Offshore Wind Energy Development and Defense Mission Compatibility on the Outer Continental Shelf

VOWDA Board Meeting
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### DoD 2010 OCS Assessment

#### Mid-Atlantic Summary

**Mid Atlantic Planning/Program Areas**

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Oil &amp; Gas Activity</td>
<td>9%</td>
</tr>
<tr>
<td>No Permanent Oil &amp; Gas Surface Structures</td>
<td>5%</td>
</tr>
<tr>
<td>Site Specific Stipulations</td>
<td>22%</td>
</tr>
<tr>
<td>Unrestricted</td>
<td>64%</td>
</tr>
</tbody>
</table>

**No Oil & Gas Activity:**
- Live ordnance release and impact: - Air-surface missile/bomb
- Preservation of sensitive undersea & surface operations
- Combined Shipboard Systems Qualification Trials
- Developmental, Operational and Follow-on Testing and Evaluation
Methodology – Offshore Wind

• Categorize DoD offshore equities and potential wind energy development using:
  1. Unrestricted
  2. Site Specific Stipulations
  3. Wind Energy Exclusion Area

• DoD Operating Areas (OPAREAs), warning areas, and radar line-of-sight ranges overlaid on BOEM lease block grid

• Extensive analysis and coordination process with the military services
DoD Atlantic Offshore Wind Energy Mission Compatibility Assessments

<table>
<thead>
<tr>
<th>Category Type</th>
<th>Square Nautical Miles</th>
<th>Number of Lease Blocks</th>
<th>Percentage of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Restrictions</td>
<td>3,353.82</td>
<td>500</td>
<td>7.39%</td>
</tr>
<tr>
<td>Site-Specific Stipulations</td>
<td>29,592.94</td>
<td>4,408</td>
<td>65.17%</td>
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<tr>
<td>Wind Exclusion</td>
<td>12,465.28</td>
<td>1,857</td>
<td>27.45%</td>
</tr>
<tr>
<td>Total</td>
<td>45,412.04</td>
<td>6,765</td>
<td>100%</td>
</tr>
</tbody>
</table>
**VACAPES/VCERC WIND FARM PROPOSAL – FLEET ASSESSMENT**

**Drone Target Events**
- Dam Neck launch site (one-of-a-kind facility)
- Remotely operated surface and aerial targets
- Transits W-50 for targeting in W-72 (1A/1B)
- Returns via transit corridor
- Lands in W-50 / W-72(13) for retrieval

**CATEGORY 2: Surface Ship, Helicopter Transit**
- Possible tower spacing stipulations
- Possible tower height restrictions
- Possible radar tracking interference with FACSFAC radar

**CATEGORY 3: Aerial/Surface Target Live Fire Ops**
- Surface-to-air / Surface-to-surface target training

**CATEGORY 3: Air-air/ Surface-surface Live Fire**
- Mk80 series bombs, Hellfire, Maverick
- Live fire training against towed banners

**LEASE BLOCK EXTENSION CONSIDERATION**

- APR 2010

**Map Details**
- Drone Transit Corridor
- Wind Energy Compatibility Classification
  - Site Specific Conditions and Stipulations (CAT 2)
  - Wind Energy Exclusion Area (CAT 3)
  - VACAPES OAPERA
  - DoD Special Use Airspace/Warning Area

**Wind Energy Exclusion Area (CAT 3)**
- APR 2010
- Lease Block Extension Consideration

**Air Intercept Control Training**
- Helicopter Transit
  - Possible radar tracking interference
  - Possible tower spacing limitations
  - Possible tower height restrictions

**Air-air/ Surface-surface Live Fire Ordnance**
- Mk80 series bombs, Hellfire, Maverick
- Live fire training against towed banners