

Port of Port Orford - Seawater Delivery System RFP

Questions and Answers

The following questions were submitted by prospective proposers regarding the Port of Port Orford Supplemental Seawater Delivery System Request for Proposals. The Port's responses are provided below. Unless otherwise noted, the Port's position is that proposers are expected to apply their professional expertise and the information provided in the RFP and during the site visit to develop a system design that best meets the Port's stated needs.

1. Please clarify the primary intent of the 800 GPM requirement. Is this based on tank turnover rate, process demand, emergency backup, or peak loading conditions?

Answer: The 800 GPM flow rate was identified based on the Port's anticipated operational needs as described in the RFP and discussed during the site visit. The Port expects proposers to evaluate this requirement in the context of their proposed system design and, based on their expertise, recommend the most appropriate pump capacity and configuration to reliably meet the Port's stated operational needs. Proposers should clearly explain their design assumptions and any recommended adjustments in their proposal.

2. What discharge pressure (PSI) is required at the point of delivery?

Answer: The RFP and site visit provided information about the system layout and delivery points. The Port expects proposers to assess site conditions and, based on their engineering expertise, specify the discharge pressure required to deliver seawater effectively at each point of use. Proposals should include the proposer's recommended delivery pressure and the rationale behind it.

3. What static head and friction loss assumptions were used to arrive at the 800 GPM requirement?

Answer: Specific hydraulic calculations were not provided in the RFP. Proposers are expected to conduct their own site assessment — informed by the RFP specifications and the site visit — and develop hydraulic assumptions, including static head and friction losses, as part of their system design. Proposals should document these assumptions clearly.

4. Is the supply expected to be continuous flow or intermittent/cycled operation?

Answer: The Port anticipates that the system will need to support both continuous and intermittent operation depending on facility use. Proposers should design a system flexible enough to accommodate variable operational demands as described in the RFP, and should recommend the operating mode that best supports the Port's needs based on their expertise.

5. If intermittent, what is the duty cycle (minutes per hour or hours per day)?

Answer: A specific duty cycle was not prescribed in the RFP. The Port expects proposers to recommend a duty cycle appropriate for the proposed system design and the Port's operational requirements. Proposals should include the recommended duty cycle and the basis for that recommendation.

6. What is the required turnover rate for the receiving tanks or system volume?

Answer: Turnover rate requirements were not explicitly specified in the RFP. The Port expects proposers to evaluate the receiving tank sizes and operational context observed during the site visit and to recommend a turnover rate appropriate for maintaining water quality. Proposals should identify the recommended turnover rate and how the proposed system achieves it.

7. Please provide minimum and maximum demand scenarios.

Answer: The RFP and site visit outlined the Port's overall operational context. Rather than prescribing specific minimum and maximum demand scenarios, the Port expects proposers to identify these scenarios based on their assessment of the facility and to size the system accordingly. Proposals should describe the demand scenarios the design is intended to accommodate.

8. What portion of the 800 GPM is expected to be continuous vs. peak flow?

Answer: The Port did not prescribe a specific split between continuous and peak flow. Proposers should design a system capable of delivering up to 800 GPM under peak demand conditions while accommodating lower continuous flow scenarios. Proposals should clearly describe how the proposed system handles varying flow demands.

9. Are there seasonal variations or operational scenarios that affect flow requirements?

Answer: The Port's seawater system will serve a working waterfront facility with operations that may vary seasonally. Proposers should account for potential seasonal variation in their system design. The Port expects proposers to identify any seasonal factors that influence their design and to explain how the proposed system addresses those factors.

10. What redundancy is required (single pump, duplex, or backup system)?

Answer: The Port expects proposers to recommend the level of redundancy appropriate for a reliable, commercial-grade seawater delivery system. Proposals should identify the recommended redundancy configuration — whether single pump, duplex, or backup — and provide a rationale based on the criticality of uninterrupted seawater supply to Port operations.

11. What is the minimum number of totes or storage vessels required, and what are their dimensions and capacities?

Answer: The RFP and site visit provided context for the storage needs associated with the system. The Port expects proposers to recommend the number, dimensions, and capacity of storage vessels required to meet operational needs. Proposals should include a recommended storage configuration and the rationale for that recommendation.

12. Please confirm the specified pipe material for the supply line (HDPE, PVC, stainless, coated steel, etc.).

Answer: The Port expects proposers to recommend the pipe material most appropriate for a marine seawater delivery system in a coastal environment, taking into account corrosion resistance, durability, code compliance, and cost-effectiveness. Proposals should identify the recommended pipe material and provide justification for the selection.

13. Provide information on drop manifolds: a. Will each manifold require metering? b. What is the total number of manifolds anticipated across the system? c. What is the expected spacing or location of these manifolds?

Answer: The number, location, and metering requirements for drop manifolds should be proposed by bidders based on the system design, the site layout observed during the site visit, and the Port's operational needs as described in the RFP. The Port expects proposers to recommend a manifold configuration — including quantity, spacing, locations, and whether individual metering is warranted — that best serves the facility. Proposals should clearly describe and justify the recommended manifold design.

14. Will the system require backup power, alarms, or remote monitoring?

Answer: The Port expects a modern, reliable seawater delivery system appropriate for a commercial working waterfront. Proposers should recommend the monitoring, alarm, and backup power features they consider appropriate for system reliability and ease of maintenance. Proposals should identify recommended control and monitoring features and explain how they support reliable system operation.

15. Is there an existing electrical service capacity identified for pump operation?

Answer: Information about available electrical service was provided during the site visit. Proposers who attended the site visit should incorporate this information into their system design. Proposals should identify the electrical service requirements of the proposed system and confirm compatibility with available service or note any required electrical upgrades.