

Monthly Meeting (October 2021)

Date: October 26, 2021
Time: 2:15 pm - 3:20 pm EST
Location: Park Seismic Office
Attendees:

In the office: Choon Park (CP) and Jin Park (JP)
Via Skype: Josefin Starkhammar (JS) and Nils Ryden (NR)

1. Administrative Topics:

JP reminded us that we are now using the new format of the reporting work hours from the amended contract, and we should report more hours from task #4 ("Demonstration of Acquisition System and Software") and task #5 ("Final Report").

2. Technical Topics:

- CP presented a power-point file that showed the schematic of the 2D array configuration and mentioned the maximum lateral coverage would be only about 3-4 ft. He asked NR if it could be practical enough. NR replied it would depend on the type of application. For example, detection of anomalies like micro-cracks will need a high lateral resolution. NR also mentioned that the relatively narrow 2D system will provide the results with much higher reliability. Therefore, a regional survey that needs broader coverage can be accomplished through multiple longitudinal surveys. JS mentioned that multiple 2D systems harnessed at the front and back of the vehicle might also extend the lateral range.
- CP mentioned how the analysis software would handle the 64-channel data to maximize the accuracy in the analysis results in a regional sense and the result from each array.
- All discussed a possibility that the weight of 2D arrays can make the system spatially unstable as they can wobble during the survey. NR replied he would have to use as many light materials as possible for the holding frame and consider ways to reduce the cables' weight on the structure.
- CP mentioned it is critically important to make the 2D array extendable so that the lateral coverage range is adjustable within a preset limit.
- CP asked JS to provide details about how the PXI system responds to ARM, DISARM, and STOP commands issued from the ParkSEIS-HMA software package.
- CP asked if JS had solved the previous issue of delayed GPS measurement.

3. Agreed:

- Team Sweden will try to complete the 2D system within the next few months.