Q&A for

RFP-PCPA-000224 – Hydro Data Storage & Gathering Solution

1. The RFP indicates that this is to be a sealed bid submitted electronically, but the e-mail conveying the RFP stated, "Fax, E-mail or third party submitted copies of bids will not be accepted for the submission of sealed bids." Could GRDA confirm that the bid can be submitted electronically? Yes, the bids can be submitted electronically.
2. Bullet 15 of the RFP requests a lump sum value (i.e., fixed bid pricing) to be specified on Attachment H. However, Attachment H also asks for a rate table (i.e., time and materials rates). Please confirm that a) no rate table is in fact required on Attachment H given the lump sum nature of the bid and that b) the lump sum amount does not need to be restated on Attachment H given that it is already stated on Attachment B. The vendor should provide a total cost for services provided but also an itemized breakdown of costs. Examples of cost of building the database, Data Migration, etc. The vendor will provide a breakdown for the work schedule into milestones.
3. Does GRDA have a preferred payment schedule? If not, where should the bidder specify their proposed payment schedule? Payment will be issued upon completion of accepted deliverables, tasks, or milestones agreed upon by the Statement of Work.
4. The RFP indicates a need for the solution to be able to connect to Power BI. Does GRDA desire for the integrator to implement this integration, and if so, to what extent (e.g., establish a demonstrative connection between PI and Power BI using a sample query)? Yes the vendor will implement the integration to Power BI.
   a. Has GRDA identified the AVEVA solution it would like to use for facilitating this connection and purchased the associated software license? GRDA does own OSI Soft PI and Power BI
      i. If so, which AVEVA solution (e.g., PI Integrator for Business Analytics) does GRDA intend to use?
         GRDA does not have PI Integrator for Business Analytics

      ii. If not, can the integrator make a related assumption?
         GRDA has the following:

         • PI System Access (PSA): includes PI Web API, PI SQL Client, PI AF SDK, PI OLEDB Enterprise, PI OLEDB Provider, PI OPC HDA Server, PI OPC DA Server, and PI API for WIS

         • PI Interface for OPC DA

         • PI Interface for Emerson Ovation

         • PI Interface for Universal File and Stream Loading (UFL)

5. Has GRDA identified how many "tours" (a.k.a. rounds) will need to be configured by the bidder within PI Manual Logger? If not, please specify how many separate data collection efforts GRDA's operators currently perform (e.g., once a day, Piezometer readings are collected; once a week, motor temperatures are collected; etc.). Weather and the response to the weather drives the needs for the rounds, it could be routine daily checks to hourly checks under certain conditions. Also GRDA has automated data collected.

6. With the exception of the PI tags to be created to store the manually entered data from PI Manual Logger, does all of the data to be modeled in AF already exist in PI (i.e., no additional new PI tags will need to be created)? If not, please elaborate on any additional new tags to be created (e.g., to store the output of calculations). Currently no data in PI, we require the database to be built out per this RFP. Currently we are using an MS Access Database.

7. For the values to be collected manually, will their limits be dynamic (e.g., using the values of a tag) or static (i.e., hardcoded)? It can't be permanently hard coded, but the limits would need to be adjustable based off of needs. GRDA does need limits set so erroneous readings are not recorded.

8. How many existing Excel spreadsheets will need to be re-created using PI DataLink? See attached MS Excel sheets.

9. How many new reports and visualizations does the bidder need to build? 50 to 55 immediate with long term potential to 150

10. Using what AVEVA solution(s) does GRDA expect the new reports and visualizations to be built:
    a. Reports (e.g., PI DataLink)?
       Any excel reports desired would be best served using PI Datalink

    b. Visualizations (e.g., PI Vision)?
       Using PI Vision is the expectation

11. Does GRDA desire for the bid to include post-implementation support, and if so, to what extent (e.g., # of hours per week/month, SLA, etc.)? Development support is mandatory for the software, database, and reporting.

12. The RFP mentions, "there are approximately 450 tags in the access database." It also states, "390 of the 450 readings are gathered manually." The implication is that 60 of the readings are not gathered manually (i.e., they are populated automatically). Assuming those 60 readings will need to be gathered into PI, where will those readings originate from: the Access database or somewhere else (and if so, using what protocol)? Any protcols GRDA uses are standard, MODBUS, etc. Current to past data gathered will come from Access Data base

13. Does the historical data dating back to 1995 in the Access database for all 450 tags need to be backfilled to PI? Yes

14. The most direct means for connecting PI to Access for data collection is the use of the PI RDBMS interface. Does GRDA own a license for this interface? If not, is GRDA prepared to purchase one? GRDA does not own PI RDBMS but is prepared to purchase it.

15. How many users will require training in each of the respective categories: data entry, manual logger, automation, and report creation / visualizations? 5 to 6 for all categories

16. Does GRDA have a preference for the number of training sessions to be held? Primary training session with a follow-up training session, with a possible third training session. The Primary training session would need to be in person.

17. What is the expected length of training sessions in hours/days? Recommended by vendor

18. Roughly how many properties (a.k.a. attributes) do you expect to be associated with each asset type to be modeled in AF? Each asset will have its specifics. Some have 1 attribute others have up to 5 attributes. Most 1 or 2 attributes.

19. How many reports are required? Can they provide any sample references? See attached excel spreadsheets.

20. How many excel reports need to be recreated? Can you provide a copy of these reports? If not, can you describe the required functionality of these excel reports? See attached excel spreadsheets.

21. Would they like emailed reports? If so, how many? Yes, Would prefer a automated and manual.
22. How many graphics are required? Can they provide any sample references? See attached MS Excel reports.
23. How many analytics are required? See attached MS Excel reports
24. What kind of analytics are required? Are they simple aggregations or more complex? Most will be simple but some could be complex.
25. How many dashboards are required? Still to be determined.
26. Would GRDA use PowerBI or AVEVA PI Vision for the web based dashboards? AVEVA PI Vision would be best for full utilization of capabilities.
27. There are multiple options (PI Integrator for BA, ODBC, OLEDB) to integrate PowerBI with PI with some requiring additional licensing. What method does GRDA wants to use for this connectivity? GRDA is provisioned for the following connectivity protocols. They do not have PI Integrator for Business Analytics.

- PI System Access (PSA): includes PI Web API, PI SQL Client, PI AF SDK, PI OLEDB Enterprise, PI OLEDB Provider, PI OPC HDA Server, PI OPC DA Server, and PI API for WIS
- PI Interface for OPC DA
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28. How many Manual Logger sheets would they like? Specify the number of devices PI manual logger need to be setup on. 390 What type of devices will be used for PI manual logger installation? See RFP
29. How many training sessions would they like? Do they prefer in person or remote? (remote is Spartan standard option) Answered above
30. What does the current PI system architecture look like? Access Data Base
31. What is the current PI system version?
    - PI System Explorer 2018 SP3 Patch 3; Version 2.10.9.593
    - PI Collective Manager 2018 SP3 Patch 1; Version 1.4.3.25

32. In reference to the optional manual data entry, What is the frequency of these hard copy reports and how many tags are there? Quarterly to annually but also depends on the needs and conditions, 450 tags
33. How do they plan on automating their reading gathering in the future? Using standard protocols, modbus, etc.
34. What other data sources would they like integrated outside of manual data and online weather sources? Can you specify the integration method these external systems support (example: OPC, modbus, Web API etc) OPC, MODBUS, Web API, Excel, MQTT, most standard protocols.
35. Attachment H requests a rate quotation, however attachment B requests Lump sum. Spartan typically only provides rates for Time and Material projects. Is this proposal requested to be lump sum? If so can Attachment H be omitted? The vendor should provide a total cost for services provided but also an itemized breakdown of costs. Examples of cost of building the database, Data Migration, etc. The vendor will provide a breakdown for the work schedule into milestones.
36. 300 and 300A logs are a US government/State requirement; As Spartan is a Canadian company we can provide our 5 year incident statistics as a Canadian equivalent. Please advise if this is acceptable. Yes

37. NCCI worker compensation experience ratings are a US requirement; As Spartan is a Canadian company we can provide our provincial Worker Compensation Board (WCB) rate statements for the past 5 years as a Canadian equivalent/ Please advise if this is acceptable. Yes