Protocol Appendix E Annual Embedded Costs Example Calculation

40,330 - 403,336	e No	Hydro	Description		Mwh	\$/Mwh
403.336			Operating Expenses			
Mode	1	535 - 545	Hydro Operation & Maintenance Expense	28,742,968		
Mode	2	403.330 - 403.336	Hydro Depreciation Expense	9,998,326		
Total West Hydro Rate Base	3	404IP		· · · · -		
West Hydro Rate Base 374,018,924 374,018,924 392 392 395 396 396 397,285 396 397,285				38.741.294		
Sand Hydro Electric Plant in Service 374,018,024 374,018,024 374,018,024 374,018,024 374,018,024 374,018,024 374,018,024 374,018,024 378,025 374,018,024 378,025			The state of the s	, , -		
1932			•			
198			•			
Material & Supplies 267,669,095 Pre-tax return 12,040% Rate Base 267,669,095 Pre-tax return 12,040% Rate Base Revenue Requirement 32,228,277		302	Hydro Relicensing	60,297,285		
West Hydro Ner Rate Base 267,669,095 Pre-tax return 12,040% Rate Base Revenue Requirement 32,228,277		108	Hydro Accumulated Depreciation Reserve	(166,680,229)		
Pre-tax return Rate Base Revenue Requirement 32,228,277		154	Material & Supplies	33,115		
Nate Base Revenue Requirement 32,228,277 Annual Embedded Costs Hydro-Electric Resources 70,969,571 4,128,973 17.			West Hydro Net Rate Base	267,669,095		
Annual Embedded Costs Hydro-Electric Resources 70,969,571 4,128,973 17.)		Pre-tax return	12.040%		
Hydro-Electric Resources 70,969,571 4,128,973 17.			Rate Base Revenue Requirement	32,228,277		
Hydro-Electric Resources 70,969,571 4,128,973 17.			Annual Emboddod Costs			
Mid C Contracts 17,395,759 1,942,173 8.	>			70.969.571	4.128.973	17.1
Qualified Facilities			-	. 0,000,01	1,120,010	
Qualified Facilities 555						
Separation Accounts Carbon	š	555	Annual Mid-C Contracts Costs	17,395,759	1,942,173	8.9
Separation Accounts Carbon		Qualified Facilities				
CExcl. West Hydro, Mid C & QF Description Operating Expenses Steam Operation & Maintenance Expense 6.88,364,976 535 - 545 East Hydro Operation & Maintenance Expense 6.752,623 0.455 - 545 Other Generation Operation & Maintenance Expense 0.0437,128 0.457,628 0.455 0.	ļ		Annual Qualified Facilities Costs	72,455,744	904,760	80.0
CExcl. West Hydro, Mid C & QF Description Operating Expenses Steam Operation & Maintenance Expense 6.88,364,976 535 - 545 East Hydro Operation & Maintenance Expense 6.735,263 10,0437,128 10,0		0				
Operating Expenses Steam Operation & Maintenance Expense 6,735,263			Description			
Steam Operation & Maintenance Expense		(Example of the orange)	•			
535 - 545 Cast Hydro Operation & Maintenance Expense 6,735,263		500 - 514	. • .	688 364 976		
546 - 554			·			
S55						
118			·			
125,299,749 125,499,749 125,499,749			· · · · · · · · · · · · · · · · · · ·			
403.330 - 403.336				· · · · · · · · · · · · · · · · · · ·		
August A						
Mining			· · · · · · · · · · · · · · · · · · ·	2,682,834		
Amortization of Plant Acquisition Costs 1,900,319,339	2	403.340 - 403.346	Other Generation Depreciation Expense	8,246,911		
Rate Base	3	403.399	Mining	-		
Rate Base 310 - 316 Steam Electric Plant in Service 4,101,422,677 7 330 - 336 East Hydro EPIS 97,419,645 8 302 Hydro Relicensing 5,401,310 9 340 - 346 Other Electric Plant in Service 244,590,200 9 399 Mining 307,647,355 1 108 Steam Accumulated Depreciation Reserve (1,942,212,593) 2 108 Other Accumulated Depreciation Reserve (35,481,994) 3 108 Mining (163,138,588) 4 108 East Hydro Accum Depreciation Reserve (35,722,174) 5 114 Electric Plant Acquisition Adjustment 157,193,780 6 115 Accumulated Provision Acquisition Adjustment (56,601,550) 7 151 Fuel Stock 63,173,007 3 253.16 - 253.19 Joint Owner WC Deposit (4,310,538) 9 253.99 SO2 Emission Allowances (45,959,734) 154 Material & Supplies 1 54 East Hydro Material & Supplies 2 739,721,705 Pre-tax return 12,04% 3 (Line 42 x Line 43) Rate Base Reve	4	406	Amortization of Plant Acquisition Costs	5,479,353		
310 - 316 Steam Electric Plant in Service 4,101,422,677 330 - 336 East Hydro EPIS 97,419,645 302 Hydro Relicensing 5,401,310 340 - 346 Other Electric Plant in Service 244,590,200 399 Mining 307,647,355 108 Steam Accumulated Depreciation Reserve (1,942,212,593) 108 Other Accumulated Depreciation Reserve (35,481,994) 3108 Mining (163,138,588) 4 108 East Hydro Accum Depreciation Reserve (35,722,174) 5 114 Electric Plant Acquisition Adjustment 157,193,780 5 115 Accumulated Provision Acquisition Adjustment (56,601,550) 7 151 Fuel Stock 63,173,007 3 253.16 - 253.19 Joint Owner WC Deposit (4,310,538) 9 253.99 SO2 Emission Allowances (45,959,734) 154 East Hydro Material & Supplies 46,300,904 1 155 Fre-tax return 12,04% 1 156 Cline 25 + Line 43) Rate Base Revenue Requirement 329,871,889 3 25,30,191,228 69,686,856 32.	5		Total Operating Expenses	1,900,319,339		
310 - 316 Steam Electric Plant in Service 4,101,422,677 330 - 336 East Hydro EPIS 97,419,645 340 - 346 Other Electric Plant in Service 244,590,200 399 Mining 307,647,355 302 Mining 307,647,355 308 Other Accumulated Depreciation Reserve (1,942,212,593) 2108 Other Accumulated Depreciation Reserve (35,481,994) 3108 Mining (163,138,588) 3108 East Hydro Accum Depreciation Reserve (35,722,174) 3114 Electric Plant Acquisition Adjustment 157,193,780 3151 Fuel Stock 63,173,007 3253.16 - 253.19 Joint Owner WC Deposit (4,310,538) 3253.16 - 253.19 Joint Owner WC Deposit (4,310,538) 3253.99 SO2 Emission Allowances (45,959,734) 3154 Material & Supplies 46,300,904 327,397,21,705 327,397,21,398 327,			Rate Base			
Sample	6	310 - 316		4.101.422.677		
Hydro Relicensing						
3 340 - 346 Other Electric Plant in Service 244,590,200 3 399 Mining 307,647,355 1 08 Steam Accumulated Depreciation Reserve (1,942,212,593) 2 108 Other Accumulated Depreciation Reserve (35,481,994) 3 108 Mining (163,138,588) 4 108 East Hydro Accum Depreciation Reserve (35,722,174) 5 114 Electric Plant Acquisition Adjustment 157,193,780 6 115 Accumulated Provision Acquisition Adjustment (56,601,550) 7 151 Fuel Stock 63,173,007 8 253.16 - 253.19 Joint Owner WC Deposit (4,310,538) 9 253.99 SO2 Emission Allowances (45,959,734) 1 154 Material & Supplies 1 154 East Hydro Material & Supplies 46,300,904 2 1 154 East Hydro Material & Supplies 2,739,721,705 3 154 Fre-tax return 12,04% 4 154 Rate Base Revenue Requirement 329,871,889 3 154 Annual Embedded Costs - All Other \1 2,230,191,228 69,686,856 32.						
Mining 307,647,355 108			,			
108						
108						
Mining						
East Hydro Accum Depreciation Reserve (35,722,174) Electric Plant Acquisition Adjustment 157,193,780 Accumulated Provision Acquisition Adjustment (56,601,550) Fuel Stock 63,173,007 S253.16 - 253.19 Joint Owner WC Deposit (4,310,538) S253.99 SO2 Emission Allowances (45,959,734) Material & Supplies 154 Material & Supplies 1554 East Hydro Material & Supplies Total Net Rate Base 2,739,721,705 Pre-tax return 12.04% I (Line 42 x Line 43) Rate Base Revenue Requirement 329,871,889 C (Line 25 + Line 44) Annual Embedded Costs - All Other \1 2,230,191,228 69,686,856 32.						
Electric Plant Acquisition Adjustment 157,193,780 Accumulated Provision Acquisition Adjustment (56,601,550) Fuel Stock 63,173,007 Build Build Stock 63,173,007 Build Buil			<u> </u>	. , , ,		
Accumulated Provision Acquisition Adjustment (56,601,550) Fuel Stock 63,173,007 Joint Owner WC Deposit (4,310,538) So2 Emission Allowances (45,959,734) Interval & Supplies Interval & East Hydro Material & Supplies Total Net Rate Base 2,739,721,705 Pre-tax return 12.04% It is 42 x Line 43) Rate Base Revenue Requirement 329,871,889 (Line 25 + Line 44) Annual Embedded Costs - All Other \(1 \) 2,230,191,228 69,686,856 32.						
Fuel Stock 63,173,007 3	5	114	Electric Plant Acquisition Adjustment	157,193,780		
3 253.16 - 253.19	3	115	Accumulated Provision Acquisition Adjustment	(56,601,550)		
SO2 Emission Allowances (45,959,734) 154	7	151	Fuel Stock	63,173,007		
SO2 Emission Allowances	3	253.16 - 253.19	Joint Owner WC Deposit	(4,310,538)		
Material & Supplies 1 154	9	253.99	SO2 Emission Allowances	(45.959.734)		
East Hydro Material & Supplies 46,300,904 Total Net Rate Base 2,739,721,705 Pre-tax return 12.04% Line 42 x Line 43) Rate Base Revenue Requirement 329,871,889 (Line 25 + Line 44) Annual Embedded Costs - All Other \1 2,230,191,228 69,686,856 32.				(10,000,101)		
Total Net Rate Base 2,739,721,705 Pre-tax return 12.04% Line 42 x Line 43) Rate Base Revenue Requirement 329,871,889 Line 25 + Line 44) Annual Embedded Costs - All Other \1 2,230,191,228 69,686,856 32.			· ·	46 300 904		
Pre-tax return 12.04% Rate Base Revenue Requirement 329,871,889 (Line 25 + Line 44) Annual Embedded Costs - All Other \1 2,230,191,228 69,686,856 32.		101				
4 (Line 42 x Line 43) Rate Base Revenue Requirement 329,871,889 5 (Line 25 + Line 44) Annual Embedded Costs - All Other \1 2,230,191,228 69,686,856 32.						
5 (Line 25 + Line 44) Annual Embedded Costs - All Other \1 2,230,191,228 69,686,856 32.		(Line 42 x Line 43)				
		,	<u>. </u>			
	j	(Line 25 + Line 44)	Annual Embedded Costs - All Other \1	2,230,191,228	69,686,856	32.0

^{1 .} Generation Revenue Requirement less Hydro-Electric Resources, Mid Columbia Contracts and Existing QF Contracts