Key Points

• Testing, including live fire, is essential to provide safe, effective weapons and equipment for our military personnel
• Training is essential to ensure military personnel are prepared for combat missions
• The Point Mugu Sea Range is a unique and irreplaceable national asset critical to testing DoD weapons systems, and training our sailors to go into harm’s way and return safely
• STS1 would have significant impacts on the Sea Range mission
Point Mugu Sea Range

- Realistic sea operational environment
- 36,000 sq mi of controlled sea / airspace
- Extended to over 200,000 sq mi
- Extensive instrumentation
- Air, sea, littoral targets

Only DoD range for testing of & training with many weapons systems!
Surface-to-Air

- Fleet surface-to-air missile operations incorporating live fire of advanced surface weapons
- Typically one to three surface participants against two targets; maximum of 7 shooters against 12 targets
- MDA Intercepts: Arrow, AEGIS/SM-3, etc.
Surface-to-Surface

- Test, training and experimentation ops involving surface launched weapon systems:
- Ship attack throughout the Sea Range
- Land attack: launch occurs on the Sea Range with impact at San Clemente Island, China Lake, or further inland
Air-to-Air

- Test, training and experimentation scenarios incorporating live fire of advanced air-to-air weapons
- Up to 4 shooters against 5 targets
- Fleet training scenarios include repeated stream raids
Air-to-Surface

- Aviation strike operations against both sea and ground targets.

- SNI is the only location in the Pacific at which SLAM test or training exercises can be conducted.
Satellite and Strategic Missile Launch Support

- Launch area support (tracking, telemetry, comm., flight termination) for all ballistic missile and satellite launches from Vandenberg AFB
Flexibility Is Critical

• Many things can affect schedules
  – Availability of ships & aircraft
  – Unreliability of unproven systems
  – Weather
  – Non-participants in a hazard area
• Events often scheduled with multiple backups
Senior Operators Impact Report

- Establish a quantitative baseline of the scope and intensity of military activities in the Sea Range
- Completed – November 2006
- Results…
Cumulative Sea Range Use
Number of Events

- RDT&E, training and other events are conducted continuously throughout the year.
- Event scheduling is a function of multiple interrelated factors including ship availability and scheduling for both RDT&E and training events.
- May “spike”: one or more periods each year expected to exhibit above average usage due to these factors.
- Requirements for access are continuous, but not inherently predictable or uniform over time.
Point Mugu Sea Range Boundary (Approx)
STS Transfer Operations
(As Described in Oceanway Documentation)

• Operations would be conducted either drifting or slow steaming
• Duration: 23-30 hours
• Site Selection Criterion: “The use of an STS transfer location will minimize or avoid interruption to...USN operations...”
Existing Vessel Traffic

- Short duration
- Can be rerouted
STS1 Impacts on Sea Range

- Critical test & training events will be postponed or cancelled
- Testing requirements for new & updated weapons systems will not be met
- Ships & aircraft will deploy without adequate training
Conclusions

• The Point Mugu Sea Range is a unique and irreplaceable resource and national asset.
• Scope of Sea Range activities routinely encompasses 36,000 sq mi and regularly requires access to over 200,000 sq mi of ocean area and airspace.
• Activities intensively and continuously occur on the Sea Range; over 17,000 separate events per year.
• Flexibility is critical to meeting test and training requirements
• STS1 would have significant impacts on the Sea Range testing & training mission