



Your Northwest Renewables Utility invites you to be a Conservation Sensation!

February 29, 2011

Via Electronic Filing

The Honorable Kimberly D. Bose
Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, DC 20426

**Re: Public Utility District No. 1 of Snohomish County, Washington, FERC
Project No. 12690-000; Final Pilot License Application for the Admiralty
Inlet Pilot Tidal Project**

Dear Secretary Bose:

Public Utility District No. 1 of Snohomish County, Washington ("the District") encloses for filing the attached Application for a Hydrokinetic Pilot Project License for the Admiralty Inlet Pilot Tidal Project ("Project"). The attached Final License Application is being filed pursuant to the Federal Energy Regulatory Commission's ("Commission") July 7, 2011, letter order approving the District's request to use the pilot licensing process, which provides for an expedited process that may result in a final licensing decision by the Commission in as few as six months.

The District is excited to be submitting the enclosed Final License Application after investigating the tidal energy resource in and around Puget Sound for more than five and a half years. Agencies, tribes, and other stakeholders have devoted significant resources and expertise to this Project, greatly assisting the development of all aspects of the Project and helping create a Project that allows for the investigation of tidal energy while protecting the natural resources within Puget Sound. This effort resulted in the District's filing of a Draft License Application for the Project in December 2009.

The District continued to work with agencies and stakeholders throughout 2010 and 2011 to further refine the details of the Project, identify the potential impacts from its operation, and finalize the monitoring plans required to safeguard the public and environmental resources. On August 6, 2010, the District received a request from the Commission for additional information about the Project, stating that the information would allow the Commission to fully evaluate the proposed Project and allow for the expeditious processing of the final license application once submitted.

The District is now poised to install Project facilities near the end of 2013. In order to accomplish this schedule, the District must receive its Commission license within the six month timeframe described in the Commission's pilot licensing whitepaper, and complete the remaining permitting and contractual obligations shortly thereafter. However, without a prompt review of the District's Final License Application from the Commission, the District will have no chance to meet the 2013 installation window.

Successful tidal energy demonstration at Admiralty Inlet may enable significant commercial development of hydrokinetic energy elsewhere in Puget Sound and in other regions of the country, resulting in important benefits for both the northwest region and the country as a whole. The Project is already globally recognized as one of the leading marine energy efforts in the United States, and has substantial support throughout the region.

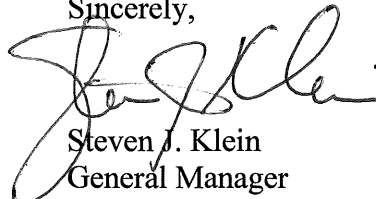
The Final License Application includes four volumes. Volume I includes the Initial Statement, an Executive Summary, the Pilot Process Justification and Process Plan, and Exhibits A, F, and G. Volume II consists of Exhibit E. Volume III includes the District's proposed monitoring plans and record of consultation, and Volume IV consists of the District's Draft Biological Assessment.

The District is making the Final License Application available to the persons on the attached distribution list and by posting the Final License Application on the District's website at <http://www.snopud.com/PowerSupply/tidal.ashx?p=1155>. In addition, in accordance with 18 C.F.R. § 5.18(a)(3), the District is notifying owners of land within and adjacent to the Project boundary, as well as the entities listed in the Initial Statement, of the filing of the Final License Application by certified mail. Finally, the District is publishing notice of the filing of the Final License Application, pursuant to 18 C.F.R. § 5.17(d)(2), in a newspaper of general circulation in Island County, where the Project is located, and will promptly provide the Commission with proof of publication of the notice.

The District looks forward to working with the Commission and stakeholders to ensure timely issuance of a pilot license for the Project. If you have any questions regarding the District's Final License Application and accompanying documents, please contact Craig Collar, Senior Manager, Energy Resource Development, at (425) 783-1825, or cwcollar@snopud.com.

Thank you for your assistance in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven J. Klein". The signature is fluid and cursive, with a large initial "S" and "K".

Steven J. Klein
General Manager

Admiralty Inlet Pilot Tidal Project [FERC P-12690]
Interested Parties Distribution List

Company Name	First Name	Last Name	Title	Address Line 1	Address Line 2	City	State	ZIP Code	Work Phone	E-mail Address
<u>Federal Agencies:</u>										
Federal Energy Regulatory Commission	William	Guey-Lee	Office of Energy Products, FERC	888 First Street, NE		Washington, D.C.		20426	202/502-6064	william.gueylee@ferc.gov
Federal Energy Regulatory Commission	Merrill	Hathaway	Office of the General Counsel, Energy Projects, FERC	888 First Street, NE		Washington, D.C.		20426	202/502-8825	merrill.hathaway@ferc.gov
** Bonneville Power Administration	John G.	Schaad, P.E.	Customer Service Engineering	TPC/Alvrey	86000 Highway 99 S	Eugene,	OR	97405	541/988-7421	jgschaad@bpa.gov
Bonneville Power Administration	Scott	Coe	Power Services, Generation Assett Management	905 NE 11th Avenue	PO Box 3621	Portland,	OR	97208-3621	503/230-3691	sacoe@bpa.gov
** U.S. Department of the Interior	Preston A.	Sleeeger	Regional Environmental Officer	Office of Environmental Policy and Compliance	500 NE Multnomah Street, Suite 356	Portland,	OR	97232-2036		preston.sleege@ios.doi.gov
** U.S. Dept. of the Interior, Bureau of Indian Affairs	Ms. Jennifer	Frozena	Hydropower Policy Specialist	Portland Area Office	911 NE 11th Avenue	Portland,	OR	97232	503/231-6750	NO E-MAIL ADDRESS
** U.S. Dept. of the Interior, Bureau of Indian Affairs			Division of Natural Resources	The Federal Building	911 NE 11th Avenue	Portland,	OR	97232		
U.S. Department of the Interior			Office of Environmental Affairs	Room 2340 MIB	1849 C Street NW	Washington,	D.C.	20240	202/208-3100	webteam@ios.doi.gov
U.S. Department of the Interior	The Honorable Dirk	Kempthorne	Secretary	1849 C Street NW		Washington,	D.C.	20240	202/208-3100	webteam@ios.doi.gov
** National Park Service	Ms. Kelly	Powell	Environmental Compliance Reviewer	168 South Jackson Street		Seattle,	WA	98104	206/220-4106	kelly_powell@nps.gov
** National Park Service	Kelly	Powell	Rivers, Trails and Conservation Assistance/Hydropower	909 First Avenue		Seattle,	WA	98104	206/220-4121	kelly_powell@nps.gov
National Park Service	Joan	Harn							202/354-6929	joan_harn@nps.gov
National Park Service									206/220-4121	Susan_Rosebrough@nps.gov
U.S. Fish & Wildlife Office for Western Washington	Brian	Peck		510 Desmond Drive SE		Lacey,	WA	98503-1273	360/753-9560	brian_peck@fws.gov
U.S. Fish & Wildlife Services for Western Washington	Ken	Berg, Manager	U.S. Fish and Wildlife Service	510 Desmond Drive SE, Suite 102		Lacey,	WA	98503		ken_berg@fws.gov
** U.S. Fish & Wildlife Service	Tim	Romanski		Western Office	510 Desmond Drive SE	Lacey,	WA	98503	360/753-5823	Tim_Romanski@fws.gov
** National Marine Fisheries Service	Keith Ray	Kirkendall	Branch Chief	1201 NE Lloyd Blvd. Suite 1100		Portland,	OR	97232-1274	503/231-6893	Keith.Kirkendall@noaa.gov
National Marine Fisheries Service	D. Robert	Lohn	Regional Administrator	7600 Sandpoint Way NE		Seattle,	WA	98115-0070	206/526-6150	NO E-MAIL ADDRESS
National Marine Fisheries Service	Thomas	Sibley							206/526-4446	Thomas.sibley@noaa.gov
National Marine Fisheries Service	Scott	Carlon		1201 NE Lloyd Blvd., Suite 1100		Portland,	OR	97232-1274	503/231-2379	Scott.Carlon@noaa.gov
National Marine Fisheries Service	Alicia	Bishop	FERC and Water Diversions Branch	1201 NE Lloyd Blvd., Suite 1100		Portland	OR	97232	503/872-2854	Alicia.Bishop@noaa.gov
National Marine Fisheries Service	Alison	Agness	Protected Resoures Division - Marine Mammals						206/526-6152	alison.agness@noaa.gov
National Marine Fisheries Service	Brent	Norberg	Protected Resoures Division - Marine Mammals						206/526-6550	brent.norberg@noaa.gov
National Oceanic and Atmospheric Administration	William F.	Broglie	Chief Administrative Officer	SSMC4	1305 East West Hwy	Silver Spring,	MD	20910-3281	301/713-0836	william.broglie@noaa.gov
National Oceanic and Atmospheric Administration	Jane	Hannuksela	Attorney Advisor	7600 Sand Point Way NE		Seattle,	WA	98115		Jane.Hannuksela@noaa.gov
National Oceanic & Atmospheric Administration	Christopher	Fontecchio	Attorney-Advisor	7600 Sand Point Way NE		Seattle,	WA	98115	206/526-6153	Chris.Fontecchio@noaa.gov
U.S. Environmental Protection Agency	Christine	Reichgott	Hydropower Coordinator for Region 10	1200 Sixth Avenue		Seattle,	WA	98101	206/553-1601	reichgott.christine@epa.gov
<u>Military:</u>										
** U.S. Army Corp of Engineers	Marian	Valentine	Hydraulic Enginer	4735 E. Marginal Way South		Seattle,	WA	98134	206/764-3543	marian.l.valentine@usace.army.mil
** U.S. Army Corp of Engineers	Olivia	Romano							206/764-6960	Olivia.h.romano@usace.army.mil
** U.S. Army Corp of Engineers, Northwest Division	Randel J.	Perry	Seatlle District Regulatory Branch	1125 NW Couch Street	PO Box 2870	Portland,	OR	97209	503/808-3700	Randel.J.Perry@usace.army.mil
U.S. Army Corp of Engineers, Seattle District	Karen L.	Durham-Aguilera, P.E.	Programs Director	Regulatory Branch	PO Box 3755	Seattle,	WA	98124-3755	206/764-3495	karen.l.durham-aguilera@mvn02.usace.army.mil
United States Navy	Dan	Hayes	Region Northwest Representative						360/315-5400	dan.hayes@navy.mil
United States Navy, Northwest Region	Richard L.	Melaas	Community Plans & Liaison Officer	3730 N Charles Porter Avenue		Oak Harbor,	WA	98278	360/257-3315	richard.melaas@navy.mil
United States Coast Guard	Chad	Smith	Vessel Control Chief						206/217-6050	chad.a.smith@uscg.mil
United States Coast Guard	Mark E.	Ashley	Vessel Control Section	1519 Alaskan Way S.		Seattle	WA	98137	206/217-6050	mark.e.ashley@uscg.mil
<u>Congressional Delegation:</u>										
** United States Senate	The Honorable Maria	Cantwell		511 Dirksen Senate Office Building		Washington,	D.C.	20510	202/224-3441	maria_cantwell@cantwell.senate.gov
United States Senate	The Honorable Maria	Cantwell	United States Senator	915 Second Avenue, Suite 3206		Seattle,	WA	98174	206/220-6400	maria_cantwell@cantwell.senate.gov
Office of Senator Maria Cantwell	Sally	Hintz	Northwest Washington Director	2930 Wetmore Avenue, Suite 9B		Everett,	WA	98201	425/303-0114	sally_hintz@cantwell.senate.gov
Office of Senator Maria Cantwell	Joel	Merkel	Legislative Analyst	511 Dirksen Senate Office Building		Washington,	DC	20515	202/	joel_merkel@cantwell.senate.gov
** U. S. House of Representatives	The Honorable Norm	Dicks	6th Congressional District, WA	2467 Rayburn House Office Bldg.		Washington,	D.C.	20515	202/225-5916	joshua.johnston@mail.house.gov
Norm Dicks Government Center, Suite 500	The Honorable Norm	Dicks	U. S. Representative for the 6th Congressional District	345 - 6th Street		Bremerton,	WA	98337	360/479-4011	joshua.johnston@mail.house.gov
6th Congressinal District for Western Washington	The Honorable Norm	Dicks	U.S. Representative for the 6th Congressional District	332 East 5th Street		Port Angeles,	WA	98362-3207	360/452-3370	joshua.johnston@mail.house.gov
** United States House of Representatives	The Honorable Jay	Inslee	U.S. House of Representatives	403 Cannon HOB		Washington,	D.C.	20515-4701	202/225-6311	jay.inslee@mail.house.gov
United States House of Representatives	The Honorable Jay	Inslee	United States Representative	17791 Fjord Drive NE, Door 12		Poulsbo,	WA	98370-8481	360/598-2342	jay.inslee@mail.house.gov
United States House of Representatives	The Honorable Jay	Inslee	United States Representative	Shoreline Center, Suite E-800	18560 - 1st Avenue NE	Shoreline,	WA	98155-2150	206/361-0233	jay.inslee@mail.house.gov
** United States House of Representatives	The Honorable Rick	Larsen	Washington State 2nd Congressional District	107 Cannon HOB		Washington,	D.C.	20515	202/225-2605	NO E-MAIL ADDRESS
2nd Congressional District DC Office	Kimberley	Johnston	Chief of Staff	107 Cannon HOB		Washington,	D.C.	20515	202/225-2605	kim.johnston@mail.house.gov
2nd Congressional District Everett Office	Jill	McKinnie	District Director	2930 Wetmore Avenue, Suite 9F		Everett,	WA	98201	425/252-3188	jill.mckinnie@mail.house.gov
<u>Native American Tribes and Tribal Councils:</u>										
** Jamestown S/Klallam Indian Tribe	The Honorable W. Ron	Allen	Chair	1033 Old Blyn Highway		Sequim,	WA	98382	360/683-1109	rallen@jamestowntribe.org
** Lower Elwha Klallam Indian Tribe	The Honorable Frances	Charles	Chair	2851 Lower Elwha Road		Port Angeles,	WA	98363	360/452-8471	fecharles@elwha.nsn.us
** Lummi Nation	The Honorable Darrel	Hillaire	Chair	2616 Kwina Road		Bellingham,	WA	98226-9298	360/384-1489	darrellh@lummi-nsn.gov
** Lummi Nation	Harlan	James		2616 Kwina Road		Bellingham,	WA	98226	360/384-2225	harlanj@lummi-nsn.gov
Lummi Indian Nation	Leroy	D		2616 Kwina Road		Bellingham,	WA	98226	360/384-1489	leroyd@lummi-nsn.gov
Lummi Nation	Randy	Kinley		2616 Kwina Road		Bellingham,	WA	98226	360/384-1489	randyk@lummi-nsn.gov
Lummi Nation	Elden	Hillaire	Chairman, LNR	2616 Kwina Road		Bellingham,	WA	98226	360/384-1489	eldenh@lummi-nsn.gov
Lummi Nation	Merle	Jefferson	Executive Directive, Lummi Natural Resources	2616 Kwina Road		Bellingham,	WA	98226	360/384-2225	merlej@lummi-nsn.gov
Lummi Nation	Evelyn	Jefferson	Chairwoman, LIBC	2616 Kwina Road		Bellingham,	WA	98226	360/384-1489	evelynj@lummi-nsn.gov
Lummi Nation	Alan	Chapman		2616 Kwina Road		Bellingham,	WA	98226	360/384-1489	alanc@lummi-nsn.gov
Lummi Nation	Jeremy	Freimund		2616 Kwina Road		Bellingham,	WA	98226	360/384-1489	jeremyf@lummi-nsn.gov
Lummi Nation	Dan	Raas	Tribal Attorney	2616 Kwina Road		Bellingham,	WA	98226	360/384-1489	danr@lummi-nsn.gov
Makah Tribal Council	Vince	Cook	Environmental Division Coordinator	PO Box 115		Neah Bay,	WA	98357	360/645-2201	mtcedm@centurytel.net
Muckleshoot IndianTribal Council	The Honorable John	Daniels, Jr.	Chair	39015 - 172nd Avenue SE		Auburn,	WA	98092	253/939-3311	john.danielsjr@muckleshoot.nsn.us
Nisqually Indian Tribe	The Honorable Cynthia	Iyall	Chair	4820 She-Nah-Num Drive SE		Olympia,	WA	98513	360/456-5221	iyall.cynthia@nisqually-nsn.gov

Admiralty Inlet Pilot Tidal Project [FERC P-12690]
Interested Parties Distribution List

Company Name	First Name	Last Name	Title	Address Line 1	Address Line 2	City	State	ZIP Code	Work Phone	E-mail Address
Nooksack Indian Tribal Council	The Honorable Narcisco	Cunanan	Chair	5017 Deming Road	PO Box 157	Deming,	WA	98244	360/592-5176	narz@nooksack-tribe.org
Northwest Indian Fisheries Commission	The Honorable Billy	Frank, Jr.	Chairman	6730 Martin Way E.		Olympia,	WA	98516	360/528-4320	bfrank@nwifc.org
Northwest Indian Fisheries Commission	Mike	Grayum	Executive Director	6730 Martin Way E		Olympia,	WA	98516	360/528-4305	grayum@nwifc.org
** Port Gamble S'Klallam Tribe	The Honorable Ronald	Charles	Chair	31912 Little Boston Road NE		Kingston,	WA	98346	360/297-2646	roncharles@pgst.nsn.us
Puyallup Tribal Council	The Honorable Herman	Dillon	Chair	3009 East Portland Avenue		Tacoma,	WA	98404	253/573-7835	NO E-MAIL ADDRESS
Samish Indian Nation	Christine	Woodward		PO Box 217		Anacortes,	WA	98221	360/293-6404	samish@samishtribe.nsn.us
Samish Tribe of Indians	The Honorable Tom	Wooten	Chair	2918 Commercial Avenue	PO Box 217	Anacortes,	WA	98221	360/293-6404	tomwooten@samishtribe.nsn.us
** Sauk-Suiattle Indian Tribe	The Honorable Janice	Mabee	Chair	5318 Chief Brown Lane		Darrington,	WA	98241-9420	360/436-0131	annarae@sauk-suiattle.com
** Skagit River System Cooperative	Stan M.	Walsh	Fisheries Biologist	11426 Moorage Way	PO Box 368	LaConner,	WA	98257	360/466-7228	swalsh@skagitcoop.org
Skokomish Indian Tribal Council	The Honorable Denese	LaClair	Chair	N. 80 Tribal Center Road		Shelton,	WA	98584	360/877-2200	laclair@hcpc.com
Squaxin Island Tribal Council	The Honorable Jim	Peters	Chair	SE 10 Squaxin lane		Shelton,	WA	98584-9200	360/426-9781	jpeters@squaxin.nsn.us
Stillaguamish Indian Tribe	The Honorable Shawn	Yanity	Chair	3310 Smokey Point Drive	PO Box 277	Arlington,	WA	98223	360/652-7362	syanity@stillaguamish.nsn.us
Suquamish Tribe	Michelle	Hansen	Attorney	PO Box 498		Suquamish,	WA	98392-0498	360/598-3311	nhansen@suquamish.nsn.us
Suquamish Tribe	Melody (Mel)	Allen	Tribal Attorney	PO Box 498		Suquamish,	WA	98392	360/394-8488	mallen@suquamish.nsn.us
Suquamish Tribal Council	Mark	Bubenik, Esq.	Legal Counsel	PO Box 498		Suquamish,	WA	98392	360/598-3311	mbubenik@suquamish.nsn.us
** Suquamish Tribal Council	The Honorable Leonard	Forsman	Executive Director	PO Box 498		Suquamish,	WA	98392	360/598-3311	lforsman@suquamish.nsn.us
** Suquamish Tribe Fisheries Department	Tom	Ostrom	Technical Contact	PO Box 498		Suquamish,	WA	98392	360/394-8446	tostrom@suquamish.nsn.us
Swinomish Tribe	James	Jannetta	Attorney	PO Box 817		LaConner,	WA	98257	360/466-3163	jjannetta@swinomish.nsn.us
** Swinomish Indian Tribal Community	The Honorable M. Brian	Cladoosby	Chairman	11404 Moorage Way	PO Box 817	LaConner,	WA	98257-0817	360/466-3163	bcladoosby@swinomish.nsn.us
Tulalip Tribes of Washington	Daryl Brent	Williams	Environmental Liaison	7411 Tulalip Bay Drive		Tulalip,	WA	98271	800/869-8287	williams@tulaliptribes-nsn.gov
** Tulalip Tribes of Washington	The Honorable Mel	Sheldon	Chairman, Board of Directors	6700 Totem Beach Road		Tulalip,	WA	98271	360/651-4500	melsheldon@tulaliptribes-nsn.gov
** Tulalip Tribes of Washington			Office of Reservation Attorney	6700 Totem Beach Road		Tulalip,	WA	98271-9694	360/651-4000	
** Upper Skagit Tribal Council	The Honorable Marilyn	Scott	Chairman	25944 Community Plaza		Sedro Woolley,	WA	98284-9739	360/854-7000	marilyns@upperskagit.com
Upper Skagit Tribal Council	The Honorable Louis	Cloud	Chair	PO Box 151		Toppenish,	WA	98948	509/865-5121	raemelle@yakama.com
State Agencies:										
Office of the Governor	The Honorable Christine O.	Gregoire	Governor	PO Box 40002		Olympia,	WA	98504-0002	360/902-4111	NO E-MAIL ADDRESS
Office of the Governor	Matt	Steuerwalt	Executive Policy Advisor to the Governor	PO Box 43113		Olympia,	WA	98504	360/	matt.steuerwalt@gov.wa.gov
Governor's Office of Indian Affairs	Craig A.	Bill	Executive Director	210 - 11th Avenue SW, Suite 415	PO Box 40909	Olympia,	WA	98504-8827	360/902-8827	cbill@goia.wa.gov
Governor's Office of Regulatory Affairs	Sally	Toteff	Regulatory Assistant Lead, Southwest Region	PO Box 47775		Olympia,	WA	98504-7775	360/407-6957	sally.toteff@ora.wa.gov
Governor's Office of Regulatory Affairs	Annie	Szvetecz							360/407-6957	Annie.szvetecz@ora.wa.gov
Governor's Office of Regulatory Affairs	Zelma	Zieman							425/649-7179	zelma.zieman@ora.wa.gov
Office of the Attorney General	Tiffany R.	Gilbertson	Legal Assistant	7141 Clearwater Drive SW		Tumwater,	WA	98501-6503		TiffanyG@atg.wa.gov
** Office of the Attorney General, Fish and Wildlife Division	William C.	Frymire	Senior Council	1125 Washington Street SE	PO Box 40100	Olympia,	WA	98504-0100		billf@atg.wa.gov
Office of the Attorney General, Natural Resources Division	Terence A.	Pruit	Assistant Attorney General	1125 Washington Street SE	PO Box 40100	Olympia,	WA	98504-0100	360/586-0642	terryp@atg.wa.gov
Office of the Attorney General, Ecology Division	Brian	Faller, Esq.	Assistant Attorney General	PO Box 40117		Olympia,	WA	98504-0117	360/586-6740	briantf@atg.wa.gov
Office of the Attorney General, Parks and Recreation Division	Michael B.	Ferguson, Esq.	Assistant Attorney General	1125 Washington Street SE	PO Box 40100	Olympia,	WA	98504-0100	360/753-6200	michaelf2@atg.wa.gov
** WA State Parks and Recreation Commission	Rex	Derr	Director	7150 Clearwater Drive SW	PO Box 42650	Olympia,	WA	98504-2650	360/902-8501	rex.derr@parks.wa.gov
WA State Parks and Recreation Commission	Terry	Doran	Northwest Region Manager	220 North Walnut Street		Burlington,	WA	98233		Terry.Doran@parks.wa.gov
WA State Parks and Recreation Commission	Don	Hoch	Puget Sound Regional Manager	2840 Riverwalk Drive SE		Auburn,	WA	98002-8207		Don.Hoch@parks.wa.gov
** WA State Dept. of Community, Trade & Economic Development	Tony	Usibelli	Division Director, Energy Policy Division	925 Plum Street SE, Building 4	PO Box 43173	Olympia,	WA	98504-3173	360/725-3110	tonyu@cted.wa.gov
WA State Dept. Community, Trade & Economic Development	Tim	Stearns							206/256-6121	tims@cted.wa.gov
WA State Department of Transportation	Lisa	Savoia	Assistant Attorney General	7141 Cleanwater Drive SW		Tumwater,	WA	98501-6503		LisaS6@atg.wa.gov
WA State Department of Transportation	David	Lemcke							206/705-7211	LemckeD@WSDOT.WA.GOV
WA State Department of Transportation	David	Lemcke							206/705-7211	LemckeD@WSDOT.WA.GOV
** WA State Dept. of Ecology	Rebekah	Padgett							425/649-7129	Rpad461@ecy.wa.gov
WA State Dept. of Ecology	Skip	Albertson							360/407-6676	Salb461@ecy.wa.gov
WA State Dept. of Ecology	Sheila	Hosner	Office of Regulatory Assistance	3190 - 160th Avenue SE		Bellevue,	WA	98008-5452	425/649-7114	sheila.hosner@ora.wa.gov
WASate Dept. of Ecology	Margaret	Dutch								mdut461@ECY.WA.GOV
WA State Dept.of Ecology	Richard K.	Wallace	Southwest Regional Office	PO Box 47775		Olympia,	WA	98504-7775		dwal461@ecy.wa.gov
WA State Dept. of Ecology	Alice	Kelly		3190 - 160th Avenue SE		Bellevue,	WA	98008-5452		akel461@ecy.wa.gov
WA State Dept. of Ecology	Robert	Reuter							425/649-7086	rreu461@ecy.wa.gov
WA State Dept. of Ecology	Norm	Davis	Northwest Regional Office Spill Prevention Unit	3190 - 160th Avenue SE		Bellevue,	WA	98008	425/649-4491	NDAV461@ecy.wa.gov
WA State Dept. of Ecology	Kathy	Taylor	Marine Habitat Specialist	3190 - 160th Avenue SE		Bellevue,	WA	98008	360/407-7125	Ktay461@ecy.wa.gov
WA State Dept. of Ecology	Joan M.	Marchioro	Senior Counsel		PO Box 40117	Olympia,	WA	98504-0117		JoanM2@atg.wa.gov
WA State Dept. of Ecology, SEA Program	Jennifer L. T.	Hennessey	Ocean Policy Associate	PO Box 47600		Olympia,	WA	98504-7600	360/407-6595	jenh461@ecy.wa.gov
** WA State Dept. of Natural Resources	Brady	Scott	Manger, Tidal Energy Resources							brady.scott@dnr.wa.gov
WA State Dept. of Natural Resources	Boyd	Powers	External SEPA Coordinator	1111 Washington Street SE		Olympia,	WA	98504-7015		boyd.powers@wadnr.gov
WA State Dept. of Natual Resources	Richard	Doenges	Division Manager, Aquatic Resources Division	1111 Washington Street SE	PO Box 47207	Olympia,	WA	98504-7027	360/902-1100	rich.doenges@dnr.wa.gov
WA State Dept. of Natural Resources	Larry	Dominguez							360/902-1718	Larry.dominguez@dnr.wa.gov
WA State Dept. of Natural Resources	Jim	Speaks	Product Sales & Leasing							jim.speaks@dnr.wa.gov
WA State Dept. of Natural Resources	Terry	Carten					WA		360/854-2846	terry.carten@dnr.wa.gov
WA State Dept. of Natural Resources	JoAnn	Gustafson	Aquatic Lands, Orcas Strait District						360/854-2832	joann.gustafson@dnr.wa.gov
WA State Dept. of Natural Resources	Elizabeth	Ellis	Aquatic Resources Program	1111 Washington Street SE	PO Box 47027	Olympia,	WA	98504		elizabeth.ellis@wadnr.gov
** Washington State Ferries	Kojo	Fordjour	Environmental Program Manager	1901 - 3rd Avenue, Suite 500		Seattle,	WA	98121		Fordjok@wsdot.wa.gov
Washington State Ferries	Michelle	Elling	Senior Environmental Coordinator	2901 - 3rd Avenue, Suite 500		Seattle,	WA	98121-1012	206/515-3400	ellingm@wsdot.wa.gov
Washington State Ferries	Steve	Beadle		2901 - 3rd Avenue Suite 500		Seattle,	WA	98121		BeadleS@WSDOT.WA.GOV
WA State Transportation & Public Construction Division	Mark S.	Lyon, Esq.	Assistant Attorney General	7141 Cleanwater Drive SW	PO Box 40113	Olympia,	WA	98504-0013	360/586-0641	mark11@atg.wa.gov
Washington State Inter Agency Committee	Jim	Eychaner		PO Box 40917		Olympia,	WA	98504-0917	360/902-3011	jime@iac.wa.gov
WA State Dept. of Fish & Wildlife, Region 4	Bob	Everitt	Regional Director	16018 Mill Creek Blvd.		Mill Creek,	WA	98012-1296	425/775-1311	everirde@dfw.wa.gov

Admiralty Inlet Pilot Tidal Project [FERC P-12690]
Interested Parties Distribution List

Company Name	First Name	Last Name	Title	Address Line 1	Address Line 2	City	State	ZIP Code	Work Phone	E-mail Address
** WA State Department of Fish and Wildlife	Mark A.	Hunter	Habitat Program	600 Capitol Way N		Olympia,	WA		360/902-2542	huntermah@dfw.wa.gov
** Office of the Commissioner of Public Lands	Peter	Goldmark	Commissioner of Public Lands	1111 Washington Street SE	PO Box 47001	Olympia,	WA	98504	360/902-1004	cpl@dnr.wa.gov
WA State Board of Pilotage Commissioners	Peggy	Larson	Administrator	2901 Third Avenue		Seattle,	WA	98121	206/515-3904	laronsp@wsdot.wa.gov
State Parks:										
Deception Pass State Park	Jack	Hartt	Park Ranger	41229 SR 20		Oak Harbor,	WA	98277-2924	360/675-2417	jack.hartt@parks.wa.gov
** Fort Casey State Park	Ken	Hageman	Park Manager	1280 Engle Road		Coupeville,	WA	98239	360/678-4519	fort.casey@parks.wa.gov
Fort Flagler State Park	Mike	Zimmerman	Park Ranger	10451 Flagler Road		Nordland,	WA	98358	360/385-1259	fort.flagler@parks.wa.gov
Fort Ward State Park	Mlee	Barlow	Park Ranger	2241 Pleasant Beach Drive NE		Bainbridge Island,	WA	98110	206/842-4041	fay.bainbridge@parks.wa.gov
Fort Worden State Park	Kate	Burke	Park Manager	200 Battery Way		Port Townsend,	WA	98368	360/385-4730	Kate.Burke@parks.wa.gov
Fort Worden State Park	Anne	Murphy	Executive Director, Port Townsend Marine Science Center	200 Battery Way		Port Townsend,	WA	98368	360/385-4730	info@ptmsc.org
South Whidbey State Park			Park Ranger	4128 S. Smugglers Cove Road		Freeland,	WA	98249	360/321-4559	NO E-MAIL ADDRESS
Cities/Towns:										
City of Anacortes	The Honorable Dean	Maxwell	Mayor	904 - 6th Street	PO Box 547	Anacortes,	WA	98221	360/299-1950	dean@cityofanacortes.org
City of Anacortes, Anacortes Municipal Building	Ian	Munce	City Attorney	904 - 6th Street	PO Box 547	Anacortes,	WA	98221-0547	360/293-1912	ian@cityofanacortes.org
City of Arlington	Bill	Blake	Community Development	238 N. Olympic Avenue		Arlington,	WA	98223	360/403-3551	bblake@ci.arlington.wa.us
City of Bellingham	The Honorable Tim	Douglas	Mayor	210 Lottie Street		Bellingham,	WA	98225-4089	360/676-6979	tdouglas@cob.org
City of Bellingham	Dick	McKinley	Public Works Director	322 N. Commercial Street, Suite 210		Bellingham,	WA	98225	360/676-6961	rmckinley@cob.org
City of Bellevue	The Honorable Grant	Degginger	Mayor	450 - 110th Avenue NE	PO Box 90012	Bellevue,	WA	98009	425/452-7810	gdegginger@bellevue.wa.gov
City of Bremerton	The Honorable Cary	Bozeman	Mayor	345 - 6th Street, Suite 600		Bremerton,	WA	98337	360/473-5290	cbozeman@ci.bremerton.wa.us
City of Burien	The Honorable Joan	McGilton	Mayor	415 SW 150th Street		Burien,	WA	98166	206/248-5515	joanm@ci.burien.wa.us
City of Burlington	The Honorable Roger "Gus"	Tjeerdsma	Mayor	900 Fairhaven Avenue		Burlington,	WA	98233	360/755-0531	cityhall@ci.burlington.wa.us
City of Des Moines	The Honorable Bob	Sheckler	Mayor	21630 - 11th Avenue South		Des Moines,	WA	98198-6398	206/878-4595	bsheckler@desmoineswa.gov
** City of Everett	The Honorable Ray	Stephanson	Mayor	2930 Wetmore Avenue		Everett,	WA	98201	425/257-7112	rstephanson@ci.everett.wa.us
** City of Edmonds	The Honorable Gary	Haakenson	Mayor	121 - 5th Avenue		Edmonds,	WA	98020	425/771-0247	haakenson@ci.edmonds.wa.us
City of Friday Harbor	The Honorable David	Jones	Mayor	60 Second Street	PO Box 219	Friday Harbor,	WA	98250	360/378-8996	ssbn599@rockisland.com
City of Mercer Island	The Honorable Bryan	Cairns	Mayor	9611 SE 36th Street		Mercer Island,	WA	98040	206/236-5323	bryan.cairns@mercergov.org
City of Normandy Park	The Honorable Shawn	McEvoy	Mayor	801 SW 174th Street		Normandy Park,	WA	98166	206/248-7603	shawn.mcevoy@ci.normandy-park.wa.us
City of Tukwila	The Honorable Steve	Mullet	Mayor	6200 Southcenter Blvd.		Tukwila,	WA	98188	206/433-1805	tukwila@ci.tukwila.wa.us
City of Kenmore	The Honorable Randy	Eastwood	Mayor	6700 NE 181st Street	PO Box 82607	Kenmore,	WA	98028-0607	425/398-8900	cityhall@ci.kenmore.wa.us
City of Kirkland	The Honorable Jim	Lauinger	Mayor	123 Fifth Avenue		Kirkland,	WA	98033	425/587-3000	jlauinger@ci.kirkland.wa.us
City of Mountlake Terrace	The Honorable Jerry	Smith	Mayor	23204 - 58th Avenue W	PO Box 72	Mountlake Terrace,	WA	98043	425/744-6206	cityhall@ci.mlt.wa.us
City of Port Townsend	David G.	Timmons	City Manager	250 Madison Street		Port Townsend,	WA	98368	360/379-5047	dtimmons@cityofpt.us
** City of Lynnwood	The Honorable Don	Gough	Mayor	19100 - 44th Avenue W	PO Box 5008	Lynnwood,	WA	98046	425/670-6613	dgough@ci.lynnwood.wa.us
City of Mount Vernon	The Honorable Bud	Norris	Mayor	910 Cleveland Avenue	PO Box 809	Mount Vernon,	WA	98273	360/336-6211	mvmayor@ci.mount-vernion.wa.us
** City of Mukilteo	The Honorable Joe	Marine	Mayor	4480 Chennault Beach Road		Mukilteo,	WA	98275	425/355-4141	mukilteo@ci.mukilteo.wa.us
** City of Oak Harbor	The Honorable Patricia	Cohen	Mayor	865 SE Barrington Drive		Oak Harbor,	WA	98277	360/279-4503	mayor@oakharbor.org
City of Port Orchard	The Honorable Kim E.	Abel	Mayor	216 Prospect Street		Port Orchard,	WA	98366	360/876-4409	cityhall@ci.port-orchard.wa.us
** City of Port Townsend	The Honorable Mark	Welch	Mayor	250 Madison Street		Port Townsend,	WA	98368	360/379-5047	citycouncil@cityofpt.us
City of Port Townsend	John P.	Watts, Esq.	City Attorney	250 Madison Street No. 201		Port Townsend,	WA	98368	360/379-5048	jwatts@cityofpt.us
City of Port Townsend	Judy	Surber	Shoreline Planner, Development Services Dept.			Port Townsend,	WA	98368	360/379-5084	jsurber@cityofpt.us
** City of Poulsbo	The Honorable Kathryn	Quade	Mayor	19050 Jensen Way NE	PO Box 98	Poulsbo,	WA	98370	360/779-3901	kquade@cityofpoulsbo.com
City of SeaTac	The Honorable Gene	Fisher	Mayor	4800 South 188th Street		SeaTac,	WA	98188	206/973-4800	info@ci.seatac.wa.us
City of Seattle	The Honorable Greg	Nickels	Mayor	600 Fourth Avenue		Seattle,	WA	98104	206/386-1234	mayors.office@ci.seattle.wa.us
City of Shoreline	The Honorable Robert	Ransom	Mayor	17544 Midvale Avenue North		Shoreline,	WA	98133	206/546-1303	ransom@ci.shoreline.wa.us
** City of Stanwood	The Honorable Dianne	White	Mayor	10220 - 270th NW		Stanwood,	WA	98292	360/629-2181	melissa@ci.stanwood.wa.us
Counties:										
Clallam County Marine Resources Committee	David	Freed	WSU Beach Watcher Coordinator	223 E. 4th Street, Suite 15		Port Angeles,	WA	98362	360/565-2619	dfreed@wsu.edu
Island County Board of Commissioners	The Honorable John	Dean	Commissioner	1 NE 7th Street	PO Box 5000	Coupeville,	WA	98239	360/679-7354	district3@co.island.wa.us
Island County Board of Commissioners	The Honorable Mike	Shelton	Commissioner	1 NE 7th Street	PO Box 5000	Coupeville,	WA	98239	360/679-7354	district1@co.island.wa.us
Island County Board of Commissioners	The Honorable William L. "Mac"	McDowell	Commissioner	1 NE 7th Street	PO Box 5000	Coupeville,	WA	98239	360/679-7354	district2@co.island.wa.us
** Island County Commissioners Office	Ingrid	Smith	Coordinator							IngridS@co.island.wa.us
** Island County Marine Resources Committee	Dick	Toft	Chair, Island County Marine Resources Committee	101 NE 6th Street	PO Box 5000	Coupeville,	WA	98239	360/679-7327	dtoft@whidbey.net
Island County Marine Resources Committee	Rex	Porter	Executive Director	101 NE 6th Street	PO Box 5000	Coupeville,	WA	98239	360/679-7327	portergroup@whidbey.net
** Island County Planning Department	Phil	Bakke, AICP	Director	PO Box 5000		Coupeville,	WA	98239	360/679-7309	philb@co.island.wa.us
Island County Planning Department	Kimberley	Bredensteiner	Salmon Recovery Coordinator	PO Box 5000		Coupeville,	WA	98239	360/240-5543	kimb@co.island.wa.us
Jefferson County	The Honorable John	Fischbach	Administrator	1820 Jefferson Street	PO Box 1220	Port Townsend,	WA	98368	360/385-9100	jfischbach@co.jefferson.wa.us
Jefferson County Natural Resources Division	Neil	Harrington	Environmental Health Specialist	615 Sheridan Street		Port Townsend,	WA	98368	360/385-9444	nharrington@co.jefferson.wa.us
Jefferson County Natural Resources Division	Tami	Pokorny	Environmental Health Specialist	615 Sheridan Street		Port Townsend,	WA	98368	360/385-9444	tpokorny@co.jefferson.wa.us
Jefferson County Marine Resources Committee	Pat	Pearson	WSU Water Quality Field Agent	201 West Pattison		Port Hadlock,	WA	98339	360/379-5610	pearsonp@wsu.edu
Jefferson County Planning Commission	Michelle	McConnell	Shoreline Project Coordinator	1820 Jefferson Street		Port Townsend,	WA	98368	360/379-4484	mmcconnell@co.jefferson.wa.us
Jefferson County Dept. of Community Development	Karen L.	Barrows	Assistant Planner, Long Range Planning Division	621 Sheridan Street		Port Townsend,	WA	98368	360/379-4482	kbarrows@co.jefferson.wa.us
King County	The Honorable Ron	Sims	Executive	516 Third Avenue		Seattle,	WA	98104	206/296-4040	ron.sims@metrokc.gov
Kitsap County	The Honorable Jan	Angel	Commissioner	614 Division Street, MS-4		Port Orchard,	WA	98366	360/337-7146	jangel@co.kitsap.wa.us
Kitsap County	The Honorable Steve	Bauer	Commissioner	614 Division Street, MS-4		Port Orchard,	WA	98366	360/337-7146	SBauer@co.kitsap.wa.us
Kitsap County	The Honorable Josh	Brown	Commissioner	614 Division Street, MS-4		Port Orchard,	WA	98366	360/337-7146	JWBrown@co.kitsap.wa.us
Kitsap County	Nancy	Buonnano Grennan	Kitsap County Administrator	614 Division Street, MS-4		Port Orchard,	WA	98366		NBGrennan@co.kitsap.wa.us
Kitsap County	Jim	Bolger	Kitsap County Dept. of Cummunity Development	614 Division Street, MS-36		Port Orchard,	WA	98366		JBolger@co.kitsap.wa.us

Admiralty Inlet Pilot Tidal Project [FERC P-12690]
Interested Parties Distribution List

Company Name	First Name	Last Name	Title	Address Line 1	Address Line 2	City	State	ZIP Code	Work Phone	E-mail Address
San Juan County	Randall K.	Gaylord, Esq.	Prosecuting Attorney	350 Court Street	PO Box 760	Friday Harbor,	WA	98250	360/378-4101	randvg@co.san-juan.wa.us
San Juan County Pomona Grange #50	Richard	Civille	Legislative Chairperson	152 - 1st Street N		Friday Harbor,	WA	98250	360/378-6632	pomona@islandgrange.org
San Juan County Council	The Honorable Alan	Lichter	Councilman	350 Court Street #1		Friday Harbor,	WA	98250	360/370-7474	alanl@co.san-juan.wa.us
San Juan County Council	The Honorable Kevin M. M.	Ranker	Councilman	350 Court Street #1		Friday Harbor,	WA	98250	360/370-7473	kevinr@co.san-juan.wa.us
San Juan County Council	The Honorable Bob	Myhr	Councilman	350 Court Street #1		Friday Harbor,	WA	98250	360/378-2898	bobm@co.san-juan.wa.us
San Juan County Marine Resources Committee	Mary	Knackstedt	Coordinator	PO Box 947	512 Guard Street	Friday Harbor,	WA	98250	360/378-1095	maryk@co.san-juan.wa.us
Skagit County	Gary	Rowe	Administrator	Administration Building	1801 Continental Place Suite 100	Mount Vernon,	WA	98273	360/336-9300	garyr@co.skagit.wa.us
Skagit County Administration Building	Dan	Berentson	Skagit County Communications Director / Community Liaison	1800 Continental Place		Mount Vernon,	WA	98273	360/419-3461	danb@co.skagit.wa.us
Skagit County Planning and Development Services	Betsy	Stevenson	Senior Planner	1800 Continental Place		Mount Vernon,	WA	98273	360/336-9410	pds@co.skagit.wa.us
Snohomish County Planning Department	Will	Hall	Division Manager	3000 Rockefeller Avenue	M/S 604	Everett,	WA	98201		will.hall@co.snohomish.wa.us
Snohomish County Marine Resources Committee	Stef	Frenzl	Marine Resource Steward	3000 Rockefeller Avenue		Everett,	WA	98201	425/388-6466	Stephan.Frenzl@co.snohomish.wa.us
Snohomish County Surface Water Management	Tim	Walls	WRIA 7 Salmon Recovery Coordinator	3000 Rockefeller Avenue		Everett,	WA	98201	425-388-3464	Timothy.Walls@co.snohomish.wa.us
Snohomish County Surface Water Management	Sean	Edwards	WRIA 5 Salmon Recovery Coordinator	3000 Rockefeller Avenue		Everett,	WA	98201	425/388-3464	Sean.Edwards@co.snohomish.wa.us
Whatcom County Planning and Development Services	Hal H.	Hart	Director	5280 Northwest Road		Bellingham,	WA	98227	360/676-6907	pds@co.whatcom.wa.us
Port Districts:										
Port of Anacortes	Bob	Hyde	Executive Director	PO Box 297		Anacortes,	WA	98221	360/293-3134	hyde@portofanacortes.com
Port of Bellingham	James S.	Darling	Executive Director	PO Box 1677		Bellingham,	WA	98227	360/676-2500	jimd@portofbelllingham.com
Port of Bremerton	Ken	Atteberry	Chief Executive Officer	8550 SW State Highway 3		Port Orchard,	WA	98367	360/674-2381	kena@portofbremerton.org
Port of Coupeville	James M.	Patton	Executive Director	PO Box 577		Coupeville,	WA	98239	306/678-5020	execjim@verizon.net
Port of Everett	John	Mohr	Executive Director	PO Box 538		Everett,	WA	98206	425/259-3164	johnm@portofeverett.com
Port of Friday Harbor	Steve	Simpson	Director	PO Box 889		Friday Harbor,	WA	98250	360/378-2688	steves@portfridayharbor.org
Port of Kingston	Tom	Berry	Harbormaster	PO Box 559		Kingston,	WA	98346	360/297-3545	ptkingston@aol.com
Port of Port Angeles	Bob	McChesney	Executive Director	PO Box 1350		Port Angeles,	WA	98362	360/457-8527	bobm@portofpa.com
Port of Port Townsend	Larry	Crockett	General Manager	PO Box 1180		Port Townsend,	WA	98368	360/385-0656	larry@portofpt.com
Port of Poulsbo	Kirk	Stickels	Manager	PO Box 732		Poulsbo,	WA	98370	360/779-3505	portofpoulsbo@yahoo.com
Port of Seattle	Tay	Yoshitani	Chief Executive Officer	PO Box 1209	2711 Alaskan Way	Seattle,	WA	98111	206/728-3000	yoshitani.t@portseattle.org
Port of Skagit County	Jerrold W.	Heller	Executive Director	PO Box 348		Burlington,	WA	98233	360/757-0011	posc@portofskagit.com
Utilities/Energy Related:										
Hydropower Reform Coalition	Rebecca	Sherman	Northwest Coordinator	320 SW Stark Street	Suite 412	Portland,	OR	97204	503/827-8653	northwest@hydroreform.org
Northwest Energy Coalition	Mark	Tilstra	Transmission and Distribution							Mtilstra@opalco.com
Northwest Energy Coalition	Marc	Krasnowsky	Communications Director	219 First Avenue South	Suite 100	Seattle,	WA	98104	206/621-0094	marc@nwenergy.org
Puget Sound Energy	Joe	Seabrook	Transmission and Distribution						425/462-3577	joe.seabrook@pse.com
Law Firms/Consulting Firms:										
Foster Pepper PLLC	P. Stephen	DiJulio, Esq.	Attorney-at-Law	1111 Third Avenue, Suite 3400		Seattle,	WA	98101	206/447-4400	DIUP@Foster.com
Foster Pepper PLLC	Joseph A.	Brogan, Esq.	Attorney-at-Law	1111 Third Avenue, Suite 3400		Seatte,	WA	98101	206/447-4400	BROGJ@Foster.com
Island County Prosecutor's Office	Gregory M.	Banks	Island County Prosecuting Attorney	PO Box 5000		Coupeville,	WA	98239-5000	360/679-7363	gregb@co.island.wa.us
K&L Gates	Craig	Trueblood	Partner	925 Fourth Avenue	Suite 2900	Seattle,	WA	98104	206/370-8368	craig.trueblood@klgates.com
Kitsap County Prosecuting Attorney's Office	Shelley	Kneip	Senior Deputy Prosecuting Attorney	614 Division Street, MS-35		Port Orchard,	WA	98366		Skneip@co.kitsap.wa.us
LaRoche & Associates	Gabrielle E.	LaRoche	Marine Resource Policy Shoreline & Watershed Planning	555 Blue Sky Drive		Port Townsend,	WA	98368	360/385-2559	seabries@olypen.com
Morisette, Schlosser, Jozwiak & McGaw	Mason D.	Morisset, Esq.	Attorney-at-Law	801 Second Avenue, Suite 1115		Seattle,	WA	98104	206/386-5200	m.morisset@msaj.com
Morisset, Schlosser, Ayer & Jozwiak	Anita	Castillo	Paralegal	1115 Norton Building	801 Second Avenue	Seattle,	WA	98104		a.castillo@msaj.com
PC Landing Corporation	Kurt	Johnson	Chief Financial Officer	319 Diablo Road	Suite 213	Danville,	CA	94526	415/200-0308	kjohnson@pc1.com
Educational Institutions/Labs/Museums/Historical Reserves :										
Cascadia Research Collective	John	Calambokidis	Research Biologist	218-1/2 West 4th Avenue		Olympia,	WA	98501	360/943-7325	calambokidis@cascadiaresearch.org
** Ebey's Landing National Historical Reserve	Mark	Preiss	Reserver Manager	PO Box 774	162 Cemetary Road	Coupeville,	WA	98239	360/678-6084	mark_preiss@partner.nps.gov
North Cascade Institute	Saul	Weisberg, M.S.	Executive Director	810 Route 20		Sedro-Wooley,	WA	98284	360/856-5700	saul_weisberg@ncascades.org
Pacific Shellfish Institute	Dr. Daniel	Cheney	Executive Director	120 State Avenue NE	PMB #142	Olympia,	WA	98501	360/754-2741	cheney@pacshell.org
** Seattle Pacific University Camp Casey Conference Center	Darrell	Jacobson		1276 Engle Road		Coupeville,	WA	98239	866/661-6604	NO E-MAIL ADDRESS
The Whale Museum	Richard	Osborne, Ph.D.	Director	62 First Street N	PO Box 945	Friday Harbor,	WA	98250	360/378-4710	tracie@whalemuseum.org
University of Washington	Brian	Polagye								bpolagye@u.washington.edu
University of Washington	Philip	Malte, Ph.D.	Professor of Mechanical Engineering			Seattle,	WA		206/685-2171	malte@u.washington.edu
University of Washington	Kristen	Thyng	Doctoral Student			Seattle,	WA		206/919-0525	thyngkm@u.washington.edu
Alliances/Associations/Coalitions/Councils/Networks/Partnerships/Taskforces :										
** American Waterways Operators (AWO)	Jason	Lewis	Vice President, Pacific Region	801 North Quincy Street, Suite 200		Arlington	VA	22203	703/841-9300	jlewis@vesselalliance.com
Association of Washington Business	Don	Brunell	President	PO Box 658		Olympia,	WA	98507-0658	360/943-1600	donb@awb.org
Association of Washington Cities	Stan	Finkelstein	Executive Director	1076 Franklin Street SE		Olympia,	WA	98501-1346	800/562-8981	stanf@awcnet.org
Audubon Washington	Nina	Carter	Executive Director	1411 - 4th Avenue, Suite 920		Seattle,	WA	98101-2204	206/652-2444	ncarter@audubon.org
Building Industry Association of Washington	Jeff	Hansel, GGB	President	PO Box 1909		Olympia,	WA	98507	360/352-7801	jeffh@biaw.com
Federation of Western Outdoor Clubs	Fran	Troje	WA State Vice-President	4257 - 123rd Ave SE		Bellevue,	WA	98006	206/322-3041	ftroje@eskimo.com
Friend of the San Juans	Kyle	Loring	Legal Director		PO Box 1344	Friday Harbor,	WA	98250	360/378-2319	kyle@sanjuans.org
Friends of Discovery Park				PO Box 99662		Seattle,	WA	98199	206/283-8643	info@discoveryparkfriends.org
Georgia Strait Alliance	Laurie	MacBride	Executive Director	#210 - 195 Commercial Street		Nanaimo,	BC	V9R 5G5	250/753-3459	gsa@georgiastrait.org
Hood Canal Coalition				PO Box 65279		Port Ludlow,	WA	98365		contactus@hoodcanalcoalition.org
Hood Canal Coordinating Council	Jay	Watson	Executive Director	17791 Fjord Drive NE	Box HH	Poulsbo,	WA	98380		jwatson@hccc.wa.gov
Hood Canal Environmental Council	Bill	Matchett, President	Board of Directors	PO Box 87		Seabeck,	WA	98380	206/692-3443	hcec2000@hotmail.com

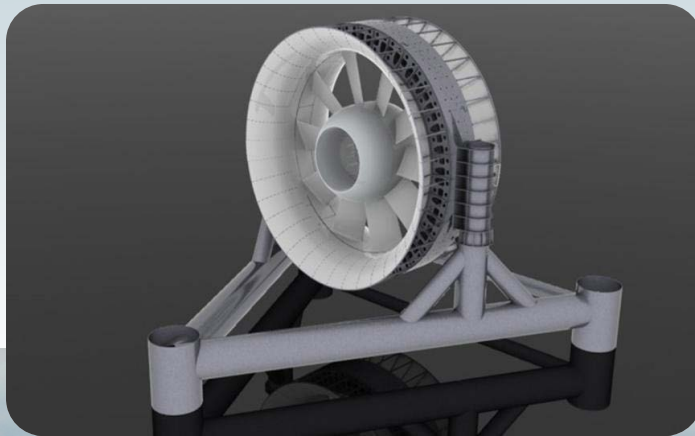
Admiralty Inlet Pilot Tidal Project [FERC P-12690]
Interested Parties Distribution List

<i>Company Name</i>	<i>First Name</i>	<i>Last Name</i>	<i>Title</i>	<i>Address Line 1</i>	<i>Address Line 2</i>	<i>City</i>	<i>State</i>	<i>ZIP Code</i>	<i>Work Phone</i>	<i>E-mail Address</i>
Independent Business Association				7981 - 168th Avenue NE		Redmond,	WA	98052	425/453-8621	iba@isomedia.com
Islands Oil Spill Association				PO Box 2316		Friday Harbor,	WA	98250	360/378-5322	iosaoffice@rockisland.com
Izaak Walton League of Greater Seattle	Bruce	McGlenn	President	4000 - 95th Avenue NE		Bellevue,	WA	98004	425/455-1986	info@seattleikes.org
League of Women Voters	Barbara	Seitle	President	4710 University Way NE	Suite #214	Seattle,	WA	98105	206/622-8961	lwvwa@lwvwa.org
Marine Exchange of Puget Sound	John	Veentjer	Executive Director	100 West Harrison Street, Suite S-560		Seattle,	WA	98119	206/443-3830	www.marineexchangepsea.com
Nisqually Delta Association				PO Box 7444		Olympia,	WA	98507	360/357-3792	NO E-MAIL ADDRESS
Nisqually River Council				12501 Yelm Hwy SE		Olympia,	WA	98513	360/407-1686	info@nisquallyriver.org
North Pacific Fishing Vessels Owners Association	Leslie	Hughes	Executive Director	1900 West Emerson, Suite 101		Seattle,	WA	98119	206/285-3883	info@npfvoa.org
Northwest Marine Trade Association	Alan	Bohling	Chair, Board of Directors	1900 N. Northlake Way	Suite #233	Seattle,	WA	98103-9087	206/634-0911	alan@seattleboat.com
Northwest Straits Commission	Lew	Moore	Director	10441 Bayview-Edison Road		Mount Vernon,	WA	98273	360/428-1084	info@nwstraits.org
Orca Network	Susan	Berta	Event Coordinator & VP /Treasurer	2403 S. North Bluff Road		Greenbank,	WA	98253	360/678-3451	info@orcانetwork.org
Pacific Coast Shellfish Growers Association	Robin	Downey	Executive Director	120 State Avenue NE	PMB #142	Olympia,	WA	98501	360/379-9041	RobinDowney@pcsga.org
Pacific Marine Conservation Council	Matt	Van Ess	Executive Director	PO Box 794		Port Townsend,	WA	98368	360/385-2746	caroline@pmcc.org
Pacific Merchant Shipping Association Seattle	Mike	Moore	Vice President	World Trade Center	2200 Alaska Way, Suite 160	Seattle,	WA	98121	206/441-9700	mmoore@pmsaship.com
Pacific States Marine Fisheries Commission	Randy	Fisher	Executive Director	205 SE Spokane Street, Suite 100		Portland,	OR	97202	503/595-3100	randy_fisher@psmfc.org
Passenger Vessels Association	Joel	Hudspeth	All American Marine, Inc.	200 Harris Avenue		Bellingham,	WA	98225	360/647-7602	jhudspeth@allamericanmarine.com
People for Puget Sound	Kathy	Fletcher	Executive Director	911 Western Avenue, Suite #580		Seattle,	WA	98104	206/382-7007	kfletcher@pugetsound.org
Protect the Peninsula's Future	Tyler	Ahlgren	President	PO Box 1677		Sequim,	WA	98382	360/683-6644	tallgreen@earthlink.net
Puget Sound Action Team	John	Cambalik	Regional Liaison			Sequim,	WA			jcambalik@psat.wa.gov
Puget Sound Action Team	Stuart	Glasoe	Regional Liaison, Shellfish Program Manager	PO Box 40900		Olympia,	WA	98504-0900	800/547-6863	sglasoe@psat.wa.gov
Puget Sound-Georgia Basin Task Force	Ron	Shultz	Director of Government Affairs	PO Box 40900		Olympia,	WA	98504-0900	360/725-5440	rshultz@psat.wa.gov
Puget Sound Gillnetters Association				1402 West Marine View Drive	Suite C	Everett,	WA	98201	206/252-6699	ptmaccon@olympus.net
** Puget Sound Harbor Safety Committee	Bruce	Reed	Chair	100 West Harrison Street, Suite S-560		Seattle,	WA	98119	206/281-4708	bruce@foss.com
Puget Sound Keeper Alliance	Tom	Diller	President, Board of Directors	5309 Shilshole Avenue NW	Suite #215	Seattle,	WA	98104-1035	206/464-7532	psa@pugetsoundkeeper.org
Puget Sound Partnership	Linda	Lushall	Regional Liaison	7924 - 212th Street SW #110		Edmonds,	WA	98206	425/640-3557	llyshall@psat.wa.gov
Puget Sound Pilots Association	Andy	Coe	Captain	101 Stewart Street	Suite 900	Seattle,	WA	98101	206/728-6400	president@pspilots.org
Puget Sound Regional Council	Rick	Olson	Directror of Government Relations	1011 Western Avenue	Suite #500	Seattle,	WA	98104-1035	206/464-7532	rolson@psrc.org
Recreational Boating Association of Washington				PO Box 23601		Federal Way,	WA	98093		NO E-MAIL ADDRESS
Save Our Wild Salmon	Darcie	Larson	Associate Director	200 First Avenue West	Suite 201	Seattle,	WA	98119	206/286-4455	darcie@wildsalmon.org
Save Our Wild Salmon	Jill	Wasberg	Associate Communications Director	200 First Avenue West	Suite 201	Seattle,	WA	98119	206/286-4455	jill@wildsalmon.org
Seattle Master Builders Association	Samuel	Anderson	Executive Officer	2155 - 112th Avenue NE	Suite #100	Bellevue,	WA	98004	425/451-7920	sanderson@mbaks.com
Sierra Club	Christopher	Chapman								cjchapman@comcast.net
Sierra Club Cascade Chapter	Trevor	Kaul	Director	180 Nickerson Street	Suite #202	Seattle,	WA	98109	206/378-0114	Trevor.Kaul@sierraclub.org
Snohomish County Sportsmen	Bob	Heirman	Vice-President	2120 Lake Avenue		Snohomish,	WA	98290-1032	360/568-4083	heirman@comcast.net
Sound Experience	Brian	Larsenstafki	Education Director	PO Box 1390		Port Townsend,	WA	98368	360/379-0438	brian@soundexp.org
Swinomish Yacht Club	Shannon	Hugel	Commodore	PO Box 60		LaConner,	WA	98257		st.hugel@verizon.net
The Nature Conservancy	David	Weekes	State Director	1917 - 1st Avenue		Seattle,	WA	98101	206/343-4344	wa_reception@tnc.org
Washington Scuba Alliance	Mike	Racine	President	6758 Cascade Avenue SE		Snoqualmie,	WA	98065		info@wascuba.org
Western States Petroleum Association, Northwest Office	Frank E.	Holmes	Manager, Northwest Region	975 Carpenter Road NE, Suite 106		Lacy,	WA	98516	360/352-4506	fholmes@wspa.org
Whidbey Environmental Action Network	Steve	Erickson		PO Box 53		Langley,	WA	98260	360/579-4202	wean@whidbey.net

ADMIRALTY INLET PILOT TIDAL PROJECT

FERC PROJECT NO. 12690

APPLICATION for a NEW PILOT PROJECT LICENSE (MINOR WATER POWER PROJECT)



**VOLUME I
APPLICATION
EXHIBITS A, F, G**

**Public Utility District No. 1
of Snohomish County**



February 29, 2012

**U.S. Department of Energy
University of Washington**

HDR | DTA

Sound & Sea Technology

OpenHydro Group Limited

Pacific Northwest National Laboratory

Prepared with additional assistance from:

SMRU Limited
Northwest National Marine Renewable Energy Center
National Renewable Energy Laboratory
BioSonics, Inc.
Sandia National Laboratory
Van Ness Feldman GordenDerr
Electric Power Research Institute
Evans-Hamilton, Inc.
Fugro Survey Limited
Global Diving & Salvage
Beam Reach Marine Science and Sustainability School
The Whale Museum
The Orca Network
Golder Associates

APPLICATION CONTENTS

Volume I

Executive Summary
Initial Statement
Justification Statement
Process Plan
Exhibit A – Project Description
Exhibit F – General Design Drawings of the Principal Project Works
Exhibit G – Project Maps

Volume II

Exhibit E – Environmental Report

Volume III

Appendix A – Proposed Protection, Mitigation, and Enhancement Measures
Appendix B – Benthic Habitat Monitoring Plan
Appendix C – Derelict Gear Monitoring Plan
Appendix D – Water Quality Monitoring Plan
Appendix E – Project Safeguard Plans
Appendix F – Horizontal Directional Drilling Plan
Appendix H – Adaptive Management Framework
Appendix I – Financial Assurance Plan
Appendix J – Legal Provisions Conveying Right to Engage in Business of
Developing, Transmitting, and Distributing Power
Appendix K – Assessment of Strike of Adult Killer Whales by an OpenHydro Tidal
Turbine Blade
Appendix L – Pre-Installation Study Reports
Appendix M – Historic Properties Information and DAHP Concurrence
Appendix N – Stakeholder Consultation
Appendix O – Detection of Tidal Turbine Noise: A Pre-Installation Case Study for
Admiralty Inlet, Puget Sound
Appendix P – Effects of Tidal Turbine Noise on Fish Hearing and Tissues

Volume IV

Appendix G – Applicant Prepared Draft Biological Assessment

EXECUTIVE SUMMARY

for the Admiralty Inlet Pilot Tidal Project

1.0 INTRODUCTION

Public Utility District No. 1 of Snohomish County (the District) is a municipal corporation of the State of Washington, formed by a majority vote of the people in 1936 for the purpose of providing electric and/or water utility service throughout Snohomish County and neighboring Camano Island. The District is the second largest consumer-owned electric utility in Washington State and, despite the economic downturn, Snohomish County continues to exhibit population growth. In 2010 the District received 3,100 requests for new electric service connections, and the growth is expected to continue.

The District is required by the Washington State renewable portfolio standard to supply 15% of its load from new, renewable energy resources by 2020. The District believes there is significant potential to generate clean, renewable, environmentally benign, and cost effective energy from tidal flows at selected sites in the Puget Sound, and that successful tidal energy demonstration in the Sound may enable significant commercial development in the U.S. resulting in important benefits for both the northwest region and the country. The District also recognizes however, that in-water testing is required to address uncertainties in performance, cost, and environmental effects. The purpose of the Admiralty Inlet Pilot Tidal Project (FERC Project No. 12690) (the Project) is to address these uncertainties by gathering data via the temporary deployment, demonstration, and testing of tidal energy conversion technology in the Puget Sound.

Snohomish is filing this Final Application for a Hydrokinetic Pilot License (Minor Water Power Project) with the Federal Energy Regulatory Commission (FERC or Commission) for the construction and operation of the proposed Project. The proposed Project will consist of two 6-meter diameter OpenHydro turbines located in the northeastern portion of Admiralty Inlet, approximately 1 km west-southwest of Admiralty Head near latitude 48°09'03.24" N longitude 122°41'15.72" W latitude, in water depth of approximately 58 meters. The turbines will be mounted on completely submerged gravity foundations and will be interconnected to the electrical grid on private land on Whidbey Island.

The Commission regulates projects that generate power from water, and early in its efforts the District reviewed with the Commission the various options available to license this specific project. The District applied for a preliminary permit in June 2006 and was issued a preliminary permit in March 2007. The District started the formal Commission process in January 2008 by submitting a Pre-Application Document to the Commission and stakeholders describing the Project and the environmental resources present in Admiralty Inlet and the surrounding Puget Sound. Following that submittal, the Commission developed a process specific to the licensing of temporary or experimental hydrokinetic energy projects in order to study, monitor and evaluate the environmental, economic and cultural effects of hydrokinetic energy. This process was identified as the "Pilot Licensing Process" and the District selected this process to pursue obtaining a Federal license. Additionally, the Commission and the State of Washington have mutual interest regarding the development of hydrokinetic energy projects and signed a Memorandum of Understanding with respect to hydrokinetic projects in State of Washington. Some of the pertinent declarations include:

- Timely processing of applications for regulatory and other approvals required for

hydrokinetic energy projects in Washington State waters to promote clean, renewable sources of energy.

- Creation of a process to make it possible for developers of all hydrokinetic energy projects to establish short-term or experimental projects within Washington State waters in order to study, monitor, and evaluate the environmental, economic and cultural effects of hydrokinetic energy.
- It is the intent of the Commission and the State of Washington that information developed during pilot projects will inform the decision making process for any longer term authorizations for hydrokinetic projects in Washington waters.
- The State of Washington supports the efforts by the Commission to establish procedures to allow for shorter term, experimental hydrokinetic energy projects with environmental safeguards through the pilot licensing process. Both agree that the pilot licensing process may be appropriate as a short term means of allowing hydrokinetic energy projects to proceed on a pilot basis while additional environmental and other data concerning the effects of such projects are gathered.

The Project proposed by the District aligns with these interests in the following manner:

- Promotes a clean, renewable source of energy.
- Is a temporary, short term project with environmental safeguards.
 - Allows for study, monitoring and evaluation of the environmental, economic and cultural effects of hydrokinetic energy.
- Incorporates an adaptive management approach for Project operation.

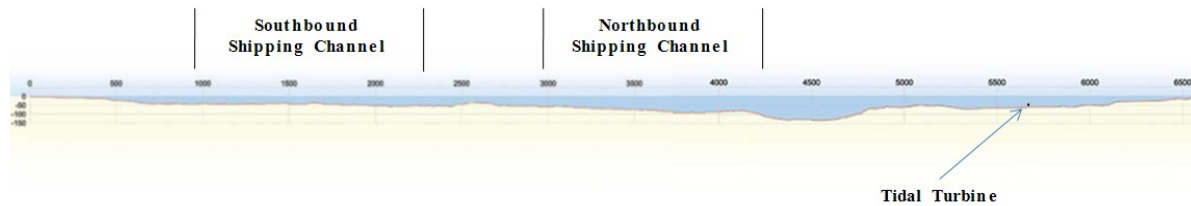
The Project is already globally recognized as one of the leading marine energy efforts in the United States, has substantial support in the region, and has built an exceptionally strong project team. The District, in partnership with the U.S. Department of Energy, the University of Washington, the Northwest National Marine Renewable Energy Center, Pacific Northwest National Laboratory, and the Electric Power Research Institute has conducted a thorough evaluation of potential tidal energy sites in the Puget Sound, and has selected Admiralty Inlet as the most appropriate location to establish a tidal energy research and development project.

The District engaged with over 30 tidal energy technology developers worldwide as part of its assessment and selection program. This effort included visits with the leading technology developers in the U.S., Europe, and Canada, as well as to the European Marine Energy Center (EMEC) in the Orkney Islands, Scotland. Following a detailed evaluation process, the District selected OpenHydro as its technology partner for the demonstration Project. OpenHydro is one of the few tidal energy technology firms in the world to have successfully deployed and tested commercial scale tidal energy turbines. The OpenHydro turbine consists of a horizontal axis rotor with a single moving part and power take-off through a direct drive, permanent magnet generator. It is principally comprised of the rotor and the stator; there is no requirement for a gearbox. The design incorporates several important features to avoid or minimize environmental risk:

- No requirement for oil/grease lubrication.
- The rotor blade tips are retained within the outer housing and therefore are not exposed.
- The rotor has a relatively low rotational speed.
- The ability exists for the rotor to be stopped quickly and remotely in emergency situations.

- Cavitation is prevented by design at specified deployment depth.
- The deployment method and foundation design eliminate the need for any drilling or piling operations, as well as facilitate potential relocation and complete removal of both the foundation and the turbine. In fact, both the turbines and their foundations are specifically designed to be completely removable for scheduled maintenance or other needs.

The Project would be of very limited scale relative to Admiralty Inlet, representing less than 0.05% of the Inlet's cross-section thereby significantly diminishing the likelihood of adverse environmental effects. Likewise, the water depth at the site and its location well outside of the shipping channel mitigates navigational concerns.



It is important to note that Admiralty Inlet is the primary entrance to Puget Sound and represents the main shipping channel through which all commercial, Naval, and other significant marine traffic passes while transiting to and from the Sound's several Naval stations and ports of Everett, Seattle, Tacoma, and Olympia. The environmental effects represented by this level of navigational traffic and activity in a busy commercial waterway would reasonably be expected to dwarf any potential effects of Snohomish's small, temporary research and development effort.

While they are limited in scope, existing data and assessments regarding currently operating and proposed tidal projects are notable in that they document no substantial or unanticipated environmental risk. The EMEC site (where OpenHydro turbines were initially deployed) represents a very ecologically diverse and productive marine ecosystem which is home to a number of fish and marine mammal species. Fish and shellfish species include: mackerel, herring, haddock, cod, monkfish, several flat fish species, lobster, crab, and scallops. Marine mammal species include: otters, seals, minke whale, harbor porpoise, white-sided dolphin, common dolphin, killer whale, and pilot whale. Leatherback turtles also regularly visit Scottish waters between August and November.

Operation of the OpenHydro turbine installation has been continuously videotaped while in operation since 2006 and no marine life incidents have been recorded. Review and analysis of the videotape data is ongoing, but to date indicates that fish and marine mammals avoid and do not interact with the device while it is rotating, but as might be expected, some fish species do aggregate downstream of the turbine at tidal current velocities too low for the turbine to rotate. Additionally, a comprehensive Environmental Assessment report to Canadian federal and provincial governments was completed for the deployment of a 10 meter OpenHydro turbine in the Bay of Fundy, Nova Scotia (this deployment occurred in November, 2009). The Bay of Fundy is also an ecologically diverse ecosystem including marine mammals and salmonids and other migratory species. The likely effects of the project on the environment were found to be limited in

scope and duration (AECOM 2009).

2.0 PILOT LICENSE CRITERIA

The Commission's *Criteria for Using the Pilot Licensing Procedures*, listed in Section III of the Commission's whitepaper, specify that a proposed project must be: (1) small; (2) short term; (3) not located in sensitive areas; (4) removable and able to be shut down on short notice; (5) removed, with the site restored, before the end of the license term (unless a new license is granted); and (6) initiated with a draft application that is adequate as filed to support environmental analysis.

On July 7, 2011, the Commission found that the District's Draft License Application addressed and met the criteria listed above. The Commission, however, reserved the final decision on whether the Project is an appropriate pilot project for when the Commission acts on the Final License Application. As a result, the District has included a justification statement demonstrating its compliance with the Commission's pilot license criteria.¹ Specifically, the Project will consist of only two turbines with a combined capacity of less than one megawatt. The Project is located outside the shipping lane in Admiralty Inlet, a busy commercial waterway, and will have a short license term sufficient to enable in water testing. The turbines and their foundations are specifically designed to enable quick shutdown and removal, with minimal site restoration required, by virtue of there being no drilling or pilings associated with the installation. Through its pre-installation studies the District has substantially augmented the already extensive collection of data available for the Admiralty Inlet region to support a thorough and complete environmental analysis for the Project.

3.0 CONSULTATION

The District was issued a preliminary permit for the Admiralty Inlet site on March 9, 2007, though as early as July of 2006 Snohomish had informed key stakeholders (tribes, state agencies, federal agencies, NGO's, communities, etc.) of its intention to pursue tidal energy exploration in the Puget Sound. An initial project meeting was held with numerous stakeholders (tribes, state agencies, federal agencies, NGOs) on February 23, 2007, to formally introduce the project, answer questions, and discuss the consultation approach going forward. During the nearly five years since this initial meeting Snohomish has conducted over 100 formal and informal project communication meetings including dialogue with approximately 50 different stakeholder groups. These have included formal consultation meetings, community town hall meetings, conference presentations, NGO meetings, and more. The District has carefully considered all questions, feedback, and comments gathered during this process and rigorously endeavored to design both the physical project, study plans, and monitoring plans in the most responsive and collaborative way possible. The District has accepted comments on the various study and monitoring plans verbally at meetings, through phone calls and email messages, and through the formal exchange of written comments.

Additionally, the District has sought to directly involve key regional stakeholders and marine experts in its study efforts where practical. As one example, Beam Reach Marine Science and Sustainability School, the Whale Museum, and the Orca Network, all strong regional stewards for

¹ A detailed discussion of each criteria can be found in the section of this application titled "Pilot Licensing Process Justification Statement."

killer whales in Puget Sound, worked with the District to design the Project's Marine Mammal Study Plan and are currently conducting the study in partnership with the Sea Mammal Research Unit. The Sea Mammal Research Unit is associated with the University of St. Andrews in Scotland and is currently engaged with efforts to study sea mammal interactions with tidal turbines at projects in the UK.

The District also sought the assistance of the Pacific Northwest National Laboratory and Sandia National Laboratory (collective, the National Labs) in determining the potential severity of an encounter between Southern Resident killer whales and a moving rotor. The District and the various stakeholders ultimately concluded that, given the size of the project, its location and depth, and the ability for marine mammals to avoid objects in their environment, the risk of an encounter was low. However, the unanswered question was the potential injury severity should the unlikely event of an encounter occur. This question is important given the status of the Southern Resident killer whale under the Endangered Species Act.

The National Labs carried out an analysis of the severity of blade encounter from the OpenHydro turbine with a Southern Resident killer whale. The analysis, described in a report dated February 28, 2012, and appended to the Final License Application as Appendix K, developed a scenario that represented the greatest possible risk to Southern Resident killer whales. After calculating the forces (stress and strain) that would be encountered, the National Labs concluded that in the highly unlikely situation where a Southern Resident killer whale encountered a turbine blade, the consequences are, at worst, minor bruising.² Additionally, blade speed varies with current velocity, meaning that the consequences of blade strike will be even less significant during the majority of operation, when rotational speeds will be below those used in the National Labs' analysis.

Following discussions with Project stakeholders, NOAA Fisheries, and the National Labs, and after a thorough review of the analysis conducted by the National Labs, the District is no longer proposing to include a Southern Resident killer whale Monitoring, Operation, and Protection Plan (MOPP) as part of the pilot license. Instead, the District is incorporating the monitoring components of the MOPP, including applicable adaptive management triggers and actions, into the Marine Mammal Monitoring Plan. This plan is discussed further in Appendix A.

4.0 CONTENTS OF APPLICATION

As prescribed by the Commission's regulations, including 18 C.F.R. §§ 4.61 and 5.18, and the guidance contained in the Commission's whitepaper, "Licensing Hydrokinetic Pilot Projects,"³ this application consists of:

- Initial Statement and General Content Requirements
- Pilot Licensing Justification Statement
- Process Plan
- Exhibit A, Project Description

² See *Assessment of Strike of Adult Killer Whales by an OpenHydro Tidal Turbine Blade*, Pacific Northwest National Laboratory/Sandia National Laboratories (Feb. 28, 2012) (prepared for the U.S. Department of Energy).

³ See FERC, Licensing Hydrokinetic Pilot Projects (Apr. 14, 2008; revised Feb. 4, 2009; Feb. 19, 2010), available at <http://www.ferc.gov/industries/hydropower/indus-act/hydrokinetics/energy-pilot.asp>.

- Exhibit E, Environmental Report
- Exhibit F, Project Plans
- Exhibit G, Project Maps
- Appendices, containing proposed monitoring plans, the consultation record, and other information supporting the Final License Application
- Applicant-Prepared Draft Biological Assessment

Following the District's submission of a Draft License Application, on July 7, 2011, the Commission notified the District that there is good cause to use the pilot project license procedures for the Project, and thus the Commission granted the District's request to waive certain ILP regulations. The Commission agreed to waive the requirements of 18 C.F.R. §§ 5.2(a), 5.6, 5.7, 5.8, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.16, and 5.18(c).

5.0 CONCLUSION

The marine energy industry today is in its infancy; the responsible deployment, testing and monitoring of commercial-scale ocean energy devices in real world sites is critical to exploring this potentially abundant, clean, renewable, domestic energy resource. Consistent with the interests of the State of Washington and the Commission, the data from this Project will inform the District's potential development of other sites in and around Puget Sound, but importantly will also provide relevant information for other marine energy developers in the nation. Because this is a nascent industry, the body of knowledge relative to marine energy technology, performance, environmental effects and monitoring approaches is growing substantially week by week. Snohomish fully expects that the Project will benefit from knowledge gained in the industry, perhaps most notably from the OpenHydro/Nova Scotia Power Project in the Bay of Fundy, during the period between the filing of this license application and the eventual deployment in the Puget Sound. The District will ensure for the effective leveraging of this new information, but maintains that currently available information is more than sufficient to move forward with the Project in a responsible manner. To consider new information as it is developed at the Project or elsewhere, the District will incorporate an adaptive management approach to continue to maintain a dialogue with stakeholders regarding the results of environmental monitoring during the life of the Project. These results would be used in combination with an understanding of the ecosystem and information from other relevant sources to make adjustments to study methods as appropriate and to manage or change aspects of the Project operation, as necessary, to avoid or minimize unexpected or undesirable impacts on resources. The adaptive management process allows for immediate action where necessary to address a critical adverse effect of the Project, should that occur.

The Project is proposed as a temporary pilot scale project (not commercial scale) with limited scale relative to Admiralty Inlet. Information collected through the deployment and monitoring of the Project will be used to support the decision making process for any longer term authorizations for hydrokinetic projects in Washington waters. There has been extensive discussion regarding the amount of baseline information required prior to deploying the Project and it is critical that baseline and project monitoring requirements are commensurate with the small scale and limited duration of the Project. The District's tidal energy efforts represent one of the primary tidal energy research efforts in the United States, continue to have the strong support of the U.S. Department of Energy's Advanced Water Power Projects program, and are consistent with national energy policy priorities. On December 10, 2009, in an address to the United Nations Conference on Climate

Change in Copenhagen, Secretary of the Interior Ken Salazar stated the following:

I am here today in Copenhagen on behalf of President Obama to deliver a simple message: the United States of America understands the danger that climate change poses to our world and we are committed to confronting it. Together with our partners in the international community, we will help build a strong, achievable, carbon reduction strategy. And we will deploy American technology, American vision, and American ingenuity for the benefit of our planet and all peoples. ...We must manage our lands and oceans for these three new functions - renewable energy production, carbon capture and storage, and climate adaptation – if we are to tackle the climate crisis. ...On renewable energy: the truth is - until now - America's vast deserts, plains, forests and oceans have been largely unexplored for their vast clean energy potential.

The Admiralty Inlet Pilot Tidal Project represents such an application of technology, vision, and ingenuity, here in the United States, to produce renewable energy from the country's oceans. Projects such as the Admiralty Inlet Pilot Tidal Project represent the early steps in exploring ways to harness tidal energy. With a peak capacity of approximately 700 kilowatts, the Admiralty Inlet Project would provide approximately 216,000 kWh annually of clean renewable ocean energy.⁴ The successful development of the Admiralty Inlet Project would demonstrate the potential of an emergent renewable energy industry segment with the goal of bringing clean, competitively-priced electricity to commercial and residential consumers in Washington State and other coastal U.S. states. From the future use of the Project's power, its displacement of non-renewable fossil-fueled generation and its contribution to a diversified generation mix, the Project will help meet a need for renewable, emission free, and environmentally responsible energy in the Puget Sound region. Given the pressing need to develop new renewable energy sources, in Washington State and in the U.S., to reduce greenhouse gas emissions, rely less on foreign fuel sources, and to meet growing energy demands, the District urges the Commission to issue a pilot license for the Project within the six month timeframe envisioned in the Commission's whitepaper.

⁴ Expected generation figures are based on the most recent data available to the District and are the output of a model intended to predict turbine performance within Admiralty Inlet. However, electrical generation from tidal energy conversion devices is highly site-specific and may be influenced by even small changes in the final location of the turbines. Further, performance will be influenced by other factors as well, including actual efficiency of the devices, specific currents encountered, and the effect of turbulence. Therefore, generation figures are estimates only and may change based on updated data, precise turbine location following deployment, actual performance, and other factors.

**UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION**

Admiralty Inlet Pilot Tidal Project

)

Project No. 12690

**APPLICATION FOR A HYDROKINETIC PILOT PROJECT LICENSE
(MINOR WATER POWER PROJECT)**

INITIAL STATEMENT AND GENERAL CONTENT REQUIREMENTS

The following information is provided pursuant to 18 C.F.R. § 4.61(b)

(b)(1) Intent to apply for a license

Public Utility District No. 1 of Snohomish County, Washington (the District) applies to the Federal Energy Regulatory Commission for a pilot hydrokinetic project license for the Admiralty Inlet Pilot Tidal Project, Project No. 12690 (the Project), as described hereinafter.

(b)(2) The location of the Project is:

State: Washington State
County: Island County
Nearby town: City of Port Townsend located to the West
Body of Water: Admiralty Inlet, Puget Sound

Admiralty Inlet lies between the Olympic Peninsula on the mainland of the State of Washington (Jefferson County, Kitsap County) and Whidbey Island (Island County), and connects the northwestern end of Puget Sound to the Strait of Juan de Fuca (providing access to the Pacific Ocean and the Inland Passage to Alaska). The Project will be located in the eastern portion of Admiralty Inlet, entirely within Island County.

(b)(3) The exact name, address, and telephone number of the applicant are:

Public Utility District No. 1 of Snohomish County, Washington
P.O. Box 1107
2320 California Street
Everett, WA 98206-1107
Tel: (425) 783-8100

(b)(4) The exact name, address and telephone number of each person authorized to act as agent for the applicant in this application are:

Steven J. Klein, General Manager

Public Utility District No. 1 of Snohomish County, Washington
P.O. Box 1107
Everett, WA 98206-1107
Tel: (425) 783-8606
sjklein@snopud.com

Kim D. Moore, Assistant General Manager of Generation

Public Utility District No. 1 of Snohomish County, Washington
P.O. Box 1107
Everett, WA 98206-1107
Tel: (425) 783-8606
kdmoore@snopud.com

(b)(5) The District is a municipality as defined under the Federal Power Act (16 U.S.C. § 796(7)) and is claiming preference under section 7(a) of the Federal Power Act.

(b)(6)

(i) The statutory or regulatory requirements of the state(s) in which the project would be located that affect the project as proposed with respect to bed and banks and the appropriation, diversion, and use of water for power purposes, and with respect to the right to engage in the business of developing, transmitting, and distributing power and in any other business necessary to accomplish the purposes of the license under the Federal Power Act, are:

Through consultation with state and local agencies and governments, the following state regulatory requirements have been identified:

Washington State Environmental Policy Act, Chapter 43.21C RCW
Hydraulic Project Approval, Chapter 77.55 RCW
Shoreline Management Act, Chapter 90.58 RCW
Use Authorization for State-Owned Aquatic Lands, Chapter 79.105 RCW
Water Quality Certification under Section 401 of the Clean Water Act, 33 U.S.C. § 1341;
Chapter 90.48 RCW
Consistency Determination under the Coastal Zone Management Act, 16 U.S.C. § 1456

The District is a Public Utility District formed under Washington law. In Washington State, Public Utility Districts (PUDs) are nonprofit, community-owned and governed municipal corporations that provide some or all of electricity, water, wholesale telecommunications, and sewer service. The law governing the formation and operation of PUDs is Title 54 of the Revised Code of Washington (RCW), available at <http://apps.leg.wa.gov/rcw/default.aspx?Cite=54>. RCW 54.04.020, authorizing the formation of PUDs, and RCW 54.16.040, authorizing the

construction of facilities for generating electric current, are attached to this application as Appendix J.

(ii) *The steps which the applicant has taken or plans to take to comply with each of the laws cited above are:*

The District has consulted with the various agencies responsible for implementing the state requirements listed in (b)(6)(i) above throughout the licensing process. These agencies have reviewed the various monitoring and other plans included with this application and have the opportunity to provide comments and discuss concerns.

The District has completed and submitted a Joint Aquatic Resource Permit Application (JARPA). The JARPA is a single application that can be used to apply for more than one permit at a time, created by multiple regulatory agencies to streamline the environmental permitting process. The District filed its JARPA with the appropriate agencies on February 7, 2012. This application covers the Hydraulic Project Approval and the Water Quality Certification under Section 401 of the Clean Water Act, as well as permits required by the U.S. Army Corps of Engineers and potentially for permits required under Sections 10 and 404 of the Clean Water Act.

The District will initiate its review under the Washington State Environmental Policy Act shortly after the Commission issues its environmental analysis under the National Environmental Policy Act. This timing will allow the District to utilize that environmental analysis as part of its review, avoiding unnecessary duplication.

The District will submit an application to Island County for a permit under the Shoreline Management Act shortly after the Final License Application is filed with the Commission. The District will also submit an application to the Washington State Department of Natural Resources for a Use Authorization for State-Owned Aquatic Lands soon after filing the Final License Application.

The District is working with the Washington Department of Ecology to comply with the requirements of the Coastal Zone Management Act and is filing its request for consistency certification concurrently with this Final License Application.

(b)(7) *Brief Project Description:*

(i) *Proposed installed generating capacity:* <1 MW.

(ii) *Check appropriate box:*

- ☐ *Unconstructed Dam*
- ☐ *Existing Dam*
- ☐ *Existing Dam, Major Modified Project (see § 4.30(b)(14))*
- ☒ *None*

The Project is a hydropower project that proposes to utilize the kinetic energy of tidal streams to power two turbines. The Project is located under water in a section of Admiralty Inlet in the

northwestern portion of Puget Sound, an inland marine waterway of the northern Pacific Ocean. The Project will consist of two OpenHydro turbines, which are closed-shroud, open-centered devices with no exposed blade tips, and are installed without anchors or pilings.

The Project will have an installed capacity of less than 1 megawatt (MW), with models showing expected peak generation of approximately 680 kilowatts (kW).¹ Power will be transferred to the grid via seabed cable. This cable will use directional-boring technology near land to minimize or eliminate any shoreline disturbance. The Project will include appurtenant facilities for interconnection, operation, monitoring, and safety.

While the Project will produce a modest amount of electric energy, the primary purpose of the Project is to conduct research and gather data to inform questions regarding the technical, economic, and environmental viability of tidal energy generation generally, and to inform the District's potential further development of tidal energy generation in Admiralty Inlet and other sites in and around Puget Sound.

(b)(8) Lands of the United States affected (affected lands shown on Exhibit G):

No lands of the United States will be affected.

	<i>(Name)</i>	<i>(Acres)</i>
<i>(i) National Forest</i>	n/a	0
<i>(ii) Indian Reservation</i>	n/a	0
<i>(iii) Public Lands Under Jurisdiction of</i>	n/a	0
<i>(iv) Other</i>	n/a	0
<i>(v) Total U.S. Lands</i>		0
<i>(vi) Check appropriate box:</i>		
<input checked="" type="checkbox"/> <i>Surveyed Land</i>	<input type="checkbox"/> <i>Unsurveyed Land</i>	

(b)(9) Construction of the Project is planned to start within 18 months, and is planned to be completed within 36 months, from the date of issuance of license.

¹ Expected generation figures are based on the most recent data available to the District and are the output of a model intended to predict turbine performance within Admiralty Inlet. However, electrical generation from tidal energy conversion devices is highly site-specific and may be influenced by even small changes in the final location of the turbines. Further, performance will be influenced by other factors as well, including actual efficiency of the devices, specific currents encountered, and the effect of turbulence. Therefore, the figures herein are estimates only and may change based on updated data, precise turbine location following deployment, actual performance, and other factors.

The following information is provided pursuant to 18 C.F.R. § 5.18(a)

(a)(1) Identify every person, citizen, association of citizens, domestic corporation, municipality, or state that has or intends to obtain and will maintain any proprietary right necessary to construct, operate, or maintain the project:

The District submits this Final License Application as the sole applicant for a new pilot hydrokinetic license for the project. The District is the only entity that has or intends to acquire all proprietary rights to construct, operate, and maintain the Project over the term of the new license.

(a)(2) Identify (providing names and mailing addresses):

(i) Every county in which any part of the project, and any Federal facilities that would be used by the project, would be located:

The Project does not use any Federal facilities. The Project lies entirely within the political boundary of Island County. Island County's contact information is:

Island County

1 NE 7th Street
P.O. Box 5000
Coupeville, WA 98239

(ii) Every city, town, or similar local political subdivision:

A. In which any part of the project, and any Federal facilities that would be used by the project, would be located:

No part of the Project, nor any portion of the Project boundary, will be located within the boundary of any city, town, or similar political subdivision.

B. That has a population of 5,000 or more people and is located within 15 miles of the project dam:

There are three cities with populations of 5,000 or more people located within a 15-mile radius of the proposed Project. The mailing addresses of those cities are:

City of Port Townsend

250 Madison Street
Port Townsend, WA 98368

City of Oak Harbor

865 SE Barrington Drive
Oak Harbor, WA 98277

City of Stanwood

10220 270th Street NW
Stanwood, WA 98292

(iii) Every irrigation district, drainage district, or similar special purpose political subdivision:

A. In which any part of the project, and any Federal facilities that would be used by the project, would be located:

No Project facilities will be located in or are proposed for location in an irrigation district, drainage district, or similar special purpose political subdivision, nor will any Federal facilities be used by the Project.

B. That owns, operates, maintains, or uses any project facilities that would be used by the project:

The District will be solely responsible for owning, operating, maintaining, and using Project facilities. No special purpose political subdivision would be involved with the Project.

(iv) Every other political subdivision in the general area of the project that there is reason to believe would likely be interested in, or affected by, the application:

The District is unaware of any political subdivisions in the area of the Project likely to be interested in the licensing of the Project and not mentioned above.

(v) All Indian tribes that may be affected by the project:

Indian tribes potentially affected by or interested in the Project and participating in the licensing process are:

Jamestown S’Klallam Tribe

1033 Old Blyn Highway
Sequim, WA 98382

Lower Elwha Klallam Tribe

2851 Lower Elwha Road
Port Angeles, WA 98363

Lummi Nation

2616 Kwina Road
Bellingham, WA 98226

Port Gamble S’Klallam Indian Tribe

31912 Little Boston Road NE
Kingston, WA 98346

Sauk-Suiattle Indian Tribe

5318 Chief Brown Land
Darrington, WA 98241

Suquamish Tribe

18490 Suquamish Way
Suquamish, WA 98392

Swinomish Indian Tribal Community

11404 Moorage Way
LaConner, WA 98257

Tulalip Tribes of Washington

6406 Marine Drive
Tulalip, WA 98271

Upper Skagit Indian Tribe

25977 Community Plaza Way
Sedro Wooley, WA 98284

(a)(3) As required by 18 C.F.R. § 5.18(a)(3)(i), and concurrent with the filing of this Final License Application, the District is serving a copy of the Final License Application and those exhibits and attachments containing non-Critical Electrical Infrastructure Information upon the appropriate Federal, state, and interstate resource agencies, Indian tribes, local governments, and members of the public identified as interested or active participants, in the licensing proceedings for the Project, including the entities listed in (a)(2) of this Initial Statement. In addition, the District is notifying every property owner of record with interest in the property within the bounds of the Project of the filing of this Final License Application.

(a)(4) As required by 18 C.F.R. § 5.17(e), the District notes that it is not seeking benefits under section 210 of the Public Utility Regulatory Policies Act of 1978.

(a)(5) *Verification of Facts*

This application is executed in the:

State of Washington,

County of Snohomish,

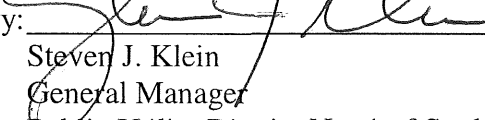
By: Steven J. Klein, General Manager

(Name): Public Utility District No. 1 of Snohomish County, Washington

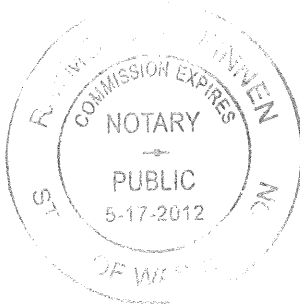
(Address): P.O. Box 1107, 2320 California Street, Everett, WA 98206-1107

being duly sworn, deposes and says that the contents of this application are true and correct to the best of his knowledge and belief. The undersigned Applicant has signed the application this 28th day of February, 2012.

PUBLIC UTILITY DISTRICT NO. 1 OF SNOHOMISH COUNTY

By: 
Steven J. Klein
General Manager
Public Utility District No. 1 of Snohomish County

Subscribed and sworn to before me, a Notary Public, this 28th day of February, 2012.




Signature of Notary Public

RAYMOND F. FINNER
Printed Name

Residing at: EVERETT, WA

My commission expires: 5-17-2012

PILOT PROJECT LICENSING JUSTIFICATION STATEMENT

for the Admiralty Inlet Pilot Tidal Project

On July 7, 2011, the Federal Energy Regulatory Commission (the Commission) found that the Draft License Application for the Admiralty Inlet Pilot Tidal Project (the Project) filed by Public Utility District No. 1 of Snohomish County (the District) on December 28, 2009, addresses and meets the criteria for licensing pilot projects outlined in the Commission's whitepaper, "Licensing Hydrokinetic Pilot Projects."² The Commission, however, reserved the final decision on whether the Project is an appropriate pilot project for when the Commission acts on the Final License Application.

The following demonstrates that the Project meets the *Criteria for Using the Pilot Licensing Procedures*, listed in Section III of the Commission's whitepaper. These criteria specify that a proposed project must be: (1) small; (2) short term; (3) not located in sensitive areas; (4) removable and able to be shut down on short notice; (5) removed, with the site restored, before the end of the license term (unless a new license is granted); and (6) initiated with a draft application that is adequate as filed to support environmental analysis.

1. The Project Will be Small

As discussed in the whitepaper, Commission staff will evaluate projects on a case-by-case basis, but expects that pilot projects will be less than 5 MW and often will be substantially smaller. In addition to generating capacity, staff also will consider carefully the number of generating units and the project footprint in determining whether the proposal qualifies as a pilot project. The proposed Project is consistent with this criterion, as it will consist of only two turbines and have a proposed installed capacity of 681 kW, well below the 5 MW threshold proposed by the Commission in its whitepaper.

2. The License Term Will be Short

As discussed in the whitepaper, while the Commission expects that pilot project will have terms of five years, it will evaluate proposals for longer license terms on a case-by-case basis. The District believes that a license term of ten (10) years is appropriate for the Project. Tidal energy technology, including the OpenHydro turbine, is an emerging technology that requires substantial field demonstration, particularly in terms of maintenance and operations cycles, to fully inform future plans and deliver on the data requirements of the project. The District and OpenHydro currently believe that fully evaluating plant operations and gathering the associated and required data will require multiple years of turbine operation. Because the license term must also allow time for procurement, construction, and potential removal of the turbines, a 10-year license term is appropriate. In addition, Commission regulations require that an application for a new license be filed at least two years prior to license expiration. Because pre-application proceedings can take three or more years to complete, a five-year license term would require Snohomish to begin relicensing proceedings almost before the Project begins operation.

² See FERC, Licensing Hydrokinetic Pilot Projects (Apr. 14, 2008; revised Feb. 4, 2009; Feb. 19, 2010), available at <http://www.ferc.gov/industries/hydropower/indus-act/hydrokinetics/energy-pilot.asp>.

3. The Project Will Not be Located in a Sensitive Area

The whitepaper guidance indicates that the applicant must describe potential areas of sensitivity in the proposed project area and indicate the reasons for the sensitivity and include stakeholder comments. Commission staff will determine whether a potential use conflict makes the proposal inappropriate for an expedited review process. Although Admiralty Inlet is home to several species listed under the Endangered Species Act, the characteristics of the Inlet demonstrate that it is a large, diverse, commercial waterway appropriate for a pilot tidal energy project.

Admiralty Inlet has substantial shoreline development, a ferry route operating directly to the south of the project site which typically makes twenty crossings daily between Whidbey Island and the city of Port Townsend, and most notably includes the major regional shipping lane utilized by essentially all commercial and military traffic in and out of Puget Sound. Figure 1 below reflects the shipping traffic adjacent to the project site for a typical week. Admiralty Inlet is by any definition a working waterway. The District has consulted with the Coast Guard and all major navigational users of the Admiralty Inlet waterway via the Puget Sound Harbor Safety Committee. No navigational or recreational impediments to the siting and operation of the Admiralty Inlet Pilot Tidal Project as proposed have been identified.

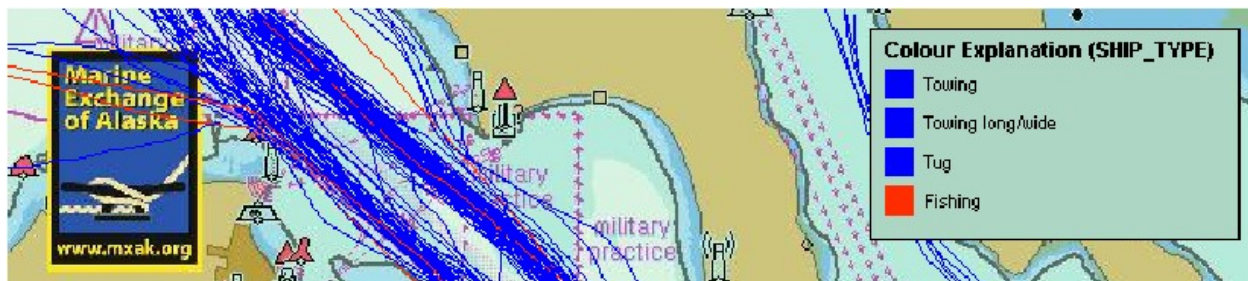


Figure 1. Admiralty Inlet Navigational Traffic.

The placement of the Project near a busy shipping channel, which is used by essentially all maritime traffic transiting to and from the ports of Seattle, Tacoma, Olympia, and Everett, as well as Naval facilities including Naval Station Everett, Puget Sound Naval Shipyard, and the Bangor Submarine Base, represents an appropriate use of a commercial waterway.

Based upon available information, the District anticipates that the proposed Project will not present a risk to marine resources within Admiralty Inlet. In part, this is due to the design of the OpenHydro turbine itself: a closed-shroud, open-centered device with no exposed blade tips, running at low speed without cavitation, with no need for oil or grease lubricants, and installed without anchors or pilings. Additionally, the Project is of very limited scale relative to Admiralty Inlet, representing less than 0.05% of the Inlet's cross-section (Figure 2).

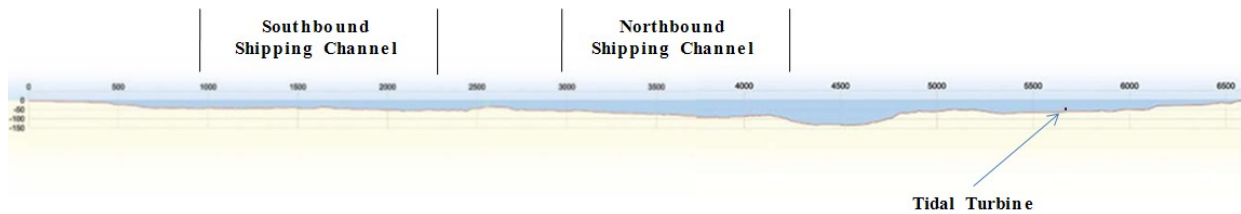


Figure 2. Cross-section of Admiralty Inlet showing approximate scale of a tidal turbine.

While limited in scope, existing data and assessments regarding currently operating and proposed tidal projects do not document substantial or unanticipated environmental risk. A primary concern of tidal energy technologies is that marine life will interact with the rotating turbine blades. Marine mammals and fish are highly sensitive to their surroundings and it is expected that they will avoid turbines. Initial evaluation of the potential for interaction with the turbine, primarily at test facilities in Europe, appear to support this hypothesis and a program of work for full evaluation is ongoing. Similarly, the recent OpenHydro installation in the Bay of Fundy was evaluated in a comprehensive Environmental Assessment report to Canadian federal and provincial governments; the likely effects of the project were found to be limited in scope and duration (AECOM 2009). While these and similar assessments do not by themselves document the safety of the Admiralty Inlet Pilot Tidal Project, Snohomish believes they provide important context that must be included relative to considering potential environmental risk.

The proposed Project area includes the following areas:

1. Endangered Species Act (ESA) Designated Critical Habitat.

The proposed Project area includes designated critical habitat for eight ESA-listed species managed by National Marine Fisheries Service and two ESA-list species managed by the US Fish and Wildlife Service. Based upon the design and scope of the proposed Project, the District anticipates that the proposed Project will not adversely affect ESA Designated Critical Habitat. The proposed monitoring plans appended to this Final License Application will allow the District to verify that the Project is not adversely affecting Critical Habitat.

2. Essential Fish Habitat.

As is the case for the entirety of Puget Sound, the National Marine Fisheries Service has designated Admiralty Inlet as Essential Fish Habitat (EFH) for a number of species and includes several Habitat Areas of Particular Concern. Based upon the design and scope of the proposed Project, the District anticipates that the proposed Project will not adversely affect EFH. The proposed monitoring plans appended to this Final License Application will allow the District to verify that the Project is not adversely affecting EFH.

4. The Project Will be Removable and Able to be Shut Down on Short Notice

The whitepaper states that, in the event of unacceptable risks to the public or the environment during the license period, projects using the Pilot Licensing Process must be removable or able to shut down on short notice.

In the District's June 24, 2011, response to the Commission's request for additional information, the District included a proposed Near-Turbine Monitoring Plan to detect and quantify fish and marine mammal use, if any, of the local vicinity of the project turbines. (Such an effort is not feasible prior to turbine installation because the transponders require power and high- capacity data transfer and storage.) Although the District continues to work with interested agencies and other stakeholders to finalize the Near-Turbine Monitoring Plan, the goals and standards contained in the June 24 draft remain.

In combination with the Near-Turbine Monitoring Plan, the District is working with interested agencies and stakeholders to finalize a Marine Mammal Monitoring Plan. The objective of the Marine Mammal Monitoring Plan is, broadly, to improve the understanding of how marine mammals interact with operating tidal turbines. The primary consideration is attraction or avoidance.

In addition, the District has developed Project Safeguard Plans which detail procedures the District will undertake to safeguard the public and environmental resources, including procedures for emergency shutdown and removal of the Project, if required. These plans provide for monitoring to detect the potential for substantial environmental or public harm, and allow for appropriate mitigation efforts (e.g., fish deterring acoustic devices). In the unexpected event that Project removal or shutdown is required, the District would be able to take such measures on short notice. No anchor placements, pilings, or surface-piercing structures would be involved with the turbine installations or cable. In fact, both the turbines and their foundations are specifically designed to be completely removable for scheduled maintenance or other needs. Both the design of the OpenHydro turbine foundation itself, as well as the deployment methodology, are completely consistent with the Pilot License Process requirement that the Project is removable or able to shut down in the event of risk to the public or environmental harm.

5. The Project Will be Removed and the Site Restored Before the End of the License, Unless a New License is Obtained

The whitepaper states that licenses for pilot projects will require that the project be removed and the site restored as directed by the Commission. If a pilot project licensee opts to apply for a standard license at the end of the pilot project license term, authorization of the build- out project will be evaluated in a full Commission proceeding with National Environmental Policy Act review and participation by all interested stakeholders. If build-out is licensed, there may be no need to remove the pilot devices.

As discussed above, in the case of the Project, no anchor placements, pilings, or surface-piercing structures would be involved with the turbine installations or cable. In fact, both the turbines and their foundations are specifically designed to be completely removable for scheduled

maintenance or other needs. Power would be transferred to the grid via a seabed cable to Whidbey Island. The cable deployment will utilize horizontal directional drilling so as to avoid disturbing nearshore habitats. Both the design of the OpenHydro turbine foundation itself, as well as the deployment methodology, are completely consistent with the Pilot License Process requirement to completely remove the installation and restore the site within the term of the pilot license.

6. The Draft License Application, as Supplemented, Was Sufficient to Support Environmental Analysis

The District filed the Draft License Application on December 28, 2009. On August 6, 2010, the Commission requested additional information from the District to aid in its assessment of whether the Project meets the criteria for the pilot licensing process. The District submitted its response to the Commission on June 24, 2011. On July 7, 2011, the Commission found that the Draft License Application, as supplemented by the additional information requested, addresses and meets the criteria for licensing pilot projects outlined in the Commission’s whitepaper. Thus the District’s Draft License Application complies with this criterion. Moreover, this Final License Application provides additional information about the existing environment to fully support the Commission’s environmental analysis.

PROCESS PLAN AND SCHEDULE

for the Admiralty Inlet Pilot Tidal Project

This process plan and schedule outlines the steps and timing associated with the Commission's pilot project license procedures for the District's Admiralty Inlet Pilot Tidal Project (the Project). The schedule is generally broken into two phases: (1) the pre-filing phase, which encompasses those actions between the submittal of a Notification of Intent and a Draft License Application and a Commission determination on the appropriateness of the pilot licensing process; and (2) the post-filing phase, which encompasses those actions between the submittal of a Final License Application and the Commission's issuance of a pilot license.

On July 7, 2011, the Commission notified the District that there is good cause to use the pilot project license procedures for the Project, and thus the Commission granted the District's request to waive certain ILP regulations.¹ Concurrent with its July 7, 2011, letter, the Commission issued a notice concluding the pre-filing phase. Therefore, the schedule below only outlines the steps associated with the post-filing phase.

Table 1. Post-Filing Process Schedule as Described in the Commission Whitepaper.

Responsible Entity	Milestone	Date		
Snohomish	File Final License Application and Draft Biological Assessment	2/29/2012		Box 5
Snohomish	Request 401 Water Quality Certification and CZMA Consistency Determination	2/29/2012		Box 5
FERC	Issue Public Notice Accepting Application and Ready for Environmental Analysis (REA)	3/15/2012	15 days from filing	Box 6A
FERC	Issue Biological Assessment			Box 6A
All stakeholders	Comments, Interventions, Recommendations, and Conditions Due	4/14/2012	30 days from Commission public notice	Box 7
FERC	Issue Single Environmental Assessment (Single EA) if a Finding of No Significant Impact (FONSI)	6/13/2012	60 days from due date for comments	Box 8
All stakeholders	Comments on Single EA; 10(j) Resolution	7/13/2012	30 days from Single EA	Box 9
FERC	Ready for Commission Decision			Box 10

¹ The District requested waiver of sections 5.2(a), 5.6, 5.7, 5.8, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.16, and 5.18(c).

EXHIBIT A – PROJECT DESCRIPTION

for the Admiralty Inlet Pilot Tidal Project

1.0 SUMMARY DESCRIPTION OF PROJECT

Public Utility District No. 1 of Snohomish County, Washington (the District), is applying to the Federal Energy Regulatory Commission (the Commission) for a short-term pilot license for a tidal energy demonstration and research project, the Admiralty Inlet Pilot Tidal Project (Project No. 12690) (the Project), in Admiralty Inlet in Washington State. The District is a municipal corporation of the State of Washington, formed by a majority vote of the people in 1936 for the purpose of providing electric and/or water utility service throughout Snohomish County and neighboring Camano Island. The District is the second largest consumer-owned electric utility in Washington State and, despite the economic downturn, Snohomish County continues to exhibit population growth. In 2010 the District received 3,100 requests for new electric service connections, and the growth is expected to continue.

The Project will involve the deployment and operation of two six meter diameter Open-Centre Turbines developed and manufactured by OpenHydro Group Ltd. The maximum power output from the turbines is approximately 680 kilowatts (kW) of electrical energy at peak tidal currents.¹ However, the maximum power is expected to be capped at 300 kW (150 kW per turbine) to limit stress on the subsea cable, cable connections, and power conversion equipment.

While the Project will produce a modest amount of energy, the primary purpose of the Project is to explore the feasibility of tidal energy as a generation resource. The District will use the information gathered from the Project to inform the potential further development of the Admiralty Inlet site and the potential development of other sites in and around Puget Sound.

The turbines will be mounted on completely submerged gravity foundations and will be interconnected to the electrical grid on Whidbey Island. Other Project facilities include a subsea transmission cable, a cable termination vault, and a power conditioning and control building.

The Project description that follows is organized pursuant to the requirements set forth in the Commission's regulations, at 18 C.F.R. § 4.61(c). A more detailed and complete description of the proposed project, including construction and installation methods for the turbine and appurtenant facilities, appears in section 2 of Exhibit E.

2.0 PROJECT DESCRIPTION

- 2.1 The number of generating units, including auxiliary units, the capacity of each unit, and provision, if any, for future units.

¹ Expected generation figures are based on the most recent data available to the District and are the output of a model intended to predict turbine performance within Admiralty Inlet. However, electrical generation from tidal energy conversion devices is highly site-specific and may be influenced by even small changes in the final location of the turbines. Further, performance will be influenced by other factors as well, including actual efficiency of the devices, specific currents encountered, and the effect of turbulence. Therefore, the figures herein are estimates only and may change based on updated data, precise turbine location following deployment, actual performance, and other factors.

The Project will generate electrical power from two tidal energy turbines. The predicted peak power generated will be approximately 370 kW for turbine 1 and 310 kW for turbine 2, for a total predicted peak capacity of 680 kW. The District does not expect to install additional units pursuant to the requested pilot license. Rather, should the District wish to pursue the installation of additional turbines, the District expects to apply for a long-term, commercial license from the Commission.

2.2 The type of hydraulic turbine(s).

The Project will utilize 6-meter diameter Open-Centre turbines supplied by OpenHydro Group Ltd. The Open-Centre turbines feature a horizontal axis rotor with power off take through a direct drive, permanent magnet generator. The turbine is principally comprised of three components:

- An external venture, or duct;
- Stator; and
- Turbine rotor, with rotor blades retained entirely within the outer venture and a large open center.

The design has no need for a gearbox or other complicated components requiring regular intervention. An image of the turbine is below:

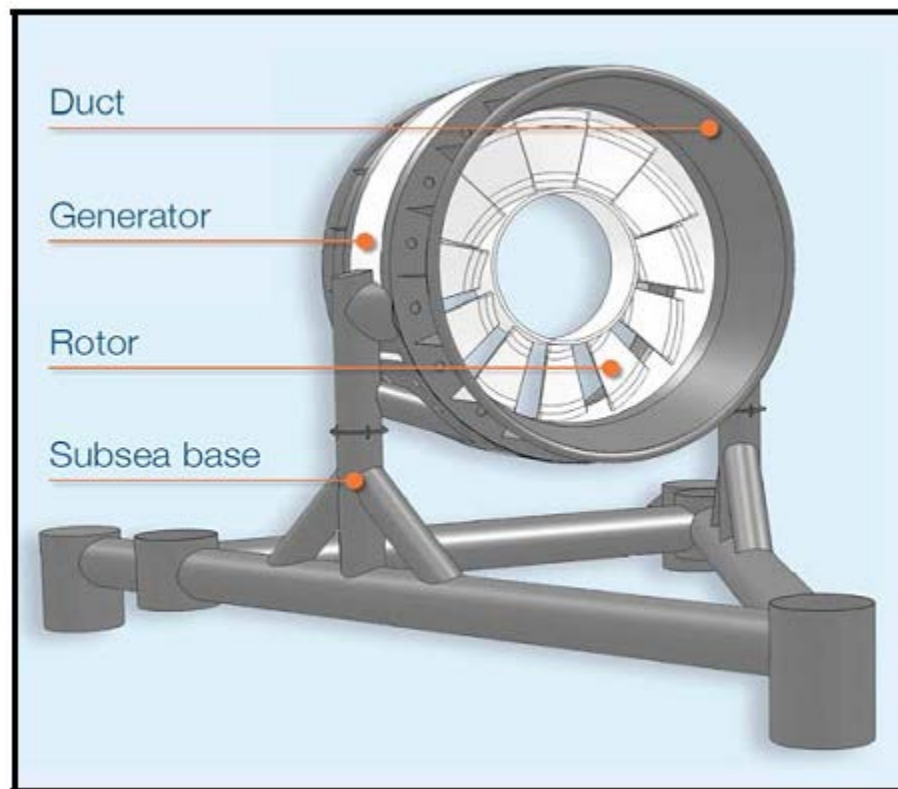


Figure 1. OpenHydro Open-Centre Turbine.

2.3 A description of how the plant is to be operated, manual or automatic, and whether the plant is to be used for peaking.

The OpenHydro turbine is designed to generate electric power based on the velocity of the tidal currents. Under normal operating conditions, no braking will be applied to slow the turbine as the water velocity is predictable and the turbine design allows for all conditions that could occur. However, in unusual circumstances, an electrical brake can be applied to stop the turbine rotation almost instantly. There is no impoundment of water and no means to artificially increase the flow of water past the turbine. As a result, the Project is not suitable for use as a peaking resource.

- 2.4 The estimated average annual generation in kilowatt-hours or mechanical energy equivalent.

Turbine 1 is expected to have an average instantaneous power output for the year of 14.5 kW and an average output of 13.0 kW for turbine 2, for an average annual generation of 114,000 kilowatt-hours (kWh) and 102,000 kWh for turbines 1 and 2, respectively. This equates to an average annual generation of approximately 27.5 kW, or 216,000 kWh, for the Project. Peak power is predicted to be 680 kW for the Project.

- 2.5 The estimated average head on the plant.

Not applicable to this Project.

- 2.6 The reservoir surface area in acres and, if known, the net and gross storage capacity.

Not applicable to this Project.

- 2.7 The estimated minimum and maximum hydraulic capacity of the plant (flow through the plant) in cubic feet per second and estimated average flow of the stream or water body at the plant or point of diversion.

The Project does not utilize impounded water to generate electricity, and thus there will not be a “diversion” as traditionally envisioned for river-based hydroelectric projects. A description of the characteristics of Admiralty Inlet, however, follows.

The Northwest National Marine Renewable Energy Center deployed Acoustic Doppler Current Profiler (ADCP) devices in Admiralty Inlet over a period of 75 days between May and August 2009. The ADCP devices collect data that can be used to assess the tidal stream current resource and allow developers to assess the energy generation potential of individual locations within a site.

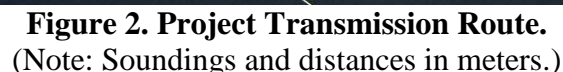
The maximum velocity recorded during this deployment was 3.418 m/s on an ebb tide. It should be noted that the ebb tide is more energetic and in total 55% of the kinetic energy recorded was during the North- Westerly flowing ebb tides. Average tidal velocity is approximately 1.5 m/s.

- 2.8 Sizes, capacities, and construction materials, as appropriate, of pipelines, ditches, flumes, canals, intake facilities, powerhouses, dams, transmission lines, and other appurtenances.

The Project will incorporate the following facilities or appurtenances:

- Each of these appurtenances is described below:

The Project will transmit electrical power generated from the OpenHydro turbines to the onshore electrical grid via two parallel subsea trunk cables. The cables connect to a control room, and from the control room the cables connect to the Puget Sound Energy (PSE) grid. The shore landing, control room, and connection to the PSE grid is all located on private land east of Admiralty Head. The general configuration of the cables and shore landing is shown in Figure 2. The two trunk cables will be routed through a single HDD bore which runs from onshore to a minimum depth of 18 meters. From the HDD exit underwater, the cables will continue on the seabed to the turbines.



APPLICATION FOR LICENSE FOR A PILOT HYDROKINETIC PROJECT
Exhibit A – Project Description – February 29, 2012

power for turbine control and the environmental monitoring system are provided by 2 kV or less dedicated low power elements in the trunk cables. A typical cable arrangement is shown in Figure 3.

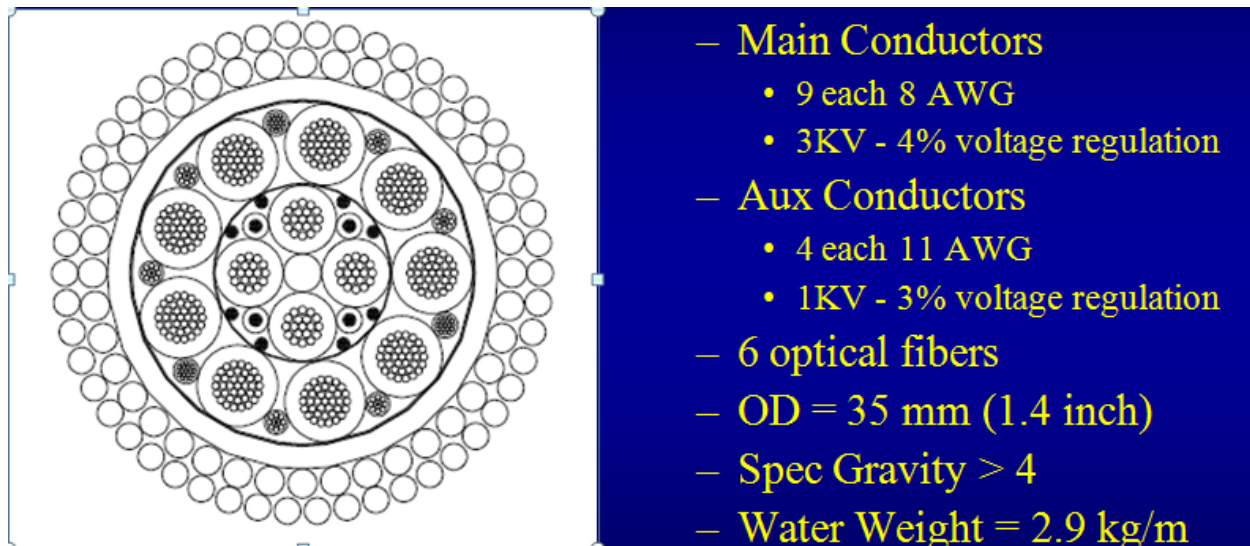


Figure 3. Typical Trunk Cable.

The trunk cables are installed from the turbines to the HDD exit point immediately following the turbine installation. The trunk cables are installed parallel to each other along the seabed surface for approximately 2 km. The cables are installed separately, approximately two weeks apart due to the turbine installation sequence. Approximately 180 meters from the turbines each cable will have a cable connector that will allow for turbine disconnection and removal.

The cables are designed with a high Specific Gravity to assure they do not move on the sea floor due to the high currents along the route. For reference, the cable used with the OpenHydro turbine deployed at EMEC had a submerged weight of 18.4 kilograms per meter, and is likely to be of the same dimensions as the cables proposed for Admiralty Inlet. If there are areas where the cables are suspended across depressions in the seabed or where there are gravel or sand waves, the cables may have to be pinned to the bottom. This is done with weighted sacks or other cable stabilization techniques used in the industry (N. Murphy, Open Hydro and L. Armbruster, Sound & Sea Technology, FERC Technical Conference, Admiralty Inlet Conference, April 12, 2010).

2.8.2 Anchor Mooring System

A two anchor mooring system is planned to be installed for installation and operations support. The anchors are installed to the east of the turbine locations so that they are positioned far away from the existing PC-1 telecommunications cable. The anchors are embedment type with gravity suppressor weights in line to reduce the vertical loading on the anchor. Each anchor is estimated to be about 50 tons. The anchor to suppressor weight link is chain and the remaining mooring line is chain for a distance and then either wire rope or synthetic line. The mooring line is stored on the bottom and retrieved during installation or inspection evolution in the operations time frame. The use of the mooring is to provide safety against any emergency situation during

installation and inspection to avoid vessels needing to drop anchors in a power loss or equipment failure scenario. The District intends to remove the anchors prior to expiration of the license, following consultation with appropriate agencies and interested stakeholders.

2.8.3 Shore landing cable

The cable landing site was selected for: (1) proximity to the subsea turbine site, (2) a suitable location for a shore facility building, and (3) proximity to the existing transmission infrastructure, the PSE grid. The trunk cables will come on shore through a bore hole installed by Horizontal Directional Drilling (HDD), to the shore cable vault.

2.8.4 Cable termination vault

At the cable vault, the trunk cables terminate and are connected to the terrestrial buried cables (connection breakout point). This termination vault provides an accessible connect and disconnect working area for installation and in the event that the trunk cables need to be removed or disconnected for any reason. An example of the standard utility vault expected to be used measures approximately 1.2 by 1.8 by 0.9 meters and sits flush with the surrounding surface grade.

2.8.5 Back haul cable to the control room

From the cable vault the individual cable cores will be broken out and pulled through separate conduits. The terrestrial cables will run from the termination vault through a buried conduit to the control room. One conduit will contain the AC power transmission lines from Turbine One and a second conduit will contain the AC power transmission cores from Turbine Two. The fiber optic cable, low voltage power elements and the data and telemetry wire bundles will be in additional conduits. Both turbine power cables will be terminated at the first converter buss bar and the sensor cables will terminate at their respective controllers.

2.8.6 Control room

The control room will be architecturally designed to be appropriate for the existing buildings at and near the site. The control room will house the power conditioning and monitoring equipment; the major equipment will include transformers, power inverters and conditioners, cabling, and Heating Ventilating and Air Conditioning systems. The control room layout is shown in Figures 4 and 5. The cables will penetrate the building below ground and enter a diamond plate covered cableway in the floor.



Figure 4. Representation of Control Room Site.

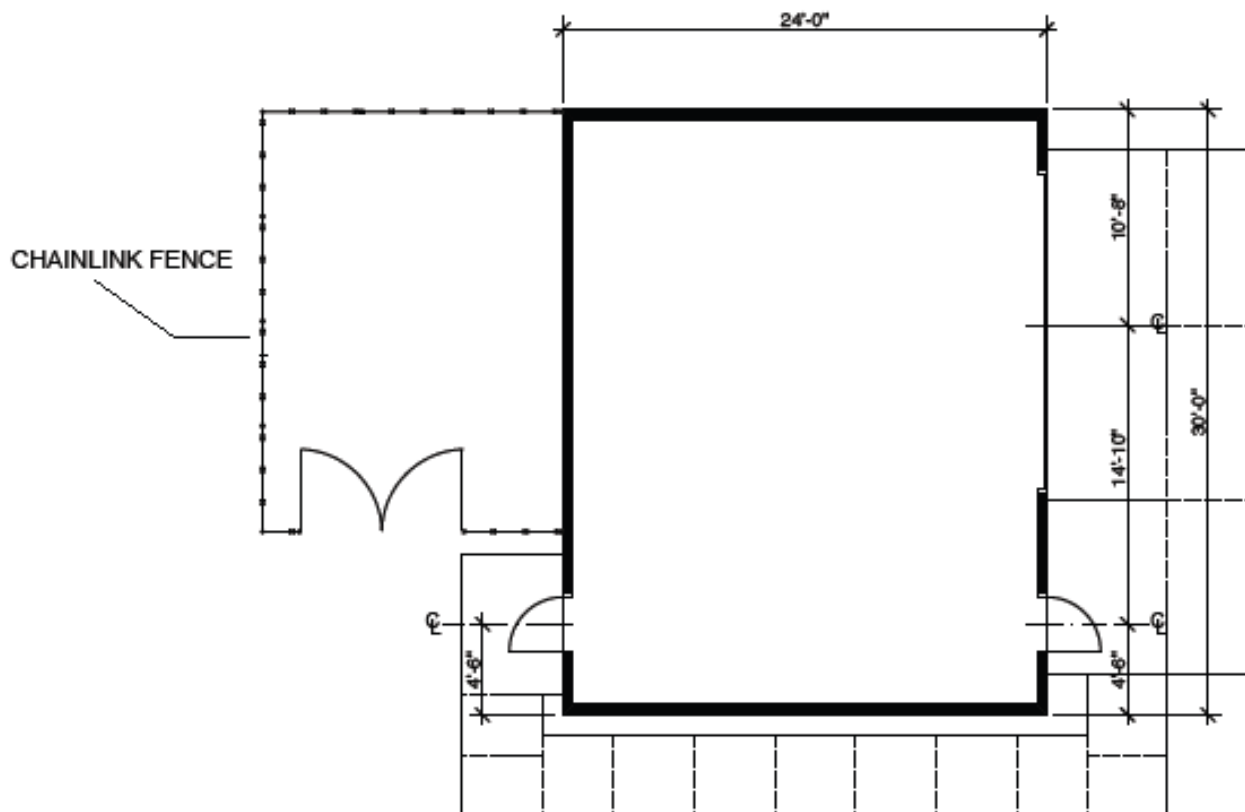


Figure 5. Control Room Plan.

2.8.7 Back haul cable to the PSE grid

From the below ground cable penetration at the control room, the AC power cables will be run underground 70 meters to the 12-kV PSE grid at a utility pole located at approximately 48.159881° N and -122.672955° W.

2.9 The estimated cost of the project.

The District expects total Project expenses, including estimated capital and permitting costs, to be approximately \$23,000,000 by the time the turbine is installed and operating. It is important to note that this expected cost is a rough estimate only, and that more accurate cost estimates will only be available *after* the District has issued a Request for Proposals regarding the various aspects of the Project and received written responses. The imprecise estimate of costs at this stage of Project development is typical of early, pilot-scale projects such as the one proposed here.

Various components of the estimated total cost are described in greater detail below.

2.10 The estimated capital costs and estimated annual operation and maintenance expense of each proposed environmental measure.

The full capital cost of the Project, including construction and delivery of two turbines and foundations, purchase and installation of the subsea cable, construction of any terrestrial facilities, purchase of related equipment and materials, and deployment of the turbines, is expected to be approximately \$16,000,000. Final cost may vary greatly depending on cost of raw materials, availability of labor, and other factors. In addition, all contracts and agreements are subject to negotiation and contracts above certain thresholds must be approved by the District's Board of Commissioners. These negotiations and approvals have not yet occurred, and thus this estimated cost is a rough estimate only.

The District conducted a suite of environmental studies prior to installation of the Project. The estimated cost for these pre-installation environmental studies was approximately \$1,400,000. In addition, the Northwest National Marine Renewable Energy Center has undertaken several study efforts that are relevant to the Project. The District estimates that these studies total an additional \$350,000, for a total pre-installation study cost of approximately \$1,750,000.

As part of this Project, the District proposes to undertake certain measures designed to gather environmental and operational data regarding the operation of the turbines. This information will be utilized to evaluate the Project and may result in modifications to the Project's operations including, in unusual circumstances, ceasing operation. The District is also committing to remove Project facilities and restore the site should a standard license not be issued. Due to the pilot nature of the Project, most of the proposed monitoring plans are the first application of the technology in this fashion. Thus, providing precise estimates for individual monitoring plans is extremely difficult. However, the District estimates that the total cost to acquire, install, operate, and maintain the equipment required for the proposed monitoring plans, and conduct the activities described in the proposed monitoring plans, over a period of five years will total approximately \$6.5 million.

3.0 PURPOSES OF THE PROJECT

While the Project is expected to generate a modest amount of energy, the Project's primary purpose is to demonstrate the potential of the emergent tidal energy industry to bring clean, environmentally benign, and competitively-priced electricity to commercial and residential consumers in Washington State and other coastal states. The District is hopeful that the Project will demonstrate that tidal energy can be counted on to help displace non-renewable fossil-fueled generation and meet a need for power in the District's service territory, both during and beyond the pilot license term.

4.0 ESTIMATED COST TO DEVELOP THE LICENSE APPLICATION

The District initiated activities related to the Project in June 2006. In the ensuing five and a half years, the District has undertaken extensive consultation and outreach, developed a comprehensive and voluminous Pre-Application Document, performed numerous site evaluation studies, performed numerous environmental studies, developed a Draft License Application, and developed and refined numerous monitoring plans to safeguard the public and environmental resources. The District estimates the costs of these and other efforts required to develop the Final License Application total approximately \$2,500,000. The total does not include the costs for ongoing consultation and outreach occurring after the Final License Application is filed, such as finalizing three of the monitoring plans and confirming the technical specifications of the equipment required to implement the various monitoring plans. The total also does not include internal expenses incurred by the District, including staff time, overhead, travel, and other Project-related costs.

5.0 ON-PEAK AND OFF-PEAK VALUES OF PROJECT POWER

Not applicable to this Project.

6.0 ESTIMATED AVERAGE ANNUAL INCREASE OR DECREASE IN PROJECT GENERATION

Not applicable to this Project.

7.0 REMAINING UNDEPRECIATED NET INVESTMENT, OR BOOK VALUE, OF THE PROJECT

Not applicable to this Project.

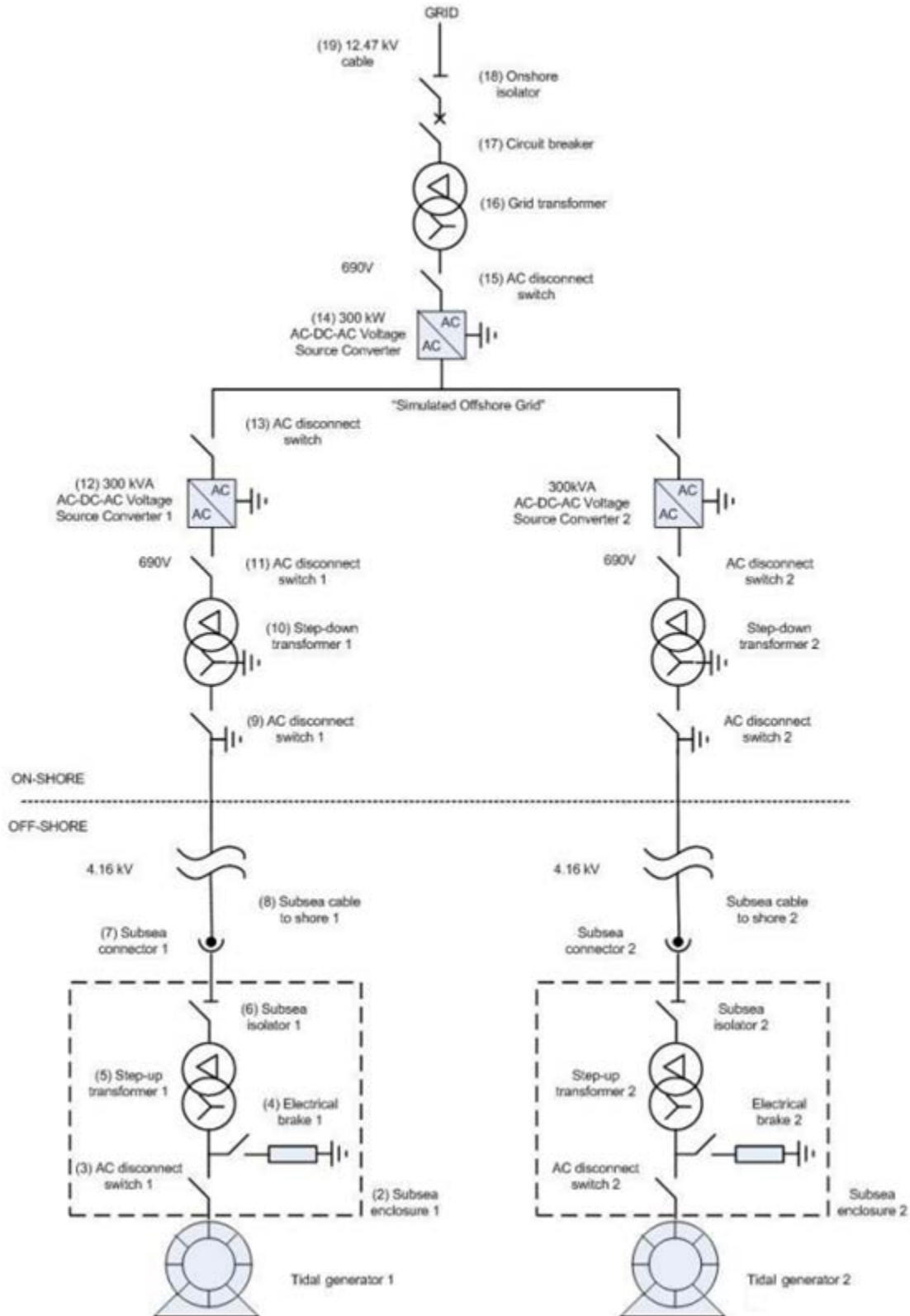
8.0 ANNUAL OPERATION AND MAINTENANCE EXPENSES, INCLUDING INSURANCE, AND ADMINISTRATIVE AND GENERAL COSTS

The District does not currently have an accurate estimate of the annual operation and maintenance expenses associated with the Project. Determining these costs is in fact a primary objective of conducting the pilot project, as it can only be through real world experience that these costs can be estimated with any degree of accuracy.

9.0 STATEMENT OF MEASURES TAKEN OR PLANNED TO ENSURE SAFE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE PROJECT

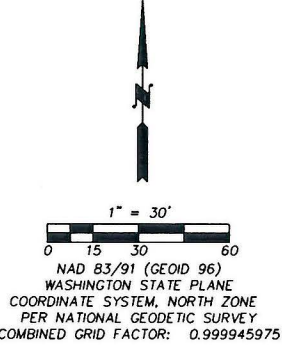
The measures to be taken by the District to ensure safe management, operation, and maintenance of the Project are described in detail in the Project Safeguard Plans, appended to the Final License Application as Appendix E. The Project Safeguard Plans address (1) Project and public safety, (2) navigational safety, (3) emergency shutdown of one or both turbines, if necessary, and (4) removal of the Project and restoration of the site, if required. These plans were developed in consultation with regulatory agencies, tribal governments, and Project stakeholders.

10.0 SINGLE-LINE ELECTRICAL DIAGRAM



**EXHIBIT F – GENERAL DESIGN DRAWINGS
OF THE PRINCIPAL PROJECT WORKS**
for the Admiralty Inlet Pilot Tidal Project

ISLAND COUNTY, WASHINGTON
T 31 N, R 1 E.



ADJOINER
JESSIE VALENTINE
P.O. BOX 488
LANGLEY WA 98260-0488

ADJOINER
FRANK AND PAULA SCHARWAT
13322 STATE ROUTE 20
COUPEVILLE WA 98239

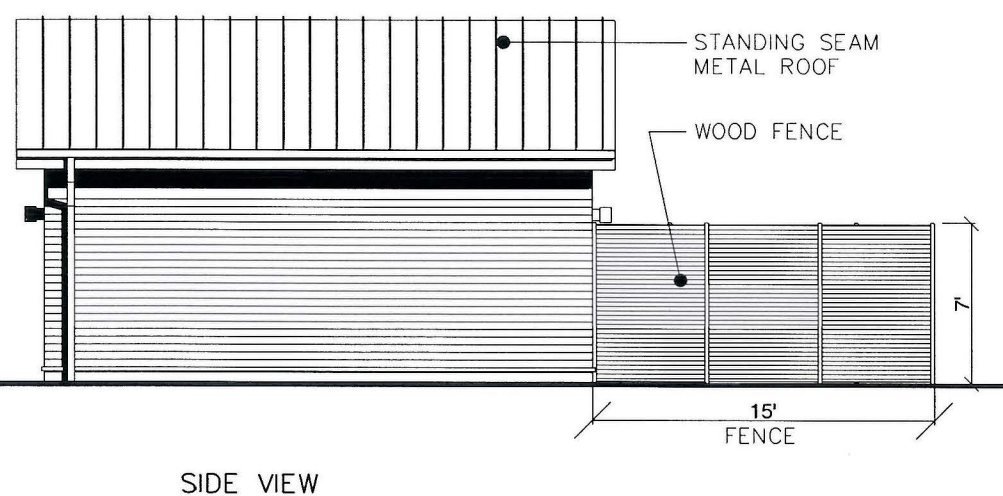
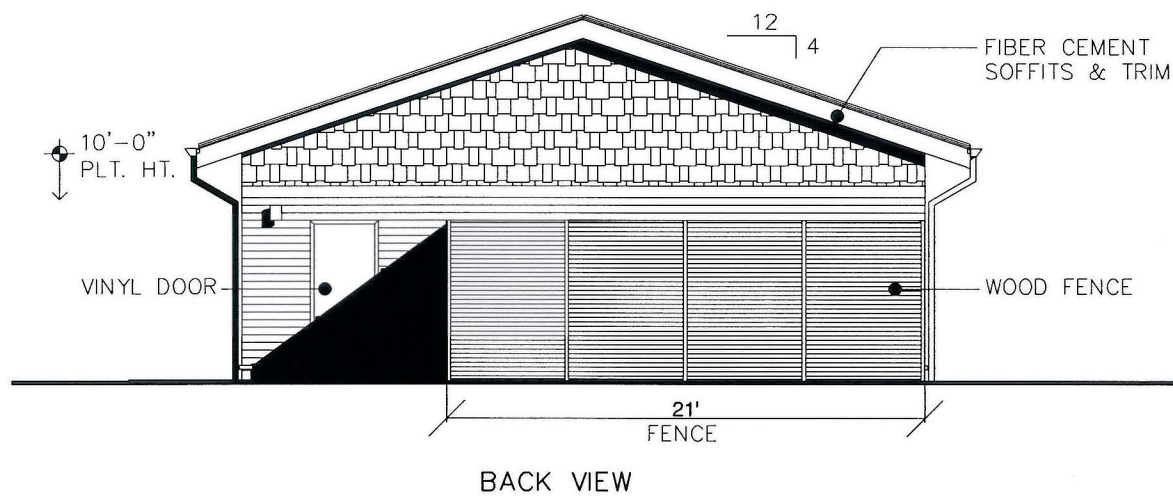
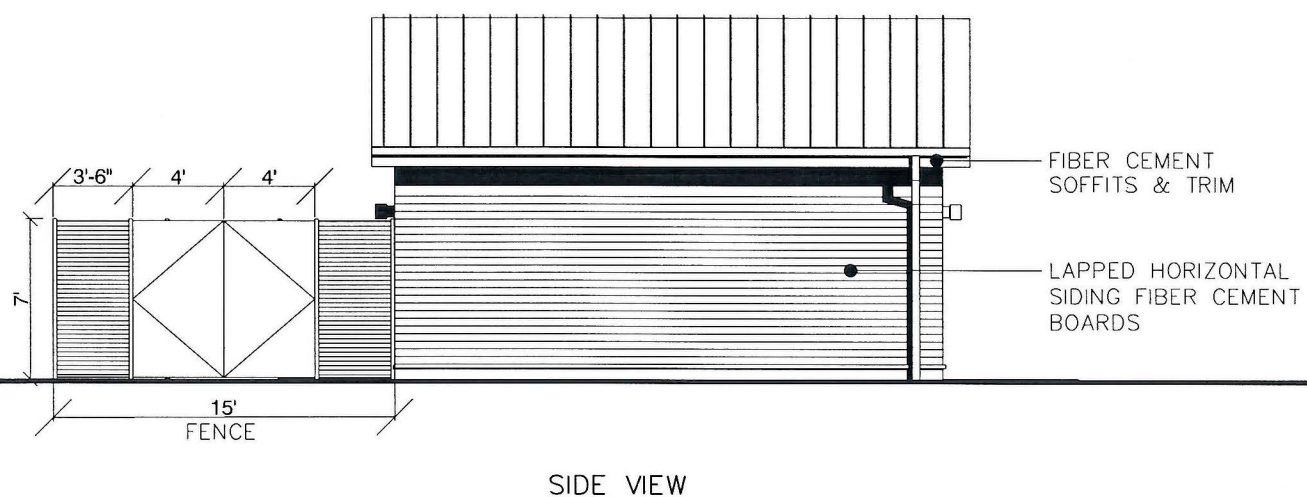
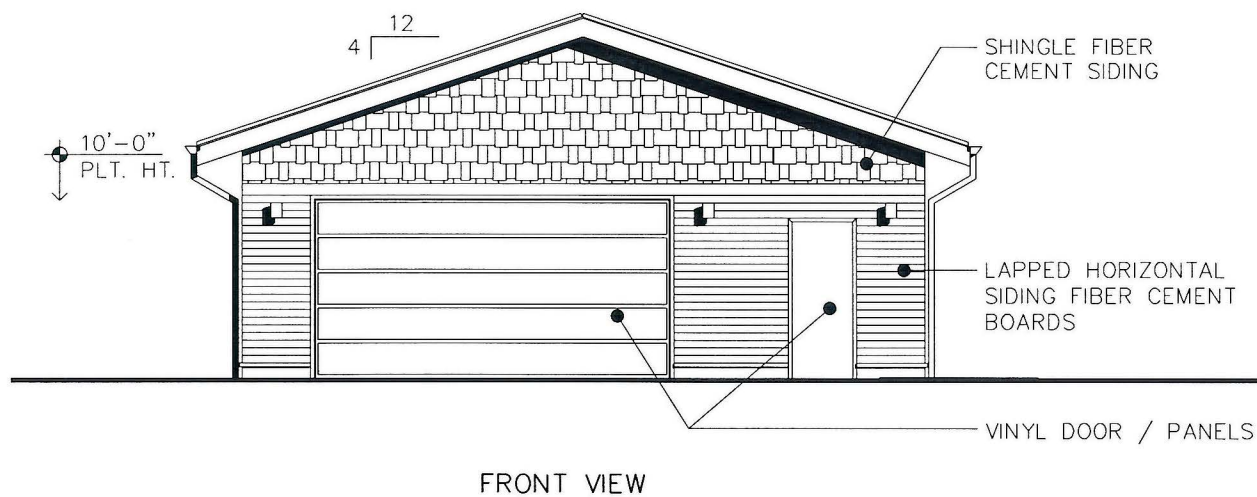
SNOHOMISH COUNTY		WO	DTIR S. E. FRESE
PUD		TASK	CHKR E. SCHNEIDER, P.E.
PUBLIC UTILITY DISTRICT NO. 1		SCALE 1"=30'	ENGR E. SCHNEIDER, P.E.
REV	FERC PROJECT NO.	DATE	APVD
	12690	AUGUST 2011	

ADMIRALTY INLET
HYDROELECTRIC TIDAL PROJECT
AKA
ADMIRALTY INLET FERC NO. XXXX
PUBLIC UTILITY DISTRICT NO. 1
OF SNOHOMISH COUNTY, WASHINGTON

POWER CONDITIONING BUILDING SITE PLAN

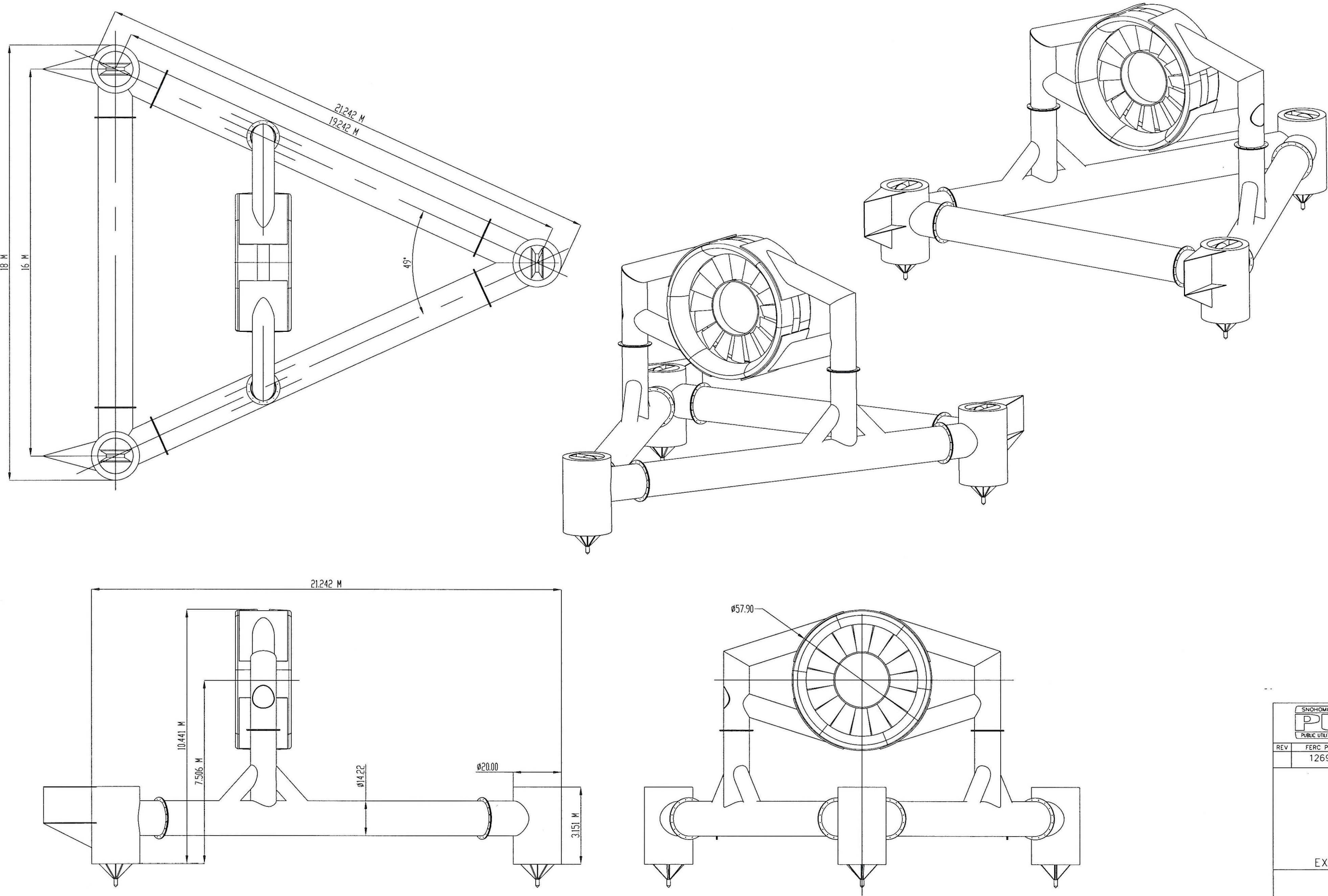
EXHIBIT: F SHEET: 1

ISLAND COUNTY, WASHINGTON
T 31 N, R 1 E.



SNHOMISH COUNTY		WO	DFTR S. E. FRESE
PUD		TASK	CHKR E. SCHNEIDER, P.E.
PUBLIC UTILITY DISTRICT NO. 1		SCALE 3"=1'	ENGR E. SCHNEIDER, P.E.
REV	FERC PROJECT NO.	DATE	APVD
	12690	AUGUST 2011	
ADMIRALTY INLET HYDROELECTRIC TIDAL PROJECT AKA ADMIRALTY INLET FERC NO. XXXX PUBLIC UTILITY DISTRICT NO. 1 OF SNHOMISH COUNTY, WASHINGTON			
POWER CONDITIONING BUILDING ELEVATIONS			
EXHIBIT: F		SHEET: 2	

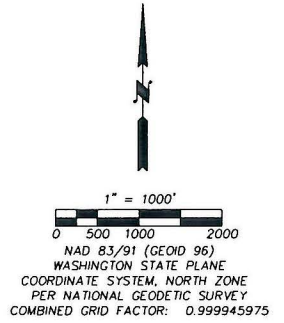
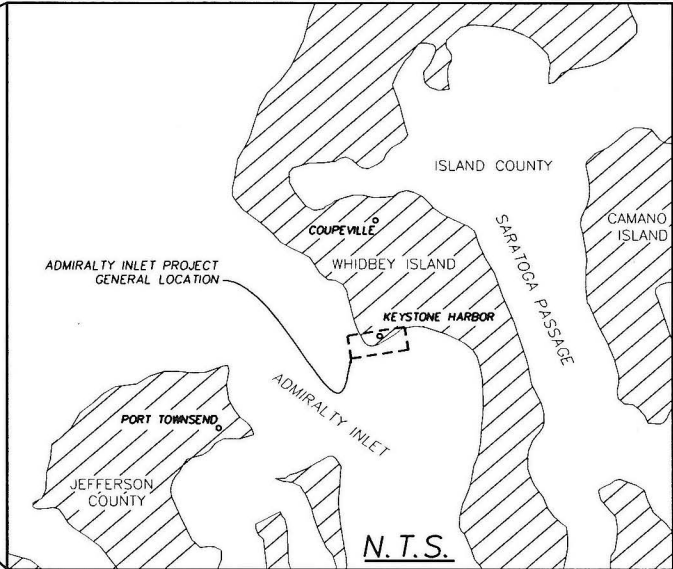
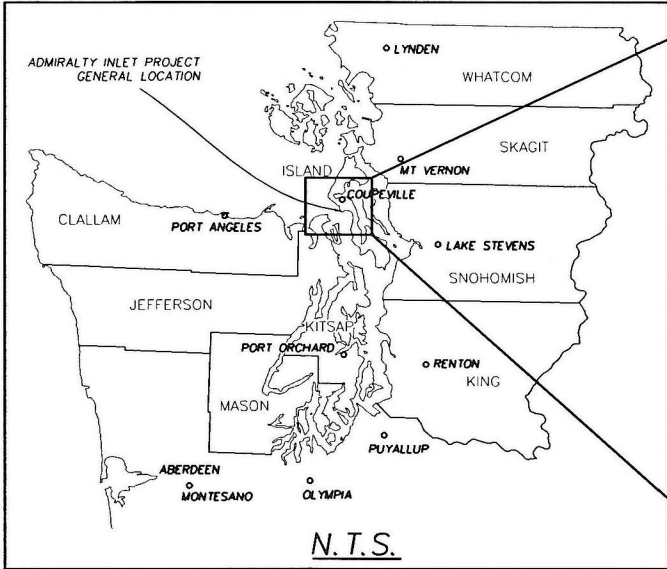
ISLAND COUNTY, WASHINGTON
T 31 N, R 1 E.



SNOHOMISH COUNTY		WO	DFTR S. E. FRESE
PUD		TASK	CHKR E. SCHNEIDER, P.E.
PUBLIC UTILITY DISTRICT NO. 1		SCALE	ENGR E. SCHNEIDER, P.E.
REV	FERC PROJECT NO.	DATE	AUGUST 2011
	12690	APVD	
ADMIRALTY INLET HYDROELECTRIC TIDAL PROJECT AKA ADMIRALTY INLET FERC NO. XXXX PUBLIC UTILITY DISTRICT NO. 1 OF SNOHOMISH COUNTY, WASHINGTON			
6M GRAVITY BASE AND TURBINE ASSEMBLY			
EXHIBIT: F		SHEET: 3	

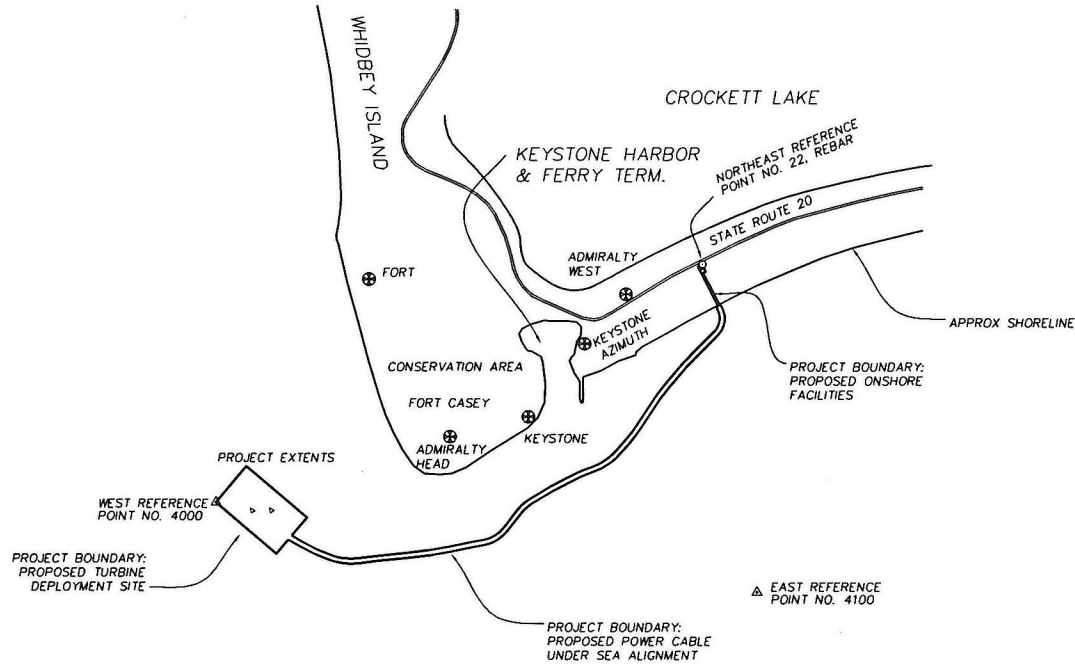
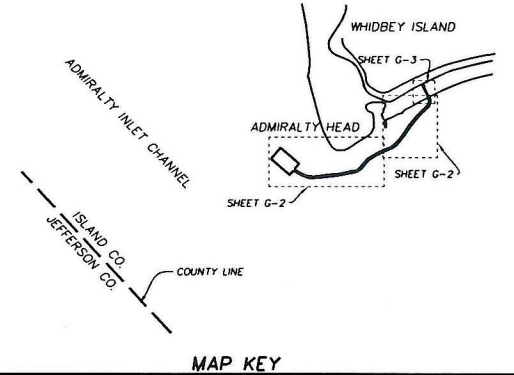
EXHIBIT G – PROJECT MAP
for the Admiralty Inlet Pilot Tidal Project

ISLAND COUNTY, WASHINGTON
T 31 N, R 1 E.



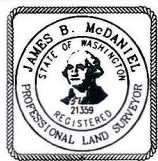
LEGEND

- ⊕ SURVEY MONUMENT
- PROPOSED PROJECT BOUNDARY
- △ PROPOSED TURBINE LOCATION



PROJECT REFERENCE POINTS			
Point Designation	Northing	Easting	Elevation
NGS FORT	428727.19	1189361.29	
NGS ADMIRALTY HEAD	426853.96	1190329.04	
NGS ADMIRALTY WEST	428547.45	1192435.34	7.03
WSDOT KEYSTONE AZIMUTH	427959.23	1191938.92	12.41
WSDOT KEYSTONE	427092.37	1191263.55	12.81
West Reference Pt 4000	426070.49	1187533.23	
East Reference Pt 4100	425000.00	1194000.00	
Northeast Reference Pt 22	428901.48	1193352.13	8.76

NGS denotes National Geodetic Survey Monument
WSDOT denotes Washington State Department of Transportation Monument



The project boundary on these sheets was developed by Harmsen and Associates using public and private data sources that are identified in the metadata provided. All data sources trace their foundation to 1:24,000 mapping. The portions of the project boundary described by metes and bounds have been reviewed by this surveyor for location, orientation, and accuracy within the 1:24,000 map base.

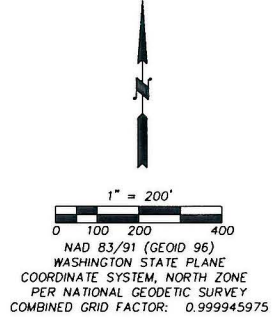
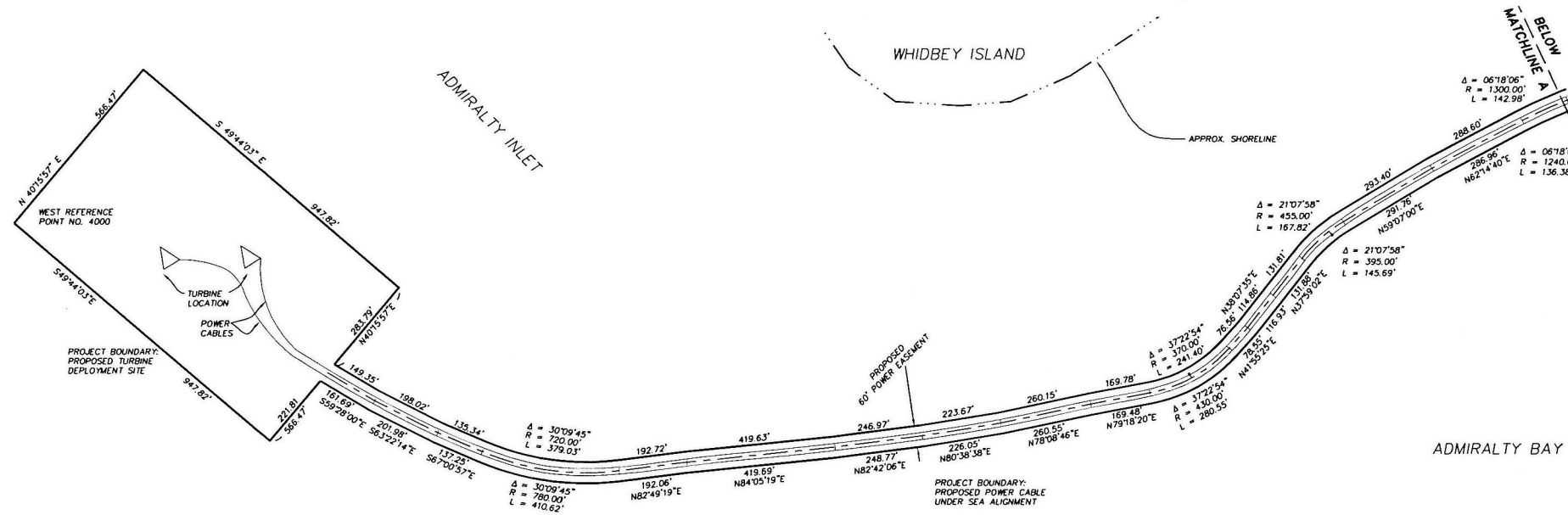
SNOHOMISH COUNTY		WD	DFTR T. L. ROBERTS
PUD		TASK	CHKR J. MCDANIEL, P.L.S.
PUBLIC UTILITY DISTRICT NO. 1		SCALE	ENGR E. SCHNEIDER, P.E.
REV	FERC PROJECT NO.	DATE	SEPTEMBER 2011
	12690	APVD	

ADMIRALTY INLET
HYDROELECTRIC TIDAL PROJECT
AKA
ADMIRALTY INLET FERC NO. 12690
PUBLIC UTILITY DISTRICT NO. 1
OF SNOHOMISH COUNTY, WASHINGTON

OVERALL SITE & CONTROL - PLAN
EXHIBIT: G SHEET: 1

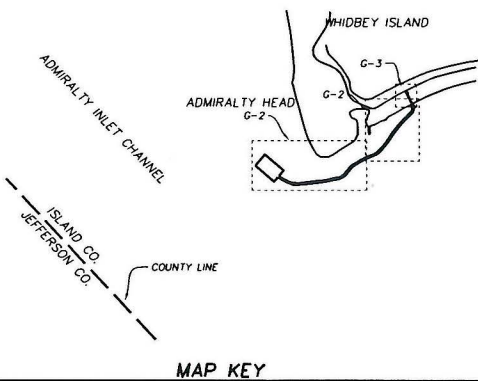
HARMSEN & ASSOCIATES INC
16778 146th St SE, Ste 104, MONROE, WA 98272
(360)794-7811 (206)343-5903

ISLAND COUNTY, WASHINGTON
T 31 N, R 1 E.



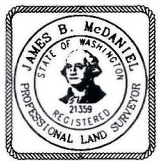
LEGEND

- ⊕ SURVEY MONUMENT
- PROPOSED PROJECT BOUNDARY
- - - PROPOSED POWER CABLE CENTER LINE ALIGNMENT
- Δ PROPOSED TURBINE LOCATIONS
- PROVISIONAL POWER CABLE ROUTING

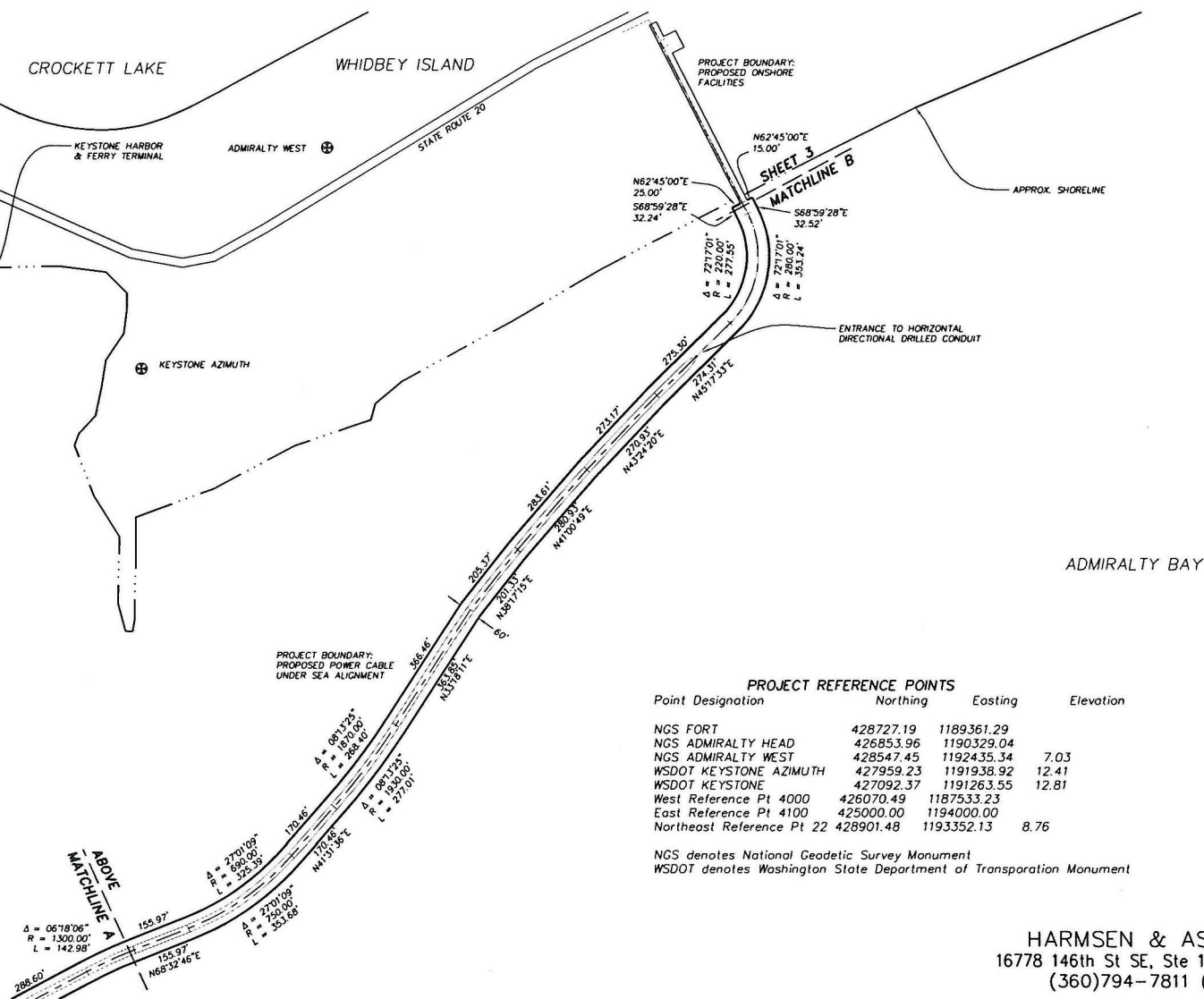


OWNERSHIP NOTES:

- 1) THE SEAWARD AREA OF PROPOSED PROJECT BOUNDARY LIES WITHIN PUGET SOUND AND IS UNDER THE JURISDICTION OF THE STATE OF WASHINGTON, MANAGED BY THE DEPARTMENT OF NATURAL RESOURCES.
 - 2) THE LANDWARD AREA OF THE PROPOSED PROJECT BOUNDARY LIES ENTIRELY WITHIN PROPERTY CURRENTLY OWNED BY:
JESSIE L. VALENTINE
P.O. BOX 488
LANGLEY WA 98260-0488.
- SITE ADDRESS IS:
927 STATE HIGHWAY 20
COUPEVILLE WA 98239.
- ISLAND COUNT ASSESSOR PARCEL NOS. ARE:
56370-00-61001-0 AND 56370-00-62001-0



The project boundary on these sheets was developed by Harmsen and Associates using public and private data sources that are identified in the metadata provided. All data sources trace their foundation to 1:24,000 mapping. The portions of the project boundary described by metes and bounds have been reviewed by this surveyor for location, orientation, and accuracy within the 1:24,000 map base.



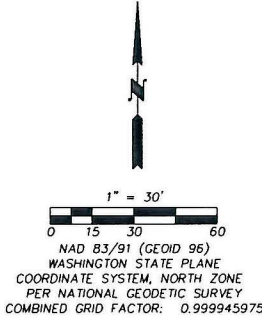
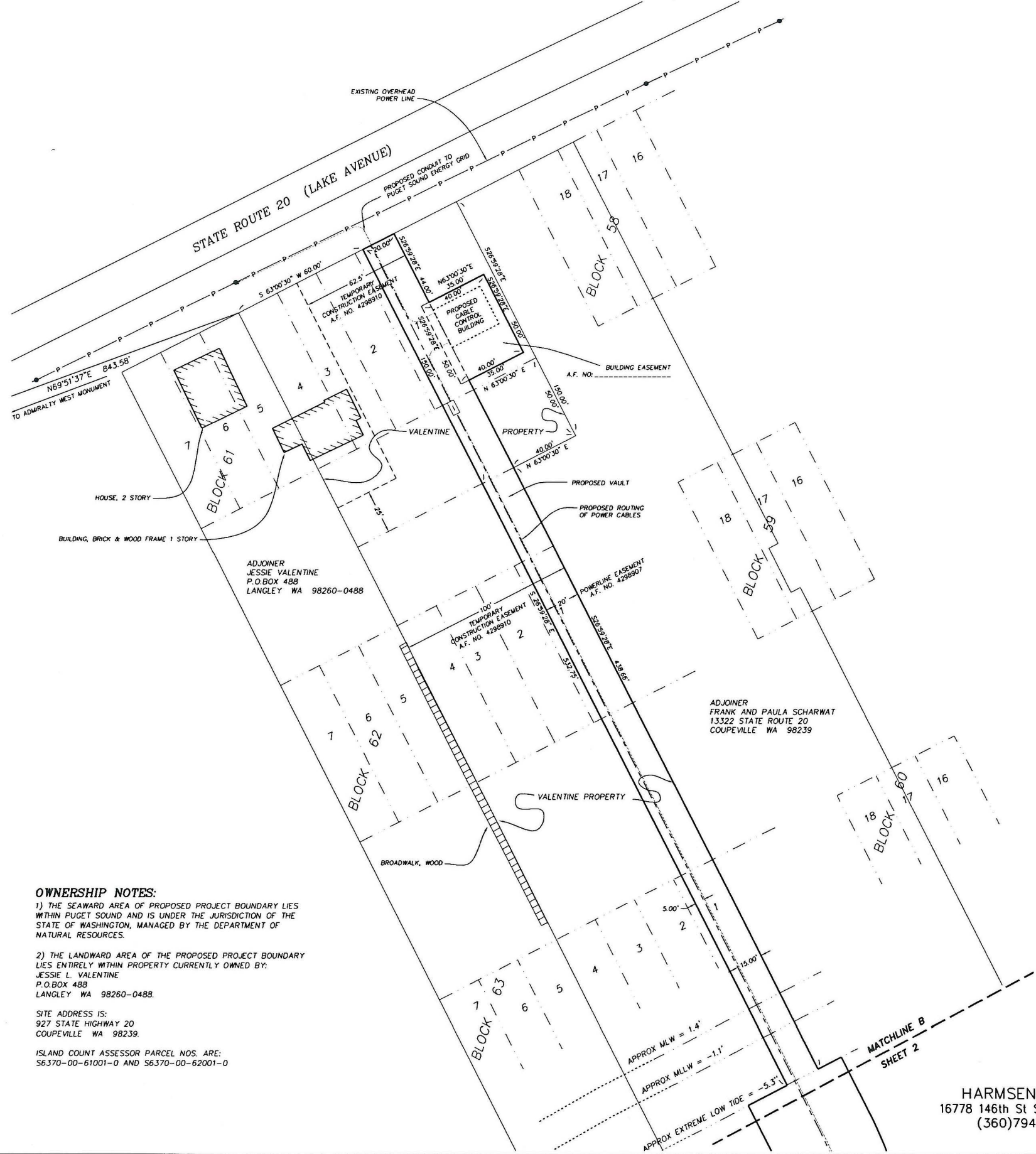
PROJECT REFERENCE POINTS			
Point Designation	Northing	Easting	Elevation
NGS FORT	428727.19	1189361.29	
NGS ADMIRALTY HEAD	426853.96	1190329.04	
NGS ADMIRALTY WEST	428547.45	1192435.34	7.03
WSDOT KEYSTONE AZIMUTH	427959.23	119138.92	12.41
WSDOT KEYSTONE	427092.37	1191263.55	12.81
West Reference Pt 4000	426070.49	1187533.23	
East Reference Pt 4100	425000.00	1194000.00	
Northeast Reference Pt 22	428901.48	1193352.13	8.76

NGS denotes National Geodetic Survey Monument
WSDOT denotes Washington State Department of Transportation Monument

HARMSEN & ASSOCIATES INC
16778 146th St SE, Ste 104, MONROE, WA 98272
(360)794-7811 (206)343-5903

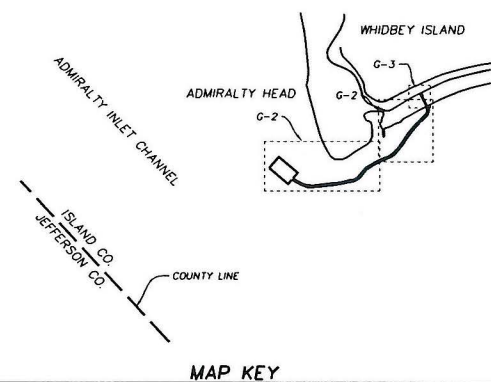
SNOWHOMISH COUNTY		WO	DFTI T. L. ROBERTS
PUD		TASK	CHKR J. MCDANIEL, P.L.S.
PUBLIC UTILITY DISTRICT NO. 1		SCALE	ENGR E. SCHNEIDER, P.E.
REV	FERC PROJECT NO.	DATE	SEPTEMBER 2011
	12690	APVD	
ADMIRALTY INLET HYDROELECTRIC TIDAL PROJECT AKA ADMIRALTY INLET FERC NO. 12690 PUBLIC UTILITY DISTRICT NO. 1 OF SNOWHOMISH COUNTY, WASHINGTON			
PROJECT CORRIDOR			
EXHIBIT: G		SHEET: 2	

ISLAND COUNTY, WASHINGTON
T 31 N, R 1 E.



LEGEND

- PROPOSED BOUNDARY
- - - PROPOSED POWER ALIGNMENT
- ▲ PROPOSED TURBINE
- POWER POLE
- POWER LINE
- PROVISIONAL POWER CABLE ROUTING

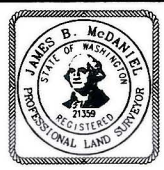


OWNERSHIP NOTES:

- 1) THE SEAWARD AREA OF PROPOSED PROJECT BOUNDARY LIES WITHIN PUGET SOUND AND IS UNDER THE JURISDICTION OF THE STATE OF WASHINGTON, MANAGED BY THE DEPARTMENT OF NATURAL RESOURCES.
- 2) THE LANDWARD AREA OF THE PROPOSED PROJECT BOUNDARY LIES ENTIRELY WITHIN PROPERTY CURRENTLY OWNED BY:
JESSIE L. VALENTINE
P.O. BOX 488
LANGLEY WA 98260-0488.

SITE ADDRESS IS:
927 STATE HIGHWAY 20
COUPEVILLE WA 98239.

ISLAND COUNT ASSESSOR PARCEL NOS. ARE:
56370-00-61001-0 AND 56370-00-62001-0



The project boundary on these sheets was developed by Harmsen and Associates using public and private data sources that are identified in the metadata provided. All data sources trace their foundation to 1:24,000 mapping. The portions of the project boundary described by metes and bounds have been reviewed by this surveyor for location, orientation, and accuracy within the 1:24,000 map base.

HARMSEN & ASSOCIATES INC
16778 146th St SE, Ste 104, MONROE, WA 98272
(360)794-7811 (206)343-5903

SNOWHOMISH COUNTY PUD PUBLIC UTILITY DISTRICT NO. 1		WO	DFTR T. L. ROBERTS
REV		TASK	CHKR J. MCDANIEL, P.L.S.
FERC PROJECT NO. 12690		SCALE	ENGR E. SCHNEIDER, P.E.
		DATE SEPTEMBER 2011	APVD
ADMIRALTY INLET HYDROELECTRIC TIDAL PROJECT AKA ADMIRALTY INLET FERC NO. 12690 PUBLIC UTILITY DISTRICT NO. 1 OF SNOWHOMISH COUNTY, WASHINGTON			
BUILDING SITE DETAIL			
EXHIBIT: G		SHEET: 3	