CITY OF TACOMA

Tacoma Power / Generation

ADDENDUM NO. 4 **DATE:** March 15, 2021

REVISIONS TO:
Request for Bids Specification No. PG20-0314
Cowlitz Falls Barrier Dam Repair Project

NOTICE TO ALL BIDDERS:

This addendum is issued to clarify, revise, add to or delete from, the original specification documents for the above project. This addendum, as integrated with the original specification documents, shall form the specification documents. The noted revisions shall take precedence over previously issued specification documents and shall become part of this contract.

REVISIONS TO THE SUBMITTAL DEADLINE:

The submittal deadline has been changed to 11:00 a.m., Pacific Time, Tuesday, March 23, 2021.

REVISIONS TO THE SPECIAL PROVISIONS:

Replace Section 01025 Measurement and Payment, Page 3 with revised pages 3 and 3A: Defined dewatered milestone and financial intent for early completion of cofferdams; Removed overtime hours as contractor's responsibility.

Replace Section 01040 Project Coordination, Page 3 with revised page 3: Start date changed to May 1st.

QUESTION AND ANSWER RESPONSES:

1. Question: Can the CIP concrete for the Cowlitz Dam Project can be replaced with shotcrete of an equivalent strength?

   Answer: No.

2. Question: Please provide any Hydraulic models that may have been use or required for the development of this project.

   Answer: CFD Models were prepared for the spillway design. These models used generic geometry upstream of the weir. Bathymetry or accurate shoreline was not integrated. These models can be provided after award.

3. Question: 01 57 60 1.3 Submittals Paragraph 5 states: "A hydraulic analysis of the Contractor's proposed cofferdam system". Please verify a hydraulic model is not required.

   Answer: A hydraulic model is not required. Headwater elevation can be calculated in a flow per LF of unblocked weir using the existing headwater rating curve.

4. Question: Drawing 23 of 59, Section 1 Shows temporarily plugging and extending an 18" Asbestos cement pipe through the repaired dam face. Is it possible to close this bypass pipe at the upstream end or with an existing inline valve?

   Answer: There is a valve on the upstream end but it has not been operated in many years and its condition is unknown.

5. Question: Drawing No 3 Survey Control Notes: 7, Bathymetric contours are from survey data reported on September 25, 2020. Will revised contours be provided after the filling operations discussed at the Site visit be provided?

   Answer: Yes, bathymetry will be completed at the conclusion of the Left Scour Fill operation. Plan would be to have this completed by May 1, 2021.

6. Question: Per discussions at the Site Visit walk, the scour hole located at the upstream left bank will be filled with large boulders and rock. This will leave the area impossible to seal and dewater. How will efforts to seal this and similar areas be reimbursed?

   Answer: The concept for control of water assumed the membrane directly against the dam itself would provide the best seal. Efforts to seal leakage through river gravels or fill is incidental to Control of Water pay item.

7. Question: Drawing No 3 Control of Water Note 2 requires the contractor to stabilize all temporary slopes. Which of the existing slopes would be considered unstable?

   Answer: None of the existing slopes are considered unstable.

8. Question: Will the Upstream face of the weir require inspection? Cleaning and concrete repair?

   Answer: It’s anticipated that cleaning may be required to seal the membrane against the dam and sliding stability of cofferdam components placed on the weir. The upstream weir does not require inspection, or concrete repair with the exception of the electrodes.

9. Question: Section 03 81 14 Paragraph 1.3 Assuming Extra work is needed to repair the Apron Slab, will the Work window be extended to allow time to complete the work?

   Answer: Please clarify and resubmit the question.

10. Question: Section 01040 Paragraph 1.7 E. 1a&c. Time restrictions for performing work allow in water work from 7-1-21 to 9-30-21 for Stage 1, Left Bank Work and 7-15-23 to 9-30-23 for Stage 3, Right Bank Work. If the Contractor proposes changing of the work phases and executes the Right Bank first as Stage 1 in 2021 instead of 2023 will the work window remain 7-1-21 to 9-30-21?

    Answer: The work windows are associated with the Stage, not the year. If Stage 3 is performed in 2021, the work window would begin 7-15-21 and go through 9-30-21. Stage 3 is shortened due to proximity to the right fish entrance.

11. Question: Section 01010 Paragraph 1.4 Per Commencement, Prosecution and Completion, the Contractor will be assessed liquidated damages of $10,000 per calendar day if the work area is not completely dewatered each season within 20 calendar days of the beginning of the in-water work period. If unforeseen conditions are encountered such as previous holes in the apron, previous rock fills, artesian conditions, etc., will the LD's be waived until the condition is corrected? If the 20 day requirement is extended, will the work window be extended?

    Answer: No, the Contractor needs to be prepared for immediate action as required in the specification to have approved plans, labor, and material on hand. There is uplift below the slab and artesian conditions should be expected. If the apron slab is scoured full depth in more than 1 area a Dam Safety evaluation by Engineer and City will be performed in which case more time would be granted.

12. Question: Section 01010 Paragraph 1.6 Per Contract Work Times, the contractor will be required to reimburse the City, to be budgeted at $80/Hr., for required inspection if the contractor elects to work Saturday, Sunday, holiday or longer than the designated contract work time. Given the short work window, LD and requirements of the projects contractor will most like need to work multiple shifts and all available days. Please clarify the number of city employees that will be required on site during such "overtime" periods.

    Answer: See updated specification Section 01010 Paragraph 1.6 Per Contract Work Times. The contractor is NOT responsible for the cost of any City Employees or representatives during overtime work.

13. Question: Section 01010 Paragraph 1.9 I refers to Past record with the City (including satisfying safety requirements). Please clarify the needed written information to satisfy this requirement.

    Answer: There is no written response needed for I, or J of this section.

14. Question: Section 01010 Paragraph 1.9 J. 2. states "Contractor's construction record including references, judgments, stability, adequacy of equipment proposed to be furnished." Please clarify the needed written information to satisfy this requirement. Are past project references required?

    Answer: There is no written response needed for I, or J of this section.

15. Question: Section 01010 Paragraph 1.9 J. 4. states "Quality of performance of previous contracts or services." Please clarify the needed written information to satisfy this requirement. Are past project references and/or client evaluations required? Are only City of Tacoma projects required?

    Answer: There is no written response needed for I, or J of this section.

16. Question: Section 01010 Paragraph 1.14 A.Work by City states: "City will provide fish rescue services during initial dewatering...". If additional dewatering and fish rescue efforts are needed will the City provide rescue efforts at no cost to the contractor?

    Answer: Yes.

17. Question: Section 015760 Paragraph 3.5 A. Can temporary power be left in place in between stages or shall it be removed and reinstalled in between stages?

    Answer: Temporary power may remain in place.

18. Question: Please provide electrical one-line of Cowlitz Barrier Dam and highlight existing services that are acceptable to tie in to for construction power.

    Answer: Existing electrical capacity is used for electric fish barrier.

19. Question: Please provide voltage of power lines called out on drawing No. 09

    Answer: 12.5kv.

20. Question: Per specification 01040 1.3B, the city will issue to the contractor a complimentary electrical permit. What documents will contractor need to provide for electrical permit? Will each stage require a new permit? Does electrical permit cover all work areas? Does permit cover temporary and permanent electrical work?

    Answer: Temporary and permanent power will be under different permits. It is not expected that permanent service will be required. Application would be filled out on Tacoma's website. If service is over 400amps then it will require electrical inspection review which takes up to 6 weeks. One application is sufficient for all three season.

21. Question: Per specification 015000 3.5, will the installation of temporary service or connection to existing utility be at the cost of the utility? What electrical equipment will be provided by utility for temporary service?

    Answer: Contractor will pay for electrical service and equipment for step down is included in setup costs that would be charged.

22. Question: Section 01010 Paragraph 1.9 G states: "Contractor's engineer who will be preparing Water Control Plan shall have a minimum of three projects documented experience designing water control in rivers. Bidders shall submit a resume of named engineer with their bids. (2 page maximum)." Given that the water control design process will involve multiple individuals and specialties, can we submit more than one resume for this position? Does this resume have to focus on one individual's experience only?

    Answer: More than one resume is acceptable to fulfil the requirements.

23. Question: Section 02 01 00 Paragraph 1.1 C & 3.12 A&B An inspection report of the Existing Electrical Barrier Electrode is required and "Clean and inspect existing electrical barrier electrodes". Is there a specification on the cleaning required? Will any repair be required?

    Answer: Cleaning includes removing built up organic material to confirm the electrode is intact and doesn't have section loss. A pressure washer or scraper should be sufficient. No repair is anticipated.

24. Question: Drawing No. 14 Note on the Plan states a "Bulkhead Below Weir Required - Align with Cofferdam and Existing Rib". This bulkhead for Stage 1 & 2 will be very difficult to install with flowing water over the Weir. Will Tacoma Power allow additional lowering of the water over the Weir or suspended flows temporarily to allow installation?

Answer: No.

25. Question: Section 01 57 60 Paragraph 1.3 E requires the contractor to supply access, crane support, lighting and power for fish salvage operations. Please detail the type of access, size and duration of crane support, extent of lighting and power requirements.

    Answer: Access would include boat or barge walkway to the work area. Crane support to lift 2,500lb boat or fish box in or out of the work area or aid in siene netting, 8 hours per event. Lighting would include light plant type area lighting and only be required if fish handling is to occur at night. Electrical support would be 4EA 110V/15amp household outlets in the work area.

26. Question: Section 02 01 00 Paragraph 3.1 F states the contractor is responsible for providing electric power and water to the construction area. What electric and water facilities are available for contractors use or to tie into. Where on the project site are the utilities located?

    Answer: Onsite hydrants can be used for potable water. Electrical service is addressed in another question response.

27. Question: Drawing No. 17 Cofferdam Details Section 01 57 60 1.4 Paragraph 11, Drawing 17 Section 1 shows a headwater elevation of El 234.4 ft. at 2500CFS and 234.5 ft. at 7000CFS. Spec. Section 015760 1.4 Para. 11 shows 234.6 ft at 7000CFS in Stage 2. The headwater could potential be higher at the stated flows if the cofferdam is not constructed exactly as shown. Is there a limiting elevation of the headwater elevation? Is it acceptable for the headwater elevation to reach or go higher than say OHW (El 235.25)? What is the maximum allowable headwater elevation at 7000CFS?

    Answer: There is not a maximum headwater elevation. The maximum flow is defined as 7,000 CFS but if a contractor's scheme blocks more of the weir they will need to plan a taller cofferdam to accommodate the 7,000 CFS flows. The limiting factor is the height of the left embankment.

28. Question: Flow Through Expansion Joints in Existing Dam: Should we anticipate leakage through the existing dam or the downstream concrete apron?

    Answer: Yes, 03 81 14 Concrete Repair includes the plan to address these leakages.

29. Question: Volume of Gravel to be Removed from the Interior of the Dam: Sheet 21, detail 2 calls for gravel and debris to be removed from the interior of the dam. With the curb detail should we anticipate the material to be removed is to the top of the curb on the downstream and higher toward the back wall?

    Answer: That is the maximum that would be anticipated.

30. Question: Hydrophilic Waterstop: Sheet 21, detail 3 calls out where the hydrophilic waterstop is to be installed in weir but is it possible to have a plan view show the installation for clarity?

    Answer: The waterstop is placed on all horizontal and vertical surfaces along that vertical plane. A plan view would look like a line centered on the curb.

31. Question: The contract documents do not appear to allow sufficient time for review and approval of the water control plan in light of City review, FERC review, and response to comments, if any. Item 1.3 B indicates “submit the water control plan to the city prior to FERC”. City review (30 days) combined with FERC review (30 days) could easily be 2 months or more. Please clarify with respect to the number of days that bidders shall allow for City review and for FERC review, including comment and approval, of the water control plan and indicate whether the City intends to allow adjustment of the Critical Path, day-for-day, if that plan review-comment-approval period is extended for other than the sole fault of the Bidder (including its Engineer).

    Answer: City review will be a maximum of 14 days per submittal. Tacoma would provide preliminary approval to procure and mobilize elements of the Water Control plan to stay on schedule if either City or FERC review takes longer than anticipated.

32. Question: We have not been able to find/retain an Engineer that meets the specified requirements for Control of Water / Cofferdam Plan. Section 1.9, Evaluation of Bids, Item G, “3 projects documented experience designing water control in rivers”. Please consider relaxing this requirement to one (1) similar project.

    Answer: Submit relevant experience and it will be weighed against other submissions.

33. Question: On the Signature Page of the bid documents, are we to check off the correct amount of addenda, or should each spot be initialed by our signer?

    Answer: Each spot should be initialed.

34. Question: Pile Driving: The specifications indicate the spuds for the caissons/deflectors can be set or driven. If driven, are there any constraints regarding how close to the dam pile can be driven? Additionally, can piles be driven for the anchors or for the purpose of deflecting current?

    Answer: Pile driving is allowed. No restriction on proximity to structures however it must be demonstrated that it would adversely affect the existing structure. It would be approved during review of the Control of Water plan. Note the 18” downstream migrant bypass pipe would need to be located and avoided or protected to drive in that area.

35. Question: Soil Logs: Do soil logs or any other soils information exist for the area of the Barrier Dam and upstream?

    Answer: No.

36. Question: Project Award and NTP: Due to the tight time frames for the 2021 summer work required, what is Tacoma Powers anticipated Award date? What is the anticipated Notice to Proceed date?

    Answer: Anticipated Award is March 30th, 2021. NTP would be April 15th, 2021.

37. Question: Water Flow Reductions: The specifications allow for up to 20 days of river flow reduced to 2,500 cfs for up to 20 days. Is it possible to get periodic 1- or 2-days reductions to assist in the work if necessary? Additionally, when the flow is reduced at the dam upstream how long before the flows are reduced at the Barrier Dam?

Answer: Reduction below 2,500 CFS is not possible. Flows are normally reduced gradually due to license requirements (Approximately 1”/hr at Mayfield gauge) so the time between adjustment and headwater height at the barrier dam is not precisely known.

38. Question: Upstream Uncontrolled Tributaries: At the walk through it was mentioned that some of the upstream tributaries are uncontrolled. Are they monitored regarding their flow rates and can that information be provided as a safety measure for the work at the Barrier Dam?

    Answer: There are no significant tributaries between the Barrier Dam and Mayfield Dam. The comment was in reference to the Tilton River which flows directly into Mayfield Lake. Mayfield Lake is normally managed with less storage capacity due to heavy recreational use. This has led Mayfield dam to occasionally spill as the result of a major unplanned rain events in the Tilton basin. However Tacoma will manage this risk through reservoir levels. For this project assume flow will be 2,500 CFS during cofferdam installation and up to 7,000 CFS outside cofferdam installation during the work window.

39. Question: Payment for Mobilization: Mobilization is a major cost of the project and may have to be done as much as year in advance, but specification 01025 1.2 A and B limits payment to only 60% of 5% of the contract amount with the remained only paid after all the demobilization and punch list is done. This means that the chosen contractor could be out of pocket millions of dollars for more than a year. Since this is a project with very high mob costs can this pay item be changed to more accurately reflect the costs the contractor will be incurring on behalf of Tacoma Power?

    Answer: No.

40. Question: Payment Terms: Section 01025 1.2 B states that “10-percent of the total contract price will be deducted from any money due to the contractor as progress payments until all mobilization items listed above have been completed as specified.” The paragraph above defines mobilization items as “all labor, equipment, and materials to mobilize to the job site, preparation of works, demobilization, including clean up and site restoration, as well as other items. What this means is that the contractor will incur millions in mob costs but be able to recover only slightly more than half of 5 percent of the contract amount…and will have an additional 10% of all pay requests with-held as well. Certainly, this is not fair and reasonable; can these payment terms be modified?

    Answer: Specification will remain unchanged.

41. Question: Placement of Augmentation Gravel: Section 01 57 69 3.5 (C) calls for the gravel used in the super sacks to be placed in the river in mid-stream locations…”by land-based machines and equipment only.” It further states that “Machines and equipment shall not enter the water or be driven below the ordinary high-water mark.” Is placement by a barge mounted crane acceptable?

    Answer: Yes.

42. Question: Cowlitz Falls Work Periods: It seems unlikely that phase 1 can be done this year. 1. The bid is the end of March. 2. It will take most of a month to review the plans of the low bidders and make a decision as to who has the best plan for the cost. 3. After choosing a contractor their plan has to be reviewed and approved by Tacoma Power prior to submittal and approval by FERC which will take time perhaps 2 months. 4.

No orders can be placed before this time…at the earliest June, probably July. 5. Poseidon quoted the barges but did not indicate lead time…with fab and shipping it is probably 4 months… There is a lot of prep necessary for installing the caissons. 4 anchor points and winch sets must be installed, ¼ of a mile of road needs to be built, cranes and Poseidons mobilized and modified, laydown areas cleared, grubbed and graveled, pumps and piping installed, water treatment plant and discharge area installed, concrete gang forms developed and fabricated, and more. The work window is July 1st to Sept 30th, three months, and all of that will be necessary for deploying the caissons, perfecting water control, forming and pouring the dam, removing the caissons and mooring them for the winter to be deployed the next season. Since the elements of water control are critical for the success of the project is it permissible to plan on implementing them between now and July 1st, 2022?

Answer: Upland work can begin May 1st per permitting. Floating elements may be mobilized prior to inwater work window. Cofferdam construction cannot being prior to the inwater work window. Poseidons P10s were a concept and other modular floats or different plans altogether could be acceptable.

43. Question: Work Area: Sheet 7 shows the work area as being 51 ft downstream and 55 ft upstream of the Barrier Dam. While this is sufficient area for the diversions and cofferdams work will have to be done in other upstream areas such as for the anchors, diversion structure assembly, crane barge, mooring facilities between work seasons, etc. Is this anticipated and do the permits allow work in other areas?

    Answer: Yes, the permits assume there will be temporary work beyond the in-water work area.

44. Question: City of Tacoma Insurance Requirements for Contracts Paragraph 4.11, Builders Risk Insurance requires the City of Tacoma to be included as a named insured (not named as additional insured) on the policy. Named insureds are allowed to adjust claims with the insurance carrier. As the party responsible for placing the Builder's Risk policy and the party which has the risk of loss for repairing loss or damage to the Work, all claims should be adjusted with the Contractor. The City should be listed as an additional insured on the applicable required insurance policies for protection of their remaining insurable interest rather than as a named insured. Please amend paragraph 4.11 Builder's Risk Insurance to :"Contractor shall maintain during the term of the Contract and until final acceptance of the work by the City of Tacoma, a policy of Builder's Risk Insurance providing coverage for all-risk of physical injury to all structures to be constructed according to the Contract. City of Tacoma shall be included as an additional named insured (not named as additional insured) on the policy."

    Answer: No

45. Question: City of Tacoma Insurance Requirements for Contracts Paragraph 4.11, Builders Risk Insurance requires the Contractor to maintain Builder Risk Insurance until final acceptance of the work by the City of Tacoma. Builders risk insurance normally ends upon Substantial Completion or at the point the Work is put to its intended use by the Owner, whichever is earlier. Please consider amending to recognize insurance industry practices.

    Answer: No

46. Question: Drawing No. 45 Detail A/Dwg 45 calls out 3”SS 90 degree bends (Typ of 7) and 3” SS LB Style Conduit (Typ of 7). The detail only shows three of each. Please provide detail of remaining four bends and conduits.

    Answer: On Drawing No. 45 Detail A/Dwg 45: change note: “3”SS 90 degree bends (Typ of 7)” to read: “3”SS 90 degree bends (Typ of 3)”. On Drawing No. 45 Detail A/Dwg 45: change note: “3” SS LB Style Conduit (Typ of 7)” to read: “3” SS LB Style Conduit (Typ of 3)”

47. Question: Section 01 57 60 Paragraph 1.3 B & 1.3F Paragraph 1.3 B required the submission of a water control plan to FERC for approval. Paragraph 1.3 F states the City will submit the Engineer of Contractor's approved plan to FERC and we are to Anticipated a FERC review of 30 days. Written approval from FERC is required prior to implementation of the Water Control Plan. Given the Bid Date of March 23, 2021 and adding the award period (Bid Validity period up to 60 days), contract execution, plan preparation and review and approval period by the City, the FERC approval may not be received until June 2021 making a start of in-water work on July 1, 2021 difficult and requiring the contractor to prepare for the work at risk. If execution starting July 1. 2021 is not possible, due to a delay in the approval of the Control of Water Plan, will the contractor be permitted to start the work in 2022? Will the 3rd work window be extended to 2024?

    See responses to previous questions. If award is delayed or reviews take longer than anticipated extending work to a 2024 season would be reasonable to assume.

48. Question: Section 01040 Paragraph 1.7 E 2 a. The Paragraph states: Upland work above OHW shall be restricted to May 31th to November 15. Will the contractor be permitted to begin mobilization, site setup and other preliminary work before May 31st?

    Answer: Upland work can begin May 1st per permitting.

49. Question: Letters and Calls - Bidder Checklist - What will be the Last day for Questions?

    Answer: Last day for questions was March 10th.

50. Question: Will Buy America or Buy American requirements apply to this project?

    Answer: No

51. Question: Will a small business plan be required for this contract?

    Answer: No

52. Question: Section 01 57 60 Paragraph 1.4 A Lines 5 &7 Paragraph 5 states: "the Minimum Rule Flow will be maintained for 20 days during cofferdam installation." Paragraph 7 states "During removal of the cofferdam in September it is unlikely the Minimum Rule Flow will be met due to flow regulations on the Cowlitz River." Please clarify if the city will lower the Flow over the weir to 2500CFS for 20 days during cofferdam installation and 20 days during cofferdam removal.

    Answer: Confirmed, City will maintain 2,500 CFS during this period.

53. Question: Section 01 57 60 Paragraph 1.4 B Paragraph B states: Cofferdam must be installed within 10 calendar days of the start of the in-water work period. Work area must be dewatered within 20 calendar days of the beginning of the in-water work period." Given the size and complexity of the cofferdam and dewatering systems, we expect to use all of the 20 calendar days to get the subsurface preparation complete, cofferdam constructed, bulkheads and access installed, leaks sealed and dewatered. Will the City of Tacoma perform other work during this 20 day period that might force the General contractor to stop progress on the Cofferdam and dewatering systems?

    Answer: The City will not perform work that would cause the contractor to stop work.

54. Question: Section 01010 Paragraph 1.4 The paragraph states the Contractor shall completely dewater the work area each season within twenty (20) days of the beginning of the in-water work period or be assessed liquidated damages of $10,000 per day. How is the time for fish capture, underwater inspection, chemical grout crack repair, apron slab repairs, leak sealing and other potential work being accounted for in the 20 day period? Will the Contractor be granted additional days to complete this intermediate milestone if the any of the above noted work is needed?

    Answer: It is assumed that underwater inspection and leak sealing would be included in the 20 days period. The intent is for a rapid temporary slab repair such as membrane with bulk bags to be applied to rapidly close off an apron leak and continue dewatering. Permanent repair of the apron slab including chemical grout crack repair could happen after dewatering, outside the 20 day period. Assume 8hr for fish capture included in the 20 days. Dewatering will be defined as steady state, less than 6in of water in the working area. See updated specification section.

55. Question: Plan Sheet 45 Note 8 on plan sheet 45 calls for bonding ground to handrail with min. #8 wire. Please provide detail of bonding ground to handrail.

    Answer: See attached sketch.

56. Question: Plan Sheet 52 Note 5 on plan sheet 52 calls for bonding panel ground to bulkhead gate guide frame with min #8 wire. Please provide detail of bonding ground to bulkhead gate guide frame.

    Answer: See attached sketch.

57. Question: Insurance Requirements 4.2 Marine General Liability Insurance Are Subcontractors required to maintain Marine General Liability Insurance for project?

    Answer: No

58. Question: Section 01010 Paragraph 1.11 Are subcontractors held to the 15% LEAP and apprentice goal requirements?

    Answer: Yes

59. Question: Contractor's Record of Prior Contracts - Please clarify content requested on Form PG20-0314F – Contractor's Record of Prior Contracts. Should we include a) prior contracts with the City of Tacoma, b) prior contracts with the same type of experience as the Cowlitz Falls Barrier Dam Repair Project, or c) other prior contracts in the local area? Is there a specific number of prior contracts to list?

    Answer: Reference Specification 01010 Section 1.9 for contracts that should be included.

60. Question: Section 01 57 60 Paragraph 3.6 Dewatering and Fish Handling Addendum No.2 Q&A 2. Addendum No. 2 Q&A No. 2 states: "Tacoma Power can confirm that the top 10 ft are gravel". Section 01 57 60 Paragraph 3.6 details the minimum pumping capacity of 3000 gpm with an additional 3000 gpm backup (Paragraph C4). Given the anticipated eroded, broken and porous apron slab, weir and weir slab and unknown soil conditions beyond the 10 foot of gravels, we anticipate the flows to be significant higher than 3000gpm. If additional pumping is required beyond the minimum capacity, how will the Contractor be compensated? If flow are such that drawdown take longer than the anticipated 6 hrs. (Paragraph C2) will the contractor be allowed additional time to complete the 20 day intermediate milestone before liquidated damages of $10,000 per day are assessed?

    Answer: 3,000gpm with 3,000gpm backup was stated as a minimum and what was communicated to permitting agencies. Final cofferdam design or conditions may warrant more capacity.

61. Question: Section 03 10 00 Paragraph 2.4 A. 1. Paragraph 2.4 A calls out PVC Waterstop as designated on the drawings. The drawing do not show or call out any PVC waterstop. Please confirm no PVC waterstop is required for this project.

    Answer: No PVC waterstop is required.

62. Question: Can any pictures, questions and discussion notes from the left bank site walk that was held on Friday March 5th be provided?

    Answer: No, however the road is public up until the gate at approximately milepost 8.

63. Question: What Fire Protection requirements will the Contractor be responsible for? What metric should the Contractor monitor in the event of fire activity (such as WA-DNR IFPL)? What is the contingency if work is not permissible during the IWW due to fire activity?

    Answer: In-water work window would be adjusted if access is not permitted.

64. Question: Section 01010 Paragraph 1.6 mentions that the contractor must reimburse the City for when the contractor elects to work Saturday, Sunday, Holidays, and/or longer than the designated contract work times. Can the City please clarify if it anticipates to staff the project 100% of the time with an inspector when the contactor is working onsite or are there specific activities that the City/Engineer/Inspector must witness out of normal work hours? Recommend paying this overtime through force account than anticipating costs based on "Engineers decision as to when an inspector is required".

    Answer: Specification will be changed to remove requirement to pay for Inspectors outside normal working hours.

65. Question: Bid Item #3 Control of Water: Since most of the initial costs are for equipment for the Control of Water payment item, can the contractor bill for the fabrication and acquisition of items for this purpose prior to their actual deployment?

    Answer: Payment for material on hand can made with suitable documentation that material is either onsite, or other secured location, and solely allocated to the project.

66. Question: Electric Fish Barrier: Specification section 01040 calls for the Electric Fish Barrier to be protected and deactivated and locked out during the performance of the in-water work but to be active during non-working hours. Can you provide a description of how the system functions and what is involved in protecting it and locking it out?

    Answer: The system is turned on or off with a breaker in the electrical shed on the right side. Lock out tag out system is employed on the power supply.

67. Question: Addendum #2, question 13 indicates that the final addendum #3 is planned for being issued on March 16th. Since this will leave only 5 working days until the bid, and the responses may have an impact on the design, is it possible to issue addendum #3 earlier?

    Answer: No.

68. Question: RFI Regarding Acceptability of Alternate Methods: Because of the extreme risk & high potential for lack of success involved in deploying in-river diversion structures at this site, would other methods such as reopening the original river channel for diversion be considered?

    Answer: Not at this time as it would require re-evaluation by USACE.

69. Question: RFI Regarding LDs: Addendum #2, question #6 indicates that the in-water window years can be altered/re-sequenced by the contractor to best fill their diversion plan but specification 01010 1.4 states that “the contractor shall be required to completely dewater the work area each season (emphasis added). Many projects require the contractor to identify if they have ever been charged liquidated damages, and if so, are barred from bidding the project. Can the language in 1.4 be changed to possibly accommodate different work plans?

    Answer: As soon as the work is substantially complete no LD’s would be charged for the dewatering period.

NOTE: Acknowledge receipt of this addendum by initialing the corresponding space as indicated on the signature page. Vendors who have already submitted their bid/proposal may contact the Purchasing Division at 253-502-8468 and request return of their bid/proposal for acknowledgment and re-submittal.

Or, a letter acknowledging receipt of this addendum may be submitted in an envelope marked Request for Bids Specification No. PG20-0314F Addendum No. 4. The City reserves the right to reject any and all bids, including, in certain circumstances, for failure to appropriately acknowledge this addendum.

Patsy Best, Procurement and Payables Manager
Finance/Purchasing Division

Cc: Tim Nordstrom, Power Engineer IV, Tacoma Power / Generation
Toby Brewer, Assistant Generation Manager, Tacoma Power / Generation

For this intermediate milestone, the amount of liquidated damages set forth of the General Provision 3.14 is hereby modified to $10,000 per day, limited to a maximum of $250,000.

This intermediate milestone is defined as the following. It is assumed that underwater inspection and leak sealing would be included in the 20 days period. The intent is for a rapid temporary slab repair such as membrane with bulk bags to be applied to rapidly close off an apron leak and continue dewatering. Permanent repair of the apron slab including chemical grout crack repair could happen after dewatering, outside the 20 day period. Assume 8 hours for fish capture included in the 20 days. Dewatered is defined as steady state flow and less than 6 inches of water in the working area.

Each year of this project, within the initial 20-calendar day window where the City has agreed to restrict flows in the river to 2,500 cfs for the installation of the coffer dam, the City will provide a financial incentive to the contractor for each day that we are able to operate the river at the higher flow rates. That incentive will only apply during that first 20-day coffer dam installation window and at the rates specified below. However, if the contractor informs the City that the coffer dam is ready to withstand the higher flows, the contractor thereby assumes any and all liability if the work zone is damaged by any failure (partial or complete) of the coffer dam that might be caused by those higher flows.

Allowable River Flow (cfs)	$/day incentive
3,500	$5,000
5,000	$10,000
6,000	$15,000
7,000	$20,000

This incentive will be paid as soon as the coffer dam system can hold the higher river flow, even if the City of Tacoma choses to maintain a lower river flow.

1.5 SPECIFICATION FORMAT

This specification is written and formatted for use with Public Works specifications and is numbered to be consistent with other specifications, including Construction Specifications Institute (CSI) format, as modified by the City.

It is not intended to indicate what work is to be accomplished by various subcontractors on the project. In all cases, the City's contract is with one (1) general contractor and it is the general contractor's responsibility to insure all work required to provide a complete and operational facility is included in their bid.

When possible, the City has tried to reference work which should be included with various trades, but it is the contractor's responsibility to ensure all work is properly coordinated. The numbering system in the Special Provisions Section reflects standard provisions written by the City and assigned constant numbers. Thus, gaps will appear when specific sections are not used.

1.6 CONTRACT WORK TIMES

Work Hour Restrictions: The contractor should limit the upland work on the left bank (looking downstream) in the months of May and June such that work on the left bank does not start until two hours after sunrise and work has stopped two hours before sunset (i.e., approximately 8am-6:20pm in May and 7:30am-7pm in June). Beginning in July and extending to December there are no restrictions on work hours.

~~If the contractor elects to work on a Saturday, Sunday, holiday or longer than the designated contract work times, such work shall be considered overtime work. On all such overtime work, a City engineer or their inspector must be present. The contractor shall reimburse the City for the full amount of the costs for City employees who must work any such overtime hours. It shall be the engineer's decision as to when an inspector is required. For the purpose of estimation of reimbursement of City employee's overtime, the bidder shall budget $80.00 per hour.~~

~~However, if the City orders work to be performed on overtime, all City employees' overtime costs will be at no expense to the contractor. The City will not require reimbursement for overtime hours worked by the City for inspection as detailed in the General Provisions if the conditions of this paragraph are met to the satisfaction of the engineer.~~

1.7 QUALIFICATION OF CONTRACTORS

A. QUALIFIED CONTRACTORS

Only contractors with management, employees, and staff experienced in the type of work required by this specification, and with a record of successful completion of projects of similar scope, complexity, and overall cost will be considered. The bidder must complete the Contractor's Record of Prior Contracts form attached to this specification at the time of submitting their bid.

Additional materials are required to provide proof of qualifications to perform the work. See Section 01010, 1.9 Evaluation of Bids The City will be the sole judge of the bidder's ability to meet the requirements of this paragraph. Bidders past work will be judged in complexity of job, time of completion, organization, and other factors that may indicate the abilities of the contractor.

Submit to the engineer within ten (10) calendar days following execution of the contact documents, a list of all subcontractors, including each subcontractor's address, telephone number, and contact person to be used on this project.

1.7 CONTRACTOR'S USE OF SITE

A. ACCESS TO SITE

1. Right Bank Access is from Barrier Dam Lane. Barrier Dam Lane is a public road and provides access to a public boat ramp at its terminus. CONTRACTOR shall not impede the public's use of Barrier Dam Lane and access to the public boat ramp.

2. Left Bank Access is from Salmon Creek Road via an approximately 8.5 mile gravel road (Left Abutment Access Road) as shown on the Drawings.

   a. CONTRACTOR will abide by CITY's easement terms for access through DNR property.

   b. In addition to the easement terms the following conditions apply to use of the Left Abutment Access Road:

      1) Bridge at mile 7.1 is rated for HS20 loads.

      2) Contractor shall record axle trips for deliveries to the Left Bank and provide these counts to CITY.

   c. CONTRACTOR will need to improve access as shown in the Drawings to access the Left Bank of the Barrier Dam with vehicles or equipment.

B. CITY'S ACCESS DURING CONSTRUCTION.

1. CONTRACTOR shall coordinate with the CITY to provide access to all components of the facilities required for operation and maintenance of the facility.

2. The CITY will require daily access to the Auxiliary Water Supply Screen, adjustable gates at the right fish entrance, and associated items as necessary for operation and maintenance of the Hatchery fish ladder.

C. Construction Staging and Operations: Limited to areas designated on the Drawings.

D. Work Hour Restrictions: CONTRACTOR should limit the upland work on the left bank (looking downstream) in the months of May and June such that work on the left bank does not start until two hours after sunrise and work has stopped two hours before sunset (i.e., approximately 8am-6:20pm in May and 7:30am-7pm in June). Beginning in July and extending to December there are no restrictions on work hours.

E. TIME RESTRICTIONS FOR PERFORMING WORK

1. In-water Work (work below the Ordinary High Water Line (OHW)) shall be restricted to the following work windows:

   a. Stage 1, Left Bank: July 1st, 2021 to September 30th, 2021

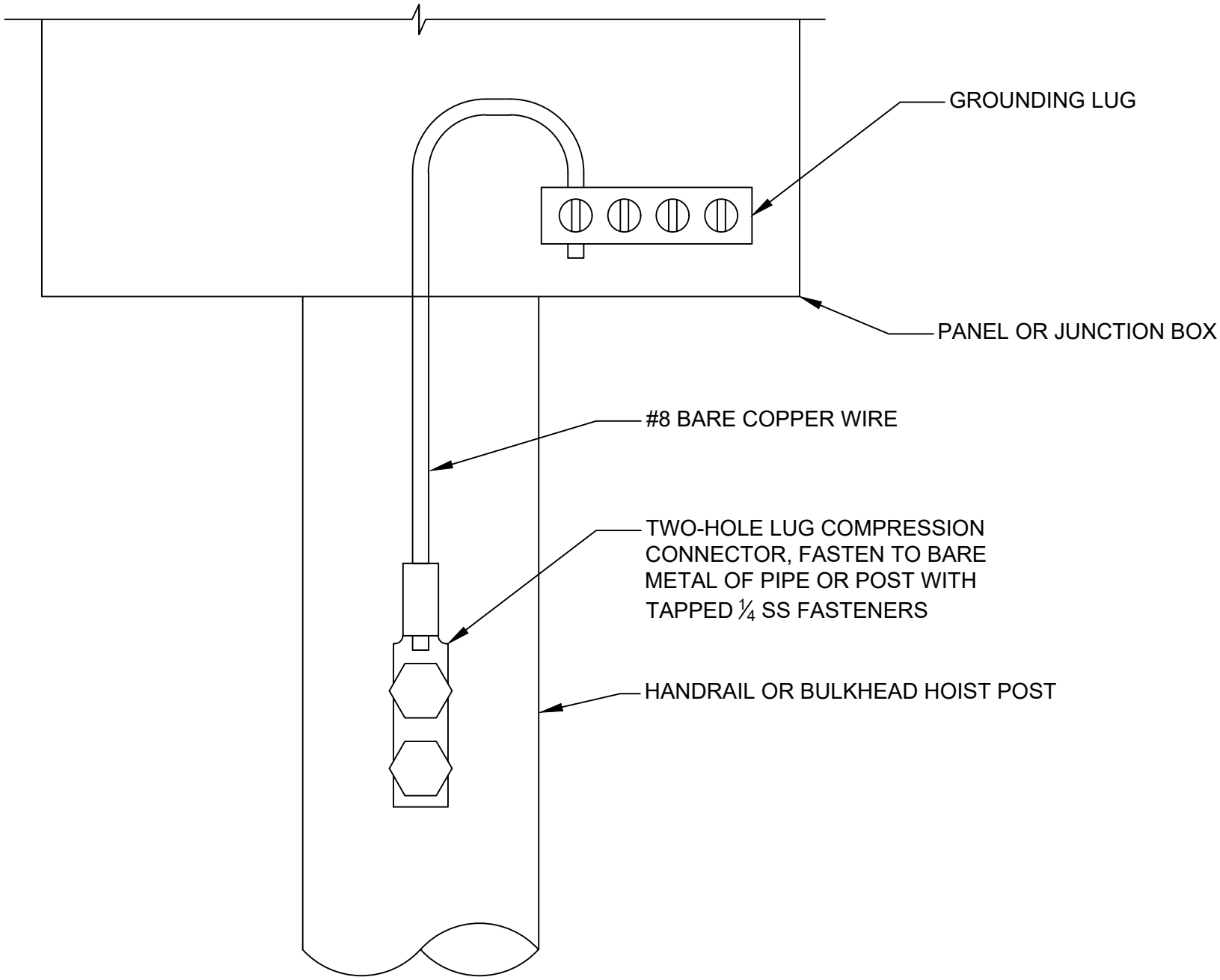
   b. Stage 2, Middle: July 1st, 2022 to September 30th, 2022

   c. Stage 3, Right Bank: July 15th, 2023 to September 30th, 2023

2. Upland Work (work above the Ordinary High Water Line (OHW)) shall be restricted to the following work windows:

   a. All Stages: ~~May 31st~~ **May** 1st to November 15th

F. Confine storage of materials and equipment, and locations of temporary facilities to the designated CONTRACTOR'S staging areas shown on Drawings.



BONDING DETAIL