Reedsport Wave Energy Project
Crabbing/Fishing Impacts—November 28, 2006
Meeting Summary

In attendance:
Dana Bowman
Dean Frost
Craig and Carla Hedgepeth
Gary Hayes
Barry Nelson
Terry Newport
Rick Ekelund
Keith Tymchuk, Port of Umpqua
Therese Hampton, Oregon Solutions
Steve Kopf, Ocean Power Technologies

Therese Hampton started the meeting with introductions and the meeting purpose. The objective of the meeting is to develop a relationship with local crabbing and fishing interests to discuss potential impacts, issues and remedies.

Steve Kopf provided an overview of the project, the desired schedule for implementation, and answered questions about project details. Highlights from this presentation are:

- Ocean Power Technologies (OPT) is based in New Jersey
- They have test buoys in Hawaii and New Jersey.
- They have filed with Federal Energy Regulatory Commission (FERC) for a preliminary permit to evaluate and assess development of the site. Upon receipt of a preliminary permit, OPT can file an application for development of the site.

The company has the following desired project development schedule:

- **Summer of 2007:** 150 kW single buoy anchored in place for testing and evaluation.
- **Summer of 2008:** Additional thirteen buoys (total of 14 buoys and 2.1 MW) in place as an array under FERC license and under study.
- **Future development:** Total of 200 buoys and 50 MW occupying an area of up to ½ mile by 3 mile
Steve provided pictures of the buoys themselves and the mooring system.

- Maximum project size based on the FERC application is 1 mile by 5 miles.
- Steve discussed that it is the best economic interest of the company to locate the buoys as close together as is possible, which is consistent with crabbing/fishing interests.
- Full development is 200 buoys, estimated to be 4 rows (running north to south) of 50 buoys.
- Targeted project size is approximately 1/2 mile by 3 miles.
- The buoys are approximately 147 feet tall. When in the water about 27 feet is above water. The buoy includes float on the sea surface that is about 37 feet in diameter.
- To connect to the electric grid, a subsea cable will run from the project to shore.

There was good discussion among everyone in the room. There were a lot of concerns shared about the specific impact of this project to crabbing and fishing. There was also some discussion of the overall benefit to the local area. Steve Kopf shared the expectation that jobs will be created locally to provide the maintenance on the buoys. In addition, there is an interest in manufacturing the buoys somewhere in the State of Oregon. Outlined below are the key issues that were discussed:

- **Lost productivity:** The area of the proposed wave park is a good fishing and crabbing area. There is concern that without access to this site, overall fishing productivity will be reduced.
- **Lost gear:** Both crab and fishing gear could be lost in the wave park. There is concern that crab pots will drift into the wave park and be lost both in normal conditions, but more likely bad weather conditions. Further, there is concern of losing trolling lines by catching on the mooring cables.
- **Navigational Safety:** There is an interest in having the area clearly marked to assure that boats are not in danger of buoys or cables.
- **Security of Buoys:** How secure are the buoys? Will the mooring system withstand severe weather? There is some concern of a buoy breaking loose in poor conditions. Steve Kopf emphasized the mooring system is based on existing technology used extensively in other industries.
- **Other development:** What other wave park developments are planned for this area? Is this the only loss of crabbing/fishing grounds or will there be more.
- **Local Benefit:** There is concern about negative economic effects to the crabbing and fishing, but parties want to understand the benefits of the project to the community. One area of benefit discussed was the benefit the project would provide to secure dredging funds.
- **Subsea Cable:** Will the area where the subsea cable is laid be unavailable for crabbing/fishing?

Throughout the discussion, ideas were offered to address the issues. Some parties asked for compensation for lost productivity. There were other ideas offered to address impact associated with lost gear. One idea was to recover gear when divers are working on the buoys. Another suggestion to minimize impacts to crabbing and fishing was to place the
buoys north-south rather than on fathom lines. This was suggested to be more consistent with how crabbers and fishermen work.

Because development of the project is phased over a 5 or so year period, there was some attempt to discuss the impact in phases. For example, is there significant impact from a single buoy with a footprint of about 200 yards by 200 yards and no subsea cable. The general reaction in the room was that there was little impact. The next phase of development is for an array of 13 buoys. The footprint of this array could be up to \( \frac{1}{2} \) mile by \( \frac{1}{2} \) mile. There was some discussion of the impacts, but more discussion is needed.

**Next Steps:**

- Therese Hampton to work with Port Manager and the Crab Commission to find a good meeting day to continue the discussion. Likely to be sometime in January.
- Parties to think about how to quantify the impacts of lost ground and lost gear for discussion at the next meeting.
- Provide the specific GPS coordinates of the area filed for consideration in the FERC application:

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