

**Energy and Mines**  
**Office of the Minister**



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September 14, 2018

Tanya Harrietha  
Black Rock Tidal Power Inc.  
115-200 Waterfront Drive  
Bedford, NS B4A 4J4

**Re: Marine Renewable-energy Permit – Black Rock Tidal Power Inc.**

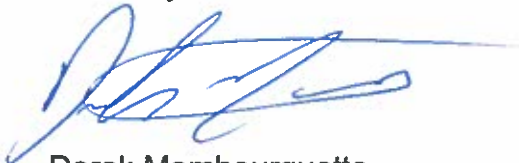
Dear Ms. Harrietha:

This is to advise that I have approved Black Rock Tidal Power Inc.'s application for a permit in accordance with sections 35(5) and 36(1) (a) of the *Marine Renewable-energy Act*. I am pleased to present you with a marine renewable-energy permit for your two-hundred and eighty (280) kilowatt (kW) in-stream tidal energy generator to be deployed in Grand Passage, Nova Scotia (Permit Number 2018-004).

The Department of Energy and Mines has prescribed a number of terms and conditions associated with your approval that must be satisfied. Failure to do so may result in revocation of your permit.

If you have any questions regarding the approval, or if we can be of further assistance to you, please contact the Program Administrator at (902) 424-7090 or via email at [marinerenewables@novascotia.ca](mailto:marinerenewables@novascotia.ca).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Derek Mombourquette'.

Derek Mombourquette  
Minister



## MARINE RENEWABLE-ELECTRICITY PERMIT

Province of Nova Scotia

*Marine Renewable-energy Act*

PERMIT HOLDER: Black Rock Tidal Power Inc.

PERMIT NUMBER: 2018-004

EFFECTIVE DATE: September 14, 2018

EXPIRY DATE: March 14, 2019

Pursuant to section 38 of the *Marine Renewable-energy Act* a Permit granted to the Permit Holder is subject to the Terms and Conditions attached to and forming part of this Permit, for the following activity:

Construction, installation, operation and decommissioning of an unconnected generator with an aggregate nameplate capacity of two-hundred and eighty (280) kilowatts at Black Rock Tidal Power Inc. Permit Area within the Fundy Area of Marine Renewable-electricity Priority.

Derek Mombourquette  
Minister

September 14, 2018

Date Signed



## MARINE RENEWABLE-ELECTRICITY PERMIT

Province of Nova Scotia

*Marine Renewable-energy Act*

PERMIT HOLDER:	<u>Black Rock Tidal Power Inc.</u>
PERMIT TYPE:	<u>Unconnected Generator</u>
PERMIT NUMBER:	<u>2018-004</u>
EFFECTIVE DATE:	<u>September 14, 2018</u>
EXPIRY DATE:	<u>March 14, 2019</u>

### Terms and Conditions of Permit Approval

This approval is subject to the following conditions and obtaining all other necessary approvals, permits or authorizations required by municipal, provincial and federal acts, regulations and by-laws before constructing, installing, operating and decommissioning any device in the Black Rock Tidal Power Inc. Permit Area.

The following schedules are attached to and form part of this Permit:

- Schedule "A" Survey of Black Rock Tidal Power Inc. Permit Area;
- Schedule "B" The Project Description submitted by Black Rock Tidal Power Inc. in their Application Document;

## Definitions:

"Application Document" means the complete marine renewable-energy permit application submitted by the Permit Holder to the Nova Scotia Department of Energy and Mines on July 6, 2018;

"Black Rock Tidal Permit Inc. Permit Area or Permit Area" means the area of submerged land for which the specific location has been determined by survey by the Permit Holder as described in the Application Document, and is contained in Schedule "A" of this Permit;

"Decommissioning, Abandonment and Rehabilitation Plan" means the decommissioning, abandonment and rehabilitation plan required by subsection 44(2) of the *Marine Renewable-energy Act* and provided to the Minister in accordance with sections 19 and 20 of the *Marine Renewable-energy General Regulations*;

"Deployment" means the placement of a device or associated equipment in position ready for use;

"Device(s)" means a tidal in-stream energy conversion device that is intended to generate electricity from in-stream tidal energy;

"Effective Date" means the date that this Permit is effective, as noted at the head of this document;

"Fee Regulations" means the *Marine Renewable-energy Fees Regulations*;

"Minister" means the Minister of Energy and Mines for the Province of Nova Scotia;

"MReA" means the *Marine Renewable-energy Act*;

"Permit Holder" means Black Rock Tidal Power Inc.;

"Program Administrator" means a representative of the Nova Scotia Department of Energy and Mines who has been assigned to receive information on the Department's behalf with respect to this Permit;

"Prototype Assembly" means the generator(s) described in the Project Description, together with all protective and other associated equipment and improvements as may be modified from time to time pursuant to the terms of this Permit;

"Regulations" means the *Marine Renewable-energy General Regulations*;

"Regional Biologist" means a representative of the Nova Scotia Department of Lands and Forestry who has been assigned to receive information on the Department's behalf with respect to reporting required under Article 5.7 of this Permit;

"Risk Management Plan" means written plan prepared in accordance with section 18 of the *Marine Renewable-energy General Regulations* for identifying, assessing, managing and mitigating risks associated with actions to be carried on under a permit;

"Socio-economic Matters" include, but are not limited to, issues relating to employment, job-creation, and community relations;

"Project Description" means the description contained in Schedule "B" of this Permit;

## **1.0 Scope of Approval**

- 1.1 The Permit approval for the project is limited to the project as described in the Application Document and Schedule "B" of this Permit.
- 1.2 The Permit approval for the project is limited to the technology as described in the Application Document and Schedule "B" of this Permit.
- 1.3 The Black Rock Tidal Power Inc. Permit Area is 5.94 hectares and is described in the Application Document and Schedule "A" of this Permit.
- 1.4 Nothing contained in this Permit shall remove any process, requirement, or obligation on the Permit Holder to comply with the MReA, the Regulations and the Fees Regulations.
- 1.5 In the event of a conflict between the terms and conditions of this Permit and the MReA, Regulations, or Fee Regulations (collectively referred to as the "MReA regime"), the MReA regime shall prevail.

## **2.0 General Terms and Conditions**

- 2.1 Subject to consultation and any other requirements, the Minister may, upon receiving an application from the Permit Holder, extend this Permit for one or more terms, as long as the aggregate of the initial term of the Permit and any extensions of the Permit not exceed ten (10) years pursuant to Section 11 of the Regulations.
- 2.2 If the Minister determines that there has been non-compliance with any or all terms and conditions in this Permit, or the MReA regime, the Minister may suspend or revoke the Permit pursuant to Sections 48 of the MReA.
- 2.3 Despite an expiry, suspension, or revocation of this Permit, the Permit Holder remains subject to the penalty provisions and any continuing obligations as stated in the MReA and Regulations.
- 2.4 The Permit Holder shall ensure that this Permit, or a copy, is kept at the Nova Scotia offices of the Permit Holder at all times and that personnel directly involved in the maintenance and operation of the cables and associated equipment are made fully aware of the terms and conditions pertaining to this Permit and the MReA regime.

### **3.0 Rent Payments**

- 3.1 The Permit Holder shall pay the first annual rent payment of \$721.00, prior to Deployment, and \$481.00 on or before January 31, 2019. The rent payment is calculated on the basis of a calendar year and is equal to \$48.08 for every week of the Permit.
- 3.2 Rent payments shall be made payable to the Minister of Finance and are non-refundable.
- 3.3 If rent is not paid on or before the deadline for payment, the Permit Holder shall pay an additional late fee in an amount equivalent to 10% of the amount that was not paid on or before the deadline.
- 3.4 The Permit Holder shall notify the Minister in writing if they believe their rental fees are changing and submit to the Minister updated project information sixty (60) calendar days before the next year's rent payment is due.

### **4.0 Operating and Decommissioning**

- 4.1 This Permit is valid for a term of six (6) months from the Effective Date of this Permit, as noted at the head of this document.
- 4.2 The Permit Holder must submit a decommissioning, abandonment and rehabilitation plan to the Minister for approval prior to constructing or installing a generator, cable or other equipment or structure in the Black Rock Tidal Power Inc. Permit Area.

## **5.0 Environmental Monitoring Plan**

- 5.1 The Permit Holder shall not install any generator, including any cable or any other equipment or structure owned by the Permit Holder and used or intended to be used with the generator, before submitting an Environmental Monitoring Plan (EMP) to the Minister for approval prior to Deployment.
- 5.2 The EMP shall contain all the information listed in section 16 of the Regulations.
- 5.3 The Permit Holder shall update and revise the EMP as required by the Minister throughout the term of this Permit.
- 5.4 The Permit Holder shall comply with the approved EMP.
- 5.5 The Permit Holder shall submit an initial status report on environmental monitoring equipment functionality to the Program Administrator prior to turbine operation.
- 5.6 Environmental effects monitoring reports shall be submitted in writing to the Minister at a schedule to be determined by the Nova Scotia Department of Energy and Mines following the receipt of all other necessary environmental approvals.
- 5.7 The Permit Holder shall notify the Program Administrator, the Regional Biologist and the Department of Fisheries and Oceans Canada at 1-800-565-1633, within twenty-four (24) hours upon knowledge of any and all injury or mortality to marine mammals, fish, marine invertebrates, and marine birds throughout the term of this Permit.

## **6.0 Engagement Requirements**

- 6.1 Prior to Deployment the Permit Holder must submit to the Minister for approval, an engagement plan outlining ongoing and proposed engagement and discussion activities with the Mi'kmaq of Nova Scotia, which are to include dissemination of the results of environmental monitoring activities. The plan shall include a description and general schedule for these activities. The plan must be updated and resubmitted annually to the Minister for approval on or before January 31<sup>st</sup> throughout the term of this Permit.
- 6.2 Prior to Deployment the Permit Holder must submit to the Minister for approval, a stakeholder communication and engagement plan outlining ongoing and proposed engagement and discussion activities, including dissemination of the results of environmental monitoring activities. The plan shall include a description and general schedule for these activities. The plan must be updated and resubmitted annually to the Minister for approval on or before January 31<sup>st</sup>, throughout the term of this Permit.
- 6.3 The Permit Holder shall support the Province of Nova Scotia in its future and ongoing consultation processes with the Mi'kmaq of Nova Scotia, share information, the Minister considers necessary or advisable, with the Mi'kmaq of Nova Scotia, and consider implementing mitigation and accommodation measures to address any issues raised through consultation.

## **7.0 Reporting Requirements**

- 7.1 The Permit Holder shall notify the Program Administrator prior to the Deployment or testing of Device(s) or equipment related to the project.
- 7.2 The Permit Holder shall submit a written report to the Minister 30 days following Deployment detailing the following:
  - a. A detailed and up-to-date project schedule;
  - b. A summary of any entities procured for goods/services;
  - c. Actual financial statements related to procurement, construction, operations, and monitoring activities;
  - d. Data relating to socio-economic matters; and
  - e. Any changes in the corporate governance structure of the Permit Holder.



- 7.3 The Permit Holder must notify the Program Administrator within ten (10) business days upon reaching the following milestone(s):
- a. Receipt of any federal, provincial, or municipal regulatory approvals;
  - b. Approval of additional funding or grants;
  - c. Issuance of any manufacturing or fabrication contracts;
  - d. Installation of a generator and any cable or other equipment or structure used or intended to be used with a generator;
  - e. Commencement of decommissioning activities; and
  - f. Completion of decommissioning and rehabilitation activities
- 7.4 The Permit Holder shall notify the Program Administrator at least one (1) day prior to any press release related to the activities authorized under the Permit.
- 7.5 The Permit Holder shall provide baseline, tidal resource and environmental monitoring data acquired, developed, or created during the term of this Permit to the Nova Scotia Department of Energy and Mines upon request by the Minister.
- 7.6 The Permit Holder shall submit a written report to the Program Administrator thirty (30) days prior to the conclusion of the Permit term, summarizing the activities authorized under the Permit, if project objectives were met and any successes or lessons learned.
- 7.7 The Nova Scotia Department of Energy and Mines may disclosure data received pursuant to this Permit in accordance with the MReA and Regulations.

## **8.0 Records Management**

- 8.1 The record of data relating to the activities authorized under this Permit, including all books, records, accounts, documents and information related to those activities, must be accessible from an office located in the Province in accordance with section 27 of the Regulations.
- 8.2 The Permit Holder shall ensure that the books, records, accounts, documents and information remain accessible until at least five (5) years after the date the permit expires in accordance with section 29 of the Regulations.

## **9.0 Incident Reporting**

- 9.1 The Permit Holder shall notify the Program Administrator of any incident or near-miss, including information relating to the incident or near-miss, as soon as reasonably practicable but no later than twenty-four (24) hours after the incident or near-miss occurred.
- 9.2 The Permit Holder shall notify the Program Administrator within twenty-four (24) hours in advance of any press release or press-conference related to an incident or near-miss.
- 9.3 The Permit Holder shall ensure that:
  - a. Any incident or near-miss is investigated, its root cause and causal factors identified where possible corrective action taken where applicable; and
  - b. Any incident or near-miss is investigated, its root cause, causal factors and corrective action taken must be submitted in writing to the Program Administrator no later than thirty (30) days after the day on which the incident or near-miss occurred.

#### **10.0 Risk Management Plan**

- 10.1 The Permit Holder's Risk Management Plan filed as part of the Application Document, shall be updated and resubmitted prior to turbine operation and then annually by the Permit Holder to the Minister on or before January 31, throughout the term of the Permit.
- 10.2 The Risk Management Plan shall contain all the information listed in section 18 of the Regulations.

#### **11.0 Decommissioning, Abandonment and Rehabilitation Plan**

- 11.1 The Permit Holder shall not construct or install a generator, cable or other equipment or structure in the Black Rock Tidal Inc. Permit Area until the Minister has approved the Decommissioning, Abandonment and Rehabilitation Plan for the Permit Area. The Decommissioning, Abandonment and Rehabilitation Plan shall be submitted in writing to the Minister for approval prior to Deployment.
- 11.2 The Decommissioning, Abandonment and Rehabilitation Plan shall contain the estimated costs of all decommissioning activities on a third party basis, in addition to all the information listed in section 20 of the Regulations.

- 11.3 The Permit Holder must update and revise the Decommissioning, Abandonment and Rehabilitation Plan as required by the Minister throughout the life of the project. The Permit Holder must update and revise the plan if its becomes aware of anything that would materially increase the cost of any part of the plan. Any amendment shall be submitted to the Minister in accordance with section 22 of the Regulations.
- 11.4 The Permit Holder shall comply with the prescribed steps to decommission and rehabilitate the Black Rock Tidal Power Inc. Permit Area, as set out in section 21 of the Regulations.

## **12.0 Financial Security and Insurance**

- 12.1 The Permit Holder shall provide proof of liability insurance to the Minister for approval prior to the commencement of any activities authorized under the Permit.
- 12.2 The Permit Holder shall maintain its insurance coverage in full force and effect for the term of the Permit. At a minimum, the Permit Holder shall maintain environmental impairment liability insurance, commercial general liability insurance and marine insurance coverage on any vessel employed during construction and Deployment of equipment in the Permit Area. Otherwise, the insurance shall be in a form and on terms and conditions acceptable to the Minister.
- 12.3 The Permit Holder shall ensure financial security is provided prior to the commencement of any activities authorized under the Permit on terms and conditions acceptable to the Minister. Financial security shall be in an amount to ensure decommissioning of the project based on the estimated cost of all decommissioning activities described in the approved Decommissioning, Abandonment and Rehabilitation Plan. If the estimated costs of the plan increase, when the Permit Holder updates the plan pursuant to 11.3, it shall also increase the amount of any financial security to reflect such increase in estimated costs immediately.
- 12.4 The Permit Holder shall ensure that any security provided prior to the commencement of any construction, installation, operation and decommissioning of the activities approved under the Permit are kept in effect throughout the Permit term.

- 12.5 The Minister may determine the form in which financial security is provided, including any of the following forms:
- a. Electronic transfer, cash deposit, or cheques made payable to the Minister of Finance, which the Province in its absolute discretion may cash at any time;
  - b. Government guaranteed bonds, debentures, term deposits, certificates of deposit, trust certificates or investment certificates assigned to the Minister of Finance; or
  - c. Irrevocable letters of credit, irrevocable letters of guarantee, performance bonds or surety bonds in a form acceptable to the Minister.
- 12.6 If a cash deposit is made, or a cheque is provided and is cashed, any unused amount shall be returned to the Permit Holder, without interest. Any and all interest earned accrues to the Province.
- 12.7 The Minister may use the financial security provided by the Permit Holder to remedy or cure any material default of MeRA, the regulations or the terms and conditions of this permit.

### **13.0 Notice to Minister and Program Administrator**

- 13.1 Notice, documents and other information required to be sent to the Minister of the Nova Scotia Department of Energy and Mines, shall be in writing and may be served by personal service or fax, addressed as follows:

Attention: Minister of Energy and Mines

Nova Scotia Department of Energy and Mines  
Joseph Howe Building  
1690 Hollis Street  
Po Box 2664  
Halifax, NS B3J 3J9

Phone: (902) 424-4575

Fax: (902) 424-0528

- 13.2 Notice and/or information required to be sent to the Program Administrator shall be in writing and sent via email to: [marinerenewables@novascotia.ca](mailto:marinerenewables@novascotia.ca).

### **14.0 Notice to the Regional Biologist**

- 14.1 Notice required to be sent to the Regional Biologist, shall be in writing and sent via email to [Duncan.Bayne@novascotia.ca](mailto:Duncan.Bayne@novascotia.ca).

**15.0 Standards**

- 15.1 The Permit Holder must comply with industry standards for marine renewable energy conversion systems as they exist at the time of the issuance of this Permit and as amended, including but not limited to the International Electrotechnical Commission (IEC) Technical Committee (TC) 114.

[illegible]

The Black Rock Tidal Power Inc. Permit Area, depicted above as "Grand Passage Area #3", contains an area of 5.94 hectares.



## TITLE

# B RTP Grand Passage MRE Permit

## 12.0 SUPPORTING INFORMATION

### 12.1 INTRODUCTION

Black Rock Tidal Power Inc. (B RTP), and its partners SCHOTTEL Hydro, Sustainable Marine Energy (SME) and Sustainable Oceans Applied Research (SOAR), wish to conduct an off-grid demonstration of the 280kW PLAT-I tidal energy platform at Grand Passage, located between communities of Westport and Freeport in Digby County, Nova Scotia. The proposed demonstration will be the first North American application of the technology. PLAT-I had a successful inaugural deployment in Connel, Scotland throughout late 2017 and the first half of 2018. For the proposed project, this prototype will be brought to Nova Scotia, assembled, and transported by sea to Grand Passage where it will undergo testing according to a pre-determined schedule for a period of a minimum of three months beginning in late Summer and into Fall 2018.

The Grand Passage location has the great advantage of having strong tidal currents and shelter from open ocean waves but also allowing easy access to the platform. The water clarity and visibility at Grand Passage is also good. These site characteristics create the ideal test location for technology development and proving while also affording an opportunity for key stakeholders to observe and visit the platform. In addition to assessing and proving the engineering performance of the system, the deployment will also provide ample opportunity to conduct environmental monitoring to detect marine life such as fish and marine mammals and assess any interactions they may have with the platform. Through this project B RTP and its partners intend to continue progressive development of community and utility-scale floating tidal energy devices that can be installed in rivers and tidal currents around the world to provide clean, renewable electricity for remote communities, industrial facilities, and utilities.

### 12.2 PROJECT PARTNERS

This project brings together a number of leading companies and entities in the tidal energy sector in Canada and internationally:

**Black Rock Tidal Power**, based in Halifax, Nova Scotia, is a tidal energy project developer which employs a group of highly skilled professionals with extensive relevant experience to execute a tidal project. B RTP has built up a significant knowledge with respect to supply chain for platform and component fabrication worldwide and in Atlantic Canada. B RTP is the proponent for the proposed project at Grand Passage.

**SCHOTTEL Hydro** manufactures the SCHOTTEL Instream Turbine (SIT) which is used in all SME projects to generate clean energy from tidal and river currents. The SIT features a modular system including a passive-adaptive fixed pitch rotor, a high power-weight ratio drivetrain and a power conversion system on board. Rotor blades are available as 4m and 6.3m diameter, depending on the flow velocity at the chosen deployment site.

SCHOTTEL HYDRO is located in Spay, Germany, along with the headquarters of its parent company SCHOTTEL GmbH.

**Sustainable Marine Energy**, based in Edinburgh, Scotland, is a renewable energy company specialising in providing integrated tidal energy solutions for the generation of clean energy from tidal and river currents. SME understands the challenges faced by the offshore renewable energy sector and works to ensure that low cost installation and maintenance operations can be achieved throughout all stages of the project life cycle. SME supplies integrated tidal energy systems on an EPIC (Engineering, Procurement, Installation, Commissioning) basis, whilst also entering into long term contracts for the operation and maintenance of the equipment it installs on behalf of clients. SME does this with the backing of industrial partner and shareholder SCHOTTEL HYDRO, who are also the supplier of the tidal turbine equipment.

**Sustainable Oceans Applied Research (SOAR)** is a federally registered not-for profit organization with a base of operations in Freeport (Nova Scotia), and an immediate focus to help evaluate the potential for community-scale tidal power systems to supply sustainable energy to rural coastal communities. SOAR is assisting with access to the test site in Grand Passage, including contribution of local knowledge, relationships, services, and additional assets to the project. This helps to enable the opportunity for BRTP to follow a step-wise approach to development in Nova Scotia, including the ability to conduct effective environmental monitoring in a highly visible and easily accessible location, which is ideal for cost-effective technology development and research activities. SOAR also brings academic partners, such as Acadia and Dalhousie Universities alongside the project.

### 12.3 PROJECT OVERVIEW

The proposed project will entail a temporary, non-grid connected deployment of the PLAT-I floating tidal energy converter in Grand Passage for a period of a minimum of three months. The objective of the project is to conduct a test program to demonstrate and prove PLAT-I performance in Nova Scotian tidal conditions. A second objective is to trial a variety of environmental monitoring technologies and techniques to investigate interactions between PLAT-I and marine life. The project will also contribute to the development of local and regional capacity with regard to development and operation of tidal energy projects.

The proposed deployment is a crucial 'stepping stone' for future commercial projects in Nova Scotia, including at the FORCE test site, and beyond. This project will seek to address key technical and environmental challenges and to establish a track record of successful operation in Canada – this will provide a level of comfort around the technology for Federal and Provincial regulators and the broader stakeholder network prior to installation of larger projects. This project aligns well with Nova Scotia's plans for tidal energy. In early 2018, the Province enacted the Marine Renewable Energy Act, which created a permitting system to allow tidal energy devices to be demonstrated in the Bay of Fundy. BRTP is following this process to demonstrate the PLAT-I technology while respecting local needs and environmental considerations. Throughout the project BRTP will maintain its Halifax-based team and augment that team with field technicians who will be stationed at Grand Passage to operate, monitor and maintain the platform.

### 12.4 TECHNOLOGY OVERVIEW AND PROPOSED LOCATION

The 280kW PLAT-I platform is 32 metres long, with a beam (width) of 27 metres, and hosts four SCHOTTEL HYDRO SIT250 turbines equipped with 6.3m diameter rotors. The platform's modular design can be broken down for shipping and assembly close to site, the shallow draft configuration also permits launch and tow out with limited port infrastructure. A mooring turret located near the bow of the platform allows the system to rotate 360 degrees with the natural variation of the tidal current and passively align with the flow. The turbines have been configured for maximum power extraction in shallow water channels and have a swing-up mechanism that allows easy access for maintenance. A detailed General Arrangement of the system is provided in the figure below.





PLAT-I's interaction with the environment is one of the critical aspects of the system's performance, making the Environmental Effects Monitoring Program (EEMP) a fundamental part of BRTP's project. The clear water and accessible nature of the site at Grand Passage present ideal conditions to conduct environmental monitoring. The fact that PLAT-I is a floating platform and cameras and sensors can be relatively easily accessed is a great advantage in developing effective environmental monitoring systems. To this end, BRTP will be working with universities, regulators, the wider industry and stakeholders to develop a robust environmental monitoring program to contribute to the understanding of the impacts of tidal energy in Nova Scotian conditions.

The table below briefly lists the key environmental receptors and the monitoring objectives for each. The table also lists the proposed methodologies for detecting and assessing any interactions of marine life with the platform. A detailed EEMP is in the process of being developed for the testing and operation of sensors, systems and methods for collecting this data. The results of this work will be openly provided to regulators, indigenous groups, fishers, and the public.

Receptor	Objectives	Methods
Seabirds	Assess seabird interactions	Visual observation of the device while operating + video cameras on platform
Fish	Detect presence and movement patterns in vicinity of device and any interaction with turbines	Video camera + trialling of active acoustic monitoring (i.e. sonar)
Turtles	Detect presence and movement in vicinity of device	Visual observation, video camera + acoustic monitoring (i.e. sonar)
Marine Mammals	Number of whale species known to be present in G.P. area – including Right Whales. Commitment to establish 'shut down' procedure for whales. Discussions with DFO and other stakeholders ongoing.	Passive acoustic monitoring, video camera & active acoustic monitoring.  Visual observation from shore + communication with whale tour companies, Coast Guard and others. Monitoring of local communications / social media.
Acoustics (ambient and machine noise)	Assess noise in vicinity of platform	Passive acoustic monitoring (via use of hydrophones)

## 12.6 Schedule of Work

BRTP intends to bring PLAT-I to Nova Scotia in Summer 2018 followed closely by anchor installation operations and installation of the platform in Grand Passage. The test program is intended to run for a period of a minimum of three months. Permit applications have been prepared on this basis and have been submitted to Nova Scotia Dept. of Energy, Department of Fisheries and Oceans and Transport Canada.

Installation, testing and removal operations will be planned incorporating feedback from local stakeholders – including lobster fishermen. The staggered, flexible nature of the test program will enable testing operations to be timed for minimal interference with lobster fishing. Engagement with First Nations and other stakeholders has commenced and will continue throughout with a number of meetings and public engagement and 'Open Houses' events to be held in the Grand Passage area. First 'Open House' events were held in the communities of Westport and Freeport on June 19<sup>th</sup> and 20<sup>th</sup> 2018.