Summary Sheet Updated October 6, 2010

| Acct No | Description | Amount (\$) |
|-------------|---|---------------|
| 330 | Land and Land Rights. Permits, Owner Costs | 24,150,000 |
| 331 | Structures and Improvements | 0 |
| | Penstock Supply | 0 |
| 332 | All Other Reservoirs, Dams, and Waterways | 86,602,000 |
| 333 | Turbine and Generator Water To Wire Package | 0 |
| 334 | Accessory Electrical Equipment incl install | 0 |
| 335 | Misc. Mechanical Equipment incl install | 0 |
| 336 | Roads | 375,000 |
| 353 | Substation Equipment | 0 |
| 355 | Transmission Lines | 0 |
| | ESTIMATED COSTS SUBTOTAL | 111,127,000 |
| | WSST @ 7.9% | 8,779,033 |
| | SUBTOTAL | 119,906,033 |
| | Contingency Allowance (30%) | 35,971,800 |
| | TOTAL ESTIMATED DIRECT COST (rounded) | \$155,878,000 |
| Engineering | and Construction Management Assistance (6%) | 9,352,700 |
| T | OTAL DIRECT PROJECT COST 2010 (rounded) | 165,230,000 |

| Acc+ | No | Description | Quantity | Hnit | Unit | Amount |
|--------------------|-----|--|--------------------|------|--------------|------------|
| Acct | NO | Description | Quantity | Unit | Price | (\$) |
| 330 | | LAND AND LAND RIGHTS | | | | |
| 330 | .1 | Mobilization/Logistics/Permits | | | | |
| | .11 | Mobilize & Demob | 1 | LS | \$5,000,000 | \$5,000,0 |
| | .12 | Land acquisition | 1,500 | ACRE | \$10,000 | \$15,000,0 |
| | .13 | FERC Licensing | 0 | LS | \$0 | |
| | .14 | State and Local Permitting | 1 | LS | \$4,000,000 | \$4,000,0 |
| | .15 | BPA Coordination/costs | 1 | LS | \$50,000 | \$50, |
| | .16 | District internal costs, legal, etc | 1 | LS | \$100,000 | \$100, |
| | | Subtotal - Acc No. 330 - Land and | Land Rights | | | \$24,150, |
| 331 33 <i>1</i> | .1 | STRUCTURES AND IMPROVEMENTS Powerhouse | | | | |
| | | Subtotal - Powerhouse | | | | |
| | | Subtotal - Fowerhouse | | | | |
| 331 | .2 | Powerhouse Site/Switchyard | | | | |
| | | Subtotal - Powerhouse Site/Switchyard | | | | |
| | | Subtotal - Acc No. 331 - Structures | s and Improvements | | | |
| 332 | | RESERVOIRS, DAMS, AND WATERWAYS | | | | |
| 332 | .1 | Dam and Control Gates | | | | |
| | .11 | Clearing | 1,300 | ACRE | \$2,000 | \$2,600, |
| | .12 | Dewatering/care of water/cofferdam | 1 | LS | \$1,000,000 | \$1,000, |
| | .13 | Grout Curtain | 1 | LS | \$14,000,000 | \$14,000, |
| | .14 | Stripping-Dam Foundation | 775,000 | CY | \$16 | \$12,400, |
| | .15 | Dam Embankment | 4,683,000 | CY | \$5.5 | \$25,756, |
| | .16 | Trashracks | 1 | LS | \$30,000 | \$30, |
| | .17 | Up and Downstream Gates w/ operators | 2 | LS | \$100,000 | \$200, |
| | .18 | Dam Instrumentation | 1 | LS | \$10,000 | \$10, |
| | | | | LS | | |
| | .19 | Fish Passage (allowance for u/s trap and haul) | 1 | LS | \$10,000,000 | \$10,000, |
| | | Subtotal - Dam and Intake | | | | \$65,996, |
| 332 | .2 | Spillway | | 1005 | Φ2.222 | |
| | .21 | Clearing | 7 | ACRE | \$2,000 | \$14, |
| | .22 | Excavation | 75,000 | CY | \$20 | \$1,500, |
| | .23 | Concrete Overflow Crest | 3,000 | CY | \$500 | \$1,500, |
| | .25 | Chute Concrete | 8,055 | CY | \$600 | \$4,833, |
| | .26 | Stilling Basin Concrete | 1,700 | CY | \$600 | \$1,020, |
| | | Subtotal - Spillway | | | | \$8,867, |
| | | | | | | |
| 332 | .3 | Tunnel- 12' diameter | | | | |
| | .31 | Tunnel Excavation | 1,400 | LF | \$4,000 | \$5,600, |
| | .32 | 12 ft Diameter Steel Liner (Installation Included) | 1,400 | LF | \$1,200 | \$1,680, |
| | .33 | Upstream Portal Excavation | 1,900 | CY | \$65 | \$123, |
| | .34 | Upstream Portal Inlet Structure Concrete | 200 | CY | \$800 | \$160, |
| | .35 | Downstream Portal Excavation | 63,000 | CY | \$65 | \$4,095, |
| | .36 | Downstream Portal Outlet Structure Concrete | 100 | CY | \$800 | \$80, |
| | | | | | | |

| 332 | .4 | Penstock | | | | | |
|------------|-----|--|--------------------|-------------|-----------|--------------|--|
| | | Subtotal - Penstock Supply and Install | | | | \$0 | |
| | | Subtotal - Acc No. 332 - Reservoirs, | Dams and Water | ways | | \$86,602,000 | |
| 333 | .1 | TURBINES AND GENERATORS- Water To Wire Packag | je | | | | |
| | | Subtotal - Acc No. 333 - Turbines and | d Generators- Wa | ter To Wire | Contract | \$0 | |
| 334 | .1 | ACCESSORY ELECTRICAL EQUIPMENT | | | | | |
| | | Subtotal - Acc No. 334 - Accessory E | Electrical Equipme | ent | | \$0 | |
| 335 | .1 | MISCELLANEOUS MECHANICAL EQUIPMENT - POWERPLANT | | | | | |
| | | Subtotal - Acc No. 335 - Miscellaneo | ous Mechanical Eq | uipment | | \$0 | |
| 336 | .1 | ROADS | | | | | |
| | .11 | Permanent Roads (Allowance) | 1 | LS | \$150,000 | \$150,000 | |
| | .12 | Permanent Bridge (Allowance) | 1 | LS | \$100,000 | \$100,000 | |
| | .13 | Temporary Roads | 1 | LS | \$75,000 | \$75,000 | |
| | .14 | Temporary Bridges | 1 | LS | \$50,000 | \$50,000 | |
| | | Subtotal - Acc No. 336 - Roads | | | | \$375,000 | |
| 353 353 | .1 | SUBSTATION EQUIPMENT AND STRUCTURES Plant Switchyard | | | | | |
| | | · | , | | | Φ0 | |
| | | Subtotal - Acc. No. 353 Plant Switch | yard | | | \$0 | |
| 355 | | TRANSMISSION LINES | | | | | |
| 355 | .1 | Powerhouse to Puget Switchyard | | | | | |
| | | Subtotal - Acc No. 355 - Transmissio | on Lines | | | \$0 | |

South Fork Project (Flood Only) Preliminary Direct Construction Cost Estimate (2010 Dollars)

Summary Sheet Updated October 6, 2010

| Acct No. | Description | Amount (\$) |
|-------------|---|--------------|
| 330 | Land and Land Rights. Permits, Owner Costs | 15,150,000 |
| 331 | Structures and Improvements | 0 |
| | Penstock Supply Contract | 0 |
| 332 | All Other Reservoirs, Dams, and Waterways | 47,063,500 |
| 333 | Turbine and Generator Water To Wire Package | 0 |
| 334 | Accessory Electrical Equipment incl install | 0 |
| 335 | Misc. Mechanical Equipment incl install | 0 |
| 336 | Roads | 375,000 |
| 353 | Substation Equipment | 0 |
| 355 | Transmission Lines | 0 |
| | ESTIMATED COSTS SUBTOTAL | 62,588,500 |
| | WSST @ 7.9% | 4,944,492 |
| | SUBTOTAL | 67,532,992 |
| | Contingency Allowance (30%) | 20,259,900 |
| | TOTAL ESTIMATED DIRECT COST (rounded) | \$87,793,000 |
| Engineering | and Construction Management Assistance (6%) | 5,267,600 |
| Т | OTAL DIRECT PROJECT COST 2010 (rounded) | 93,060,000 |

South Fork Project (Flood Only) Preliminary Direct Construction Cost Estimate (2010 Dollars)

| Acct | t No | Description | Quantity | Unit | Unit Price | Amount (\$) |
|------------|--------------------------|--|---------------------|----------------|--------------------------|---|
| 330 | | LAND AND LAND RIGHTS | | | | |
| 330 | .1 | Mobilization/Logistics/Permits | | | | |
| | .11 | Mobilize & Demob | 1 | LS | \$5,000,000 | \$5,000,000 |
| | .12 | Land acquisition | 600 | ACRE | \$10,000 | \$6,000,000 |
| | .13 | FERC Licensing | 0 | LS | \$0 | \$(|
| | .14 | Other State and Local Permitting | 1 | LS | \$4,000,000 | \$4,000,000 |
| | .15 | BPA coordination/costs | 1 | LS | \$50,000 | \$50,000 |
| | .16 | District internal costs, legal, etc | 1 | LS | \$100,000 | \$100,00 |
| | . 10 | · | | | Ψ100,000 | |
| | | Subtotal - Acc No. 330 - Land and | Land Rights | | | \$15,150,000 |
| 331 331 | .1 | STRUCTURES AND IMPROVEMENTS Powerhouse | | | | |
| | | Subtotal - Powerhouse | | | | \$(|
| 331 | .2 | Powerhouse Site/Switchyard | | | | |
| | | Subtotal - Powerhouse Site/Switchyard | | | | \$(|
| | | Subtotal - Acc No. 331 - Structures | and Improvements | | | \$ |
| | | Gubtotal - Acc No. 551 - Gildetales | and improvements | | | Ψ |
| 332 332 | .1 | RESERVOIRS, DAMS, AND WATERWAYS Dam and Control Gates | | | | |
| | .11 | Clearing | 400 | ACRE | \$2,000 | \$800,00 |
| | .12 | Dewatering/care of Water/cofferdam | 1 | LS | \$1,000,000 | \$1,000,000 |
| | .13 | Grout Curtain | 1 | LS | \$1,400,000 | \$1,400,000 |
| | .14 | Stripping-Dam Foundation | 667,000 | CY | \$16 | \$10,672,000 |
| | .15 | Dam Embankment | 2,679,000 | CY | \$5.5 | \$14,734,500 |
| | .16 | Trashracks | 1 | LS | \$30,000 | \$30,000 |
| | .17 | Up and Downstream Gates w/ Operators | 2 | LS | \$100,000 | \$200,000 |
| | .18 | Dam Instrumentation | <u>2</u> 1 | LS | \$10,000 | \$10,000 |
| | .19 | Fish Passage (allowance for u/s trap and haul) | 1 | LS | \$10,000,000 | \$10,000,000 |
| | | There is a stage and many | · · · | | ψ10,000,000 | ψ10,000,00 |
| | | Subtotal - Dam and Intake | | | | \$38,846,500 |
| 332 | .2 | Spillway Clearing | 3 | ACRE | \$2,000 | \$6.00 |
| | .22 | Excavation | 59,250 | CY | \$2,000 | \$1,185,000 |
| | .23 | | 0 | CY | \$500 | \$1,100,000 |
| | .25 | Concrete Overflow Crest (Included in Chute) Chute Concrete | 4,900 | CY | \$600 | \$2,940,000 |
| | .26 | Stilling Basin Concrete | 1,500 | CY | \$600 | \$900,000 |
| | .20 | ÿ | 1,300 | CI | φουσ | |
| | | | | | | \$5,031,00 |
| | | Subtotal - Spillway | | | | |
| | | Subtotal - Spillway | | | | |
| 332 | .3 | Tunnel- 12' diameter | | | | |
| 332 | . 3 | Tunnel- 12' diameter Tunnel Excavation | 400 | LF | \$4,000 | |
| 332 | | Tunnel- 12' diameter | 400 1,100 | LF FT | \$4,000 \$1,200 | |
| 332 | .31 | Tunnel- 12' diameter Tunnel Excavation | | | | \$1,320,000 |
| 332 | .31 | Tunnel- 12' diameter Tunnel Excavation 12ft Diameter Steel Liner (Installation Included) | 1,100 | FT | \$1,200 | \$1,320,000 \$13,000 |
| 332 | .31 .32 .33 | Tunnel- 12' diameter Tunnel Excavation 12ft Diameter Steel Liner (Installation Included) Upstream Portal Excavation | 1,100 200 | FT CY | \$1,200 \$65 | \$1,600,000 \$1,320,000 \$13,000 \$160,000 \$13,000 |
| 332 | .31 .32 .33 .34 | Tunnel- 12' diameter Tunnel Excavation 12ft Diameter Steel Liner (Installation Included) Upstream Portal Excavation Upstream Portal Inlet Structure Concrete | 1,100 200 200 | FT CY CY | \$1,200 \$65 \$800 | \$1,320,000 \$13,000 |

South Fork Project (Flood Only) Preliminary Direct Construction Cost Estimate (2010 Dollars)

| 332 | .4 | Penstock | | | | |
|------------|-----|--|-------------------------------|---------------|------------|--------------|
| | | Subtotal - Penstock Supply and Install | | | | \$0 |
| | | Subtotal - Acc No. 332 | - Reservoirs, Dams and Wa | erways | | \$47,063,500 |
| 333 | .1 | TURBINES AND GENERATORS- Water To | Wire Package | | | |
| | | Subtotal - Acc No. 333 | - Turbines and Generators- \ | Vater To Wire | e Contract | \$0 |
| 334 | .1 | ACCESSORY ELECTRICAL EQUIPMENT | | | | |
| | | Subtotal - Acc No. 334 | - Accessory Electrical Equipr | nenı | | \$0 |
| 335 | .1 | MISCELLANEOUS MECHANICAL EQUIPM | ENT - POWERPLANT | | | |
| | | Subtotal - Acc No. 335 | - Miscellaneous Mechanical | Equipment | | \$0 |
| 336 | .1 | ROADS | | | | |
| | .11 | Permanent Roads (Allowance) | 1 | LS | \$150,000 | \$150,000 |
| | .12 | Permanent Bridge (Allowance) | 1 | LS | \$100,000 | \$100,000 |
| | .13 | Temporary Roads | 1 | LS | \$75,000 | \$75,000 |
| | .14 | Temporary Bridges | 1 | LS | \$50,000 | \$50,000 |
| | | Subtotal - Acc No. 336 | - Roads | | | \$375,000 |
| 353 353 | .1 | SUBSTATION EQUIPMENT AND STRUCTU Plant Switchyard | JRES | | | |
| | | Subtotal - Acc. No. 353 | Plant Switchyard | | | \$0 |
| 355 355 | .1 | TRANSMISSION LINES Powerhouse to Puget Switchyard | | | | |
| | | | - Transmission Lines | | | \$0 |

Summary Sheet Updated September 2, 2010

| Amount (\$) | Description | Acct No |
|---------------|---|-------------|
| 28,650,000 | Land and Land Rights. Permits, Owner Costs | 330 |
| 4,588,700 | Structures and Improvements | 331 |
| 257,000 | Penstock Supply | |
| 121,145,290 | All Other Reservoirs, Dams, and Waterways | 332 |
| 7,774,750 | Turbine and Generator Water To Wire Package | 333 |
| 452,850 | Accessory Electrical Equipment incl install | 334 |
| 1,050,000 | Misc. Mechanical Equipment incl install | 335 |
| 375,000 | Roads | 336 |
| 250,000 | Substation Equipment | 353 |
| 275,000 | Transmission Lines | 355 |
| 164,818,600 | ESTIMATED COSTS SUBTOTAL | |
| 13,020,669 | WSST @ 7.9% | |
| 177,839,269 | SUBTOTAL | |
| 53,351,800 | Contingency Allowance (30%) | |
| \$231,191,000 | TOTAL ESTIMATED DIRECT COST (rounded) | |
| 13,871,500 | g and Construction Management Assistance (6%) | Engineering |
| 245,060,000 | OTAL DIRECT PROJECT COST 2010 (rounded) | TO |

| | Description | Quantity | Unit | Unit Price | Amount (\$) |
|---|---|---|--|--|--|
| 330 | LAND AND LAND RIGHTS | | | | |
| 330 .1 | Mobilization/Logistics/Permits | | | | |
| .11 | Mobilize & Demob | 1 | LS | \$5,000,000 | \$5,000,00 |
| .12 | Land acquisition | 1,500 | ACRE | \$10,000 | \$15,000,00 |
| .13 | FERC Licensing | 1 | LS | \$8,000,000 | \$8,000,00 |
| .14 | State and Local Permitting | 1 | LS | \$500,000 | \$500,00 |
| .15 | BPA Coordination/costs | 1 | LS | \$50,000 | \$50,00 |
| .16 | District internal costs, legal, etc | 1 | LS | \$100,000 | \$100,00 |
| | Subtotal - Acc No. 330 - Land and Land R | ights | | | \$28,650,00 |
| 331 <i>331 .1</i> | STRUCTURES AND IMPROVEMENTS Powerhouse | | | | |
| .11 | Clearing (P.H. & Switchyard) | 3.5 | ACRE | \$5,000 | \$17,50 |
| .11 | Excavation and Grading (Downstream Tunnel Portal Included) | 208,825 | CY | \$5,000 \$16 | \$3,341,20 |
| | Tailrace Cofferdam/Dewatering | | LS | \$50,000 | \$5,341,20 |
| .13 | Concrete Foundations | 1 | CY | <u> </u> | |
| .14 | | 480 | SQ FT | \$600 | \$288,00 |
| .15 | Concrete Block Building (50'x125'x30' High) | 6,250 | | \$25 | \$156,25 |
| .16 | Roof System w/Steel Joist Supports | 6,250 | SQ FT | \$35 | \$218,75 |
| .17 | Concrete Thrust Block | 252 | CY | \$500 | \$126,00 |
| .18 | Valve House (15x35) | 525 | SQ FT | \$40 | \$21,00 |
| .19 | Draft Tube Gates | 2 | EA | \$75,000 | \$150,00 |
| .110 | Howell Bunger Valve | 1 | EA | \$100,000 | \$100,00 |
| | Subtotal - Powerhouse | | | | \$4,468,70 |
| 331 .2 | Powerhouse Site/Switchyard | 100 | 0)/ | | 400.00 |
| .21 | Switchyard Concrete Foundations | 100 | CY | \$800 | \$80,00 |
| .23 | Fencing, Lighting and Misc | 1 | LS | \$10,000 | \$10,00 |
| .24 | Grounding Grid | 1 | LS | \$10,000 | \$10,00 |
| .25 | Oil Spill Containment | 1 | LS | \$20,000 | \$20,00 |
| | | | | | # 400.00 |
| | Subtotal - Powerhouse Site/Switchyard | | | | \$120,00 |
| | Subtotal - Powerhouse Site/Switchyard Subtotal - Acc No. 331 - Structures and In | nprovements | | | |
| 332 | Subtotal - Acc No. 331 - Structures and In | nprovements | | | |
| 332 .1 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower | | ACDE | 60 000 | \$4,588,70 |
| 332 .1 .11 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing | 1,500 | ACRE | \$2,000 | \$4,588,70 \$3,000,00 |
| .11 .12 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam | 1,500 | LS | \$1,000,000 | \$4,588,70 \$3,000,00 \$1,000,00 |
| .11 .12 .13 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain | 1,500 1 | LS LS | \$1,000,000 \$14,000,000 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 |
| .11 .12 .13 .14 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation | 1,500 1 1 1,107,000 | LS LS CY | \$1,000,000 \$14,000,000 \$16 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 |
| .11 .12 .13 .14 .15 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment | 1,500 1 1 1,107,000 7,815,000 | LS LS CY CY | \$1,000,000 \$14,000,000 \$16 \$5.5 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 |
| 332 .1 .11 .12 .13 .14 .15 | Subtotal - Acc No. 331 - Structures and Interest RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower | 1,500 1 1 1,107,000 7,815,000 7,020 | LS LS CY CY | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 \$5,616,00 |
| 332 .1 .11 .12 .13 .14 .15 .16 | Subtotal - Acc No. 331 - Structures and Intervention RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower Trashracks | 1,500 1 1 1,107,000 7,815,000 7,020 1 | LS LS CY CY CY LS | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 \$30,000 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 \$5,616,00 \$30,00 |
| 332 .1 .11 .12 .13 .14 .15 .16 .17 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower Trashracks Gates w/ operators | 1,500 1 1 1,107,000 7,815,000 7,020 1 2 | LS LS CY CY CY LS LS | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 \$30,000 \$100,000 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 \$5,616,00 \$30,00 \$200,00 |
| 332 .1 .11 .12 .13 .14 .15 .16 .17 .18 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower Trashracks Gates w/ operators Dam Instrumentation | 1,500 1 1 1,107,000 7,815,000 7,020 1 2 1 | LS LS CY CY CY LS LS LS | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 \$30,000 \$100,000 \$10,000 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 \$5,616,00 \$30,00 \$200,00 \$10,00 |
| 332 .1 .11 .12 .13 .14 .15 .16 .17 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower Trashracks Gates w/ operators | 1,500 1 1 1,107,000 7,815,000 7,020 1 2 | LS LS CY CY CY LS LS LS LS LS | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 \$30,000 \$100,000 \$10,000 \$5 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 \$5,616,00 \$30,00 \$200,00 \$10,00 \$75,00 |
| 332 .1 .11 .12 .13 .14 .15 .16 .17 .18 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower Trashracks Gates w/ operators Dam Instrumentation | 1,500 1 1 1,107,000 7,815,000 7,020 1 2 1 | LS LS CY CY CY LS LS LS | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 \$30,000 \$100,000 \$10,000 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 \$5,616,00 \$30,00 \$200,00 \$10,00 \$75,00 |
| 332 .1 .11 .12 .13 .14 .15 .16 .17 .18 .19 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower Trashracks Gates w/ operators Dam Instrumentation Miscellaneous Metals (grating, handrail, decking, etc.) | 1,500 1 1 1,107,000 7,815,000 7,020 1 2 1 15,000 | LS LS CY CY CY LS LS LS LS LS | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 \$30,000 \$100,000 \$10,000 \$5 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 \$5,616,00 \$30,00 \$200,00 \$10,00 \$75,00 \$20,00 |
| 332 .1 .11 .12 .13 .14 .15 .16 .17 .18 .19 .110 | Subtotal - Acc No. 331 - Structures and In RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower Trashracks Gates w/ operators Dam Instrumentation Miscellaneous Metals (grating, handrail, decking, etc.) Electrical Conduit and Wiring, Grounding | 1,500 1 1,107,000 7,815,000 7,020 1 2 1 15,000 1 | LS LS CY CY CY LS LS LS LS LS LS | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 \$30,000 \$100,000 \$10,000 \$5 \$20,000 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 \$5,616,00 \$30,00 \$10,00 \$75,00 \$20,00 \$5,00 |
| 332 .1 .11 .12 .13 .14 .15 .16 .17 .18 .19 .110 .111 .112 | Subtotal - Acc No. 331 - Structures and Intervention RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower Trashracks Gates w/ operators Dam Instrumentation Miscellaneous Metals (grating, handrail, decking, etc.) Electrical Conduit and Wiring, Grounding Heating, Lighting and Ventilation Intake Control Building | 1,500 1 1,107,000 7,815,000 7,020 1 2 1 15,000 1 | LS LS CY CY CY LS LS LS LS LS SQ FT | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 \$30,000 \$100,000 \$10,000 \$5 \$20,000 \$5,000 | \$4,588,70 \$3,000,00 \$1,000,00 \$14,000,00 \$17,712,00 \$42,982,50 \$5,616,00 \$30,00 \$10,00 \$75,00 \$20,00 \$5,00 \$42,24 |
| 332 .1 .11 .12 .13 .14 .15 .16 .17 .18 .19 .110 .111 | Subtotal - Acc No. 331 - Structures and Interpretation RESERVOIRS, DAMS, AND WATERWAYS Dam and Intake Tower Clearing Dewatering/care of water/cofferdam Grout Curtain Stripping-Dam Foundation Dam Embankment Reinforced Concrete For Intake Tower Trashracks Gates w/ operators Dam Instrumentation Miscellaneous Metals (grating, handrail, decking, etc.) Electrical Conduit and Wiring, Grounding Heating, Lighting and Ventilation | 1,500 1 1,107,000 7,815,000 7,020 1 2 1 15,000 1 1 384 | LS LS CY CY CY LS LS LS LS LS LS LS LS | \$1,000,000 \$14,000,000 \$16 \$5.5 \$800 \$30,000 \$100,000 \$5 \$20,000 \$5,000 | \$120,000 \$4,588,700 \$3,000,000 \$1,000,000 \$14,000,000 \$17,712,000 \$42,982,500 \$5,616,000 \$200,000 \$10,000 \$75,000 \$20,000 \$5,000 \$42,24 \$20,000 \$18,000,000 |

| 332 | .2 | Spillway | | | | | | |
|-----|------|--|--------------|--------------|-----------|--------------|--|--|
| | .21 | Clearing | 7 | ACRE | \$2,000 | \$14,00 | | |
| | .22 | Excavation | 75,000 | CY | \$20 | \$1,500,00 | | |
| | .23 | Concrete Overflow Crest | 3,000 | CY | \$500 | \$1,500,00 | | |
| | .25 | Chute Concrete | 8,055 | CY | \$600 | \$4,833,00 | | |
| | .26 | Stilling Basin Concrete | 1,700 | CY | \$600 | \$1,020,00 | | |
| | | Subtotal - Spillway | | | | \$8,867,00 | | |
| 332 | .3 | Tunnel- 12' diameter | | | | | | |
| | .31 | Tunnel Excavation | 1,800 | LF | \$4,000 | \$7,200,00 | | |
| | .32 | Portal Excavation (Upstream Only, Downstream see P.H.) | 6,950 | CY | \$65 | \$451,75 | | |
| | .33 | 12 ft Diameter Steel Liner (Installation Included) | 1,800 | FT | \$1,200 | \$2,160,00 | | |
| | .34 | Concrete Plug at Downstream Portal | 18 | CY | \$600 | \$10,80 | | |
| | | Subtotal - Tunnel- 12' diameter | | | | \$9,822,55 | | |
| 332 | .4 | Penstock | | | | | | |
| | .41 | Supply and Install Steel Pipe (102" Diameter) | 250 | FT | \$700 | \$175,00 | | |
| | .42 | Supply and Install Steel Pipe (48" Diameter) | 100 | FT | \$520 | \$52,00 | | |
| | .43 | Pipe Fittings and Appurtenances | 1 | LS | \$30,000 | \$30,00 | | |
| | | Subtotal - Penstock Supply and Install | | | | \$257,00 | | |
| | | Subtotal - Acc No. 332 - Reservoirs, Dams a | and Waterw | ays . | | \$121,402,29 | | |
| 333 | .1 | TURBINES AND GENERATORS- Water To Wire Package | | | | | | |
| | .11 | Hydraulic Turbines (based on recent bids) w HPU/LPU | 10,000 | kW | \$300 | \$3,000,00 | | |
| | .12 | Generator and Accessories (6.9 kV) | 10,000 | kW | \$300 | \$3,000,00 | | |
| | .13 | Generator Switchgear and Bus (15 KV metal clad switchgear) | 2 | EA | \$256,000 | \$512,00 | | |
| | .14 | Powerhouse Station Service System | 1 | EA | \$75,000 | \$75,00 | | |
| | .15 | Protection and Controls | 1 | LS | \$400,000 | \$400,00 | | |
| | .16 | Turbine Shutoff Valve | 2 | EA | \$150,000 | \$300,00 | | |
| | .17 | Engine Gen Sets, Propane w tanks (1-dam, 1-PH) | 2 | EA | \$50,000 | \$100,00 | | |
| | .18 | Main Power Transformer (6.9 kV to 12.5 kV) | 11,110 | kVA | \$25 | \$277,75 | | |
| | .19 | PTs, CTs and Protective Gear | 2 | LS | \$30,000 | \$60,00 | | |
| | .110 | Line Circuit Breaker and Switches (15 kV) | 1 | LS | \$50,000 | \$50,00 | | |
| | | Subtotal - Acc No. 333 - Turbines and Gener | rators- Wate | er To Wire (| Contract | \$7,774,75 | | |
| 334 | .1 | ACCESSORY ELECTRICAL EQUIPMENT | | | | | | |
| | .11 | Generator Switchgear and Bus (15 KV metal clad switchgear) | 1 | EA | \$0 | abov | | |
| | .12 | Station Service System | 1 | EA | \$0 | abov | | |
| | .13 | Protection and Controls | 1 | LS | \$0 | abov | | |
| | .14 | Grounding | 1 | LS | \$10,000 | \$10,00 | | |
| | .15 | Powerhouse Interior Lighting | 1 | LS | \$10,000 | \$10,00 | | |
| | .16 | Powerline to Dam- material and install in conduit incl vaults | 1,300 | FT | \$23 | \$29,90 | | |
| | .17 | Communications Line to Dam- mat'l & install in conduit/vaults | 1,300 | FT | \$15 | \$19,50 | | |
| | .18 | Wire, Cables, Ducts, and Cable Trays | 1 | LS | \$50,000 | \$50,00 | | |
| | .19 | Valve House power feed | 150 | FT | \$23 | \$3,45 | | |
| | .110 | Electrical Equipment Installation & all wiring-powerhouse | 1 | LS | \$180,000 | \$180,00 | | |
| | .111 | Electrical Equipment Installation and all wiring- intake/valve hou | 1 | LS | \$100,000 | \$100,00 | | |
| | .112 | Powerhouse Video Surveillance and security Systems | 1 | LS | \$50,000 | \$50,00 | | |
| | | | | | | | | |

| 335 | .1 | MISCELLANEOUS MECHANICAL EQUIPMENT - POWERPLA | NT | | | |
|------------|-----|--|--------------|---------|-----------|-------------|
| | .11 | Heating and Ventilating | 1 | LS | \$50,000 | \$50,000 |
| | .12 | Dewatering, Drainage and Plumbing | 1 | LS | \$100,000 | \$100,000 |
| | .13 | Bridge Crane - 30 ton | 1 | LS | \$200,000 | \$200,000 |
| | .14 | Fire Alarm System | 1 | LS | \$10,000 | \$10,000 |
| | .15 | Misc Metals, gates, handrails | 15,000 | LB | \$5 | \$75,000 |
| | .16 | Bathroom, septic system | 1 | LS | \$15,000 | \$15,000 |
| | .17 | Installation of Misc Mechanical Equip- intake tower | 1 | LS | \$50,000 | \$50,000 |
| | .18 | Installation of Misc Mechanical Equip powerhouse | 1 | LS | \$50,000 | \$50,000 |
| | .19 | Installation Turbine and Generator | 2 | LS | \$250,000 | \$500,000 |
| | | Subtotal - Acc No. 335 - Miscellaneous Me | chanical Equ | iipment | | \$1,050,000 |
| 336 | .1 | ROADS | | | | |
| | .11 | Permanent Roads (Allowance) | 1 | LS | \$150,000 | \$150,000 |
| | .12 | Permanent Bridge (Allowance) | 1 | LS | \$100,000 | \$100,000 |
| | .13 | Temporary Roads | 1 | LS | \$75,000 | \$75,000 |
| | .14 | Temporary Bridges | 1 | LS | \$50,000 | \$50,000 |
| | | Subtotal - Acc No. 336 - Roads | | | | \$375,000 |
| 353 353 | .1 | SUBSTATION EQUIPMENT AND STRUCTURES Plant Switchyard | | | | |
| | .11 | Installation of Switchyard Equipment | 1 | LS | \$200,000 | \$200,000 |
| | .12 | Steel Structures | 1 | LS | \$50,000 | \$50,000 |
| | | Subtotal - Acc. No. 353 Plant Switchyard | | | | \$250,000 |
| 355 | _ | TRANSMISSION LINES | | | | |
| 355 | .1 | Powerhouse to Puget Switchyard 12.5 kV line to POI (1 mile new /2 mile upgrade) | 3.00 | miles | | #200 000 |
| | .11 | , | | | ФО. | \$200,000 |
| | .12 | Conductors- buried, 3 phase (2.5 miles) - #4/0 MV cable | 0 | FT | \$0 | included |
| | .13 | Fiberoptic Cable for Communications | 0 | FT | \$0 | included |
| | .14 | Tie-In disconnect sw and accessories | 1 | LS | \$25,000 | \$25,000 |
| | .15 | Electrical Vaults | 0 | FT | \$0 | included |
| | .16 | Fiber Vaults | 0 | FT | \$0 | included |
| | .17 | PUD Metering Cabinet at POI | 1 | LS | \$50,000 | \$50,000 |
| | | Subtotal - Acc No. 355 - Transmission Line | ·s | | | \$275,000 |

Summary Sheet

Updated September 2, 2010

| Acct No. | Description | Amount (\$) |
|-------------|---|---------------|
| 330 | Land and Land Rights. Permits, Owner Costs | 19,650,000 |
| 331 | Structures and Improvements | 1,671,600 |
| | Penstock Supply Contract | 594,300 |
| 332 | All Other Reservoirs, Dams, and Waterways | 72,409,690 |
| 333 | Turbine and Generator Water To Wire Package | 2,752,000 |
| 334 | Accessory Electrical Equipment incl install | 471,850 |
| 335 | Misc. Mechanical Equipment incl install | 1,050,000 |
| 336 | Roads | 375,000 |
| 353 | Substation Equipment | 250,000 |
| 355 | Transmission Lines | 675,000 |
| | ESTIMATED COSTS SUBTOTAL | 99,899,400 |
| | WSST @ 7.9% | 7,892,053 |
| | SUBTOTAL | 107,791,453 |
| | Contingency Allowance (30%) | 32,337,400 |
| | TOTAL ESTIMATED DIRECT COST (rounded) | \$140,129,000 |
| Engineering | and Construction Management Assistance (6%) | 8,407,700 |
| Т | OTAL DIRECT PROJECT COST 2010 (rounded) | 148,540,000 |

| 330 .1 .11 .12 .13 .16 .11 .12 .13 .14 .15 .16 .11 .12 .13 .14 .15 .15 | LAND AND LAND RIGHTS Mobilization/Logistics/Permits Mobilize & Demob Land acquisition FERC Licensing Other State and Local Permitting BPA coordination/costs District internal costs, legal, etc Subtotal - Acc No. 330 - Land and Land STRUCTURES AND IMPROVEMENTS Powerhouse | 1 600 1 1 1 1 | LS ACRE LS LS LS LS | \$5,000,000 \$10,000 \$8,000,000 \$500,000 \$50,000 \$100,000 | \$5,000,000 \$6,000,000 \$8,000,000 \$500,000 \$100,000 |
|---|--|---------------------------------------|------------------------------------|--|---|
| .11 .12 .13 .14 .15 .16 331 .331 .1 .11 .12 .13 | Mobilize & Demob Land acquisition FERC Licensing Other State and Local Permitting BPA coordination/costs District internal costs, legal, etc Subtotal - Acc No. 330 - Land and Land STRUCTURES AND IMPROVEMENTS Powerhouse | 600 1 1 1 1 | ACRE LS LS LS | \$10,000 \$8,000,000 \$500,000 \$50,000 | \$6,000,000 \$8,000,000 \$500,000 \$500,000 |
| .12 .13 .14 .15 .16 .16 .331 .331 .1 .11 .12 .13 .14 | Land acquisition FERC Licensing Other State and Local Permitting BPA coordination/costs District internal costs, legal, etc Subtotal - Acc No. 330 - Land and Land STRUCTURES AND IMPROVEMENTS Powerhouse | 600 1 1 1 1 | ACRE LS LS LS | \$10,000 \$8,000,000 \$500,000 \$50,000 | \$6,000,000 \$8,000,000 \$500,000 \$500,000 |
| 331 331 .12 .13 .11 .11 .12 .13 | FERC Licensing Other State and Local Permitting BPA coordination/costs District internal costs, legal, etc Subtotal - Acc No. 330 - Land and Land STRUCTURES AND IMPROVEMENTS Powerhouse | 1 1 1 | LS LS LS | \$8,000,000 \$500,000 \$50,000 | \$6,000,00 \$8,000,00 \$500,00 \$50,00 |
| 331 331 .11 .12 .13 .14 | FERC Licensing Other State and Local Permitting BPA coordination/costs District internal costs, legal, etc Subtotal - Acc No. 330 - Land and Land STRUCTURES AND IMPROVEMENTS Powerhouse | 1 1 1 | LS LS | \$8,000,000 \$500,000 \$50,000 | \$8,000,000 \$500,000 \$50,000 |
| .15 .16 331 331 .1 .11 .12 .13 .14 | Other State and Local Permitting BPA coordination/costs District internal costs, legal, etc Subtotal - Acc No. 330 - Land and Land STRUCTURES AND IMPROVEMENTS Powerhouse | 1 | LS | \$500,000 \$50,000 | \$50,00 |
| .16 331 331 .1 .11 .12 .13 .14 | BPA coordination/costs District internal costs, legal, etc Subtotal - Acc No. 330 - Land and Land STRUCTURES AND IMPROVEMENTS Powerhouse | 1 | | | |
| 331 331 .1 .11 .12 .13 .14 | Subtotal - Acc No. 330 - Land and Land STRUCTURES AND IMPROVEMENTS Powerhouse | | LS | \$100,000 | \$100,000 |
| .11 .12 .13 .14 | STRUCTURES AND IMPROVEMENTS Powerhouse | d Rights | | | |
| 331 .1 .11 .12 .13 .14 | Powerhouse | | | | \$19,650,00 |
| .11 .12 .13 | | | | | |
| .12 .13 .14 | Clearing (P.H. & Switchyard) | 2 | ACRE | \$5,000 | \$10,00 |
| .13 .14 | Excavation and Grading (Downstream Portal Included) | 33,600 | CY | \$16 | \$537,60 |
| .14 | Concrete Foundations | 480 | CY | \$600 | \$288,00 |
| | Concrete Block Building (50'x125'x30' High) | 6,250 | SQ FT | \$25 | \$156,25 |
| . 10 | Roof System w/Steel Joist Supports | 6,250 | SQ FT | \$35 | \$218,75 |
| .16 | Concrete Thrust Block | 140 | CY | \$500 | \$70,00 |
| .17 | Valve House (15x35) | 525 | SQ FT | \$40 | \$21,00 |
| .18 | Draft Tube Gates | 2 | EA | \$75,000 | \$150,00 |
| .19 | Howell Bunger Valve | 1 | EA | \$100,000 | \$100,00 |
| | Subtotal - Powerhouse | | | | \$1,551,60 |
| 204 0 | Daniel and Citation I | | | | |
| 331 .2 .21 | Powerhouse Site/Switchyard Switchyard Concrete Foundations | 100 | CY | \$800 | \$80,00 |
| .23 | Fencing, Lighting and Misc | 100 | LS | \$10,000 | \$10,00 |
| .24 | Grounding Grid | 1 | LS | \$10,000 | \$10,00 |
| .25 | Oil Spill Containment | 1 | LS | \$20,000 | \$20,00 |
| .20 | · | · · | | Ψ20,000 | |
| | Subtotal - Powerhouse Site/Switchyard | | | | \$120,00 |
| | Subtotal - Acc No. 331 - Structures and | Improvements | | | \$1,671,60 |
| 332 | RESERVOIRS, DAMS, AND WATERWAYS | | | | |
| 332 .1 .11 | Dam and Intake Tower Clearing | 600 | ACRE | \$2.000 | \$1,200,00 |
| | | 1 | LS | \$1,000,000 | \$1,200,00 |
| .12 | Dewatering/care of Water/cofferdam | | | | |
| .13 | Grout Curtain | 1,200 1 | LS | \$1,200 \$1,400,000 | \$1,440,00 |
| | | | CY | | \$1,400,00 |
| .15 | Stripping-Dam Foundation | 880,600 | | \$16 | \$14,089,60 |
| .16 | Dam Embankment | 4,250,000 | CY | \$5.5 | \$23,375,00 |
| .17 | Reinforced Concrete For Intake Tower Trashracks | 4,600 | CY | \$800 | \$3,680,00 |
| .18 | | · · · · · · · · · · · · · · · · · · · | LS | \$30,000 | \$30,00 |
| .19 | Gates w/ operators | 2 | LS | \$100,000 | \$200,00 |
| .110 | Dam Instrumentation | 1 15 000 | LS | \$10,000 | \$10,00 |
| .111 | Miscellaneous Metals (grating, handrail, decking, etc.) | 15,000 | LB | \$5 | \$75,00 |
| .112 | Electrical Conduit and Wiring, Grounding | 1 | LS | \$20,000 | \$20,00 |
| .113 | Heating, Lighting and Ventilation | 1 | LS | \$5,000 | \$5,00 |
| .114 | Intake Control Building | 384 | SQ FT | \$110 | \$42,24 |
| | Intake Control Panel and HMI/PLC | 1 | LS | \$20,000 | \$20,00 |
| .115 | Fish Passage (allowance for u/s and d/s trap and haul) | 1 | LS | \$18,000,000 | \$18,000,000 |
| | | | | | _ |

| 332 | .2 | Spillway | | | | | | | | |
|-----|------|--|------------|------|-----------|-------------|--|--|--|--|
| | .21 | Clearing | 3 | ACRE | \$2,000 | \$6,00 | | | | |
| | .22 | Excavation | 59,250 | CY | \$20 | \$1,185,00 | | | | |
| | .23 | Concrete Overflow Crest (Included in Chute) | 0 | CY | \$500 | \$ | | | | |
| | .25 | Chute Concrete | 4,900 | CY | \$600 | \$2,940,00 | | | | |
| | .26 | Stilling Basin Concrete | 1,500 | CY | \$600 | \$900,00 | | | | |
| | | Subtotal - Spillway | | | | \$5,031,00 | | | | |
| 332 | .3 | Tunnel- 12' diameter | | | | | | | | |
| | .31 | Tunnel Excavation | 400 | LF | \$4,000 | \$1,600,00 | | | | |
| | .32 | Portal Excavation (Upstream Only, Downstream see P.H.) | 6,950 | CY | \$65 | \$451,75 | | | | |
| | .33 | 12ft Diameter Steel Liner (Installation Included) | 1,100 | FT | \$1,200 | \$1,320,00 | | | | |
| | .34 | Concrete Plug at Downstream Portal | 24 | CY | \$600 | \$14,40 | | | | |
| _ | | Subtotal - Tunnel- 12' diameter | | | | \$3,386,15 | | | | |
| 332 | .4 | Penstock | | | | | | | | |
| | .41 | Supply and Install Steel Pipe (60" Diameter) | 665 | FT | \$700 | \$465,50 | | | | |
| | .42 | Supply and Install Steel Pipe (48" Diameter) | 190 | FT | \$520 | \$98,80 | | | | |
| | .43 | Pipe Fittings and Appurtenances | 1 | LS | \$30,000 | \$30,00 | | | | |
| | | Subtotal - Penstock Supply and Install | | | | \$594,30 | | | | |
| | | Subtotal - Acc No. 332 - Reservoirs, Dams | and Waterv | vays | | \$73,003,99 | | | | |
| 333 | .1 | TURBINES AND GENERATORS- Water To Wire Package | | | | | | | | |
| | .11 | Hydraulic Turbines (based on recent bids) w HPU/LPU | 2,000 | kW | \$300 | \$600,00 | | | | |
| | .12 | Generator and Accessories (6.9 kV) | 2,000 | kW | \$300 | \$600,00 | | | | |
| | .13 | Generator Switchgear and Bus (15 KV metal clad switchgear) | 2 | EA | \$256,000 | \$512,00 | | | | |
| | .14 | Powerhouse Station Service System | 1 | EA | \$75,000 | \$75,00 | | | | |
| | .15 | Protection and Controls | 1 | LS | \$400,000 | \$400,00 | | | | |
| | .16 | Turbine Shutoff Valve | 2 | EA | \$150,000 | \$300,00 | | | | |
| | .17 | Engine Gen Sets, Propane w tanks (1-intake, 1-PH) | 2 | EA | \$50,000 | \$100,00 | | | | |
| | .18 | Main Power Transformer (6.9 kV to 34.5 kV) | 2,200 | kVA | \$25 | \$55,00 | | | | |
| | .19 | PTs, CTs and Protective Gear | 2 | LS | \$30,000 | \$60,00 | | | | |
| | .110 | Line Circuit Breakers and Switches | 1 | LS | \$50,000 | \$50,00 | | | | |
| | | Subtotal - Acc No. 333 - Turbines and Generators- Water To Wire Contract | | | | | | | | |
| 334 | .1 | ACCESSORY ELECTRICAL EQUIPMENT | | | | | | | | |
| | .11 | Generator Switchgear and Bus (15 KV metal clad switchgear) | 1 | EA | \$0 | abov | | | | |
| | .12 | Station Service System | 1 | EA | \$0 | abov | | | | |
| | .13 | Protection and Controls | 1 | LS | \$0 | abov | | | | |
| | .14 | Grounding | 1 | LS | \$10,000 | \$10,00 | | | | |
| | .15 | Powerhouse Interior Lighting | 1 | LS | \$10,000 | \$10,00 | | | | |
| | .16 | Powerline to Dam- material and install in conduit incl vaults | 1,800 | FT | \$23 | \$41,40 | | | | |
| | .17 | Communications Line to Dam- mat'l & install in conduit/vaults | 1,800 | FT | \$15 | \$27,00 | | | | |
| | .18 | Wire, Cables, Ducts, and Cable Trays | 1 | LS | \$50,000 | \$50,00 | | | | |
| | .19 | Valve House power feed | 150 | FT | \$23 | \$3,45 | | | | |
| | .110 | Electrical Equipment Installation & all wiring-powerhouse | 1 | LS | \$180,000 | \$180,00 | | | | |
| | .111 | Electrical Equipment Installation and all wiring- intake | 1 | LS | \$100,000 | \$100,00 | | | | |
| | .112 | Powerhouse Video Surveillance and security Systems | 1 | LS | \$50,000 | \$50,00 | | | | |
| | | | | | | | | | | |

| 335 .1 | MISCELLANEOUS MECHANICAL EQUIPMENT - POWERP | LAN1 | | | | | |
|---------------|---|--------|-------|-----------|-----------|--|--|
| .11 | Heating and Ventilating | 1 | LS | \$50,000 | \$50,000 | | |
| .12 | Dewatering, Drainage and Plumbing | 1 | LS | \$100,000 | \$100,000 | | |
| .13 | Bridge Crane - 30 ton | 1 | LS | \$200,000 | \$200,000 | | |
| .14 | Fire Alarm System | 1 | LS | \$10,000 | \$10,000 | | |
| .15 | Misc Metals, gates, handrails | 15,000 | LB | \$5 | \$75,000 | | |
| .16 | Bathroom, septic system | 1 | LS | \$15,000 | \$15,000 | | |
| .17 | Installation of Misc Mechanical Equip- intake | 1 | LS | \$50,000 | \$50,000 | | |
| .18 | Installation of Misc Mechanical Equip powerhouse | 1 | LS | \$50,000 | \$50,000 | | |
| .19 | Installation Turbine and Generator | 2 | LS | \$250,000 | \$500,000 | | |
| | Subtotal - Acc No. 335 - Miscellaneous Mechanical Equipment | | | | | | |
| 336 .1 | ROADS | | | | | | |
| .11 | Permanent Roads (Allowance) | 1 | LS | \$150,000 | \$150,000 | | |
| .12 | Permanent Bridge (Allowance) | 1 | LS | \$100,000 | \$100,000 | | |
| .13 | Temporary Roads | 1 | LS | \$75,000 | \$75,000 | | |
| .14 | Temporary Bridges | 1 | LS | \$50,000 | \$50,000 | | |
| | Subtotal - Acc No. 336 - Roads | | | | \$375,000 | | |
| 353 353 .1 | SUBSTATION EQUIPMENT AND STRUCTURES Plant Switchyard | | | | | | |
| .11 | Installation of Switchyard Equipment | 1 | LS | \$200,000 | \$200,000 | | |
| .12 | Steel Structures | 1 | LS | \$50,000 | \$50,000 | | |
| | Subtotal - Acc. No. 353 Plant Switchyan | С | | | \$250,000 | | |
| 355 355 .1 | TRANSMISSION LINES Powerhouse to Puget Switchyard | | | | | | |
| .11 | 12.5 kV line to POI (2 mile new /2 mile upgrade) | 4.00 | miles | | \$600,000 | | |
| .11 | Conductors- buried, 3 phase (2.5 miles) - #4/0 MV cable | 0 | FT | \$0 | included | | |
| | · · · · · · · · · · · · · · · · · · · | | | * - | | | |
| .13 | Fiber optic Cable for Communications | 0 | FT | \$0 | included | | |
| .14 | Tie-In disconnect sw and accessories | 1 | LS | \$25,000 | \$25,000 | | |
| .15 | Electrical Vaults | 0 | FT | \$0 | included | | |
| .16 | Fiber Vaults | 0 | FT | \$0 | included | | |
| .17 | PUD Metering Cabinet at POI | 1 | LS | \$50,000 | \$50,000 | | |
| | Subtotal - Acc No. 355 - Transmission L | ines | | | \$675,000 | | |