Solicitation No. 6400017024 - Sewage Treatment Plant Design/Build
Question/Answer/Clarification

Date	Number	Clarification Required	Response by Company	Response Date
4/26/2021	1	For Alternative Options 1 and 2, is it expected/required that the respondent provide pricing based solely on the previous design drawings or is there any opportunity/expectation that the design for these options be modified/optimized by the respondent?	**The expectation is that the Options be priced based on the current design.**	5/5/2021
4/26/2021	2	If bidder proposes to use alternate or equal suppliers for major equipment, is that allowed and would these be added to the bid form as items 3.1, 3.2, etc?	**The intention is that the work be priced based on the requirements defined in the solicitation (e.g., the STP Modernization Design Build Specifications, Summary Scope of Work, etc. It if bidder chooses to offer exceptions to the solictation requirements, those should be articulated and justified in the technical proposal for consideration by the Company, and to the extent exceptions information is relevant, can be noted on the Bid Form.**	5/5/2021
4/26/2021	3	Can pre-cast concrete be utilized for any of the process basin structures?	**Use of pre-cast concrete would need to be evaluated for suitability of purpose, functionality, and longevity based on constructed configuration. For example, a small-size basin comparable to the bottom of manhole, precast as a single piece from appropriate materials of construction would likely be acceptable. Conversely, a large basin with walls assembled from multiple pre-cast pieces and containing multiple joints would likely be less suitable for the intended purpose and functionality.**	5/5/2021
4/26/2021	4	Confirm information provided in Section 11211 of the specifications provided in Appendix 3 are correct for the Intermediate Pumps or provide O&M information, including number of pumps, sizes, performance curves, VFDs, operating levels, drawings, etc.	**Information is available in attached file: STP Supplemental Information Package #1**	5/5/2021
4/26/2021	5	Is there a specific capacity requirement for the Digested Sludge Transfer Pump(s) to transfer sludge from aerobic digester to the Dewatering system?	**7-10 gpm at 2-4% solid concentration**	5/5/2021
4/26/2021	6	Do the design flow 0.4/0.5/0.9 MGD already include allowances for sidestreams flow (filter backwash, digester decant, dewatering drainage)? Sidestream flow would typically be assumed to be around 10% of plant flow. This would affect sizing of process units and equipment.	**Yes**	5/5/2021
4/26/2021	7	Section 018100 Facility Performance Requirements Para. 1.9 summarizes influent wastewater quality from the period 2018 -2019. Text indicates this data is subject to be updated. (1) is updated information available? (2) Please provide raw data used to develop this summary.	**For design planning purposes, please utilize the 2018/2019 data as the basis for the project requirements. The more recent 2020 data do not reflect normal conditions/inflow because a large fraction ofthe ORNL population (~50%) was off-site working from home. Additional information is available in attached file: STP Supplemental Information Package #1**	5/5/2021
4/26/2021	8	Section 018100 Facility Performance Requirements Table 1.2 indicates values for TKN and NH4-N are assumed. Since this information is critical to the sizing of the system. Please provide at least two weeks of actual influent sampling data for these constituents, as well as concurrent BOD, COD and TSS data for analysis.	**2020 inflow data are not reflective of normal year operating conditions because a large fraction of the ORNL population (~50%) was off-site working from home.**	5/5/2021
4/26/2021	9	Section 018100 Facility Performance Requirements Table 1.3 provides current wastewater flow information. Please provide raw data used to develop this summary. Also please provide any diurnal flow information available.	**Raw data not available. Normal Lab operating hours are between 6:00am - 6:00pm, Monday through Friday -- the daily periods during which sewage inflow is highest. Additional flow information is available in attached file: STP Supplemental Information Package #1**	5/5/2021
4/26/2021	10	Section 018100 Facility Performance Requirements Table 1.4 provides future effluent limits for design. Has the new NPDES permit been issued? RFP references this revised permit would be available in March 2021, if so please provide a copy.	**A prelimianry draft of the TDEC NPDES permit effluent requirements has been provided as part of the solictation documents for use as the current basis for design. This draft permit is expected to be made available for public review in the May/June 2021 timeframe by TDEC. Following public review, TDEC expects to issue the NPDES permit. Preliminary indications are that TDEC anticipates it is unlikley there would be substantial basis for significant changes from the effluent requirements identified in the draft version of the permit. If the final, issued permit were to have any significant changes that would substantively impact the design of the facility, the impacts of those permit changes would be considered a basis for negotiation of a subcontract change order.**	5/5/2021
4/26/2021	11	Section 018100 Facility Performance Requirements, Table 1.8 provide SBR Design Criteria but does not provide criteria for influent loading. Should in the influent concentrations presented in Table 1.2 be assumed for future influent concentrations?	**Yes**	5/5/2021
4/26/2021	12	It appears from the record documents that the intermediate pump station does NOT have firm capacity to handle 0.9 MGD OR any additional sidestream flows. Does the bidder need to upgrade the intermediate pump station to provide firm capacity for the design maximum day flow to the base bid SBRs or are improvements to the intermediate pump station that would be included in the base bid only for increases in discharge head to the proposed SBRs and NOT for flow capacity?	**If improvements to the Intermediate Pump Station are required to achieve necessary discharge head for the intended design of the SBRs, that should be included in the base bid price. Any additional improvements to the Intermediate Pump Station to achieve future maximum potential flow capacity of the secondary beyond the current nominal inflows should be included in the pricing of Option 3.**	5/5/2021
4/26/2021	13	For Additive Alternate Option 3, does the "SBR peak future flow capacity" refer to the maximum day flow of 0.9 MGD and not a peak hourly flow or future 50% additonal SBR capacity? Please clarify what flow rate is intended for this Alternate Option.	**PHF = 1.92 MGD. Refer to Attachment 4, Section 010100 General Requirements 1.1C**	5/5/2021
4/26/2021	14	Confirm the existing west lagoon (or Additive Alternate Option 1 Influent Equalization Tank) will handle flows greater than 0.9 MGD	**Yes, until they are full. The west lagon has an approximate capacity of 840,000 gallons (60" at 14,000g/in).**	5/5/2021
4/26/2021	15	Are direct-driven motors acceptable for PD Blowers?	**Yes**	5/5/2021
4/26/2021	16	What are acceptable manufacturers for coarse bubble diffusers for the Aerobic Digester?	**Refer to section 11376 (air diffusers) for aerated sludge holding tank in attachment 4. Section 1.1D refers to acceptable systems.**	5/5/2021
4/26/2021	17	Can motor starters for small motors, such as filter backwash pumps, be located in local control panels adjacent to the process area.	**Yes -- assuming they are appropirately protected in accordance with appliable codes and standards (e.g., weather-proof, explosion-proof as required, etc.).**	5/5/2021

Solicitation No. 6400017024 - Sewage Treatment Plant Design/Build
Question/Answer/Clarification

Date	Number	Clarification Required	Response by Company	Response Date
4/28/2021	18	Should the Alternate Option 1 (Infl. EQ Tank) be installed according to the 2015 plans and specifications?	Yes. Please also refer to Question #1 above.	5/5/2021
4/28/2021	19	Should the Alternate Option 2 (Infl. EQ Tank walkway) be installed according to the 2015 plans and specifications or should a new design be prepared by the Deign-Builder?	Yes. Please also refer to Question #1 above.	5/5/2021
4/28/2021	20	Please provide pump curve(s) and target operating points for the existing intermediate pump station.	Information is available in attached file: STP Supplemental Information Package #1	5/5/2021
4/28/2021	21	Is the Design-Builder required to name equipment manufacturer in the proposal?	Yes (as noted in Section H, subsection "Key Subcontractor"): Vendor(s) providing SBR Technology/Systems/Controls, Blowers, Tertiary Filters	5/5/2021
4/28/2021	22	Is the electrical/MCC equipment required to be in a standalone building?	No. It can be in an appropiriately isolated/controlled purpose-built room with appropirate protective systems within a larger multi-purpose structure if that offers design/construction or operational value.	5/5/2021
4/28/2021	23	On the optional proposed layout, the PAA contact basins and the effluent flume are shown within the 30' buffer. Is this permissible or do they need to be outside the buffer?	It is preferable that they be outside the buffer if possible.	5/5/2021
4/28/2021	24	Peaking factor provided is peak day. What is the required peak hourly flow (pumping rate)? Relates to Alt 3 – Intermediate Pump Station Upgrades	PHF = 1.92 MGD. Refer to Attachment 4, Section 010100 General Requirements 1.1C	5/5/2021
4/30/2021	25	For clarification, it is not a requirement to use union labor out of the union halls for any of the trades, but we are required to pay Davis-Bacon wages, and all companies (including subcontractors/vendors) need to become signatories to the Construction Labor Agreement?	That is not correct. Per the Solicitation and Offer-Construction document, Section H - Special Provisions, Subsection Construction Labor Agreement, the Seller and its lower-tier construction subcontractors are required to become signatory to the Construction Labor Agreement.	5/5/2021
4/30/2021	26	Is the small business 23% requirement of the total contract value or of the planned subcontracted dollars?	The intention of the Small Business Subcontracting Plan is to demonstrate that 23% of the Seller's subcontracted value work should reflect the goal of being allocated to small businesses (i.e., the goals should reflect the minimum set by the SBA for federal government contracting, which is 23% for small business, including the additional socioeconomic sub-category goals).	5/5/2021
4/30/2021	27	Can the PAA pilot report and pilot data be provided for review?	Yes, the pilot scale test results report is attached file: STP Supplemental Information Package #1	5/5/2021
4/30/2021	28	Confirm, the buildings in the location of the optional pre-eq tank included in the existing demo package	There are no buildings in the planned location of the Influent Equalization Tank requiring demolition.	5/5/2021
4/30/2021	29	Confirm, if our design shows that utilities, electrical lines overheads have to be relocated, that would be handled by on-site personnel?	The ORNL intention is that no significant relocation of utilities be required for this project (particilarly costly utility reloation work such as the overhead high voltage power & fiber optic communication lines on the pole line adjacent to 1st Street. Barring cost-prohibative constraints counter to that intention, the design treatment system configuration should designed to fit within the available footprint east of the existing overhead power/comm lines adjacent to 1st Street).	5/5/2021
5/10/2021	30	Attachment 2, Section 01 81 00, Item 1.14.B references a pilot study for the PAA System. Can we get this pilot study?	The pilot study has been provided (see Supplemental Information Package #1 added to the ORNL STP Sollicitation website on May 6, 2021.	5/13/2021
5/10/2021	31	Please provide any drawings and/or data sheets for the existing PAA system equipment.	LVS-B system was originally installed. It has been modified from QDOS60 pumps to QDOS30 pumps. LVS-B, QDOS Manual, peragreen 22WW cut sheet, air monitor (Steri-trac), and drum stand. See STP Supplemental Information Package #2.	5/13/2021
5/10/2021	32	Please provide single line drawings of the existing electrical system.	New loads (the electrical building, etc.) shall be provided with a new service, fed from the existing 13.8KV distribution system. The service will be supplied by a padmount transformer. The transformer will be supplied and installed by the Company (ORNL). Seller shall provide primary riser/ductbank, padmount precast transformer pad, and secondary ductbank/cables. Medium voltage cable shall be provided and installed by Company. See drawing E3D020002F518 for the 13.8KV distribution system in STP Supplemental Information Package #2. Exact location where 13.8KV riser pole will be determined during design.	5/13/2021
5/10/2021	33	Spec 01 86 26 Paragraph 3.2(A)(2) Fiber Optic OSP indicates 48 strand OS2. Record drawing from 2015 block diagram indicates 12 strand multimode for the OSP. Has OSP been updated? Is a new network block diagram available?	Provide OS2 optical fiber as specified. No network block diagram is available.	5/13/2021
5/10/2021	34	Spec 01 86 26 Paragraph 3.3(C) requires reinforced duct banks for communication fiber duct per ES-8-4. Please provide a copy of ES-8-4 to determine rebar requirements and concrete requirements.	ES-8-4 pdf provided in STP Supplemental Information Package #2	5/13/2021
5/10/2021	35	Please provide pump curves and cut-sheets for the Intermediate Pump Station pumps.	Pump curves and cut sheets have been provided (see Supplemental Information Package #1 added to the ORNL STP Sollicitation website on May 6, 2021.)	5/13/2021

Solicitation No. 6400017024 - Sewage Treatment Plant Design/Build
Question/Answer/Clarification

Date	Number	Clarification Required	Response by Company	Response Date
5/10/2021	36	Spec 01 86 26 section 3.3 - There are three levels of standby systems defined by the National Electrical Code and referenced here. They are emergency, legally required and optional. Clarify that based on these code designations, the loads on the emergency standby system will only be egress lighting, egress exit signage, fire alarm and fire suppression control panels, SCADA control panels and racks, and telecommunication racks, and these will be backed up with individual batteries and UPS units with the NFPA minimum required backup time and a generator NEC 700 compliant system is not intended by this section and no industrial loads and no HVAC loads are required to be on NEC 700 compliant system.	**The entire SBR plant shall be served by optional standby power as indicated in section 01 81 00, paragraph 1.3, B, 9. A permanent docking station (for a portable generator-not in contract) with manual transfer switch shall be provided, sized for the rating of the geneator, and connected such that a portable generator will supply all loads served by the generator. Emergency power may be provided by the same generator (separate breaker) or by battery back up in the case of emergency egress and directional signage lighting and fire alarm control panel (FACP Is always provided with batteries regardless of type of source). If an emergency branch is not supplied by the generator, the fire alarm panel shall be served by optional standby power. All interior lighting shall be provided by optional standby power.** **The specified UPS in the network rack is required.** **The designer shall be responsible for determining if any conrol system or plant function will fail to operate or automatically restart in the event of a temporary power loss while transferring from normal power to standby geneator power. If this scenario requires a UPS to ride through the transfer, than a UPS shall be provided. It is not intended for the UPS to be sized for the SBR plant, just the necessary control systems for the plant to resume operations if the control system is not capable of automatic restart after an outage.**	5/13/2021
5/10/2021	37	Spec 01 86 26 3.3(D)(2) - Clarify that there are no UPS systems large enough in capcacity required to trigger the need for NFPA 855 compliance.	**There are not.**	5/13/2021
5/10/2021	38	What is the Actual Surface elevation of boring B2	**No detailed civil survey of the geotechnical boring locations was performed. However, the approximate elevation of Boring 2 can be estimated from the topographical information provided in Solicitation Attachment 5. If more precise elevation information would make a substantive difference in the Offerors' evaluation of scope and pricing, please advise -- and ORNL could arrange for obtaining that elevation data.**	5/13/2021
5/10/2021	39	Please confirm that the new electrical building will only serve new loads being added for the new sewage treatment plant. We are requesting this clarification because re-feeding any of the existing buildings from the new electrical system would require a very expensive field survey and fault study in order to demonstrate that the existing equipment meets the new fault current from the new utility connection	**The new electrical building shall only serve new loads for the new sewage treatment plant.**	5/13/2021
5/10/2021	40	In reference to Section 3, Project Experience and Past Performance " Federal Design and Construction Experience", are municipal Waste Water Treatment Plants acceptable as relevant projects as long as they meet other requirements?	**You may provide applicable examples of experience -- particulaulary where they demonstrate characteristics similar and/orr applicable to federal work (prevailing wage laws, labor contract requirements, compliance with similar governmental laws and standards, etc.)**	5/13/2021
5/10/2021	41	Please confirm it is acceptable to create resumes and project descriptions as long as we meet the RFP requirements.	**The only restriction defined in the solicitation is that the Technical Proposal should not exceed 50 pages, excluding personnel resumes. How these products are developed/created are at the Offer's discretion.**	5/13/2021
5/10/2021	42	Boundaries and Tie-points on Process Flow Diagram. Can you confirm the tie-points/boundaries for the **primary scope** of work are: 1) downstream of the Wet Weather Flow Diversion Modular Wier, 2) upstream of the Tee between the Dewatering Fan Press and Sludge Holding Tank (Emergency Only), 3) In the filtrate return line downstream of the Drying Beds, & 4) The new outfall? Drawing provided for reference. Items obscured are to be excluded from pricing.	**See Sketch mark-up in STP Supplemental Information Package #2** **The intermediate pumps, wetwell and controls are existing. Seller to ensure sizing is adequate to deliver sewage to their proposed SBR.** **1. Downstream of intermediate pump station in the force main.** **2. yes** **3. Influent Pump Station prefered. The decant could be anywhere in the pipe between the drying beds and the influent pump station or the shorter distance to the Influent Pump Station.** **4. yes**	5/13/2021
5/10/2021	43	Boundaries and Tie-points on Process Flow Diagram. Can you confirm the tie-points/boundaries for the **Alternate 1 Scope EQ Basin** are: 1) Downstream of the Wet Weather Diversion Modular Wier and 2) a Tee on the suction side of the Intermediate Pump Station between it and the Wet Weather Diversion Modular Wier? Drawing provided for reference. Items obscured are to be excluded from pricing.	**See Sketch mark-up in STP Supplemental Information Package #2.** **1 confirmed** **2. manhole 200D, upstream from the wetwell of the Intermediate Pump Station**	5/13/2021
5/13/2021	44	Will site surveying data be available either A) during the solicitation or B) after selection, or C) the offeror needs to provide their own design-phase site surveying ?	**General area site topographical information is available in the original solicitation (Attachment 5). The offerer should arrange for their own site survey with appropriate elevation granularity to meet their design neeeds.**	5/13/2021
5/13/2021	45	Can a specific location on the site plan be provided for where the sludge transfer pump discharge will tie into the existing sludge process or record drawings be provided for the sludge building?	**This was answered in #42 question 2 (drawing with connection point noted)**	5/20/2021
5/13/2021	46	Is a level monitoring signal required for 55 gallon drum storage of PAA, since it's not a "bulk tank"?	**The drum will not require level signal to be transmitted to 2536 but it does need to have a way monitor the tank level (sight glass, etc).**	5/20/2021
5/13/2021	47	Are tabloid format (11x17) pages allowed in the Technical Proposal? If allowed, will they count as one or two pages?	**If a tabloid format page will facilitate the Offer's abilty to provide an appropriately detailed/complex graphical representation of the Offer's concepts, and if that page contains primarily graphics information, it will be considered one page. If the tabloid format is used to provide primarily words/text, it will be considered two pages.**	5/20/2021
5/13/2021	48	May Offerors include in their Technical Proposal appendices that would contain drawings, schedule charts, and other exhibits that would not count toward the proposal page limit?	**An appendix of no more than 10 pages of graphical representations of the offeror's concepts may be included. Appendix pages that are primrily words/text will not be reviewed.**	5/20/2021

Solicitation No. 6400017024 - Sewage Treatment Plant Design/Build
Question/Answer/Clarification

Date	Number	Clarification Required	Response by Company	Response Date
5/13/2021	49	The existing PAA facility includes an eyewash/shower, which is consistent with the first aid recommendations from the SDS for the two PAA products that were piloted. Please confirm the new PAA facility shall be provided with a new eyewash/shower with tepid water, furnished as part of this scope.	**The new PAA facility will need an eyewash/shower.**	5/20/2021
5/13/2021	50	Should power monitoring be provided on swithcgear/MCC? If so, should the information be hardwired or ethernet connected to CEF main control panel?	**Power monitoring can be integrated into the swichgear/MCC or it can be a standalone PM8000 if the gear is not Schneider/Square D. ed.zientek@schneider-electric.com can provide you info/quote for ORNL standard PM8000 assembly. The meter is ethernet connected. It will require ethernet cable in condiut from the meter to the network rack. ORNL/Company will provide a dedicated network switch to serve the PM8000.**	5/20/2021
5/13/2021	51	The existing PAA facility includes online measurement of H2O2 and PAA. The RFP was not clear whether online probes were required and whether residual concentration signals are intended to be communicated to Building 2536 for monitoring. Please confirm that new online probes for H202 and PAA, similar to what is currently installed in the existing facility, shall be installed in the new PAA facility, along with a necessary associated sample pump and appurtenances, shall be included in the scope of the Designer-Builder and whether signals from those probes are intended to be communicated to Building 2536.	**Online probes are required and do need to be communicated to Building 2536 for monitoring.**	5/20/2021
5/13/2021	52	If the intermediate pump station is to be used to pump to the new base bid SBRs, is the maximum flow required 0.9 MGD? Would that be required to be the total capacity of the pumps or firm capacity with one pump out of service?	**Intermediate Pump Station firm capacity needs to be at least 0.9 MGD in the base bid.**	5/20/2021
5/13/2021	53	In reponse to an RFI regarding the required capacity for Alternative Option 3, it was indicated that the PHF = 1.92 MGD. It's unclear if that was intended to indicate that this is the required flow rate for the Intermediate Pump Station for Alternative Option 3. Our presumption would be that this capacity would be 1.35 MGD (0.9 MGD + 50% additional future SBR capacity). Please clarify.	**1.92 MGD is the correct capacity for the intermediate pump station Alternative Option 3. Verification of pumps at intermediate pump station working with proposed basin design will also be needed.**	5/20/2021
5/13/2021	54	The CLA references in Article X, Section 2 updating wage and fringe rates by May 1 of each year. The agreement still has the 2020 rates. Could we receive updated rates for 2021?	**The updated CLA with current wage rates is now on the ORNL Procurement website: https://contracts.ornl.gov/documents-index/. The CLA total wage and fringe benefit package increase that became effective May 1, 2021 is 2.6%.**	5/20/2021
5/13/2021	55	With questions allowed to be submitted until May 28, the challenge will be to distribute answers, once received, to the applicable vendors and subcontractors and then receive return responses in a sufficient time to permit proper evaluation. Since answers to these questions may dramatically impact our design approach and/or construction costs, we respectfully request that receipt of questions remain May 28, but the bid period be extended an additional two weeks to June 29.	**ORNL has allowed >2 weeks between the the close of the 'Questions' period and the proposal due date. Unless questions asked at the end of the 'Questions' period are numerous, imply significant impact on bidder design concepts & proposals, or take more than 2-3 days for ORNL to answer, or unless, if as discussed during the pre-bid meeting there are numerous requests from multiple offerors for an extension to the due, and if from the justification of those requests ORNL concludes it would be in the government's interest to extend the proposal due date, the due date will remain June 15th, 2021, noon.**	5/20/2021
5/18/2021	56	The Maximum Month Flow (MMF) in Table 1.8 in Section 01 81 00 is 0.50 MGD but Section 01 81 00.01, Process Flow Diagram shows the MMF as 0.75 MGD. Please clarify the design MMF value.	**0.75 MGD is the correct Maximum Month Flow**	5/20/2021
5/19/2021	57	Are bolted tanks an acceptable economical alternative to reinforced concrete for this design?	**No, bolted tanks are not an acceptable alternative.**	5/20/2021
5/19/2021	58	Will ORNL procure construction phase testing for geological and civil considerations?	**No. All field testing required for construction should be performed by the Offer. Please also refer to the Summary Statement of Work (attachment 1 to the solictation), Section 1.0, subsection 13 which reads: With regard to special inspections or testing associated with construction field operations, ORNL waives primary jurisdiction to directly retain its own special inspection and testing services (e.g., soils, structural steel inspection, concrete testing, etc.). All these special construction inspection and testing services that are required to meet applicable construction codes and standards shall be provided by the Seller utilizing inspection and testing agencies that are approved by ORNL.**	5/20/2021
5/19/2021	59	Will ORNL retain their own QA geotechnical engineering?	**No; see also response to Question 58.**	5/20/2021
5/20/2021	60	Please provide the design flows for the specified digested solids rotary lobe pump and in-line grinder.	**7-10 gpm at 2-4% solid concentration (question 5 above)**	5/21/2021
5/20/2021	61	Please advise if proposal cover pages and index tabs count in the overall page count (50 page limit) of technical proposal.	**The cover page and index tabs serving only as a section divider with no content do not need to be counted as part of the 50-page limit.**	5/21/2021
5/21/2021	62	Influent data: The RFP requires development of a BioWin model. a.This requires actual influent data and the RFP provides textbook typical data for an average residential community (M&E 5th edition typical medium strength waste) for total nitrogen, ammonia, nitrate/nitrite, and phosphorus. Can the government provide actual influent data? ORNL is not a typical residential community and likely does not have typical residential community waste strengths. b.Influent BOD5 data provided is reported as calculated from COD. Please provide actual laboratory analysis for BOD5. c.The BioWin model requires alkalinity and pH data as inputs. Can the government provide these for either the wastewater or the related public water supply?	**The goal of the RFP is to include a BioWin model development in the project scope, but actual influent data is not available yet.**	5/27/2021

Solicitation No. 6400017024 - Sewage Treatment Plant Design/Build
Question/Answer/Clarification

Date	Number	Clarification Required	Response by Company	Response Date
5/21/2021	63	Flow Questions Table 1.3, Table 1.8, and Section 01 81 00.01 Process Flow Diagram graphic provide inconsistent description of design flow. Please confirm that all unit processes are to be designed to the following flow criteria (as shown in table 1.8): •Annual average daily flow 0.4 MGD •Max month average flow: 0.5 mgd •Peak day flow: 0.9 mgd	**Please see response to Question 6**	5/27/2021
5/21/2021	64	The new draft NPDES permit was supposed to be available in March. Can the government provide a copy?	**Please refer to Question 10 above.**	5/27/2021
5/21/2021	65	There is reference to a PAA study and to reuse of the existing PAA facility. a.Can the government provide a copy of the study and drawings of the existing facility? b.Does the facility meet the requirement of being above the 500-year flood elevation? If not, does this project require adjusting existing facilities to be above the 500-year flood elevation? c.A 50-minute detention time is called for, but it is not clear if this is at the 0.5 MGD or 0.9 MGD flowrate. Please specify.	**a. PAA system technical information was provided in STP Supplemental Information Package #2 (see question 31).** **b. Existing PAA facility is NOT above the 500-year flood elevation** **C. 0.9 MGD** **NOTE: It is the intention of this RFP to REPLACE the PAA facility with NEW located near the new outfall. DELETE reference to REUSE existing PAA facility.**	5/27/2021
5/21/2021	66	The filters are to be provided with redundancy. Is that redundancy for average flow or peak day flow?	**Average flow**	5/27/2021
5/21/2021	67	There is a requirement to construct facilities above the 500-year flood elevation. Is this a protection elevation or does the facility also have to be operational at the 500-year elevation? (For clarification both the Clean Water Act and the Ten States Standard require POTWs to be protected to the 100-year elevation, but they only have to be operational at the 25-year elevation.) Please confirm that 500-year is the correct protection level and provide the operational level. Please confirm that the new portions of the facility shall be designed to remain fully operational and accessible during the 500-year flood as implied by the requirements of the motive pumps in 1.16 of Facility Performance Requirements.	**The Facility is required to be operational up to the 500-yr flood elevation. Yes, this requirement is above both the Clean Water Act and the Ten States Standard.**	5/27/2021
5/21/2021	68	The proposed work (including add alternates) may require modification of one or both of the influent and intermediate pump stations. Can the government provide drawings of these, pump curves and a summary of the hydraulics?	**Information is available in attached file: STP Supplemental Information Package #1 (see Question 4)**	5/27/2021
5/21/2021	69	The soils data provided shows significantly unsatisfactory material and may result in significant undercut and/or deep foundations being needed. Is any additional soils data available?	**No additional geotechnical data is available.**	5/27/2021
5/21/2021	70	Add alternate 3 calls for expanding the influent pump station to a future capacity. What is that future capacity?	**Please see Question 13.**	5/27/2021
5/21/2021	71	Is it the intent that the maximum month load to the SBRs (basis for sizing) be calculated by applying the maximum month concetrations (listed in Table 1.2 in Attachment 2) to the maximum month flow rate (clarified in the recent RFI responses as 0.75 MGD)? If not, what maximum month to average month peaking factor should be used to determine Maximum Month Loading for each constituent in Table 1.2? The average month loading for each constituent is calculated from the average day flow of 0.4 MGD and the concentrations in Table 1.2. Please clarify.	**Use the maximum month concentrations and the maximum month flow rates.**	5/27/2021
5/21/2021	72	In attachement 2, 01 80 80 4.e, it is noted "Design Development (60%) submittal shall be an edited version of the Construction Specification with all edits highlighted using MS Work Track Changes or similar." a) Will the Company be providing standard or guide specifications that are intended to be modified by the Designer Builder and submitted for review with track-edit changes? b) Is it the intent whether provided in editable format for not, that the specifications provided in Attachment 3 and 4 be used as a basis for technical specification Sections 2 through 46? c) Will any specs provided to the Designer Builder, including those provided in Attachments 2-4, be free of any copyright that would prevent us from issuing them for construction on this project under our stamp? d) For specifications provided by the seller, is it acceptable to submit specifications in PDF format? If the intent is for changes between submittals be tracked and made clear to the Company for review purposes, tracked changes can be made on the submittal PDF.	**a) No, successful bidder may use their standard specifications format. If utilizing any existing ORNL-format documents would be mutually beneficial to project execution, it would be acceptable to make arrangements to do so.** **b) No, successful bidder may use their standard specifications format (with the expectation that the specification content will meet the requirements of the ORNL/UT-B subconttract).** **c) ORNL specifications provided are free of copyright.** **d) Yes, specifications may be submitted in pdf with tracked changes.**	5/27/2021
5/21/2021	73	In Attachment 2, The Design Requirement specs numbered 01 08 00 thru 01 89 19 contain information that we would typically locate within technical spec divisions 02-46. If the topics are sufficiently covered in the Attachment 2 specs provided by the Company and those are issued per above question, is anything else expected?	**The Company requires a complete Construction Specification (CS) for archiving with the project. Seller may incorporate Attachment 2 requirements into their CS in a manor that conveys the design requirements. i.e. Insert as pdf, word doc, edit Sellers existing CS, etc.**	5/27/2021
5/25/2021	74	Are the approved manufacturer and acceptable manufacturer sections of each process system in lieu of a Buy America, Buy American or AIS requirement and will products supplied by these manufacturers be acceptable regardless of country of origin?	**The U.S. Government requires that an American-made product be used. If there are no American made products that suit the needs of the project then ORNL will work on obtaining a foreign determination.**	5/27/2021

Solicitation No. 6400017024 - Sewage Treatment Plant Design/Build
Question/Answer/Clarification

Date	Number	Clarification Required	Response by Company	Response Date
5/25/2021	75	Is current domestic water pressure and volume sufficient for anticipated general process wash needs? Is a tank/pump option desired as an alternate?	**Water pressure in Bethel Valley is normally around 75 psi. There are 2 potential water connection locations - to the north and west of the SBR site. Both pipes are 8".** **Yes, water pressure and volume are sufficient.** **No, tank/pump is not a desired option.**	5/27/2021
5/25/2021	76	We request that the proposal due date be extended a minimum of 2 weeks due to the fact that this month we have an extremely high volume of bids/proposals and we would like to give each project our full attention.	**Given the number of requests for an extension of the due date for proposals, two weeks are being added to the bid period. The new date and time that proposals are due: Tuesday, June 29, 2021, noon.**	5/27/2021
5/25/2021	77	Contractor requests a two (2) week bid extension from the current due date of 06/15/2021 to 06/29/2021. Multiple RFI responses have caused impacts to design criteria. Additional time is needed to adequately evaluate these changes, update design criteria, coordinate with process equipment vendors and make adjustements to the cost estimate. Contractor requests acceptance of this request by Friday 5/28.	**Given the number of requests for an extension of the due date for proposals, two weeks are being added to the bid period. The new date and time that proposals are due: Tuesday, June 29, 2021, noon.**	5/27/2021
5/26/2021	78	Specification 01 81 00 Art 1.11 A says, "SBR shall be a true batch design. Flow-through SBRs are not permitted." Art 1.11 C says, "Size basin so that peak day flows are treated without a change in the cycle length of the basin." Table 1.8 specifies that there will be 4 cycles per basin per day (i.e. a 6 hour cycle time). 0.9 MGD is 625 gpm. To meet all of these requirements there must be 180 minutes x 625 gpm or 112,500 gallons (15,040 cf) of basin within the decant zone of the tank. Using the industry common decant depth of 5.5 feet the surface area must be 2,735 sf. Going to the site plan on the final page of 01 81 00 a proposed site plan is provided. Two SBRs of approximately 1,369 sf are shown. This is approximately half the size required to meet the requirements of Art 1.11. Approximately half of the named SBR vendors routinely shorten cycles automatically within their standard process control logic to manage peak day flows, while the other half do not. Should proposers comply: (1) Strictly with the requirements of Artcles 1.11A, 1.11C and Table 1.8; or (2) Should they conform to the basin sizes indicated in the criteria documents proposed site plan shown with the same specification; or (3) Can proposers conform to the standard process control logic of the SBR manufacturer that they are proposing in how peak day flows are managed?	**Proposers should comply with (1) and verify sizes are correct to meet plant needs.**	5/27/2021
5/26/2021	79	Per the RFP, a 208Y/120V Panelboard, along with a network communication panel and local control panel, are required at each of the Prefabricated Buildings – the PAA Facility and the Environmental Monitoring Station Facility. Where is the desired location of these panelboards/network communication panels/control panels? Is it preferred that all panelboards, network panels, and control panels be located within the prefabricated buildings, potentially in a dedicated room, or at the building exteriors?	**All panels shall be within the prefabricated buuildings. They do not need to be in a dedicated room unless the environment is not suitable (such as high humidity, classified requiring explosion proof equipment).**	5/27/2021
5/26/2021	80	Attachment 2 – STP Modernization Design Build Specification, Section 01 86 26, Part 3.3.C.4 references a load bank. Is an external, pad-mounted load bank required as part of this project? If so, please provide a minimum size of load bank, i.e., 50% of generator nameplate KW, etc.	**A load bank shall be provided, rated for 30% of generator nameplate rating. The load bank may be padmounted or radiator mounted.**	5/27/2021