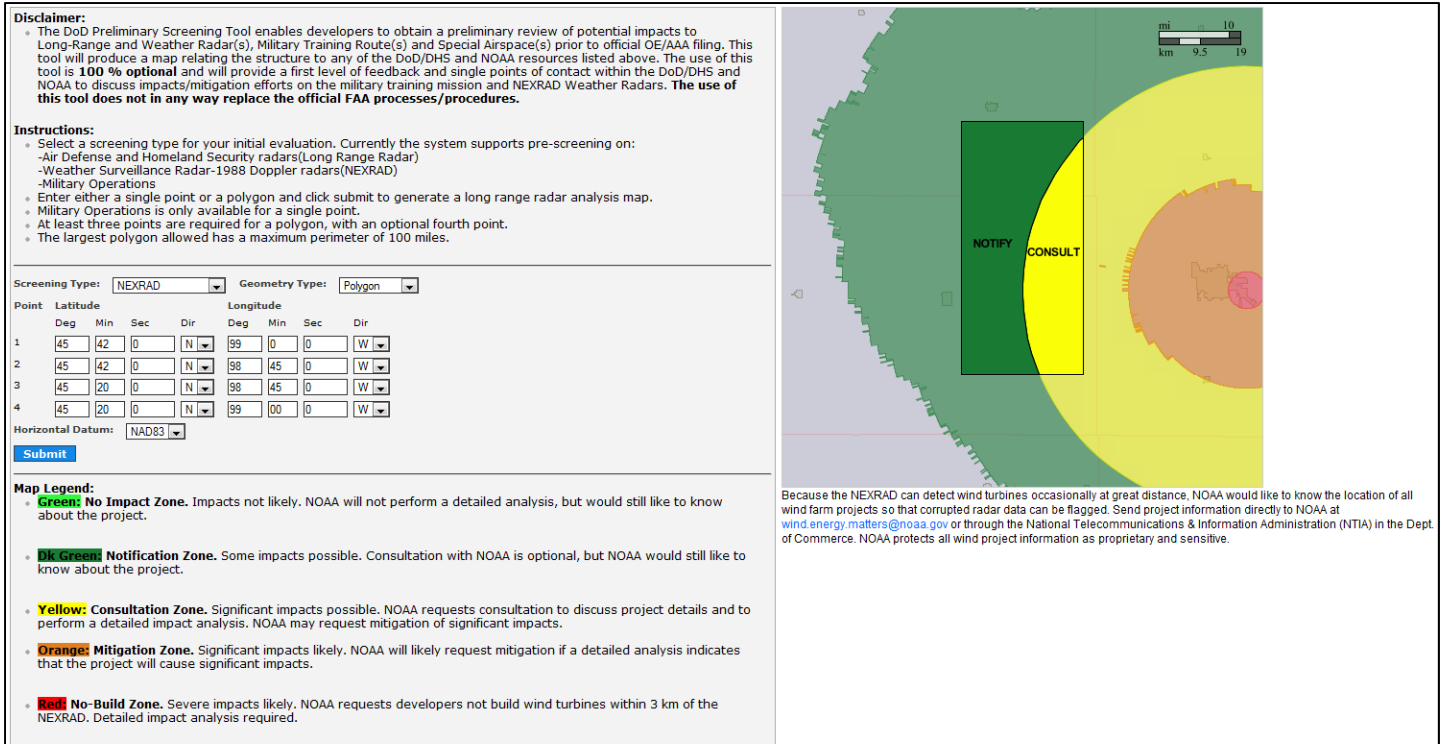


Figure 2. OE/AAA PST results for a polygon with the impacted action zones labeled.

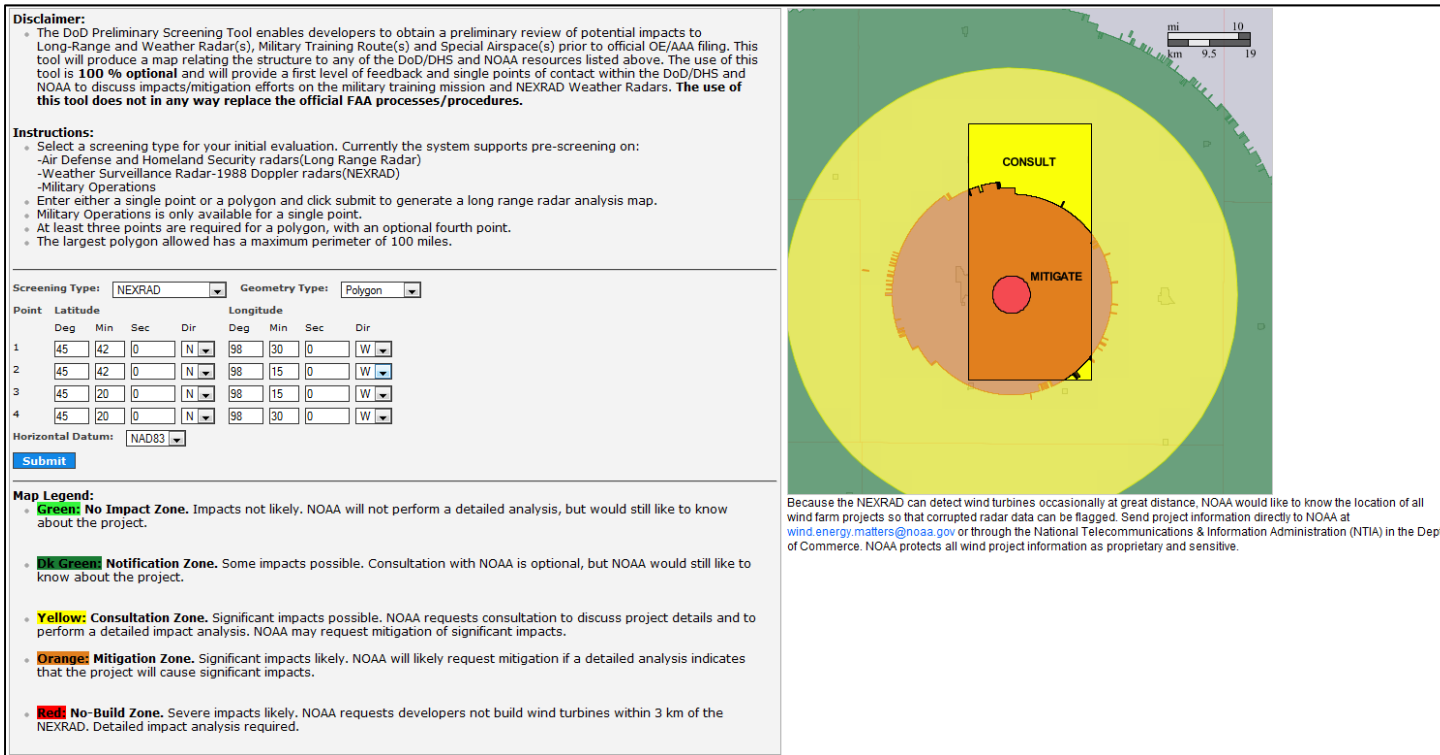


Figure 3. OE/AAA PST results for a polygon with two of the impacted action zones labeled. Although included in the proposed polygon, the No-Build zone was not labeled due to lack of room. In this case the Map Legend in the lower left must be referred to.