

Exh. JDW-23
UE-240004/UG-240005/UE-230810
Witness: John D. Wilson

**BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**DOCKETS UE-240004, UG-240005,
UE-230810 (*Consolidated*)**

EXHIBIT TO TESTIMONY OF

JOHN D. WILSON

**ON BEHALF OF STAFF OF
WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION**

PSE's Response to Staff DR No. 129

August 6, 2024

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**Dockets UE-240004 & UG-240005
Puget Sound Energy
2024 General Rate Case**

WUTC STAFF DATA REQUEST NO. 129:

RE: Miscellaneous

Please provide a copy of the most recent version of the AACE International Cost Estimate Classification System for the Hydropower Industries (Recommended Practice No. 69R-12), or any other document that PSE relies upon for determining the expected accuracy range of a cost estimate for a capital project at a hydropower facility.

Response:

Puget Sound Energy (“PSE”) uses an internal Project Cost Estimate Classification to determine the expected accuracy range of cost estimates for capital projects. Please see Attachment A to PSE’s Response to WUTC Staff Data Request No. 129 for the requested information.

ATTACHMENT A to PSE's Response to WUTC Staff Data Request No. 129

Cost Estimate Classification Checklist

Project Name Here

Purpose: This document should be used with Project Sponsors and the Capital Planning Committee to have a better understanding of the level of effort, status of deliverables and a common language when talking about a Project's estimate. It is not used to educate estimators on HOW to estimate.

Project Phase Gates		Exit Initiation Phase		Exit Planning		Exit Design Phase													
Estimate Class Guidance		Class 5	Class 4	Class 3	Class 2	Class 1													
Purpose of estimate	Concept Screening	Study or Feasibility Planning	Baseline Budget	Release-to-Proceed Authorization	Final or Firm Completion Price														
Approximate Contingency (%)	n/a	30%	20%	15%	10%														
Uncertainty Range (%)	-50% to +100%	-30% to +50%	-20% to +30%	-15% to +20%	-10% to +15%														
Estimate Basis	Parametric	Parametric (80%) / Detailed (20%)	Detailed (80%) / Parametric (20%)	Detailed	Detailed														
Source	Modelogix / PET	PET / WinEst	WinEst	WinEst	WinEst														
Time to Prepare Estimate (per \$200K)	< 8 hours	8 to 24 hours	20 to 40 hours	30 to 80 hours	60 to 120 hours														
GENERAL PROJECT STATUS																			
All Projects	Business Needs/Requirements	Preliminary	Preliminary/Complete	Complete	Complete/Updated	Complete/Final													
	Project Scope Description	Started	Preliminary/Complete	Complete	Complete/Updated	Complete/Final													
	Project Master Schedule	Started	Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	Project Team Structure	None	Preliminary	Complete	Complete/Updated	Complete/Final													
	Work Breakdown Structure	None	Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	Project Risk Assessment	None	Preliminary	Complete	Complete/Updated	Complete/Final													
	Alternatives Analysis	Started	Preliminary/Complete	Complete	Complete/Updated	Complete/Final													
	Escalation Strategy	None	Preliminary	Complete	Complete/Updated	Complete/Final													
	Contracting Strategy	Started	Preliminary	Complete	Complete/Updated	Complete/Final													
	Maintenance Plans	None	None	Started	Preliminary	Complete/Final													
OCM Plan (if needed)	Assessment	Preliminary	Preliminary/Complete	Complete	Complete/Updated														
GENERATION																			
Infrastructure Projects	Plot Plans	None	Started	Preliminary/Complete	Complete	Complete/Updated													
	Block Flow Diagrams	Started	Preliminary	Complete	Complete	Complete/Updated													
	Process Flow Diagrams	None	Started/Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	One-Line Drawings	None	Started/Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	Piping & Instrumentation Diagrams	None	Started/Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	Specifications and Datasheets	None	Started	Preliminary/Complete	Complete	Complete/Updated													
	Process Equipment List	Started	Started/Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	General Arrangement Drawings	None	Started	Preliminary/Complete	Complete	Complete/Updated													
	Project Engineering/Design	None	Started	Preliminary/Complete	Complete	Complete/Updated													
	Procurement	None	Started	Preliminary	Preliminary/Complete	Complete													
FACILITIES																			
Infrastructure Projects	Facility / Site Assessment	Started	Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	Space Utilization Analysis	Started	Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	Floor Plans and Sections	None	Started/Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	Mechanical / Electric / Plumbing Designs	None	Started	Preliminary	Preliminary/Complete	Complete													
	Furniture / Fixtures/ Equipment	None	Started	Preliminary	Preliminary/Complete	Complete													
	Network / Communications / Security	None	Started	Preliminary	Preliminary/Complete	Complete													
	Architectural Details/Schedules	None	None	Started/Preliminary	Preliminary/Complete	Complete													
	Specifications and Datasheets	None	None	Started/Preliminary	Preliminary/Complete	Complete													
T&D																			
Infrastructure Projects	Initial Planning Notification (prelim scope)	Started	Preliminary/Complete	Complete	Complete/Updated	Complete/Final													
	Design Configuration	Started	Preliminary	Complete	Complete/Updated	Complete/Final													
	Site/Route Selection	Started	Preliminary	Preliminary/Complete	Complete	Complete/Updated													
	Milestone Schedule	Started	Started/Preliminary	Complete	Complete/Updated	Complete/Final													
	Project Engineering/Design	None	Started/Preliminary	Preliminary	Complete	Complete/Updated													
	Permitting	None	Started	Preliminary	Preliminary/Complete	Complete													
	Procurement Plan	None	None	Preliminary	Preliminary/Complete	Complete													
	Construction Plan	None	None	Preliminary	Preliminary/Complete	Complete													
<table border="1"> <tr> <td>Purpose of estimate</td> <td>Concept Screening</td> <td></td> <td>Document baseline scope, schedule, budget, and resource plan</td> <td></td> <td>Confirm design. schedule, resource plan</td> </tr> <tr> <td>Uncertainty Range (%)</td> <td>-50% to +100%</td> <td></td> <td>-20% to +30%</td> <td></td> <td>-10% to +15%</td> </tr> </table>								Purpose of estimate	Concept Screening		Document baseline scope, schedule, budget, and resource plan		Confirm design. schedule, resource plan	Uncertainty Range (%)	-50% to +100%		-20% to +30%		-10% to +15%
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INFORMATION TECHNOLOGY / GENERAL PROJECT STATUS																			
IT Projects	Project Triage (Sizing and RADAR)	Complete		Complete		Complete													
	Scope	Preliminary		Complete		Updated													
	Resource Plan	Preliminary		Complete		Baselined													
	Security Risk Profile	Preliminary (via Triage)		Complete (In Archer)		Updated													
	Forecast	Preliminary		Complete		Baselined													
	Schedule	Preliminary		Complete		Updated													
	Procurement Plan	Preliminary		Complete		Updated													
	Requirements	Preliminary		Complete		Updated													
	Technical Feasibility Assessment (TFA)	None		Complete		Updated													
	Integrated Design Document (IDD)	None		Preliminary		Complete													
Quality Assurance (Test Plan)	None		Preliminary		Complete														
Training Plan (if applicable)	Started		Complete		Updated														