



Federal Energy Regulatory Commission (FERC)

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, NE, Room 1-A
Washington, D.C. 20426

VIA E-FILING

To: Mr. Bob Easton, Chief
New England Branch
Division of Hydropower Licensing

Tidewalker Associates
Half-Moon Cove Tidal Power Barrage
Project No. P-12704
Preliminary Permit / Awarded on: 03.December.2010

15.January.2011

Tidewalker Associates / P-12704

In accordance with terms of a successive preliminary permit awarded to Tidewalker Associates on 03.December.2010, the following condition was placed on the permittee which is being addressed in this electronic response to FERC:

(D) Within 45 days of the issuance date of the permit, Tidewalker Associates shall file a schedule of activities proposed by the permittee during the three-year permit term, leading to the filing of a development application. At a minimum, this shall include the dates for consulting with federal, state, and local agencies, tribes, NGOs, and other interested entities, and completing necessary studies that demonstrate progress toward filing a license application.

In preparing the schedule, Tidewalker reviewed our application for a successive preliminary permit filed on 12.April.2010 and also reviewed work performed during the first preliminary permit awarded to Tidewalker in April 2007.

In the application for a preliminary permit, Tidewalker included the following schedule as part of our proposal to conduct a detailed feasibility study:

FROM TIDEWALKER PRELIMINARY PERMIT APPLICATION: STUDY PHASE	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12
PUBLIC INTERACTION												
PLANNING												
ENVIRONMENTAL												
ENGINEERING												
ECONOMICS												
REGULATORY CONSULTATION												
LICENSING												
INFRASTRUCTURE DETAILS												
LEGEND:												
NON-FILED WORK												
FIELD WORK												

This schedule is still in effect and has been expanded to reflect more details and to incorporate results of work completed during Tidewalker’s initial preliminary permit.

During the comment period (2009) for a Pre-Application Document (PAD) filed by Tidewalker to FERC on the Half-Moon Cove project, the following series of studies were proposed by Tidewalker to address environmental issues raised by regulators and stakeholders. The following table outlines the types of studies envisioned for the project:

ORDER	TYPE OF STUDY	SUB-SETS
STEP - 1	HYDROLOGICAL MODEL: PHYSICAL	WATER QUANTITY & FLOW / CIRCULATION / TIDE FUNCTION / PRE- & POST-BARRAGE CONDITIONS
STEP - 2	SURVEY	SHORELINE POLLUTION / COMMERCIAL & RECREATIONAL FISHERIES / INTERTIDAL & SUBTIDAL ZONE / LOBSTER / MAMMALS / WATERBIRD & WATERFOWL / FISH / PLANKTON / ARCHAEOLOGICAL / NATIVE PLANT
STEP - 3	CHARACTERIZATION	MODIFIED TIDAL REGIME / DESIGNATED & EXISTING USES / WILDLIFE / INTERTIDAL & SUBTIDAL HABITAT MAPPING / AQUATIC & TERRESTRIAL HABITAT MAPPING / AQUATIC / NUTRIENT / FISH PASSAGE
STEP - 4	HYDROLOGICAL MODEL: OTHER	SHORELINE EROSION / INTERTIDAL / SUB-TIDAL / WATER QUALITY / SEDIMENTATION
STEP - 5	ASSESSMENT	IMPACT ASSESSMENT OF HALF-MOON COVE RESOURCES
OTHER-1	AESTHETIC	NOISE / VISUAL IMPACT / ARCHITECTURAL INTEGRITY
OTHER-2	ARCHAEOLOGICAL	HISTORICAL / TRIBAL / CULTURAL / PAST PRACTICES
OTHER-3	CONSTRUCTION	CAUSEWAY BREACHING / ROADWAY / BARRAGE / FLOAT-IN POWERHOUSE
OTHER-4	ECONOMICS	BENEFIT-COST ANALYSIS
OTHER-5	PASSAGE / ACCESSIBILITY	TURBINE IMPACTS / COMMERCIAL & RECREATIONAL BOATING / BARRAGE / FILLING & EMPTYING GATES
OTHER-6	RECREATION	EXISTING & FUTURE PLANS

The details of the proposed studies will have to be finalized after the submission of an acceptable PAD and in consultation with regulators and stakeholders. Under this scenario, the formulation of a physical model is the first step in establishing a framework for quantifying project impacts.

During the 2009 PAD review, a series of recommendations were made by various stakeholders based on an initial Tidewalker proposal which would have resulted in a 2' – 3' increase in the natural low tide level. The initial proposal did not include the placement of a filling / emptying gate on the Passamaquoddy Bay side of Half-Moon Cove. The mode of operation currently proposed by Tidewalker will have an insignificant effect on the natural tide range and will include gates in an existing causeway to ensure a minimal impact on Half-Moon Cove's tidal range and to allow the re-introduction of Passamaquoddy Bay waters into Half-Moon Cove. The causeway gate will cover the vertical distance from mid-tide to high level in order to minimize impacts on intertidal areas during the construction phase while still providing the ability to attain natural high tide levels in Half-Moon Cove.

Tidewalker assumes that the nature of the studies will be different than originally recommended in 2009 since the tidal range will not be altered in Half-Moon Cove under present plans. As a historical perspective, recommendations were made by stakeholders for studies in the following areas of environmental assessment:

DESCRIPTION	CODE
AESTHETIC STUDY	AES
AQUATIC RESOURCES	AQU
ARCHEOLOGICAL AND HISTORIC RESOURCE SURVEY	ARC
WATERBIRD AND WATERFOWL STUDY	BIRD
CONSTRUCTION RELATED IMPACTS	CON
FISH / FISHERIES IMPACTS	FISH
GENERAL CHARACTERIZATION [OPERATIONAL & MISCELLANEOUS]	GEN
HYDRODYNAMIC MODEL	HYD
INVERTEBRATE COMMUNITY	INVT
MARINE MAMMAL	MAMM
RECREATION STUDY	REC
SUBMERGED AQUATIC VEGETATION AND ALGAE STUDY	SUB
PASSAMAQUODDY TRIBE IMPACTS	TRI
WATER QUANTITY AND FLOW STUDY	WAT#
WATER QUALITY AND MODELING STUDY	WATQ
WILDLIFE	WILD

Recommendations for studies were made by the following groups as identified by a coded legend for subsequent reference:

Organization	Code / Legend
Tidewalker Associates	Tide
Federal Energy Regulatory Commission	FERC
Me. Dept. Marine Resources	DMR
Me. Dept. Inland Fisheries & Wildlife	IFW
Me. Dept. of Environmental Protection	DEP
Passamaquoddy Tribe	PASS
U.S. Department of Interior	DOI
U.S. Natl. Marine Fisheries Service	NMFS
Tribal Historical Preservation Officer	SOCT

The following studies were recommended for the assessment of the project's environmental impacts:

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CODE	DESCRIPTION	SOURCE
ACCS	MORTALITY / INJURY OF TURBINE PASSAGE	DMR
ACCS	EFFECT OF ALTERATION OF ENTRY TO HALF MOON COVE THROUGH THE CONSTRUCTION OF THE PROJECT ON TRIBAL ECONOMICS, RECREATIONAL, AND CULTURAL USE OF HALF-MOON COVE AND ITS CURRENT ACCESS TO COASTAL WATERS	DOI
ACCS	FISH, MARINE MAMMAL AND MACROINVERTEBRATE BEHAVIOR AND POTENTIAL TURBINE ENTRAINMENT	DOI
ACCS	TIDAL ZONE ACCESS	SOCT
AES	AESTHETIC STUDY	FERC
ARCH	EFFECT OF ALTERATION OF THE INTERTIDAL ZONE AND CONSTRUCTION OF THE DAM ACROSS THE ENTRANCE TO HALF-MOON COVE ON THE ECONOMIC AND SOCIAL USES OF THE COVE BY THE PASSAMAQUODDY INDIAN TRIBE	DOI
ARCH	EFFECT OF ALTERATION OF THE INTERTIDAL ZONE AND CONSTRUCTION OF THE DAM ACROSS THE ENTRANCE TO HALF-MOON COVE ON THE TRADITIONAL CULTURAL USES OF THE COVE BY THE PASSAMAQUODDY INDIAN TRIBE	DOI
ARCH	EFFECT OF THE HALF MOON COVE TIDAL PROJECT ON CULTURAL SITES AND ACTIVITIES OF THE PASSAMAQUODDY INDIAN TRIBE	DOI
ARCH	CULTURAL SITES AND ACTIVITIES DISTURBANCE	PASS
ARCH	TRADITIONAL SUBSISTENCE FOOD GATHERING	PASS
ARCH	TRADITIONAL SUBSISTENCE FOOD GATHERING SURVEY	SOCT
ARCH	TRADITIONAL WATERWAY TRAVEL	SOCT
ARCH	ARCHAEOLOGICAL INVESTIGATION OF SITE IDENTIFIED BY MAINE HISTORIC PRESERVATION COMMISSION	TIDE
ASES	BIOLOGICAL AND CHEMICAL WATER QUALITY	DEP
ASES	EFFECT OF ALTERATION OF THE INTERTIDAL ZONE AND SUBMERGED ZONES ON FISH AND MAMMALIAN POPULATIONS WITH SPECIAL EMPHASIS ON THE PASSAMAQUODDY INDIAN TRIBE USE OF THESE RESOURCES	DOI
ASES	EFFECT OF ALTERATION OF THE INTERTIDAL ZONE ON SHELLFISH INDUSTRY AND HARVESTING WITH SPECIAL INTEREST ON THE PASSAMAQUODDY INDIAN TRIBE'S USE OF THESE RESOURCES	DOI
ASES	EFFECT OF THE ALTERATION OF THE INTERTIDAL ZONE ON MIGRATORY AND RESIDENT SHOREBIRDS WITH SPECIAL EMPHASIS ON THE PASSAMAQUODDY INDIAN TRIBE USE OF THESE RESOURCES	DOI
ASES	EFFECT OF ALTERATION OF THE INTERTIDAL AND SUBMERGED ZONES ON FLORA AND FAUNA OF HALF MOON COVE WITH SPECIAL EMPHASIS ON THE PASSAMAQUODDY INDIAN TRIBE USE OF THESE RESOURCES	DOI
ASES	FISH AND WILDLIFE HABITAT EVALUATION ASSESSMENT	DOI
ASES	SUBMERGED AQUATIC VEGETATION AND ALGAE STUDY	FERC
ASES	DOI (V): EFFECT OF ALTERATION OF THE INTERTIDAL ZONE ON MIGRATORY AND RESIDENT SHOREBIRDS	IFW
ASES	EVALUATION OF PROJECT OPERATION PLANS	NMFS
ASES	ASSESSMENT OF WATER QUALITY IMPACTS	NMFS
ASES	EVALUATING POTENTIAL FOR EROSION OF SUBSTRATE AT POWERHOUSE	NMFS
ASES	EVALUATION OF THE INVERTEBRATE COMMUNITY	NMFS
ASES	HABITAT ASSESSMENT WITHIN HALF MOON COVE	NMFS
ASES	MITIGATIVE BENEFITS OF BREACHING CAUSEWAY TO PASSAMAQUODDY BAY BOTH IN TERMS OF RESOURCE AND ENGINEERING VALUES	TIDE
ASES	CONFIRMATION ON POTENTIAL IMPACTS ON RARE, THREATENED, AND ENDANGERED SPECIES	TIDE

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<i>[CONTINUATION OF PROPOSED STUDIES]</i>		
CODE	DESCRIPTION	SOURCE
CFR	IMMEDIATE INITIATION OF DISCUSSIONS WITH REPRESENTATIVES OF THE PASSAMAQUODDY TRIBE	TIDE
CHAR	DESIGNATED AND EXISTING USES	DEP
CHAR	WILDLIFE RESOURCES	DEP
CHAR	MAPPING OF INTERTIDAL AND SUBTIDAL HABITAT	DMR
CHAR	AQUATIC AND TERRESTRIAL HABITAT AND LAND USE MAPPING	DOI
CHAR	AQUATIC RESOURCES	FERC
CHAR	RESIDENT TIME OF NUTRIENTS	NMFS
CHAR	FISH PASSAGE FOR RESIDENT AND MIGRATORY SPECIES	NMFS
CHAR	INFORMATION GATHERING AND ASSESSMENT OF IMPACTS ASSOCIATED WITH A MODIFIED TIDAL FLOW REGIME	TIDE
CONS	BREACHING OF CAUSEWAY AND INSTALLING GATES	DEP
CONS	CONSTRUCTION OF ROADWAY ACROSS DAM	DEP
CONS	EVALUATE CONSTRUCTION RELATED IMPACTS	NMFS
CONS	RELATIVE IMPACTS ASSOCIATED WITH ROCKFILL DAM VERSUS TIDAL METHOD OF CONSTRUCTION	TIDE
ECON	PROJECT ECONOMICS AND FINANCIAL CAPABILITY	DEP
ECON	REGULATORY REVIEW ON IMPACTS ON RIPARIAN RIGHTS	TIDE
HYD	HYDRODYNAMIC MODEL OF HALF MOON COVE	DOI
HYD	EFFECT OF ALTERATION OF THE INTERTIDAL ZONE ON THE PHYSICAL AND CHEMICAL CHARACTERISTICS OF HALF MOON COVE	DOI
HYD	EFFECT OF THE ALTERATION OF THE INTERTIDAL ZONE AND CONSTRUCTION OF THE DAM ACROSS THE ENTRANCE TO HALF MOON COVE ON SHORELINE EROSION OF HALF MOON COVE	DOI
HYD	EFFECT OF ALTERATION OF THE INTERTIDAL AND SUBMERGED ZONES AND CONSTRUCTION OF THE DAM ACROSS THE ENTRANCE TO HALF MOON COVE ON THE BENTHIC FAUNA OF HALF MOON COVE	DOI
HYD	WATER QUANTITY AND FLOW STUDY	FERC
HYD	WATER QUALITY AND MODELING STUDY	FERC
HYD	ESTIMATE CHANGES IN TIDE DURATION CURVE	NMFS
HYD	IMPACTS ON WATER CIRCULATION	NMFS
HYD	HALF MOON COVE SEDIMENT BUILD-UP	PASS
REC	RECREATION STUDY	FERC
SURV	SURVEY OF COMMERCIAL AND RECREATIONAL FISHERIES	DMR
SURV	SURVEY OF INVERTEBRATES IN THE INTERTIDAL AND SUBTIDAL ZONE	DMR
SURV	SURVEY OF LOBSTER RESOURCES AND HARVEST	DMR
SURV	SURVEY OF MARINE MAMMALS IN THE STUDY AREA	DMR
SURV	SURVEY OF PHYTOPLANKTON, ZOOPLANKTON, AND ICHTHYOPLANKTON	DMR
SURV	SHORELINE POLLUTION SURVEY	DOI
SURV	FISH SURVEY IN THE INTERTIDAL AND SUBTIDAL ZONE	DOI
SURV	WATERFOWL, WADING BIRD, SHOREBIRD AND SEABIRD SURVEY IN THE INTERTIDAL AND SUBTIDAL ZONE	DOI
SURV	ARCHEOLOGICAL AND HISTORIC RESOURCE SURVEY	FERC
SURV	IDENTIFY HABITATS AFFECTED BY ALTERED TIDE REGIME	NMFS
SURV	NATIVE PLANT FAUNAL SURVEY	SOCT

During the period of the preliminary permit, Tidewalker is committed to the consideration of these proposed studies in accordance with our position taken in October 2009 and November 2009. A more detailed schedule appears below:

STUDY PHASE	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12
PUBLIC INTERACTION												
LOCAL GOVERNMENTS		■	■			■	■			■	■	
TRIBAL COORDINATION	■	■			■	■			■	■		
REGIONAL STAKEHOLDERS			■	■			■	■			■	■
PLANNING												
ORGANIZATIONAL STRUCTURE	■											
TIDEWALKER COORDINATION	■	■										
ENVIRONMENTAL												
HISTORICAL REVIEW		■	■									
LITERATURE RESEARCH		■	■									
SCIENTIFIC ASSESSMENT							■	■	■	■	■	■
ENGINEERING												
MODE QUANTIFICATION	■	■					■					
TURBINE SPECIFICATION		■	■									
BARRAGE / GATE DESIGN		■	■									
ECONOMICS												
COST ESTIMATES			■	■								
POWER PURCHASE AGREEMENTS			■	■							■	
USE OF ENERGY				■							■	
REGULATORY CONSULTATION												
INITIAL	■											
PAD						■	■					
PROJECT STUDIES						■	■				■	■
LICENSING												
PAD SUBMISSION				■								
STUDY COORDINATION											■	■
INFRASTRUCTURE DETAILS												
TIDEWALKER STRUCTURE			■	■								
DEVELOPMENT ORGANIZATION				■					■	■		

Tidewalker has included consultation with regulators and stakeholders starting with public interaction and continuing with regulatory consultation. Tidewalker is familiar with local issues and regional economic development objectives as a result of work performed during our initial preliminary permit and as a consequence of our residence in the project area (Trescott / Eastport). For the

above schedule, Quarter No. 1 refers to December (2010), January (2011), and February (2011). As a result of our previous experience on project development with the Half-Moon Cove site, Tidewalker will start work during the first quarter in drafting a pre-application document in compliance with FERC standards.

Submitted by:



Normand Laberge, President

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Trescott, Maine 04652

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CERTIFICATE OF SERVICE

I hereby certify that I will, within the timeframe and means established in 18 § C.F.R. 385.2010, serve the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding.

DATED this 16th day of January 2011

Signed by:



Normand Laberge, President

Tidewalker Associates
46 Place Cove Road
Trescott, Maine 04652

List of Addresses (official service list):

Governor Reuben Cleaves
Passamaquoddy Tribe
Pleasant Point Reservation
Perry, Maine 04667

Department of the Interior
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Room 2340 MIB
1849 C Street, NW
Washington, DC 20240

U.S. Army Corps of Engineers
North Atlantic Division
302 General Lee Avenue
Fort Hamilton, NY 11252

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Director
Bureau of Land Management
Office of Lands
Attn: FERC Withdrawal Recordation
7450 Boston Blvd.
Springfield, VA 22153

U.S. Coast Guard
Attention: Mr. George H. Detweiler, Jr.
CG-54133/Room 1407
2100 2nd Street, SW
Washington, DC 20593

NOAA Fisheries Service
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Note: Copies of this Schedule also sent electronically to interested parties on
Tidewalker's address list