

PORTLAND GENERAL ELECTRIC COMPANY

REQUEST FOR PROPOSAL AMENDMENT NO. 2

Substation Owner's Engineer Services for the Warm Springs Power Pathway Project

RFP Number	PGE01-GID05-SH-017
Amendment	No. 2

Purpose of This Amendment

This Amendment revises the RFP and Annex A – Statement of Work (SOW) to: (1) identify additional construction specifications, standards, and design masters available to eligible Offerors under applicable confidentiality protections; (2) clarify transmission line interface coordination requirements, including required 10% and 30% design submittals, compensation treatment, scope boundaries, and post-30% design review responsibilities; (3) clarify technical review and manufacturer-bid-evaluation responsibilities for PGE-procured major equipment; (4) establish the seismic qualification requirement for major equipment; (5) clarify responsibility for environmental studies, environmental permits and approvals, construction permits, and ongoing permit support through construction; and (6) establish preliminary site-footprint assumptions and confirm the treatment of permitting labor hours. This Amendment also accompanies PGE's responses to Offeror questions and requests for clarification.

Offeror action required: Review each change below and incorporate all applicable requirements and assumptions into the Proposal.

1. Changes to the RFP

ADD	Section 1.4(d) - Access to Project Documents and PGE Standards
The following additional materials are available to Offerors that satisfy the confidentiality requirements stated in Section 1.4(d): a. Construction Specifications Folder, containing: • SECTION 0000 INDEX.pdf • SECTION 1020 QUALITY CONTROL.pdf • SECTION 1030 TEMPORARY CONSTRUCTION FACILITIES.pdf • SECTION 1040 CONTRACT CLOSEOUT.pdf • SECTION 1050 CONTRACT ADMINISTRATION PROCESS.pdf • SECTION 2100 EROSION AND SEDIMENT CONTROL PLAN.pdf • SECTION 2110 CLEARING AND GRUBBING.pdf • SECTION 2120 SITE GRADING.pdf • SECTION 2130 GENERAL EXCAVATION AND BACKFILL.pdf • SECTION 2140 TRENCH EXCAVATION AND BACKFILL.pdf • SECTION 2150 AGGREGATE BASE COURSE.pdf • SECTION 2160 YARD FINISH ROCK.pdf • SECTION 2170 ROAD FINISH ROCK.pdf • SECTION 2180 DRAIN ROCK.pdf • SECTION 2190 GEOTEXTILES.pdf • SECTION 2200 DRILLED PIERS.pdf • SECTION 2210 ASPHALTIC CONCRETE PAVING.pdf • SECTION 2220 CULVERTS.pdf • SECTION 2230 SEEDING AND EROSION CONTROL.pdf • SECTION 2240 SOIL STERILIZATION.pdf • SECTION 3000 REINFORCED CONCRETE.pdf • SECTION 3010 CONTROLLED DENSITY FILL.pdf • SECTION 3020 CONCRETE REPAIR.pdf • SECTION 3030 THERMALLY RATED BACKFILL.pdf • SECTION 4000 FENCING AND GATES.pdf • SECTION 5100 STRUCTURAL STEEL FABRICATION.pdf • SECTION 5110 ANCHOR RODS.pdf • SECTION 5120 STRUCTURAL STEEL ERECTION.pdf	

- SECTION 5130 PAINTING STRUCTURAL STEEL.pdf
- SECTION 5140 HOT DIP GALVANIZING.pdf
- SECTION 6000 STATION EQUIPMENT.pdf
- SECTION 6010 BUS, CONNECTORS, AND SHIELD WIRES.pdf
- SECTION 6040 CONTROL AND POWER CABLE.pdf
- SECTION 6050 PRE-CAST CABLE TRENCH AND VAULTS.pdf
- SECTION 6060 CONDUITS AND DUCT BANKS.pdf
- SECTION 6070 GROUNDING SYSTEM.pdf
- SECTION 6080 YARD LIGHTING AND POWER SYSTEM.pdf
- SECTION 6090 EQUIPMENT TESTING AND ENERGIZATION.pdf

b. Substation Standards & Design Folder, containing:

- Electrical CP Design Master Binder (3).pdf
- Electrical Phy Design Master Binder (3).pdf
- Civil Design Master Binder.pdf
- S10200 Substations Drafting Standards.pdf
- S10210 Mark-up and Drafting Support Standards.pdf
- S10230, Station One-Line Schematics.pdf
- S10231 Operating One-Line Diagrams.pdf
- S10510, Disconnect Switches.pdf
- S10520, Hook Stick Operated Switches.pdf
- S10530, Circuit Switchers.pdf
- S10550, 15-kV Freestanding Breaker Installation
- S10560, Metal-Clad Switchgear
- S10810, Power Transformer Fuses.pdf
- S10820, Station Service Transformer Fuses.pdf
- S11030 Transformer Protective Devices and Alarms.pdf
- S11040, Transformer to Switchgear Connection
- S11601, Current Transformers
- S11602, Voltage Transformers

- S11625, Potential Fuse Box
- S11627, Potential Shorting Box
- S11637, Voltage Transformer, Flexible Conduit Connection
- S11810, 13-kV 3000 kVar Shunt Capacitor Banks
- S12000, Fencing Design
- S12020, Safety Signs.pdf
- S12030, Fence Safety Clearance.pdf
- S12040, Isolating Fence
- S12050, Erosion Controls
- S12310, Foundations.pdf
- S12500, Substation Structures.pdf
- S12710, Control Enclosures
- S12720, Control Building Layout
- S13004 Substation Layout Design Requirements.pdf
- S13010, Open Bus Design Guide
- S13020, Transmission Bus
- S13030, Distribution Voltage Open Bus
- S13050, Animal Deterrents
- S13106, Tubular Bus Application Criteria.pdf
- S13115 Substation Bare Conductor Ampacity.pdf
- S13130, Station Post Insulators for Substations
- S13135, Open Bus Fitting.pdf
- S13140, Bolted Pad Connections
- S13150, Transmission Line Takeoff
- S13160, 15-kV Feeder Breaker Connections
- S13510, DC Station Service
- S13520, AC Station Service
- S13710 Yard Lighting Design For Substations.pdf
- S13730, DC Emergency Lighting Control
- S13910 Arc Flash Labels.pdf

- S14000, Grounding System Design.pdf
- S14050, Measuring Soil Resistivity
- S14410, Control Wiring
- S14415, Test Switches
- S14420-Insulated Cables for Substations.pdf
- S14430, Underground 15-kV Power Cables
- S14440, 15-kV Underground Getaway
- S14450, Splice Junction Box
- S14460, Labeling Wires and Cables in Substations
- S14600 Substation Raceway Systems.pdf
- S15005, Telephone Communications
- S15007, Fiber Optic Cable
- S15010, Control Schemes
- S15020, Metering
- S15030, Tasnet Substation Integration System
- S15040, SCADA.pdf
- S15060, Alarms.pdf
- S15070, Protective Relaying
- S15075, Tertiary Ground Fault Detection.pdf
- S15076, Synch Check Control
- S15080, Programmable Logic Controller
- S15310, Control Panels, Racks, and Cable Tray
- S15320, Outdoor Control Cabinets
- S17022, Nameplate Design and List of Nameplates
- S17023, List of Material
- S17030, Conduit and Conductor Schedules

Access to these folders is limited to eligible Offerors. Offerors that cannot access either folder should contact the Single Point of Contact. PGE will apply the same confidentiality and access process to all similarly situated eligible Offerors.

2. Changes to Annex A - Statement of Work

ADD	Section 6.11.1 - Transmission Line Coordination (add after the existing coordination-task list)
For the Base Scope, the Contractor's responsibility for transmission line getaway coordination is limited to the substation interface through the station dead-end/termination point. The Contractor shall coordinate with PGE's Transmission Line OE to confirm phasing, cabling, tension, and related interface design parameters for all incoming transmission lines. The Contractor is not responsible for the engineering, design, or analysis of transmission line structures, line spans, conductors, line ratings, structure loading, or other transmission facilities beyond the station dead-end/termination point or outside the defined substation interface scope. Design responsibility for those facilities remains with PGE's Transmission Line OE.	
ADD	Section 6.17.1 - 10% Design Milestone (add to the list of 10% milestone deliverables)
Preliminary transmission line getaway configurations, routing layouts, and cable sizing calculations required by Section 6.11.1. This preliminary submittal is for review by PGE's Transmission Line OE. The Contractor shall address review comments in the 30% Design Milestone resubmittal. The effort associated with the 10% submittal is included in the 30% Design Milestone payment and is not separately compensable.	
ADD	Section 6.21.1 - EPC Design Review and Construction Support (add at the end of Section 6.21.1)
Any review of transmission-line-related content in the 60%, 90%, and IFC design package submittals is limited to the transmission line/substation interfaces identified in Sections 6.11.1 and 6.11.2. The purpose of such review is to confirm that changes made after the 30% Design Milestone have been appropriately coordinated at those interfaces. The Contractor is not responsible for reviewing broader transmission line engineering or design deliverables.	

ADD**Section 6.16 - Long-Lead-Time Material Procurement Support (add new Section 6.16.4)**

6.16.4 For PGE-procured major equipment, the Contractor shall review technical data and specifications provided by PGE to confirm technical completeness and applicability to the substation design. For the 500 kV power transformer at Lambert Substation, the Contractor shall review technical data and specifications but shall not evaluate manufacturer bids. For shunt reactors and series capacitors, the Contractor shall review equipment specifications, sizing, and design requirements and shall assist PGE with the technical evaluation of manufacturer bids. Final equipment specifications, procurement strategy, and bill of materials development for the shunt reactors and series capacitors shall be developed collaboratively by PGE and the Contractor.

ADD**Section 6.15 - Construction Packages (add new Section 6.15.4)**

6.15.4 Major equipment shall be seismically qualified in accordance with IEEE 693 High Seismic Performance Level requirements. Any proposed deviation from the IEEE 693 High Seismic qualification requirements is subject to PGE's prior written review and approval.

ADD**Section 6.13 - Permit Support (add new Section 6.13.3)****6.13.3 Allocation of Permitting Responsibilities**

6.13.3.1 PGE and its environmental consulting team shall be responsible for conducting environmental studies and obtaining required federal, state, and local environmental permits, approvals, and authorizations. PGE shall also be responsible for preparing, obtaining, and submitting environmental permit applications and approvals associated with the 30% Design Milestone.

6.13.3.2 The Contractor shall provide technical support for permitting activities by furnishing design and construction information needed to support environmental reviews, permit applications, agency reviews, permit compliance, and related permitting activities. Such support may include construction schedules, material specifications, work areas, access plans, construction sequencing information, drawings, design clarifications, calculations, responses to technical requests, and other supporting documentation requested by PGE.

6.13.3.3 Permitting support shall continue beyond the 30% Design Milestone and through construction, as authorized by the PGE Contract Administrator. When applicable, the Contractor shall provide such support to PGE and the future EPC Contractor. The scope and timing of support shall be based on the needs of PGE's permitting team.

6.13.3.4 The Contractor shall not be responsible for preparing, submitting, or obtaining environmental permit applications or approvals, construction permits, or other permit authorizations. Responsibility for obtaining such permits, approvals, and authorizations shall remain with PGE and/or the future EPC Contractor.

6.13.3.5 The Contractor shall ensure that applicable permit requirements provided by PGE or the permitting authorities are incorporated into the final design documents and specifications, as appropriate.

All Services under this Section 6.13.3 are subject to the written-authorization, budget, iteration, T&M compensation, and NTE requirements of Sections 6.13.1, 6.13.1.1, 15.2, and 16.3.

ADD**Section 8 - Project Assumptions (add new Section 8.9)****8.9 Preliminary Site Footprints**

The Contractor shall use the following current estimated substation site footprints:

- Lambert Substation: Approximately 2,200 feet by 1,600 feet.
- Mountain View Substation: Approximately 1,100 feet by 800 feet.

These dimensions are preliminary planning estimates and may be refined during design development.

CLARIFY

RFP Pricing Spreadsheet - Pricing Tab (Permitting Labor Hours)

The permitting labor hours included in the RFP Pricing Spreadsheet, Pricing tab, are fixed by PGE and shall not be modified by Offerors. However, Offerors may identify any concerns, assumptions, or exceptions related to those hours in the Assumptions Worksheet. Nothing in this clarification eliminates the written-authorization, budget, T&M compensation, or NTE controls stated in the SOW.

3. Effect of Amendment

This Amendment forms part of the Solicitation. If this Amendment conflicts with the originally issued RFP, Annex A – Statement of Work, Amendment No. 1, or any other previously issued solicitation document, this Amendment controls. Except as expressly revised by this Amendment, all other terms and requirements of the Solicitation remain unchanged.

END OF AMENDMENT NO. 2