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<tr>
<td><strong>Project Title:</strong></td>
<td>California Offshore Renewable Energy</td>
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<td><strong>Document Title:</strong></td>
<td>Presentation - California Offshore Planning Areas - Informational &amp; Operational Overview</td>
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<tr>
<td><strong>Description:</strong></td>
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<td><strong>Filer:</strong></td>
<td>Misa Werner</td>
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California Offshore Planning Areas

Informational & Operational Overview

15 February, 2018
Context: DOD conducts training, testing and operations in the airspace, sea surface, subsurface and seafloor of California’s Outer Continental Shelf (OCS) – all of which are critical to military readiness and National Security.

Geography:
- Airspace– Restricted, Warning Areas, Air Traffic Control Assigned Airspace
- Sea and Undersea Space – Operating Areas, Safety/Danger/Exclusion/Restricted Zones
- Terrestrial – Dynamic full mission profile with live fire for Amphibious, Naval Special, and Strike Warfare
- Over-the-Horizon – Command & Control, Electromagnetic Warfare in contested environment, Combined Arms from sea to land

Instrumentation (communication and track):
- 700+ sq nautical mile in-water bi-directional hydrophone array (deep to shallow water)
- Electronic Warfare (>500nm)
- Surface Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC)
- Sub-surface minefields (sub, helo, ships, divers)
- Network connectivity = Common Operating Picture (COP)
DOD Training Requirements:

- Offshore Range availability ensures execution of Optimized Fleet Response Plan, and ability to meet deployment schedules for Navy forces across the spectrum (air, surface, undersea).
- Supports low-altitude training, electronic warfare training, surface navigation/seamanship, and ship/helo anti-submarine training.
  - ~2,500 training events/year
- Southern California Range Complex is the Pacific Fleet’s primary west coast training area, supporting the largest concentration of naval forces in the world.
  - Supports ~30k training events/year.
- Supports unit level training, complex group level training and major training exercises, including live fire activities.
- Irreplaceable instrumented underwater ranges
- Strike Fighter Wing Pacific utilizes offshore special use airspace for daily flight operations used for completing unit level qualification.
  - Supports basic, intermediate and advanced squadron training requirements.
  - Critical open ocean areas for carrier landing certifications.
DOD Testing Requirements:

- Real-time Command and Control of the Western Range
  - Spacelift Operations
  - Ballistic Missile Test and Evaluation
  - Orbital Vehicle Recovery
  - Aeronautical Test and Evaluation

- Assure our Nation’s Access to and from Space
  - Plan, schedule, operate range in support of launch agencies
  - Develop tailored mission flight rules
  - Terminate flight if required; protect the public

- Plan and Schedule all Western Range Operations
  - Pre-launch, launch and aeronautical operations
  - Coordinate, plan and task midrange and downrange support
DOD Testing Requirements cont.: 

- The Point Mugu Sea Range provides operationally realistic climatic and physical features that closely simulate conditions in many of the primary threat regions of the world, which allows for realistic testing and training of new planes, weapons and other systems prior to deployment.

- The combination of location, extensive instrumentation capacity, over-the-horizon command and control, unique test capabilities, and realistic sea/air environment for conducting large joint service test and evaluation or training exercises with integrated subsurface, surface, and air participants.

- Multi-service, multi-national, multi-participant testing & training
- Small scale tests & large, complex events
- Long-range, large hazard pattern weapons
- Littoral operations
- Air, surface, submarine launched weapons (sea/land)
- ICBM, missile defense, and polar orbit satellite launch
- Unmanned Systems RDAT&E
- Threat/Target T&E for Navy Targets
- Directed Energy RDAT&E
- Hypersonic RDAT&E
- Electronic Warfare RDAT&E
- Concurrent live-fire operations
- Subsonic/supersonic launch platforms

PROVIDE DECISION QUALITY DATA
CA State area #1 & 2
Impacts:
- Creates background clutter in any radar looking north/northeast/east from OPS in W532/W289.
- Military Training Routes ingress and egress near these sites
- Blocks potential radar and launch capabilities from Ft Hunter-Liggett.
- Could cause commercial shipping be pushed further into PMSR.
- Impacts target/weapon launch/tracking capabilities

CA State area #3, 5 & 6
Impacts:
- Impact low level flights in the entire eastern 1/3 of W532.
- Would necessitate longer flight times from inland airfields to testing/training areas further offshore.
- Blocks radar coverage from VAFB and from proposed radar site at FHL
- Impacts target/weapon launch/tracking capabilities

CA State area #1
Impacts: NSW OPS, CNAP/CSFWP (F/A-18 & JSF), & FACSFAC RADARS, SAR Operations. In proximity of VR-1262 Low level entrance.

CA State area #6
Impacts: CSP Navigation and transits

CA State area #3
Impacts: CSP Navigation and transits

CA State area #4
Impacts:
- C3F, CNSP, NSW and CSP Safety of Navigation and Transit
- Cause background clutter to radars looking south from VAFB, west from Pt Mugu.
- USCG/OAA TSS would be more than half-blocked. Safety issue, and re-routed ships issue.
- Physical/electronic impact to IR 200.
- Severe impact to NAVSEA Surface Warfare Engineering Facility site
Back Up
Launch Satellites

Why the Central Coast?

Equatorial Orbit from Cape Canaveral

Polar Orbit from Vandenberg

Intelligence, Surveillance & Reconnaissance

Weather

Combat Search and Rescue Capability

Natural Disaster Monitoring
Western Range provides Team V Partners unique capabilities for their vital National Missions.