

**Agency: Commerce, Community and Economic Development****Grants to Named Recipients (AS 37.05.316)****Grant Recipient: NSRAA****Federal Tax ID: 92-0062550****Project Title:****Project Type: Remodel, Reconstruction and Upgrades**

# Northern Southeast Regional Aquaculture Association - Net Pens and Hatchery Deferred Maintenance

**State Funding Requested: \$707,800****House District: Juneau Areawide (3-4)**

Future Funding May Be Requested

**Brief Project Description:**

NSRAA Deferred maintenance and purchase of new net pens

**Funding Plan:**

Total Project Cost:	\$707,800
Funding Already Secured:	(\$0)
FY2012 State Funding Request:	<u>(\$707,800)</u>
Project Deficit:	\$0

**Detailed Project Description and Justification:**

Incubation, Thermal Marking, and Spawning

NOPAD Incubators – This expansion will require the purchase of 50 new aluminum NOPAD incubators at a cost of approximately \$1,125 each. Each incubator is loaded with approximately 200,000 eyed eggs. NSRAA has on hand approximately 20 old-style NOPAD incubators that are barely serviceable and do not have the same incubation capacity as these new deep-tray incubators. These old incubators are in need of being replaced and staff does not think it prudent to use them if possible.

R-48 Incubators – These incubators are used for initial incubation to the eyed egg stage. They are the most efficient incubator for this stage of development and because they use less water during this period are the best to use for thermal marking. There are presently no surplus R-48 incubators for this project at Medvejie. It is estimated that each new fiberglass incubator will cost ~\$1,000.

Plumbing & facility modifications – In order to accommodate the increased numbers of eggs to incubate, modifications to the chum building water delivery and recirculation plumbing will be necessary. Additional piping and valves in two buildings will be needed to accommodate both the NOPAD and R-48 incubators.

Thermal marking system upgrades – NSRAA was able to develop a heated recirculation system that has allowed us to thermally mark all of our present chum production in our “old chum building”. Additional heaters, controls and plumbing will need to be added to that system and another identical system added to our “New chum building” incubation system. These improvements will be necessary to meet the permit requirement of otolith marking all of the Medvejie Hatchery chum

production.

Spawning & eggtake facility upgrades – The Medvejie Hatchery was originally designed to accommodate adult chum recruitment for eggtakes of about 30 million eggs. With the recently approved Permit Alteration Request for these additional 10 million eggs, the overall permitted egg capacity will now be 53 million eggs, 23 million more than the original design. Modifications and improvements to the fish ladder, adult raceways and spawning area are needed to accommodate the numbers of eggs and fish now being handled. In addition, it is imperative to now treat the broodstock carcasses with the same care as a fisherman. The carcasses are now purchased by processors and have a market value. Carcasses must be iced in totes to await delivery to tenders of processing plants. Because of this, the entire spawning operation needs to be redesigned and reconstructed.

Rearing Pens and Feed Float

Wavemaster Net Pen Frames & Nets & Weights – In order to safely and efficiently rear the additional 10 million fry to an average release size of 2 grams it will be necessary to purchase 4 galvanized steel net pen frames and associated rearing nets. The Wavemaster steel net pen frames are the standard frames the industry now uses. They have an anticipated service life of 30 to 50 years.

Anchor/chain/buoy – This project will double the numbers of the chum being raised at Bear Cove adjacent to Medvejie Hatchery. Presently there are 20 net pens of chinook smolts also rearing in the immediate vicinity of these chum and it will be necessary to move the chum rearing complex away from the chinook pens. Thus a new anchor system will need to be deployed to moor this rearing complex.

Fish food storage float – A small mobile barge with a fully enclosed storage building will need to be constructed to serve as a feed storage facility for the new chum rearing complex. This barge will need an approximate capacity of at least 20 tons and be able to be moved with the hatchery skiffs. Hatchery staff have built a number of these over the years.

### Project Timeline:

The project will be completed by year end 2012

### Entity Responsible for the Ongoing Operation and Maintenance of this Project:

NSRAA

### Grant Recipient Contact Information:

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Has this project been through a public review process at the local level and is it a community priority?  Yes  No