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Oregon State University  
Construction Contracts Administration  
PACIFIC MARINE ENERGY CENTER SOUTH ENERGY TEST SITE (PMEC-SETS) Marine  
Geophysical & Geotechnical Surveys  
RFP # 188279

ADDENDUM NO. 1

THIS ADDENDUM IS BEING ISSUED for clarification and/or revisions of the Request for Qualifications as noted. This document is hereby made a part of the Contract Documents to the extent as though it was originally included herein.

QUESTIONS/CLARIFICATIONS:

- Item 1 The RFP closing date has been changed from July 10, 2017 at 10:00 am, Pacific Time to July 17, 2017 at 10:00 am Pacific Time
- Item 2 Question: Would it be possible to get the boundary files (described via coordinates on pages 52-55 in the RFP document) in a digital format? Shape, KMZ, AutoCAD, MicroStation or similar?
- Answer: Yes. KMZ files will be available at the link below by 1 PM (PT) on 06/30/2017.
- <https://www.dropbox.com/sh/0c1ct0hck75yx01/AAAI7oxt7NwNlvruHs4vncBeadl=0>
- Item 3 Question: The RFP references “Guidelines for Providing Archaeological and Historic Property Information, Pursuant to 30 CFR Part 585, BOEM July 2015.” We understand that BOEM issued an update to the referenced guidelines in March 2017. Please confirm which guidelines (July 2015 or March 2017) should be referenced for preparing the survey proposal and conducting the work.
- Answer: Use either the July 2015 or the March 2017 guidelines, but state which you have used.
- Item 4 Question: Page 31, Section 3.7.7 Seabed Sampling indicates that “[s]hear strength of the top 2.5-meter of sample sediments shall be tested utilizing either a pocket Torvane or shear vane. Pocket Penetrometer (or equivalent) tests shall be carried out in non-cohesive sediments...” Does NNMREC want the Contractor to provide a seabed PCPT system to obtain correlated peak shear strength values as vibrocorers only collect disturbed samples?

Answer: NNMREC recognizes that shear strength testing of disturbed samples would be inconclusive. NNMREC does not require seabed PCPT. However, vendors may include seabed PCPT as an additional option in their bid (please include the additional cost of such an option). Vendor is also free to propose other options that would provide meaningful data relative to cable burial assessment.

Item 5 Question: Can we have a copy of the NMFS Letter of Authorization?

Answer: Yes. A PDF of the NMFS Letter of Concurrence is available at:

[https://www.dropbox.com/s/esig2fm899lrnqa/2017\\_0501\\_NNMRECSurveys\\_WCR-2017-6533%20%28003%29.pdf?dl=0](https://www.dropbox.com/s/esig2fm899lrnqa/2017_0501_NNMRECSurveys_WCR-2017-6533%20%28003%29.pdf?dl=0)

Item 6 Question: Any specified start/end dates for field work and/or no-work time periods

Answer: Start and end dates are flexible. Survey activities cannot occur during the Eastern gray whale phase B, northbound migration period of April 1 to June 15.

Item 7 Question: Any agency-specific training/education/experience/qualification requirements, particularly as it pertains to MMO/PSOs?

Answer: All MMOs used for surveys will meet NOAA's qualifications. NOAA lists Minimum Qualifications for Marine Mammal Observers at Vessel operators and those standing watch must receive training in vessel strike avoidance measures and will be asked to participate in watching for marine mammals and sea turtles.

[http://www.westcoast.fisheries.noaa.gov/protected\\_species/marine\\_mammals/monitoring\\_plan\\_guidance.html](http://www.westcoast.fisheries.noaa.gov/protected_species/marine_mammals/monitoring_plan_guidance.html)

Item 8 Question: Is there a specific exclusion/mitigation zone (this affects the type of observation equipment needed)?

Answer: A 100-meter distance from the survey vessel will be established as a safety exclusion zone for the protection of marine mammals and sea turtles, for all surveys activities involving the use of active acoustic devices: side-scan sonar, multi-beam sonar, and sub-bottom profiling.

Item 9 Question: Does NMFS specify the number of PSO's required per shift (e.g. 360 degree panorama around vessel for 12 hour period may require 3 personnel)?

Answer: NMFS do not specify the MMO/PSO requirements. The NMFS Letter of Concurrence states: "During the use of side-scan sonar, multi-beam sonar, and sub-bottom profiling devices, Marine Mammal Observers (MMOs) would be on the survey vessel at all times, in order to observe if marine mammals or sea turtles enter or are likely to enter the 100-meter safety zone around the vessel".

Item 10 Question: Is a sound source verification test required for this work?

Answer: Sound source verification from manufacturer should be sufficient.

Item 11 Question: Will PSO/MMO reports be required as deliverables?

Answer: The MMOs will note any visual siting of marine mammals or sea turtles on standard NOAA-approved forms, which will be forwarded to NMFS. No additional reporting is required.

- Item 12      Question: Will NNMREC entertain 24-hour operations rather than the stated daylight hours only if the PSOs are equipped with night vision binoculars, infrared cameras and/or a passive acoustic monitoring system?
- Answer: NNMREC has requested clarification from NMFS as the only daylight hours restriction is required in the NMFS Letter of Concurrence.
- Vendors can include two versions of their bid – one if 24-hour operations are permitted, and one if work remains restricted to daylight hours.
- Item 13      Question: Does OSU/NNMREC have any requirements for safety/training/medical/offshore survival for personnel working on OSU vessels?
- Answer: OSU’s Ship Operations requires at least one person in each research party to have completed a basic sea safety and survival training course covering topics such as: fire fighting; life rafts; MAYDAYs; immersion suits & PFDs; flares, emergency drills; cold water survival skills; and EPIRBs. All personnel onboard shall receive appropriate safety briefing prior to each departure. All appropriate safety rules and regulations shall be followed (USCG, class, etc.) All appropriate safety equipment shall be inventoried and inspected prior to departure.
- Item 14      Question: Is an archaeological review & report required by the proponent prior to the vibracoring program commences? If an archaeological review and report is required before conducting vibracore sampling, are the data collected from previous marine survey considered to be adequate for conducting the archaeological review/reporting where there is data coverage? If an archaeological review and report is required before conducting vibracore sampling, will the proponent be responsible for providing the marine archaeologist and clearance reports or is this work being covered by NNMREC under a separate contract?
- Answer: NNMREC will organize a quick archaeological review of the geophysical data for areas of concern that will be factored into final selection of coring locations. This quick review is expected to take ~2 days. It is expected that NNMREC will have the submarine cable route geophysical data reviewed while SETS area is being surveyed to minimize down time between geophysical and geotechnical surveys. The intent is to coordinate the reviews so as to not delay survey operations. It is anticipated that the “daily snapshot” data will be used for this review.
- Item 15      Question: Please confirm the shallow seismic survey of the SETS lease block is only sub-bottom profiling and not seismic reflection with boomer or similar – if the latter, what is the required penetration depth and line spacing?
- Answer: The goal at the SETS site is to characterize the seabed down to at least 50 ft. Potential vendors are encouraged to propose alternative methods that will achieve the best results.
- Item 16      Question: Seismic reflection at the HDD cannot work when surface waves create too much noise. In addition, water depth and wave conditions will make a seismic reflection survey right to the MLLW line unsafe. Does NNMREC understand the likelihood of and

accept that a data gap is likely between the MLLW line and the effective depth of seismic reflection?

Answer: The goal is to collect data along the entire route from surf line to the 10 meter water contour. Vendors are encouraged to propose alternative methods of collecting subsurface data.

Item 17 Question: “Near-real-time processing” – what is being expected to be produced for review? Please confirm if this would be limited to side-scan sonar imagery, sub-bottom profiling and magnetometer data to evaluate trenchability & archaeological concerns only (and not final deliverables)

Answer: “Near real time processing” is meant to provide a snapshot (not fully processed data) of the data so that route development can be executed if needed for cable burial and/or archaeological concerns, without the need to remobilize and/or down time waiting for data processing.

Item 18 Question: If fog sets in (<100m visibility for MMO’s), please confirm that constitutes weather standby?

Answer: If weather conditions (visibility, sea state, etc.) are such that survey operations cannot be continued, this would be considered as weather standby status.

Item 19 Question: Page 4, section 1.3 of SOW says “The DTS report and related data will be available for download. We have found the report bit not the “related data”, could you provide a link to the data?

Answer: We apologize. The DTS is available. The data will be made available during the down select process.

Item 20 Question: What company or organization collected the data from the DTS?

Answer: The DTS was conducted by 3U Technologies ([www.3utech.com](http://www.3utech.com)). A 2014 preliminary marine survey was conducted by OSU faculty and staff in collaboration with 3U Technologies personnel.

Item 21 Question: On page 9 of SOW, please clarify the sidescan “baseline” statement. Operating range has more impact on resolution than line spacing. Also, 100% coverage including Nadir gap? Was this supposed to be 100% overlap/ 200% coverage?

Answer: NNMREC requires 100% coverage (no data gaps) . Coverage must include the Nadir gap. Vendors are encouraged to propose alternative methods of collecting the data.

Item 22 Question: Please clarify the timing requirements for deliverables. Section 4.1 states preliminary marine survey report is due 10 days after completion of work and 4.3 states that the final report is due within 2 weeks of acceptance of the preliminary, however, section 2.1 says the final report must be completed by 12/29/17. If the survey is conducted in August or September is there any flexibility to the times stated in section 4?

Answer: NNMREC’s key requirement is that all final deliverables and data are received and accepted by 12/29/2017 at the latest. There is flexibility in the timing

stated in Section 4 and the schedule for preliminary and final reports can be negotiated during contracting.

END OF ADDENDUM NO. 1