

Fisheries and Oceans Canada

ADDEMDUM ONE

February 2, 2017

F5211-170018

Vessel and Crew to Support the Fisheries and Oceans Canada (DFO), Maritimes Region, Ocean Monitoring Program – Spring 2017

Question #1

If all mandatory space and facility requirements of the vessel are met, would DFO accept a vessel of 37m in length rather than 45m? The ship's length is of no technical value in the context of evaluating platforms for this work. It can only serve to eliminate particular platforms which may be perfectly suited for this activity. I am requesting your technical team explain the link between LOA (length overall) and a vessel's capability in the context of this work. If the ship is certified to operate to the mandatory distance from Canadian shores (160nm - NC1) as certified by Transport Canada and has all the necessary space and facilities to meet the scope of work, why is there a mandatory length requirement? This is an unnecessary requirement and simply creates an unfair commercial advantage.

Question #2

Is an aluminum hull (rather than steel) considered acceptable? If it is not, I am requesting a technical response highlighting why Aluminum hull construction for a vessel is not supported for this light science work?

Answer (to Questions #1 and #2)

It is the personal experience of those drafting the Statement of Work that a vessel with a length of 45 m or greater would be capable of meeting the expected operational science requirements, while minimizing the likelihood of downtime, resultant of seasonal sea states and ice conditions that can be typical of the survey area in April/May. In addition, the steel hull construction is believed to be of benefit for typical Cabot Strait ice conditions that can be typical of the survey area in April/May; Cabot Strait is a location essential to the Department's core science deliverables under the monitoring program. Steel hull construction also improves the vessel's stability in sea states that can be typical of the survey area in April/May. However, if a vessel can meet the following amended criteria, it **will be considered acceptable**:

- The vessel must be of steel hull construction and at least 45 metres (m) [150 feet] in overall length. If the vessel is not of steel hull construction and/or at least 45 metres (m) [150 feet] in overall length, it must be capable of conducting scientific water sampling, as described in the Statement of Work, in first year ice conditions up to 10% coverage, as well as in Sea-state 5 conditions (Beaufort Scale 6: wind speed 22-27 knots; wave height 2.5-4 m), which can be typical conditions in the survey area in April/May.

Correction # 1

Statement of Work, Background

BACKGROUND

The Science Branch, Fisheries and Oceans Canada (DFO) Maritimes Region, Dartmouth, Nova Scotia, CANADA, requires the complete services of an Oceanographic Research Vessel charter (vessel and crew) to deliver its AZMP in the Spring of 2017, to operate within the offshore waters of Nova Scotia, CANADA. The monitoring program was implemented with the aim of increasing DFO's capacity to understand, describe, and forecast the state of the marine ecosystem, and to quantify the changes in the ocean's physical, chemical, and biological properties.

The AZMP Spring 2017 ocean monitoring program will consist of up to 55 water sampling stations (e.g., Conductivity, Temperature, Depth (CTD), nets, and water bottle samples). This sampling will consist of the core AZMP with sampling up to **160 nm** offshore and to depths of 2000 m. The area of operation is the offshore waters of the Scotian Shelf, inclusive of the Cabot Strait in the northeast to Browns Bank in the southwest. This annual Spring monitoring program typically is carried out using CCG Oceanographic

Research Vessels. In Spring 2017, however, CCG Oceanographic Research Vessels are not available for this program due to lifecycle maintenance.

Fix

Please Delete

160 nm

Please Insert

180 nm

Correction # 2

Statement of Work, Mandatory Requirements/Vessel Requirements

Please Delete

- The vessel must be of steel hull construction and at least 45 metres (m) [150 feet] in overall length.

Fix

Please Insert

- The vessel must be of steel hull construction and at least 45 metres (m) [150 feet] in overall length. If the vessel is not of steel hull construction and/or at least 45 metres (m) [150 feet] in overall length, it must be capable of conducting scientific water sampling, as described in the Statement of Work, in first year ice conditions up to 10% coverage, as well as in Sea-state 5 conditions (Beaufort Scale 6: wind speed 22-27 knots; wave height 2.5-4 m), which can be typical conditions in the survey area in April/May.

Correction # 3

Statement of Work, Mandatory Requirements/Vessel Requirements

Please Delete

- The vessel must provide laboratory space for sample processing, with a total minimum area of 20 m² [215 ft²].

Fix

Please Insert

- The vessel must provide laboratory space for sample processing, with a total minimum area of 20 m² [215 ft²]. The laboratory space should have sufficient capacity and bench space to accommodate water sample filtration apparatus and sample extraction/preparation; have at minimum one (1) sink to dispose of seawater; have access to a clean source of running sea-water; have a working fume hood for the storage of chemicals; and have means to secure equipment and supplies to lab benches, in support of science laboratory operations in heavy seas.