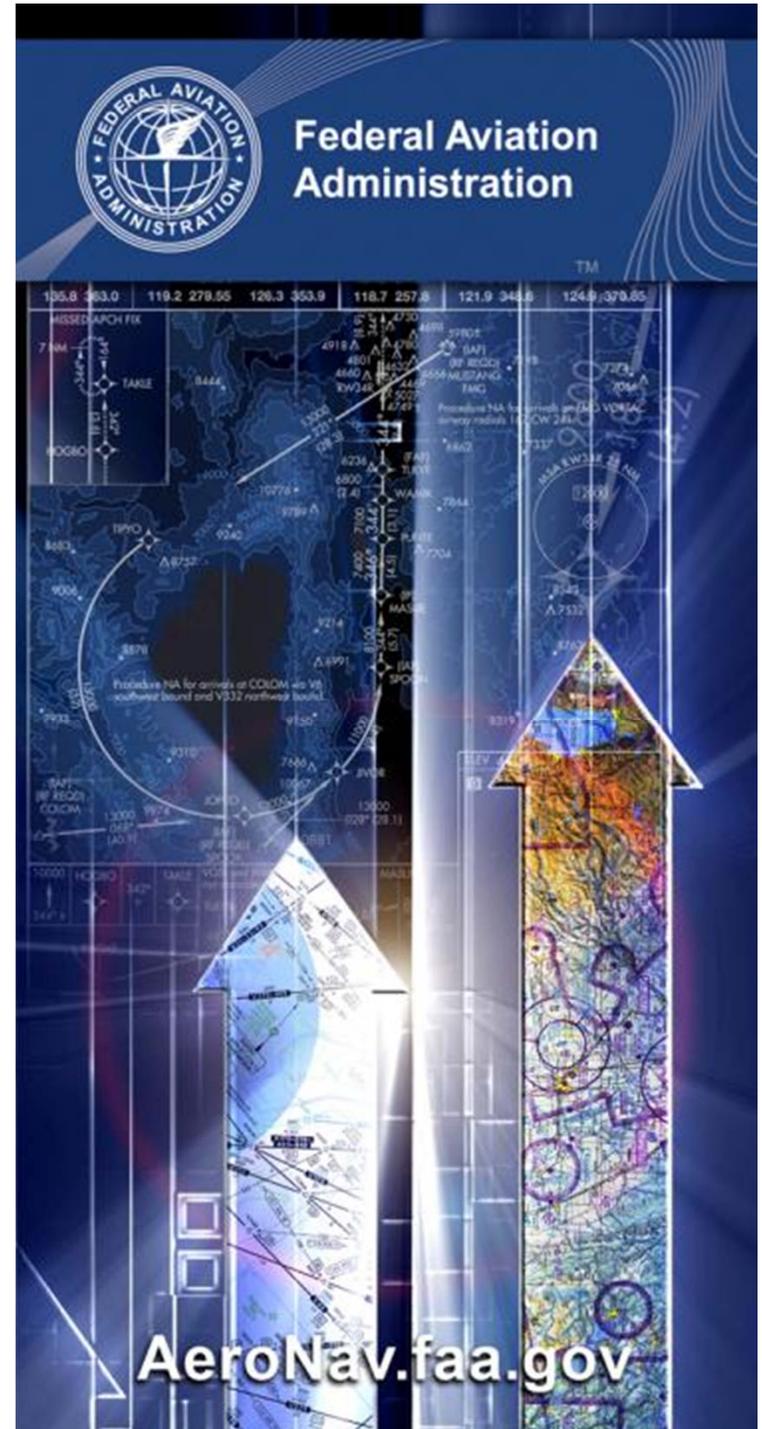


AeroNav Products

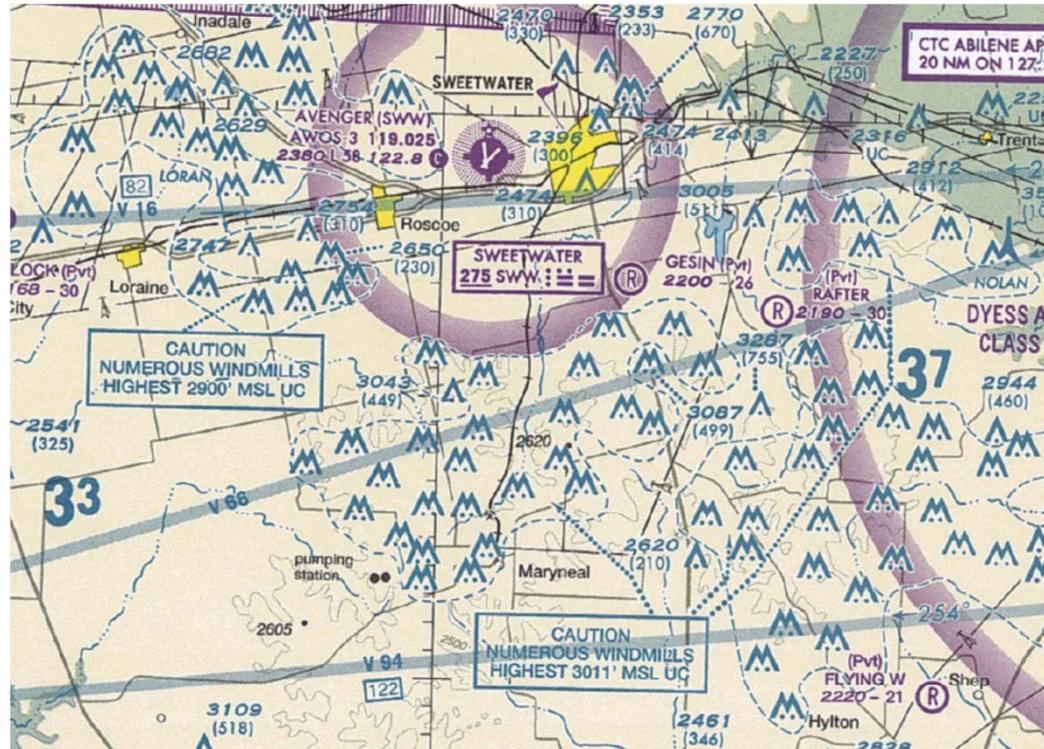
ACF 12-02 CG RD 11-01-236 Charting Wind Turbine Symbols

Presented to: Aeronautical Charting Forum
Date: October 24-25, 2012



Current VFR Charting Portrayal of Wind Turbine Farms

- Dashed outline
- Same symbol as all other obstructions
- Fairly high density
- Large boxed note



Stand-alone and group wind turbines

- Wind turbines that do not cover a large enough area or only number a few have always been portrayed as group obstruction symbols with the type “windmills”.



- The ICAO symbology allows us to remove the type “windmills”.



New Wind Turbine Symbols

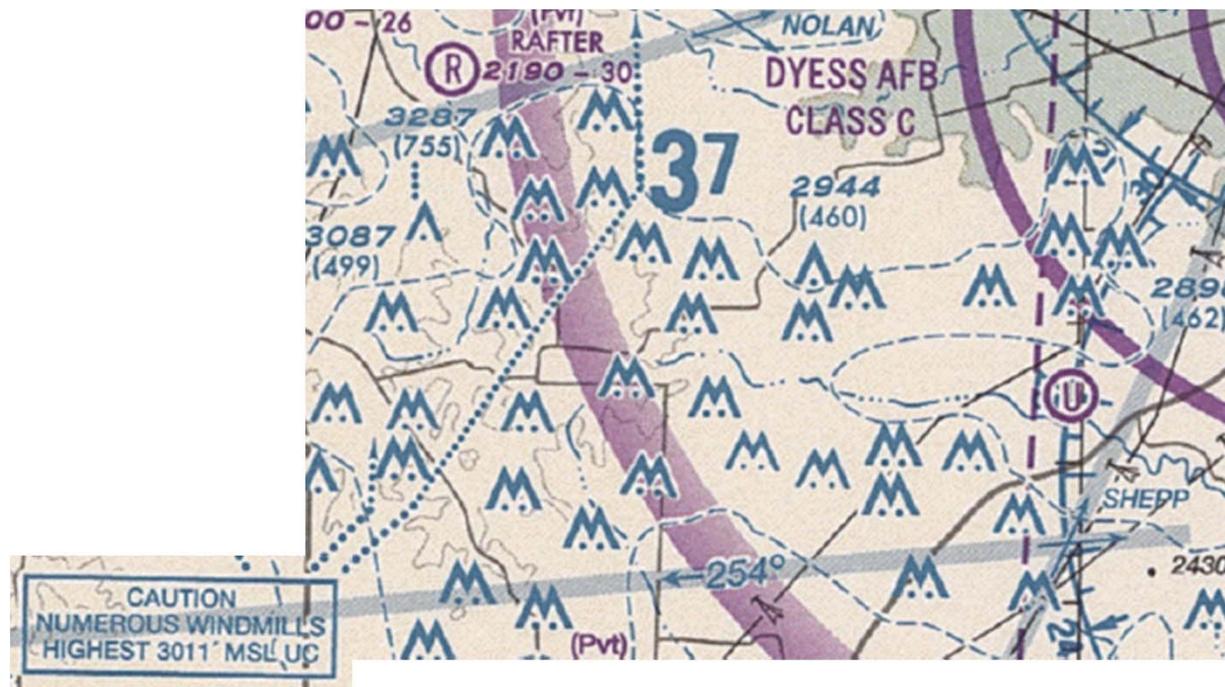
- As they will appear in the Sectional/TAC Legends

OBSTRUCTIONS

<p>1000 ft and higher AGL</p> 	<p>Below 1000 ft AGL</p> 	<p>Wind Turbine</p> 	<p>Wind Turbine Farm</p> 
		<p>Group Obstruction</p> 	<p>Elevation of the top above mean sea level → 2049</p> <p>Height above ground → (1149)</p> <p>Under construction or reported: position and elevation unverified → UC</p>
		<p>Obstruction with high-intensity lights; may operate part-time</p> 	<p>NOTICE: Guy wires may extend outward from structures.</p>

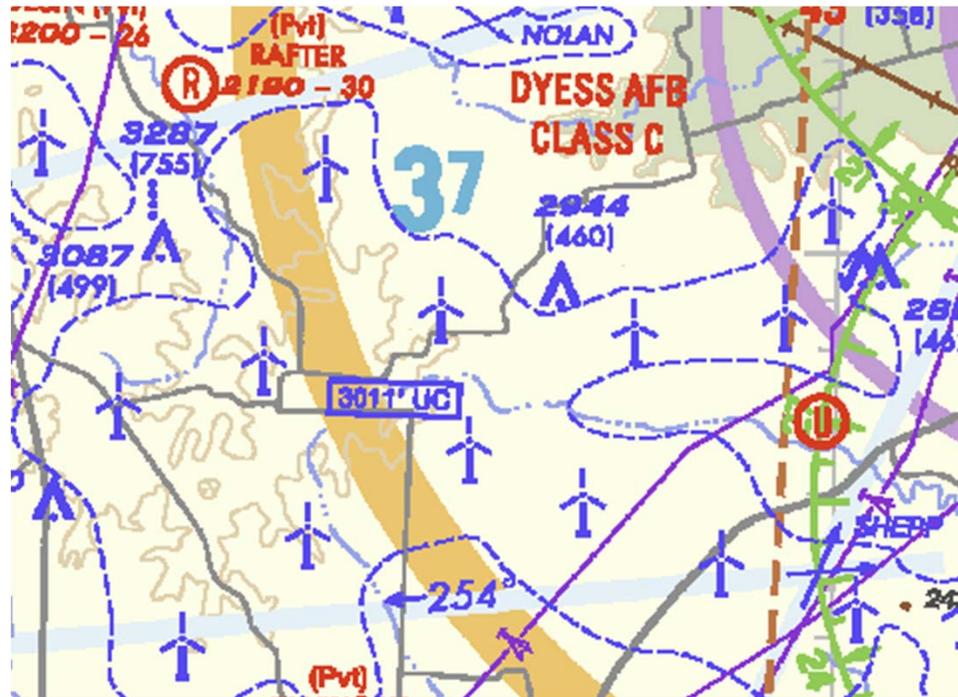
New Wind Turbine Symbols

- Current Dallas-Ft. Worth Sectional



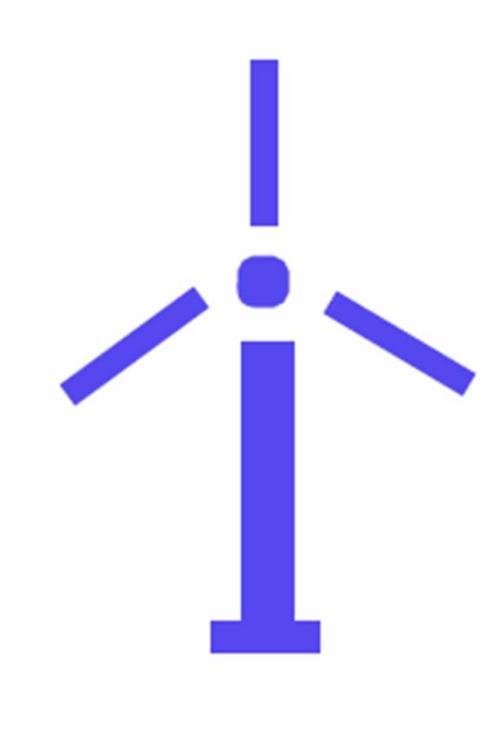
New Wind Turbine Symbols

- And with the new specifications...



New Wind Turbine Symbols

- **To be implemented
7 MAR 2013,
including:**
 - Atlanta
 - Billings
 - Dallas-Ft. Worth
 - Houston
 - Las Vegas
 - San Francisco





October 24-25, 2012

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