City of Seattle Request for Proposal # SCL-3212
Addendum

Updated on 02/12/2014

The following is additional information regarding Request for Proposal # SCL-3212, titled **EMS REPLACEMENT,** released on 01/07/2014. **The due date and time for responses remains as 02/18/2014 at 2:00 PM PST**. This addendum includes both questions from prospective proposers and the City's answers, and revisions to the RFP. This addendum is hereby made part of the RFP and therefore, the information contained herein shall be taken into consideration when preparing and submitting a proposal.

Item #	Date Received	Date Answered	Vendor's Question	City's Answer	RFP Revisions
1	1/17/14		Would SCL accept a parent company guarantee instead of a contract bond?	~~SCL will accept a parent company guarantee instead of a contract bond. The form for the parent company guarantee can be found in section 6 of the RFP~~ ** UPDATED 02/12/2014 ** A bond is no longer required for this project. A Parent Company Guarantee will not be necessary.	• Delete entire Section 6, "Contract Bond". • Section 11, delete "Letter of Commitment for Contract Bond (Mandatory)". • Section 11, Table 3 – SUBMITTAL CHECKLIST, delete "Letter of Commitment from Bond Agency".
2	1/21/14		Related to section 02-004, would SCL be able to provide Hopf clocks during system integration (if our system is able to interface with this model of NTP clock)? It is indicated that it's SCL's preference to retain their current clocks, but it would be necessary to have at least one (or two if testing redundancy) available for system integration in the factory. Can SCL please provide the model of Hopf clock they intend to maintain?	SCL can provide one of its spare clock systems for system integration testing. With its multiple boards it should be sufficient for redundancy testing. The model is called "System 7001RC-GPS" and descriptions and manuals can be found and downloaded on the manufacturer's website: http://www.hopf.com/en/index.html. Click on "Products", then "System 7001RC-GPS". SCL also uses the Switch-Box (System 5000) referenced in that section to failover the SINEC-H1 LAN ports (see below). The following boards are installed in each clock system: Three 7201RC single serial port (with "Multi Frequency B" string output); Two 7272RC/L2 with Dual LAN ports (one port configured with NTP and https for	No RFP revisions.

				WebGUI, the other with SINEC-H1 time datagram every second); Two 7515RC for Frequency Analysis (one for local sensing via onboard power connector, the other connecting to a SCL custom Frequency Sensor via RS422); One 7122RC with relay outputs for alarm and sync functions; One 7270RC with pulse output for old Frontend (will become obsolete).	
3	1/21/14		Related to section 02-007, it states that some of the single ported RTU's can only be accessed via the SCC site. On a switchover to BCS, how are these RTU's then accessed? Is it planned to make these single ported RTU's to be dual-ported?	It is currently accepted by Operations that no connections to these RTUs exist from the BCS site. There are long-term plans to make these single port connections available at the BCS site to enable "Listening Mode" while in backup and switching to active mode when control is transferred. There are no current plans to add a second port to these RTUs.	No RFP revisions.
4	1/21/14		Could figure 2-3 be described more fully during the Wednesday meeting?	As mentioned in the Wednesday meeting details for figure 2-3 are in section 12 of the Technical Requirements.	No RFP revisions.
5	1/21/14		Figure 2-4 shows ICCP servers connected to the Production network. Has SCL considered moving these servers to a DMZ and off of the Production network?	Due to the internal design of the current system it was deemed more secure to keep the ICCP servers inside the ESP and NAT the WECC WON address to one of the internal interfaces. This limits the amount of ports that need to be allowed through the firewall. Also WECC auditors have expressed concern if an entity did not declare the ICCP servers as Critical Cyber Assets while receiving Tie-line MW values	No RFP revisions.

				that impact AGC.	
6	1/21/14		Related to section 02-050, how does SCL plan to provide RTU communication back to the QAS systems (at both Primary and Backup sites)? Will it be planned to provide complete communication from all RTU's back to QAS?	There will be one or more test RTUs solely available to the QAS system. The communications infrastructure can provide temporary connections to either just the receive wires of the serial channel, or dedicate the channel to the QAS and have the Production system listen. There are no plans to provide complete communication from all RTUs at the same time, but it would be possible if necessary.	No RFP revisions.
7	1/21/14		Related to section 02-056 the requirement states "The PDS Environment shall have the capability to receive real-time data (i.e., from the field devices such as RTUs and ICCP) concurrently with the Production Environment (listen mode) **and/or** receive snapshots (copies) from real-time values in Production. " Can we get more clarity on the "and/or" requirement? Can we only have an "and" or an "or" and not both? If there is a need to do both, please remove the "or." If we can choose between either mechanism, please remove the "and."	The reason for this wording is that we would accept to have a method to receive snapshots for the bulk of data for testing of applications e.g. AGC, but still need to have the functionality to test Frontend and ICCP server application changes, new RTUs and new ICCP links. So SCL will change the requirement to: "The PDS Environment shall have the capability to receive real-time data (i.e., from the field devices such as RTUs and ICCP) concurrently with the Production Environment (listen mode) and handle exclusive connections to test new RTUs or ICCP links. For testing of applications like AGC or State Estimator requiring a full set of data the real-time data can alternatively be provided by receiving snapshots (copies) of real-time values in Production."	No RFP revisions.
8	1/21/14		Related to section 06-017, it says that SCL	Yes	No RFP revisions.

			"prefers" an architecture based in standalone servers for all critical functions in the system. Though SCL may prefer this, are they completely against virtualizing critical functions?		
9	1/21/14		Related to section 06-027, since SCL will be providing all of the network equipment, will they make networking equipment available for use during factory integration?	Yes	No RFP revisions.
10	1/21/14		Related to section 03-041, it states that the RDBMS supplied with the EMS shall also be available for "general-purpose" use. Can SCL please elaborate further on what they mean by "general-purpose" use?	The RDBMS should allow adding tables and functions for future enhancements and 3rd party applications.	No RFP revisions.
11	1/21/14		Related to section 03-042, what is SCL's currently supported Oracle version?	Oracle 11g.	No RFP revisions.
12	1/21/14		Related to section 03-086, could SCL please provide more information related to their monitoring system? Is this monitoring system based on a readily available 3rd party product (e.g. HP Open View, etc.)?	SCL is currently evaluating products suitable for the specific environment which will not tie into the corporate solution and do not require a lot of resources for its management and operation. If you have suggestions please include them in the offer. As stated it should utilize Syslog and SNMP.	No RFP revisions.
13	1/21/14		Related to section 03-215, it is stated that in the event that SCL decides to purchase the Hardware outside the scope of the project	If SCL decides to purchase the hardware SCL will also be responsible for the warranty of this hardware. The stated	No RFP revisions.

			that this does not exclude the Vendor from the responsibility of the hardware proposed for the EMS. Does this indicate that the Vendor will be responsible for supplying the warranty of this hardware or will SCL purchase the warranty (for hardware support) as part of their agreement with the hardware manufacturer?	responsibility of the vendor refers to the correctness and completeness of the listed components for the proposed hardware. Any additional items or items that need to be exchanged to comply with the functional requirements will be at the vendor's expense.	
14	1/21/14		Related to section 05-085, could SCL please elaborate on their existing logging system? Is this logging system based on a readily available 3rd party product (e.g. KIWI, etc.)?	SCL is currently evaluating additional products suitable for the specific environment. The current Syslog product used is Syslog-ng (OSE). If you have suggestions please include them in the offer.	No RFP revisions.
15	1/21/14		Related to section 05-097, though the vendor shall make a recommendation on Malware software, does SCL intend to purchase the Anti-virus and Malware software directly or should these licenses be provided by the vendor?	SCL intends to purchase the Anti-virus and Malware software directly.	No RFP revisions.
16	1/21/14		Related to section 05-130, can SCL elaborate on any infrastructure they currently have in place that allows for remote access support? If such infrastructure is currently in place, is it possible to continue to utilize this same infrastructure or is this not desired for the new system?	SCL utilizes the corporate City of Seattle VPN solution to get into SCL's corporate network. Then a SSH client is used to first access a server on the EMS DMZ, from there another SSH session is necessary to get into the EMS network. In parallel there is a VPN tunnel from our current vendor to a separate firewall terminating at a test system which has no physical connection	No RFP revisions.

				to the Production system.	
17	1/20/14	1/22/14	Has a budget been set aside for the project? If so, how much?	Overall budget for the project is $18.2M. This includes all software, hardware, services, and internal Seattle City Light costs.	No RFP revisions.
18	1/20/14	1/22/14	How much has been budgeted or spent for prior projects of similar size and scope?	Seattle City light budgets each of their projects according to size, scope, and complexity.	No RFP revisions.
19	1/23/14	1/27/14	Does SCL have a script for the demos?	No, the script will be written after the evaluation of the written proposals, and will be specific to each vendor.	No RFP revisions.
20	1/23/14		All interfaces that are developed by the Vendor, as part of this work, will be sole property of SCL. Could SCL elaborate on this further?	Please refer to the Contract Terms and Conditions sections on ownership and warranties found in the Attachment 2 of the RFP.	No RFP revisions.
21	1/23/14		Is the interface with existing Arkeia Network Backup V8.2.15 mandatory?	Please refer to section 3 requirement 03-058.	No RFP revisions.
22	1/23/14		For 02-063 : It is assumed that in the DMZ are dedicated User Interface Consoles that are can be connected to either the PROD or the QAS systems?	Yes, these User Interface Consoles on the DMZ should not allow control operations - including settings changes - but be "read only".	No RFP revisions.
23	1/23/14		For 03-11: Expandability shall be provided through the use of a hardware and software platform that allows for vertical growth, and a configuration that allows horizontal growth and distributed computer/server support. What is specifically meant here by Vertical	"Vertical Growth refers to the capability to increase the performance and capacity of the proposed configuration by adding resources like main memory or faster CPU to the existing computers/servers while Horizontal Growth refers to the increase of the system performance and capacity by adding new computers/servers and/or	No RFP revisions.

			Growth?	devices to the configuration.	
24	1/23/14		For 03-42: The EMS system shall use SCL's currently supported Oracle version for all RDBMS DBs used in the solution. What is the expected Oracle version that SCL will be supporting today and at the time of the project delivery.	Current Oracle version is 11g. SCL can't predict Oracle's plans for future versions.	No RFP revisions.
25	1/23/14		Appendix D - TG8979 or LNG8979 protocol. Could SCL provide the full implementation details (i.e. what function codes are used)?	SCL is using the following function codes: FC 0 : Analog Change Report FC 1 : Analog Force Report FC 5 : ADC Reference Force Report FC 6 : Indication Change Report FC 7 : Indication Force Report FC 8 : SOE Change Report FC 9 : SOE Force Report FC 11 : Digital Input Force Report FC 13 : Accumulator Force Report FC 14 : SOE Log Change Report FC 20 : Analog Output FC 21 : SBO Select FC 22 : SBO Operate FC 23 : Digital Output FC 24 : Accumulator Freeze FC 25 : Pulse Output FC 26 : Pulse Train Output FC 30 : Restart RTU FC 31 : RTU Configuration FC 32 : Time Synchronization FC 33 : Time Bias FC 37 : Continuation Request FC 39 : Firmware Configuration	No RFP revisions.

				FC 63 : Exception Report (RTU to Master only) In the current system analog change dead bands are handled in the Frontend system, but the RTUs are capable of using FC 34 : Analog Deadbands	
26	1/23/14		Appendix D - DNP protocol. Could SCL provide the full implementation details? a. Is this specification similar to the existing SP4 IFS specification?	This is all the relevant documentation of the DNP implementation in the RTU we could find. Re a.: Yes.	No RFP revisions.
27	1/23/14		SCL have asked for Secure DNP in Section 5 (5.12). What is the implementation being requested. For example, does the vendor have to follow DNP Group Standard Secure implementation or something different?	To avoid compatibility issues SCL intends to use established standards where available. Since SCL does not currently use Secure DNP the DNP Group Standard Secure implementation would support this intent.	No RFP revisions.
28	1/23/14		SCL have request for IEC-61850 implementation. Does the vendor have to support the Client or the Server option?	For frontend - as the SCADA master - the vendor needs to support the Client option.	No RFP revisions.
29	1/23/14		Section 19 (3), SCL have requested for Listen mode function for TG8979 Protocol. Does the vendor have to support Listen mode for DNP?	SCL understands that DNP is a network protocol and Listen mode may not be possible and therefore has not considered it as a requirement. If this has been implemented successfully before or if the vendor can provide an alternate solution which accomplishes the intent - receiving the data in parallel as well as confirming operation of the communication channel -	No RFP revisions.

				please include this as an option!	
30	1/23/14		Section 19 (19-009). Alerts to missing SOE Change or SOE Log Change transmissions in the system log. Is it when the RTU is setting the bit for SOE Change and the IFS does not get any report by request? Shall it then be reported that no SOE Change has been received?	The current solution is part of the message processing, not the frontend, but SCL has no preference where this check takes place. The relevant data point has the attribute "double transmission" and message processing starts a timer when either the SOE change or the SOE Log change message has been received. If the corresponding message is not received within the configurable time-out period an error message is sent to the system log.	No RFP revisions.
31	1/23/14		Does customer have existing PI Servers and do they expect migration of data to PI Gateway interface? In other words, is the customer currently sending SCADA data to existing PI Servers using another interface (for instance ICCP)? Does customer expect data migration from this existing interface to PI Gateway (for instance the ICCP link and object definitions would need to be migrated to the PI Gateway PDM TAPI definitions)? Will the vendor need to be sending EMS values to existing PI Tags that are already defined in SCL's PI Archive.	Yes, SCL maintains a redundant PI system to which SCADA data is sent via ICCP. Yes, the new SCADA would have points that correspond to tags already defined in the corporate PI system. The new EMS shall also support the capability to match new created points in SCADA with PI tags. The Vendor shall provide a native PI Interface as described in Section 12.4 of the specification Yes the vendor will be sending values to existing PI Tags that are defined in SCL's PI Archive.	No RFP revisions.
32	1/23/14		Does SCL have a PI Collective, how many redundant PI Servers are in this collective, and any additional PointSource's for existing	There is one PI collective with two participating servers, as well as another single server system intended for the BCS	No RFP revisions.

			tags.	and any testing. There are currently no other sources than the EMS for this collective, but there might be in the future.	
33	1/23/14		Does customer have current Enterprise Agreement (EA) with OSIsoft?	Yes.	No RFP revisions.
34	1/23/14		Section 12-040: Does SCL want all values to be transmitted every 1 second or just values that have changed during the 1 sec period?	Only changed values need to be transmitted in the 1 second cycle. An integrity update cycle (e.g. every 5 minutes) is desired.	No RFP revisions.
35	1/23/14		Appendix A calls for 10,000 contingencies in Contingency Analysis and 10,000 events in OTS. The future model size is 1500 busses and approximately 800 branches. How does SCL reconcile the size of the model with the large number of contingencies and events? Does SCL really want or need 10,000 contingencies/events?	SCL would like to have the capability to model not only N-1 contingencies, but also multiple contingencies. We also need include some contingencies from neighbor systems and RC specified contingencies. Currently, the complete set of contingencies (N-1 and Multiple) are about 4000. So, I think the capability to model 5000 contingencies are the minimum requirement. If it will be easy to expand the capability to model more contingencies in the future, the 5000 contingency capacity is ok for now.	No RFP revisions.
36	1/24/14	1/24/14	We seem to be having trouble finding Appendix C.	Appendix C is Section 19.	Replace all references to “Appendix C” with “Section 19”.

37	1/22/14	1/22/14	Will the existing modems need to be replaced?	This is not a requirement, but it would be acceptable if your proposal requires it.	No RFP revisions.
38	1/22/14	1/22/14	The RFP states a preference for LINUX on the workstations	SCL support has worked with Linux and Unix for the last 20 years, so that is preferred, but not required.	No RFP revisions.
39	1/22/14	1/22/14	Is there a driver behind the 24-30 month delivery time?	No, it was deemed a reasonable amount of time to complete the project.	No RFP revisions.
40	1/22/14	1/22/14	Is it required that follow the City's request to use environmentally friendly products with your response?	The City prefers that all vendors use environmentally friendly products. It is not a requirement.	No RFP revisions.
41	1/22/14	1/22/14	Is integration a part of this process?	No, an integration RFP will be released at a later date.	No RFP revisions.
42	1/22/14	1/22/14	Will all of the furniture stay?	The current furniture is deemed sufficient but new furniture can be part of the proposal.	No RFP revisions.
43	1/22/14	1/22/14	Any plans to move to a video wall?	Total replacement, no. Some additional visual components would be considered.	No RFP revisions.
44	1/22/14	1/22/14	Biggest possible monitor size?	30"	No RFP revisions.
45	1/22/14	1/22/14	Specifics for the driver for the map board?	It is currently a Siemens Simatic S5, we are planning on replacing it with a Siemens Simatic S7.	No RFP revisions.
46	1/22/14	1/22/14	Are you going to add other displays in the Control Room?	No, additional displays are not part of this project.	No RFP revisions.
47	1/22/14		Can the racks in the Server Room be reused? Who would pay for new racks if they were needed?	SCL plans to replace the two-post racks with standard 19" blade server cabinets. If your equipment needs special consideration (e.g. extra wide, extra deep) please include cabinet specs in your	No RFP revisions.

				proposal.	
48	1/22/14	1/22/14	Can the layout of the server room be changed?	There is a plan to reconfigure the Server Room to an "A" and "B" side. There is a preference to utilize more cabinets.	No RFP revisions.
49	1/22/14		Does the City provide network testing equipment to the vendor (firewalls, etc.)?	Yes.	No RFP revisions.
50	1/22/14	1/22/14	Redundant modems?	Yes, 2 channels (A and B). One modem for one channel. Both front ends get information from both channels (modem sharing device in between).	No RFP revisions.
51	1/22/14	1/22/14	Is the Terminal Server (Digi 16) a commercial, off the shelf product?	Yes. It is basically an ethernet serial converter.	No RFP revisions.
52	1/27/14		Would SCL would be amenable to a two- or three-week extension of the response deadline?	No. Seattle City Light needs to stay on schedule as there are related projects that would be impacted by the delay	No RFP revisions.
53	1/27/14		Section 7.2: 7-028 – Please clarify and/or list the "Destination(s) of collected data"	"Destination(s)" in this case refers to definable "groups of data" mentioned in 7-022, e.g. data for NERC reports, hourly plant data, etc.	No RFP revisions.
54	1/27/14		Section 7.3: 7-047 – "The archival function shall provide flexibility, allowing the archive *file to contain information in addition* to the source table, allowing the *removal of commercially sensitive data columns* before archiving, formatting the data in ways that may be used by third-party processors (such as spreadsheets), and/or formatting the data in a way compatible with archive restoration" Could SCL please provide	The requirement is for the archiving functionality of the HISR to provide the flexibility needed to define the information included in the archive files and not be restricted to include only the source data. For instance, the archive function shall allow the inclusion in the archive files of analytic data (Section 7.6) or data modified in the HISR itself. The archiving function shall allow the user	No RFP revisions.

			example to the highlighted (and italicized) parts of the sentence.	to define the data to be archived. The user then can instruct the HISR not to archive sensitive or proprietary data that could/should only be accessed by personnel with the appropriate authorization	
55	1/27/14		Section 10.10.1: 10-268 - Capability to import outages from the WECC Coordinated Outage System Interface. • This WECC Coordinated Outage System Interface is not listed anywhere in the specifications except for section 10.2.68. What is the interface between WECC COS and the SCL system? What interface format/technology will be used to import outage schedules?	WECC has not finalized the interface to the COS yet.	No RFP revisions.
56	1/27/14		Section 11.1.1 NERC/WECC Balancing Authority Functionality • Item 1 (g): Functionality shall support WECC variances as described in the standards • Could SCL provide explicit descriptions of what these WECC variances are?	Please reference the WECC Standards http://www.wecc.biz/library/Documentation%20Categorization%20Files/Forms/AllItems.aspx?RootFolder=%2flibrary%2fDocumentation%20Categorization%20Files%2fRegional%20Standards&FolderCTID=&View=%7bAD6002B2%2d0E39%2d48DD%2dB4B5%2d9AFC9F8A8DB3%7d	No RFP revisions.
57	1/27/14		Section 11.1.3 Data Processing and Filtering	"This requirement is applicable to SCADA telemetry input and output points that	No RFP revisions.

			• Item 4: "Ability shall be provided for users to change "on-line" SCADA input references without the need of a database generation". • What does this mean?	need to be modeled into the AGC database. If the user decides to update a SCADA point reference (point ID or Name) needed for an AGC input (unit limits, Gross MW Gen, etc) or output (set point control id, etc), there will be no need for a database generation that will interrupt operations of the AGC function"	
58	1/27/14		Section 11.1.7 ACE Filtering and Processing Logic • The last requirement: "AGC should support ACE control of multiple islands (option)" • Does this mean for some reasons a control area is split into multiple isolated islands which still need to be controlled individually in constant frequency ACE mode?	Yes. Due to Seattle's topography with transmission lines across a canal it is possible that SCL network is separated into two islands. Currently the southern part has no generation within the "own" network, but that may change. In a black-start situation SCL may need to rely on such a feature.	No RFP revisions.
59	1/27/14		Section 11.1.9 Generating Unit Control Modes • 8. Motoring - .... "AGC sends negative control signals." • How does SCL compute the negative control signal to be sent?	Revision: SCL Operation would prefer to manually set the unit in "motoring" mode and enter the desired MW amount (with a configurable maximum), but it should be possible to also set the unit in "assist" mode and allow AGC to take it out of motoring automatically if needed due to the control situation. This would allow the unit to contribute to contingency reserve. SCL is open to other vendor solutions.	No RFP revisions.

60	1/27/14		Section 11.1.9 Generating Unit Control Modes • "AGC shall switch the unit control mode to manual (or plant local) mode when a configured Remedial Action Scheme trips the unit (Boundary Run-Back)" • How is the Remdial Action Scheme configured? How does AGC get notified? If the unit is to be controlled manully, the plant will set it to local. The local/remote flag is telemetered. • Please clarify.	The current logic sends either a plant signal (Boundary Run-Back), or unit signals into the EMS and does not affect the local/remote flag for each unit as the RCOS RTU has the logic to decide which units receive a lower set point momentarily. The Dispatcher should than be able to redistribute the maximum allowed plant loading per remote control.	No RFP revisions.
61	1/27/14		Section 11.14 JOU • b.Need clarification and details on how electronic MW request from each owner is done. • c.Need explanations on "Fixed, balanced and dynamic share allocation methods."	SCL's current JOUs are not dispatchable and are split fixed 50/50, which means each owner gets a "fixed" share at any point in time. When the units become dispatchable in the future the controls for "balanced" may allow momentary unequal shares that should be balanced out over a configurable period (e.g.1 hour). "Dynamic shares" would allow for unequal shares anytime, but need to calculate the percentage for use in the MWh meter split	No RFP revisions.

			• Are SCL JOU's dispatchable?	calculation. The vendor should include and explain their standard solutions.	
62	1/27/14		Section 11.1.16 AGC Unit Performance Monitor • Please clarify on how "availability and tracking score for each unit" is computed by SCL?	SCL is calculating the UCE and monitoring the "runtime" of each unit. Currently no "tracking score" is kept, but should be part of the new EMS.	No RFP revisions.
63	1/27/14		Section 11.2 • "This function should support NWPP following Regulation Reserve Assistance Program (FRAP)" • Please provide details how this works.	The NWPP FRAP design has not been finalized yet.	No RFP revisions.
64	1/27/14		Section 11.3 - SCED • item 5: Fishery constraints requirements • Could SCL provide more details on this?	Please see section 19.14 for details.	RFP Technical Specification Section 19 will be renumbered accordingly
65	1/27/14		Section 11.3 - SCED • item 6: Hydro unit optimization	Currently SCL assigns fixed Water Worth Values to each plant to provide desired distribution of load independent of e.g. transmission line restrictions. The external	No RFP revisions.

			requirements • Could SCL provide more details on this?	scheduling function may provide schedules for the WWVs.	
66	1/27/14		Section 19. • 30. Frequency Responsive Reserve (FRR) • Not able to find a final version of BAL-00X-WECC-1. Could SCL provide?	The WECC specific standard has been abandoned. The requirement is now covered in NERC BAL-003-1.	No RFP revisions.
67	1/27/14		ID 12-079: How are data identifiers translated between External Systems and EMS while communicating using EIDE? Is the expectation that EMS will maintain a mapping of identifiers for translation and data mapping?	Yes, a mapping/translation needs to be maintained as clearly specified in this requirement. It should consist of account code (minimum), data set ID, and entity ID vs. EMS specific identifiers/attributes.	No RFP revisions.
68	1/27/14		ID 12-084: EIDE Comm. Protocol Specification 1.0.5 available at https://www.wecc.biz is dated Nov 22, 2006. Is this the version of the protocol that we need to comply to?	Yes	No RFP revisions.
69	1/27/14		ID 12-025: What is the use case for PRT Load Forecast data once it is written into the EMS database? We were not able to cross-	We require the forecast data to be imported from the Power Management so we are able to trend actual vs forecast. The latter should be possible with a simple	No RFP revisions.

			reference it to any other requirement. Is it possible to get a cross-reference table of how data from external interfaces map to other requirements in other sections?	table in a User display and the calculation package to determine and display the delta. A cross reference table does not exist. Forecast data is only used for visualization purposes against actual values"	
70	1/27/14		ID 12-053: What is the use case for Meter data? How is meter data mapped to Energy accounting. Are meters to be modeled in model manager and mapped to SCADA ?	SCL is receiving MWh Tie-Line meter data via EIDE from its neighboring utilities (for those meters owned by that utility). Currently the EIDE data exchange is handled by PowerOps and the meter data sent to the EMS via database (Sybase Open Server) access. The meters should be modeled in SCADA and mapped to Energy Accounting – but with the also required EIDE interface the delivery mechanism will change.	No RFP revisions.
71	1/27/14		The monitor/displays SCL have requested are 30” LED monitors. This size/type is not common to the market. More common are 27” and 32” displays. Is this a strict requirement or would SCL accept the more common display sizes?	SCL will be open to more common display sizes	No RFP revisions.
72	1/27/14		Requirement 09-751 says that the Rotating Load Shedding functionality considers the Cold Load Pickup value of the feeders selected for restoration during selection of the next feeders to be shed to enable a consistent amount of shed load.	The expected cold load is calculated as: Current Load * (1 + a * (1 – exp(-1 * b * t))) With configurable factors “a” currently set as 1.0, “b” = 0.02 based on an “expert guess”. These factors may need to be tuned. “t” is the outage time based on selected	No RFP revisions.

			Can Seattle City Light (SCL) provide the Vendor the algorithm that Rotating Load Shed should use with the Cold Load Pickup value of the feeders, when deciding which feeders should be shed next?	rotation period [seconds]. The calculated value is then capped to a individually configurable maximum.	
73	1/27/14		Requirement 11-019 indicates the requirement to support "virtual (logical) generating units". Virtual units can be used for a variety of issues. How does SCL use them?	SCL uses VGU's to integrate dynamically scheduled generation units into SCL's Balancing Area. Reference Section 12.1.1 OATI DSS – EMS System Interface (Interface 01)	No RFP revisions.
74	1/27/14		Requirement 11-049 states that the AGC function should support the control model "Motoring – The unit is online and controlled by AGC as a 'motoring load'. In this mode, AGC sends negative control signals." When a unit is motoring can it take part in regulation or load following or is it simply controlled to base level set by the operator or an external scheduling tool? Can AGC automatically switch the unit from generating to motoring and vice-versa, or is there operator interaction involved?	See also answer to question #59. It should be possible to have the unit take part in load following in an "assist" mode - only if resources of "regulating" mode units are exhausted. The unit will be switched to motoring manually by the Dispatcher, but go to generating automatically (see above).	No RFP revisions.
75	1/27/14		Requirement 11-075 asks for "High Limit Estimated Value Calculation/telemetry and MW Curtailment" for Wind Resources.	SCL currently has no wind generation however the system needs to account for the potential addition of resources.	No RFP revisions.

			This seems to be the only mention of this type of processing in the spec. Is the Estimated High Limit to be calculated or telemetered? If calculated what data is available to support the calculation (e.g., wind speed, etc.)? Does MW Curtailment simply require being able to control to a manually entered basepoint or is a more complex scheme envisioned?		
76	1/27/14		Requirement 11-083 states "The reserve monitoring function also computes self-supply and third party supply operational reserves using business rule engine or standard reserve options. See Appendix C for more information about this." We do not seem to have an Appendix C, is there one?	Please see question #36.	No RFP revisions.
77	1/27/14		Requirement 19-001 states "Provides capability to restrict a hydro unit's economic base point and operating range to comply with water flow constraints defined by the Plant Operation Permit (e.g. Skagit River License Agreement). These constraints may vary by month and effect	The Min and Max Flow values are currently manually entered based on operating procedures, but they may come from an external source in the future. So the option of using externally supplied schedules needs to exist.	No RFP revisions.

			minimum flow, maximum flow, maximum ramp rate, and daily average flow at an agreed flow gage and may be complicated by side stream(s) between the plant and the gage." Are the Min and Max Flow values simply manually entered or do they come in automatically from some external source?		
78	1/27/14		Requirement 19-001 discusses the different choices for NSI profiles. From other references it is understood where the ACES and KGITS values come from. Where do the Start/Stop values come from?	Start/Stop values were coming from the EMS native Short Term Interchange Transaction Scheduling application and were manually entered by the dispatchers. These were used for mid-hour emergency contracts and are obsolete.	No RFP revisions.
79	1/27/14		For this requirement, what is the source of the Interchange Schedule data and in what format can the Vendor expect the data to come in? Can SCL share with the vendor a sample file of this format?	It is not a file, the Start/Stop values were manually entered (see above).	No RFP revisions.
80	1/27/14		The RFP says "The successful vendor must have capacity to furnish a Contract Bond (performance and payment) or a letter of Credit, as approved by the City, in an amount equal to 100% of the contract price plus sales or use tax". Can the Vendor provide a Parent Company Guarantee instead of a	Please see question #1.	No RFP revisions.

			Contract Bond?		
81	1/27/14		Based upon the SCL Vendor tour on January 22, 2014 the Vendor understands that SCL would like to re-use as much of the existing hardware as possible. Would SCL please provide the Original Equipment Manufacturer (OEM) model number and sizing (CPU, memory, disk) information of the existing servers and workstations. If other equipment (e.g., time standards, network switches, firewalls, etc.) is expected to be re-used, please provide this equipment information also.	SCL does not anticipate using the existing servers or workstations. For Hopf clock system see question #2. For Mapboard controller see question #45. For network equipment we use various standard Cisco devices which may be upgraded for the new EMS. If you anticipate any incompatibility issues please specify the requirements in your proposal.	No RFP revisions.
82	1/27/14		Please confirm whether the vendor can use the server cabinets provided by SCL, since SCL will be renovating the server rooms and putting in new server cabinets.	SCL will provide the cabinets accordingly	No RFP revisions.
83	1/27/14		Please confirm if SCL will send the SCL-provided networking equipment to the vendor location for factory staging and integration. If only a portion of the equipment can be sent to the vendor's location, please specify which items will and will not be sent.	We will send whatever network equipment that is needed	No RFP revisions.
84	1/27/14		Please confirm the responsibilities for building/converting existing one-line displays. Section 8.11 specifies that they will be developed by SCL, however, section 4.2.3.4 specifies the vendor shall convert displays. If the vendor is to convert the existing displays, please specify the quantity	"The idea is to identify vendor experience and capabilities for converting existing one-line and tabular displays. However, SCL does expect to refresh and add new displays as needed. The current count of displays is around 450	No RFP revisions.

			of displays to be converted.		
85	1/27/14		Please provide further clarification regarding the operations and disaster recovery of the Primary Control Center (SCC) and Secondary Control Center (BCS) sites. Under normal conditions, do both systems simultaneously scan and process data actively for RTU's pertaining to their site, with the opposite site acting as a standby? Or does only one site actively scan and process data at a given time?	Under normal conditions only the Primary Control Center (SCC) scans (polls) the RTUs in the field. As mentioned in various places the BCS is operating in Listen mode and does not send out any requests (scans or controls) and only "eavesdrops" on the responses by the RTUs using the L&G8979 protocol. The single RTU using the DNP3 protocol currently only reports to the SCC; The EMS frontend forwards the data to the BCS.	No RFP revisions.
86	1/27/14		Please identify which 3rd party tools SCL plans to provide, and what SCL expects the vendor to supply (i.e. RSA authentication, Tripwire, SNARE, etc.).	SCL will purchase all 3rd party software. But we expect the vendor to provide recommendations as to which software is most compatible with their system	No RFP revisions.
87	1/27/14		How current is the existing network model? How often does SCL update it with the most recent WECC model?	Do not have the sufficient information from the vendor to answer the question.	
88	1/27/14		Does SCL have detailed dynamics models readily available for the Dispatcher Training Simulator?	SCL has dynamic data models available in GE PSLF format, however nothing is currently in the DTS	No RFP revisions.
89	02/12/14	02/12/14	** UPDATED 02/12/2014 ** A bond is no longer required for this project. A Parent Company Guarantee will not be necessary.	** UPDATED 02/12/2014 ** A bond is no longer required for this project. A Parent Company Guarantee will not be necessary.	• Delete entire Section 6, "Contract Bond". • Section 11, delete "Letter of Commitment for Contract Bond (Mandatory)". • Section 11, Table 3 – SUBMITTAL CHECKLIST, delete "Letter of Commitment from Bond Agency".

Updated on 02/12/2014
