



NOAA's National Marine Fisheries Service
Southwest Regional Office- Habitat Conservation Division

Wave Project Update

Sanctuary Advisory Council

March 25, 2008

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Why is NMFS interested in Hydrokinetics?

- West coast wave energy gold rush
 - Lots of projects, lots of water
- NOAA resources and authorities implicated
 - MMPA, MSFCMA, ESA, FPA, NMSA, FWCA
- What is a preliminary permit?
- First west coast license issued



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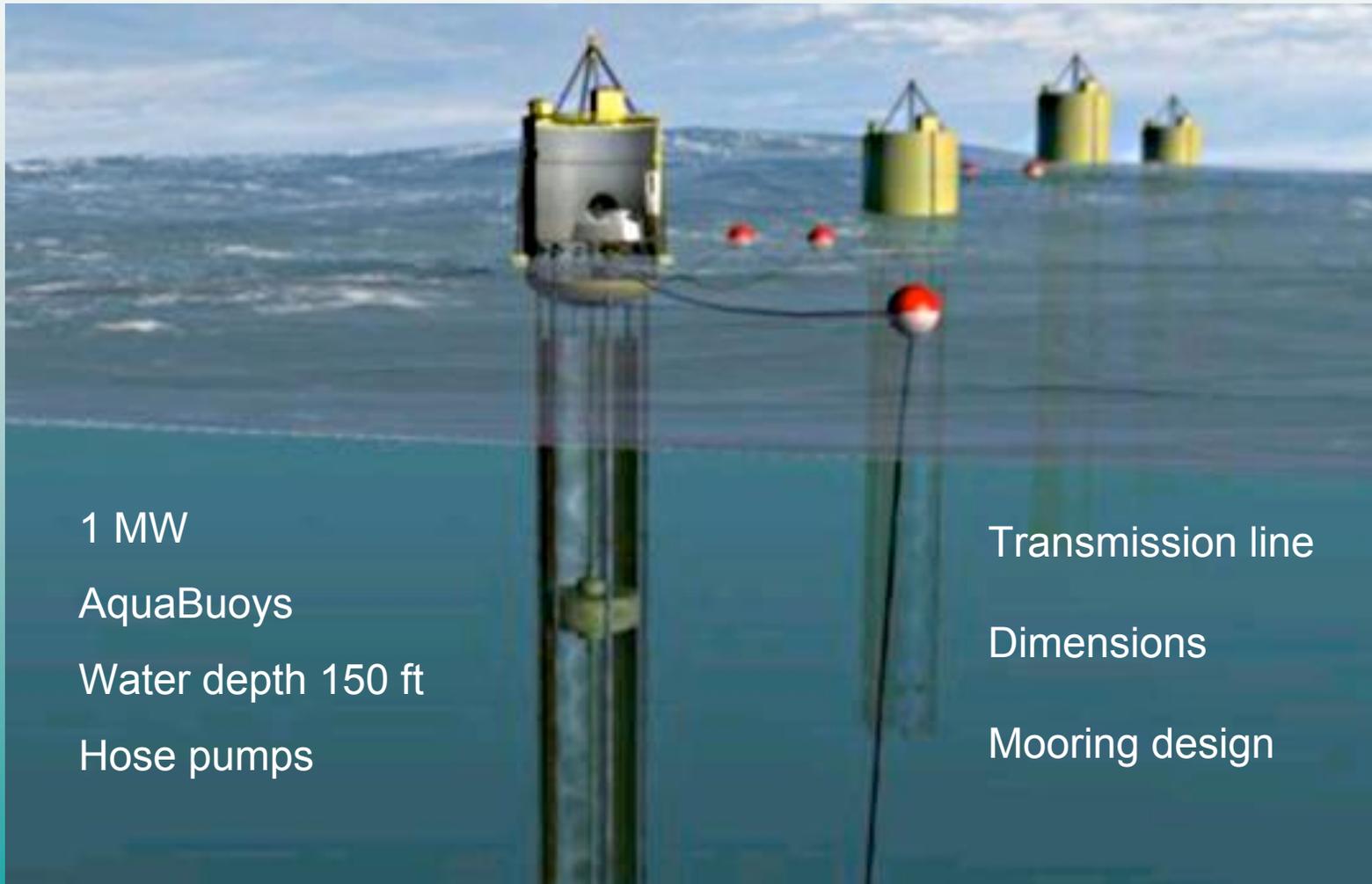
Makah Bay Wave Energy Project Conditional License (P-12751)

- What is a conditional license?
 - Has eligibility requirements
 - Available quickly
 - 5 year term with option for more.
 - Allows connection to grid
 - No environmental review necessary
 - Does not allow construction



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Makah Bay Wave Energy Project (P-12751)



1 MW

AquaBuoys

Water depth 150 ft

Hose pumps

Transmission line

Dimensions

Mooring design

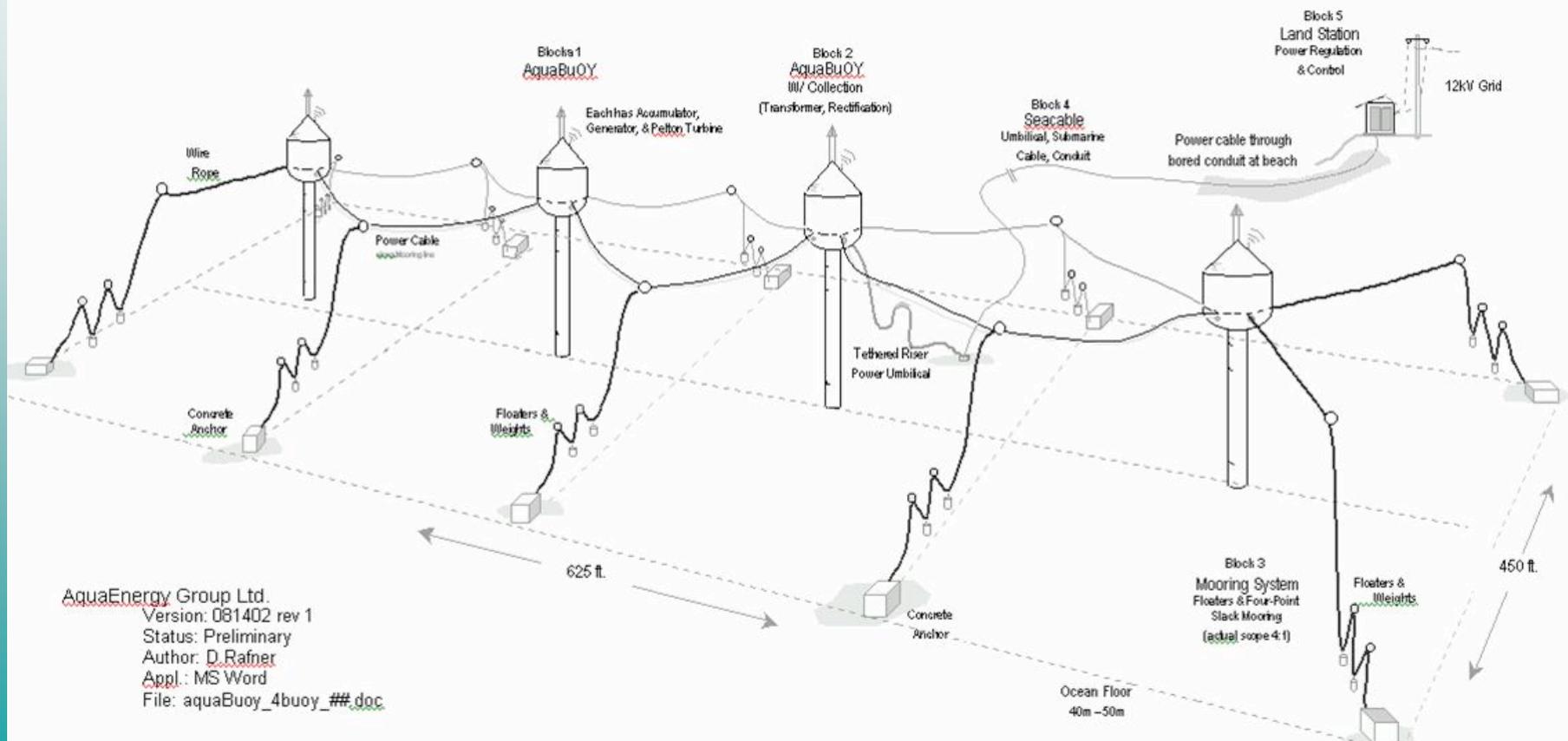


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Makah Bay Wave Energy Project (P-12751)

Wave Energy Conversion (WEC) Buoy in
Multi-Buoy Configuration w/ Onboard
Turbine and Generator.

Dimensions and distances not to scale.
Refer to block descriptions for details.



Makah Bay Wave Energy Project

- NOAA FPA 4(e) terms and conditions included
 - Seafloor and eelgrass studies
 - Design review
 - Site inspections
 - Antifouling compound study & plan
 - Noise study & plan
 - Electromagnetic field study & plan
 - **Marine mammal entanglement and collision plan**
 - Bond and Decommissioning Plan



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Makah Bay Wave Project Status

- Makah, WDE, WDNR request rehearing
 - CZMA, CWA, ESA consistency not complete
 - OCNMS not a “reservation”
- FERC determination
 - No violation
 - Sanctuary not a reservation, so 4e’s don’t apply
 - Adopted all but 2 NOAA “recommendations” under FPA 10(a)
 - Future collaboration on authorities
- NOAA OGC 3/21/08
 - File for another rehearing
 - Continue to assert 4e authority for SCWA project



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Sonoma Coast Hydrokinetic Energy Project (P-13076)

- The Sonoma Coast to 12 miles
- 2-5MW, then 500-1000MW?
- Multiple technologies
- SCWA
 - Completely transparent process
 - Stakeholder group
- FERC is handling for now
- Draft proposed rulemaking for OCS



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Where to Get Information

- Cordel Stillman at SCWA
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- Stephen Bowler at FERC
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- Maurice Hill at MMS
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- www.ferc.gov (register, subscribe)



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- Hardcopy Filing & Forms

- Related Topics
- › DOE National Transmission Grid Study PDF
 - › FOIA/CEII
 - › Staff Report

Documents & Filing

eLibrary

Access documents issued and received by FERC

Notice - Order No. 702

Order 702. In compliance with [Order No. 702 in RM06-23](#) PDF

All records that formerly had the security level of Non-Internet Public (NIP) were converted earlier to public, and the security level of NIP was eliminated.

eLibrary screens and records have been modified:

- To remove the labels "Non-Internet Public" and "NIP"
- To indicate that public requesters for CEII material should file a CEII request under 18 CFR § 388.113.

Separate Clean-up Activity. In an unrelated effort to clarify the wording in eLibrary, the label "Privileged" has replaced the label "Non-Public", to reflect the wording used in 18 CFR. This is just a clean-up measure; it does not affect the processing of, or access to, these documents.

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Annual Charges

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Industry Activities

Hydrokinetic Projects

Hydroelectric Licensing
Rulemaking, Order 2002Interagency Task Force
(ITF)

General Information

Gas

Liquefied Natural Gas (LNG)

Oil

Industries

Hydropower - Industry Activities

Hydrokinetic Pilot Project Licensing Process

FERC staff developed a licensing process for hydrokinetic pilot projects tailored to meet the needs of entities interested in testing new technology, including connection with the interstate grid, while minimizing the risk of adverse environmental impacts. The goal of the pilot process is to allow developers to test new hydrokinetic technologies, to determine appropriate siting of these technologies, and to confirm their environmental effects, while maintaining FERC oversight and agency input. The process completes licensing in as few as six months to allow for project installation, operation, and environmental testing as soon as possible.

Projects eligible to use this process are of limited size, are removable or able to shut down on short notice, and are not located in waters with sensitive designations. The resulting license would be short-term and include rigorous environmental monitoring and safeguards.

- » [White paper on Hydrokinetic Pilot Project Licensing Process](#) 
- » [Process Flowchart](#)

Contact Information

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Prior Technical Conferences

- » Technical Conference on Hydrokinetic Technologies Pilot Project Workshop (AD07-14-000), October 2, 2007 [Event Details](#)

Hydrokinetic Projects

- » Issued Hydrokinetic Projects Preliminary Permits
- » Pending Hydrokinetic Projects Preliminary Permits
- » Issued & Pending Licenses
- » Hydrokinetic Pilot Project Licensing Process

Additional Information

What is NMFS FERC Team Doing?

- Tracking Projects
- Intervention
- Providing input to development of licenses
 - Stakeholder groups
- OPC information gap analysis
- Information/webpage development
- Coordination needed



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Pelamus WECs

