Exhibit No(SJK-4)	
REDACTED	
BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION	
DOCKET NO. UE-10	
EXHIBIT NO(SJK-4)	
SCOTT J. KINNEY	
REPRESENTING AVISTA CORPORATION	

ER No.: 2360

ER Name: Lolo 230 – Rebuild 230 kV Yard

Pro Forma Amount: \$1,450,000

Expended to date: \$1,186,880

2010 Transfer to Plant Date: February 2010

Project Description:

This project involves the rebuild of the existing Lolo substation to increase the capacity of the substation bus, breakers, and supporting equipment to match the upgraded capacity of the transmission lines that connect to the substation. The new Lolo substation design significantly improves reliability and operating flexibility. The Lolo Substation project was constructed in phases to allow operational flexibility due to system reliability concerns associated with other scheduled construction in the area. Phase 1 was completed in 2007 and the remainder of the project (\$1.45 million) was completed in February 2010. The Lolo Substation project costs were developed by the Engineering Department and approved through the capital budget process. This project is required to meet Reliability Compliance under NERC Standards: TOP-004-2 R1-R4, TPL-002-0a R1-R3, and TPL-003-0a R1-R3. There are no offsets or savings associated with the rebuild of the Lolo substation. Avista did not have any scheduled maintenance for the substation in the test period.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline: Completion date was February 2010

Attachment Index:

Costs through 3/15/2010 pg. 2-3
 Capital Project Request (CPR) Forms pg. 4-11
 Design Information pg. 12-20

Note: During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2360 COSTS THROUGH MARCH 15, 2010 PROJECT 09805142

Row Labels	Sum of Proj Func Burdened Cost
210 Employee Auto Mileage	121.00
215 Employee Business Meals	49.00
340 Regular Payroll - NU	3,038.01
345 Regular Payroll - Union	527.42
415 Material Issues	1,128.13
505 Capital Overhead - A & G	48.23
510 Payroll Benefits loading	2,044.34
515 Payroll Tax loading	311.98
520 Payroll Time Off loading	603.62
525 Small Tools loading	26.36
530 Stores/Material Loading	281.02
532 Materials Tax/Fght Loading	16.92
535 AFUDC - Debt	188.81
540 AFUDC - Equity	236.08
880 Materials & Equipment	3,179.42
Grand Total	11,800.34
Project 03805118	1,175,079.23
Total Costs Through 3.15.2010	1,186,879.57

AVISTA UTILITIES ER 2360 COST THROUGH MARCH 15, 2010 DETAIL OF PROJECT 03805118

Row Labels	Sum of Proj Func Burdened Cost
010 General Services	14,185.20
015 Construction Services	1,721.64
115 Misc Bills	(13,787.10)
215 Employee Business Meals	28,438.42
220 Employee Car Rental	72.05
230 Employee Lodging	46,068.82
235 Employee Misc Expenses	50.75
305 Incentive/Bonus Pay	250.00
325 Overtime Pay - Union	86,172.45
340 Regular Payroll - NU	12,710.59
345 Regular Payroll - Union	264,027.48
405 Inventory Returns	(8,648.22)
415 Material Issues	20,773.19
420 Salvage	(28,925.44)
505 Capital Overhead - A & G	6,440.95
506 Cap Overhead - Functional	211,061.09
508 Cap Overhd - Safety Clthng	291.76
510 Payroll Benefits loading	163,909.05
515 Payroll Tax loading	31,775.39
520 Payroll Time Off loading	48,651.56
525 Small Tools loading	16,222.87
530 Stores/Material Loading	6,191.76
532 Materials Tax/Fght Loading	142.79
535 AFUDC - Debt	18,078.53
540 AFUDC - Equity	22,574.59
560 Road Vehicles	16,332.55
565 Small Vehicles	12,170.50
570 Work Vehicles	11,187.50
705 Lease Expense - Vehicle	16,309.16
710 Rental Expense - Vehicle	95.41
720 Vehicle Fuel Gasoline	2,129.82
721 Vehicle Fuel Diesel	16.80
725 Vehicle Parts & Supplies	46.83
880 Materials & Equipment	76,237.07
885 Miscellaneous	3,520.33
920 Rental Expense - Equipment	88,583.09
Grand Total	1,175,079.23

						1/27	110
411-						W.	, -
	STA	CAI	PITAL PROJECT F	REQUEST FORM	. [Request Type	Project(s)
	Corp.	Use Jab Key		(CPR)	3	Revised =	>03805118
ER //	Budget Category	Barrier de contracto de la con		Project Title (30 Characters)		Project Title Count	09805142
2360 Project Na	5-Maintenance me (100 Characters	ED-Electric Direct		Loio Sub Phase IIIA			'Parent' Code
	•	nic rebuild of the 230 bus at Lok	o substation, New 23	0 kV circuit breakers for Autotra	ansformer #1 & 2	2 will be installed along with	
		bines Phases 3A and 3B.			<u> </u>		LOLOBA
Approved Budget X	Will This Project Include	Long Project Name Count	ER Sponsor M08	Bi Number LS635		WMS Job#	Rate Jurisdiction
	Retirement of	Revenue Type	14,00 /	1 10033 12		/Location	
Dillim	Materials or	NA- Not Applicable	Billing Co	-44		ロリタ/038-Idah Project Start	Details (Sept. 13)
Billing	Equipment?		Billing Co	illact	1	7/1/2008	Date
District Descript	Maria Division	Name of the Character o	- \				
		se and Necessity - 240 Characters vithstand short circuit forces with		evision adds approximately two	months of labor	and will allow the job to be	
	nd of February 201		-	,		•	
<u> </u>		CONSTRUCTION		Budget Authorized:			\$3,191,000
Office Use only	FERC	Estimated Amount	As Built Amount	Badget Admonzed.			\$3,151,000
Task	/ 3XXXXX	By FERC Number	By FERC Number	0	ffice Use Only		Date
30016	300100	\$166,200-		Project Set Up By			
1000 24.	397000	\$50,100		Approved By			
<u> 107300/</u>	352000	\$305,800					
-:-Y	353000	\$2,517,700					
					APPR	OVALS	
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GROSS ADDIT		\$3,039,800		Signature			
annual delication and the ball of the second section and	al By FERC (3XX)			Rob Selby Signature Michael Mike Magruder Signature	Y		1-13-10
108,000	353000	\$151,200- ²		Rob Selby Signature	` _		
				Michael Michael	amagu	al-	1-14-10
		<u> </u>		Mike Magruder	U		
			_	Signature	Mm		1
	Total Removal	\$151,200			Mm		1-21-12
Salvage By FER	RC (3XXXXX)			Rick Vermeers			
				Signature V	d)		•
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	Total Salvage			Signature /	9 00	/	1.1
Total Removal	Less Salvage	\$151,200		lle 12	ell !		1/26/00
	J. 1. 5			Dennis Vermillion			
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Sub Task	<u> </u>			\$100,000-\$499,999 - VP or GM	· 经工作的		
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TOTAL COST O	E DDO IECT T	£2 404 DOD		IMMEDIATELY UPON COMPLETION COMPLETE AS BUILT INFO AND FO			
OTAL COST O	I PROJECT	\$3,191,000		CONTRACTOR OF THE STREET WITH THE	AVANDEGE DIE	HAS TO COLUMN THE TAX TO SEE THE TAX	
Q	uestions: contact F	Project and Fixed Asset Accoun	ting [Date Work Completed	<u> </u>		
		1472 or Howard ext-2936)	1	Foreman/	-		
			L	Supervisor		vised December 2009	
					Ke	11000 DECENDER ZUUS	

Page 4 of 20

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~	Corp.	,	(CPR)			Revised)	LOL08A
ER //	Budget Cat	SERVICE CODE			(30 CHARSY	Erdeci Chara Z	LOCATION
2360	5 /	ED/	Lolo Sub			18	038
			JECT DESCRIPTION (250		•		
T project will		mic rebuild of the 230					ransformer #1 & 2
	will be ins	stalled along with upgr	aded relaying. <u>This C</u>	PR	- <u>-</u>	es 3A and 3B.	
PPROVED BUDGET		Description (Chairs Collais	ORGANIZATION	7	B/I NUMBER	WMS (Y OR N)	RATE JURISDICTIO
X		<u> </u>	M08	<u> </u>	LS635	N	AN
BILLING			BILLING CONTACT		1	PROJECT START DAT 1/1/2008	E =
		<u> </u>				1/1/2006	
		•	JDE PURPOSE AND NEC				
This project wil		withstand short circu					and South bus
	rebuild phase	es. The construction w	ork is being schedule	ea to	p be complete at	the end of 2009.	
					11 . 100	'a	Alleria (California de California de California de California de California de California de California de Cal
					1/2/1/06	{	2000 Name Coupe
CONSTRUCTION	<u> </u>			т—	Poral Constructi	ion Cost	\$2.750.000
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		/////			SIGI	NATURE	DATE
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GROSS ADDITIONS	BY FERC (3XXXX	\$2,598,800			wike wagruder	M. Maguelas	
NWW Z	353000	\$151,200			Rick Vermeers		
		Ψ101,200			Tuok Volimooro	(VO45)	
			···		Don Kopczynski	179 (4)	10.2-09
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					Dennis Vermillio	or belle	10.2.09
		<u> </u>					
				Ĺ	Project Contact	Rob Selby x 2560	20 C. My 9/28/2
		<u> </u>			To \$99,999 Directo	SIGNATURE(S) REC	ANIKED ,
NET SALVAGE		\$151,200	<i>_</i>		\$100,000-\$499,999	THE LOUISING PROPERTY OF THE PARTY OF THE PA	
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				. P	\$3,000,000-\$4,999,9	paragraphic programme (17, 17, 17, 17, 17, 17, 17, 17, 17, 17,	r, no light trigger a trigger and properties.
Non Standard Wo	ork Breakdown S	Structure needed (O	otional)		\$5,000,000-\$9,999;9	999 - CEO	
HECB PLICE	Breaker in Plant	\$127,700			Over \$10,000,000 - I	Board Chair	
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Date Prepared:	9/28/2009			2			
	·	I		Γ	Date Work Comple	eted	
		·		P-	Foreman/	-	
TOTAL COST OF PRO	DJECT	\$2,750,000		:	Supervisor		

Livis	TA. Corp.	CAPITAL PRO	JECT REQUES (CPR)	ST FORM	Request Type) Revised	PROJECT LOL08A
- ER 2360	Budget Cat	SERVICE CODE ED	PROJECT T Lolo Sub I	ITLE (30 CHARS) Phase IIIA	Proecucing Company	LOCATION , 038 094
		PRO	JECT DESCRIPTION (250	CHARS)	20.00	
project will			bus at Lolo substation aded relaying. This C			ransformer #1 & 2
APPROVED BUDGET		Description Chars Counting in 12 PM 1175 1 1 220	ORGANIZATION M08	B/I NUMBER LS635	WMS (Y OR N) N	RATE JURISDICTIO
BILLING			BILLING CONTACT		PROJECT START DAT 1/1/2008	E
This project wil		withstand short circuit	UDE PURPOSE AND NECT forces without damag onsolidates the North	e. After completion,		onger trip off both
CONSTRUCTIO	ıN		· · · · · · · · · · · · · · · · · · ·	Total Construction	on Cost	\$1,987,488
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34 16 3 10 5V 6	397000 🖊	\$50,100~	09805142	PREVIOUSLY APPR		574,600
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7 7 90 9	353000 /	\$1,400,588		TOTAL TO DATE!!	the state of the s	1,987,488
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ROSS ADDITIONS		\$1,922,688		Mike Magruder	M. Magnik	3-2-09
	BY FERC (3XXXX)		,	mino magrador	 0	
	353000	\$64,800		Rick Vermeers 4	RI Nuca	3-3-09
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107661001				Don Kopczynski	1045 /	
	·			Dennis Vermillid	de Cele:	3/4/09
						· ·
				Project Contest	Rob Solby	D: 3/2/A
				APPROVAL S	ری میں (Rob Selby) SIGNATURE(S) RE	OURED
		<u> </u>	-/	To \$99,999 Directo		GOINED
ET SALVAGE		\$64,800	/	\$100,000-\$499,999		
		Ψ,		\$500,000-\$1,999,999		
				\$2,000,000-\$2,999,9		
				\$3,000,000-\$4,999,9		
lon Standard W	ork Breakdown S	Structure needed (Or	otional)	\$5,000,000-\$9,999,9	99 - CEO	
SECENTED AND A SECOND PROPERTY.	Breaker in Plant	\$127,700		Over \$10,000,000 - E	Board Chair	
				Out-of-Budget - Capit	tal Budget Committee	
					SPONSOR IS RESPON	ISBUE - LE LES E
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ate Prepared:	3/2/2009			Date Work Comple	ted het	
				Foreman/	iteu .	
OTAL COST OF PR	OJECT	\$1,987,488		Supervisor		
		Ψ.,ου,,του		10000111001		

ATVIS)	Corp.	CAPITAL PRO	OJECT REQUE (CPR)	ST	FORM	Request Type	PROJECT LOL08A
2360	Budget Cat	SERVICE CODE ED	Lolo Sub	Pha		Project Chars 2000	LOCATION 038
			JECT DESCRIPTION (250		•		5-08 Come
This project will o	ontinue the seis	smic rebuild of the sou will be inst	ith bus at Lolo substat alled along with upgra			ircuit breaker for Auto	otransformer # \mathbb{R}^{0}
PROVED BUDGET		Description Chars County (1)	ORGANIZATION M08		B/I NUMBER LS635	WMS (Y OR N) N	RATE JURISDIE
BILLING			BILLING CONTACT			PROJECT START DATE 1/1/2008	=
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his project will allo		s to withstand short ci be a reliabilty enhand					After completion
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ONSTRUCTION				Ú	Total Construct	ion Cost	\$574,6
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//01/200	00000	\$303,700	J. J.	ď	BALANCE NOT AF		
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S ADDITIONS		\$553,000 -	7	1	Mike Magruder	M. Magrude	12/11/07
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		<u> </u>			Control of Classic and	RCA 1	12/12/07
					Randy Cloward	RCloward	141147-7
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					Scott Morris	110000	
]	Project Contact	Rob Selby Row-a	Deen 12/14/0
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OTAL COST OF PROJ	FCT I	\$574,600			Supervisor		
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ATVIST	74
	Corp.
<u> </u>	Rudge

CAPITAL PROJECT REQUEST FORM

(CPR)

	Request Type	PROJECT
		LOL06
<u> </u>	and the second	LOCATION
2000		LOCATION

ER Budget Cat

SERVICE CODE

PROJECT TITLE (30 CHARS) / Lolo 230kV Sub - Rebuild 230kV

PROJECT DESCRIPTION (250 CHARS)

Lolo 230 kV Sub - Rebuild 230 kV Phase II Dry Creek & Oxbow Line Terminals

PROVED BUDGET	Description Constant ORGANIZATION M08	B/I NUMBER LS635	WMS (Y OR N)	RATE JURISDICA AN
BILLING	BILLING CONTACT		PROJECT START DA 11/6/2006	TE

LONG NAME (INCLUDE PURPOSE AND NECESSITY - 240 CHARS)

This project continues the rebuild started with the West of Hatwai projects. The substation is being rebuilt to modern reliability standards and also to withstand the increased short circuit forces due to the West of Hatwai improvements.

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					7. 0/4/2/08	Let . Let . Let us
	•		• •		7 /4/1	
ONSTRUCTION				П	Total Construction Cost	\$2,305,00
	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT	1		
· [3XXXXX	BY FERC NUMBER	BY FERC NUMBER	╁╭	NOT REQUIRED	
	300100	\$125,000	03805078	V	BUDGETAUTHORIZATION	
	352000	\$600,000	03805078	7	PHEYIOUSLY APPROVED	
	353000	\$1,375,000	03805078	D.	THIS AFE	
	397000 /	\$180,000	03805077	₹	TOTAL TO DATE:	
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			6/10/10	#)	SIGNATURE	DATE
			/4/4	1	Mike Magruder	
P 3 ADDITIONS		\$2,280,000	- "	1	M. Magael	3-24-08
	Y FERC (3XXXX			1	Rick Vermeers	
	353000	\$25,000	-	1	2. Nem	3-25-08
	000000	Ψ,0007		1	Randy Cloward	
				1	Or Cloward	3-25-08
					Don Kopczynski	
					Coatt Marris (27.00
				1	Scott Morris	B-51-40
				1	Project Contact Rob Selby x2560	Today C. Den
				1	APPROVAL SIGNATURE(S) R	EQUIRED)
	· ·		/	1	To \$99,999 Director () 2 2 3 3 3	
ET SALVAGE		\$25,000			\$100,000 \$499,999 VP or GM Utility 2	
					\$500,000 \$1,999,999; Sr Vice President.	
					\$2,000,000;\$2,999,999,76F0	
					\$3,000,000,\$4,999,999 President/C00.	
on Standard Wo	rk Breakdown S	Structure needed (Op	tional)		\$5,000,000-\$9,999,999-CEO	
					Over\$10,000,000 Board Chair	
					Out of Budget scapital Budget Committee	
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···-					SIGVATIS FOR MOMBURATE ASSISTING	เพลง (การะ
					HORVVARDERO PLANTACCOUNTING	
repared:	3/20/2008					
					Date Work Completed	
					Foreman/	
TAL COST OF PRO	JECT	\$2,305,000			Supervisor	

				Exl	hibit No(SJK-4), Scl	hedule 1
Alvisi	Côrp.	CAPITAL PRO	JECT REQUE	ST FORM	Request Type,	PROJECT LOL061
2360//	Budget Cat/ 5	SERVICE CODE ED		TLE (30 CHARS) - Rebuild 230kV	Project Chars	LOCATION 038
		PRO	JECT DESCRIPTION (250	CHARS)		
	Lolo 2	30 kV Sub - Rebuild 2	230 kV Phase II Dry C	reek & Oxbow Lir	ne Terminals	
PROVED BUDGET		Description Chars County v	ORGANIZATION M08	. B/I NUMBER LS635 /	WMS (Y OR N) N	RATE JURISDICTI AN
BILLING			BILLING CONTACT		PROJECT START DA 11/6/2006	
LONG NAME (INCLUDE PURPOSE AND NECESSITY - 240 CHARS) This project continues the rebuild started with the West of Hatwai projects. The substation is being rebuilt to modern reliability standards and also to withstand the increased short circuit forces due to the West of Hatwai improvements.						
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Interoffice Memorandum Engineering & System Operations SUBSTATION DESIGN

DATE:

December 17, 2008

TO:

Distribution

FROM:

Rob Selby

SUBJECT: Lolo 230kV Upgrade - Phase III Physical Drawings - Revised

The following revised drawings are for the Phase III construction of the North and South buses and autotransformer bays.

This revision covers the following modifications:

- Addition of trenway
- Addition of static masts
- Revisions to steel structures

The job will divided into the South bus / autotransformer #2 rebuild and the North bus / autotransformer #1 rebuild.

South Bus / AutoTransformer #2 Rebuild:

The January 2009 construction will start with the removal of the existing equipment. Environmental would like the old oil breakers removed as soon as possible (along with the oil tanks). The old towers will remain in place to support the North bus shield wire, which will also eliminate a North bus outage. The South bus shield wire can be removed at this time since the South bus will be de-energized.

Grounding will be needed for the rebuild of the old yard. The old grid bonds the structures together, but our new design utilizes a denser grid to mitigate touch and step potentials. The new grounding should be installed in the South bus area, and around the towers in the old yard.

New trenway has been ordered to extend the trench to the Auto positions. The new trenway will not be able to be fully installed until the existing R-349 / Auto #1 bay is removed. The existing R-349 circuit breaker pad will interfere with the new trenway location. I've included a temporary cable print for the new 230 kV Auto #2 breaker for the interim. It may be easier to install as much trenway as possible (ie - up to the 230 kV Auto #1 breaker position) and direct bury the remaining cable.

This revision also involves changes to the new R-399 switch structure and bus support. These two structures have been erected and will need to be replaced. The 18' switch structure will be saved for the R-496 bus disconnect switch (Auto #1) structure. New legs will need to be ordered for the bus supports. The difference in steel heights is due to the different grading between the old (5%) and new (stepped) yards.

The South bus static mast foundations (if not direct embedded) will be installed late Spring 2009.

The construction work for the South bus is expected to last until mid-Summer 2009. An outage on Auto #2 will be needed to move the transformer terminal from the old R-350 bay to the new R-398 bay. (early Fall 2009)

North Bus / AutoTransformer #1 Rebuild:

After the South bus is completed, an extended outage on the North bus and Autotransformer #1 will be required. (Fall 2009 projected start)

Electrical and mechanical crews will remove the North bus, foundations, old deadend towers, R-349 and R-350 circuit breakers.

Mechanical crews will install the new footings, steel, and trenway.

Electrical crews will finish the remainder of construction with completion projected for early Spring 2010.

For any questions or comments about this project, please contact me at x2560.

E.R. No:

2360

Job No:

LS635

Transmission Project No:

03805118

Task No:

107300

Salvage Charge Numbers

Task No.

108000

<u>Physical Drawings – Transmittal List</u> Revision Codes:

- Revision Number

* - Construction Revision

Stamp Codes: N – New Drawing R – Revised Drawing C – Construction Drawing Ref – Reference Drawing

Drawing #	Rev Code / Stamp Codes	Title
Physical Drawings		
M-35719 Sheet 3A	2A / RC	115-230 kV General Plan
M-35719 Sheet 3B	2/C	230 kV General Plan
M-35719 Sheet 3D	0 / Ref	REMOVAL – New 230 kV General Plan
M-35719 Sheet 4C	2/C	230 kV Elevations D-D & E-E
M-35719 Sheet 4D	1 / C	230 kV Elevations I-I, J-J, & K-K
M-35719 Sheet 5A	2/C	230 kV Misc Details
M-35719 Sheet 8A	3A / RC	230 kV Grounding Plan
M-35719 Sheet 9A	2A / RC	230 kV Cable Location Plan
M-35719 Sheet 9B	0 / NC	115 kV Cable Location Plan
M-35719 Sheet 9C	0 / NC	230 kV Cable Location Plan – Temp R-398
E-35720 Sheet 10A	2 / C	Trenwa Cable Trench – Overall Layout
E-35720 Sheet 10G	0/NC	Trenwa Cable Trench – Overall Layout

DISTRIBUTION
c/with drawings
Greg Lancaster
Randy Pierce
Brad Pederson

<u>c/without drawings</u>: Sara Koeff Mike Magruder



Interoffice Memorandum Engineering & System Operations Substation Engineering

DATE:	January 5, 2009						
TO:	Distribution						
FROM:	Rob Selby						
SUBJECT:	Lolo Kick Off Meeting – 2009 Construction						
Agenda:							
Overview:							
Proposed Sche	dule:						
Design:							
Materials:							
Open Forum:							
Overview:							
This work is a c	continuation of the 230 ky rebuild. The plan is to continue with the work plan						

This work is a continuation of the 230 kv rebuild. The plan is to continue with the work plan established in 2008, starting with the South Bus / Auto #2 bay rebuild. The majority of the work will be completed by summer 2009. Energization is projected to be in fall since Auto #2 will need to be out for wiring and testing.

Work will continue with the North bus rebuild. Auto #1 will need to be removed from service for the duration of the North bus / Auto #1 bay work. This work is expected to be completed by Spring of 2010.

Proposed Schedule:

South Bus / Auto #2 Bay Rebuild (Winter - Fall 2009)
Removal of old structures and breakers (Jan.) - Mechanical and ES
Grounding (February)
Steel Erection (February or March)
Trenwa Installation (Mar)
Cable installation (Mar)
Buswork (April)

Static Mast Installation (April)
GCB Installation (May)
Panel Construction (Spring 2009)
Control Wiring & Checkout (Summer / Fall 2009)
Auto #2 Outage / Energize new bay (Fall 2009)

North Bus / Auto #1 Rebuild (Fall 2009 - Spring 2010)

North Bus / Auto #1 Outage (Fall 2009 - Spring 2010)

Removal of old structures and equipment (September / October, depending on outage start) - Mechanical and ES

Install new footings and structures (October - November 2009)

Complete Trenwa (November)

Grounding (November)

Panel Construction (Winter 2009)

Cable installation (Dec)

Buswork (Jan 2010)

GCB Installation (Feb)

Control Wiring & Checkout (Mar - April 2010)

Energize new bay (April 2010)

Design:

Electrical prints are in drafting. Since the integration design is still ongoing, I will not have integration drawings until late March. Protection has been short staffed which has been impacting our design schedule.

There will likely be changes to the tap position indicator modules, which may involve pulling a new fiber optic cable from the Autotransformers to the panelhouse.

I plan on issuing the package minus the integration drawing in February. Drafting is the biggest issue as many of the prints are board drawings or CADAM drawings which need to be converted to AutoCAD. The R&T's from phase II are being incorporated in the phase III issue.

Major Materials:

Grounding Materials - Oracle Order # 9550, pickup by mid-January
Trenwa – delivery by mid-January, PO # 67184 (presently have Spokane for delivery)
Revised steel – ready at the end of January
Tube Bus, Bus Connectors, Insulators – ordered last year
Air Switches – at Beacon Sub

Attachments:

Simplified One Line
One Line
General Plan (2 sheets)
Cable Location Plan (2 sheets)

Distribution List:

Greg Lancaster Mike Magruder Brad Pederson Jeff Marsh

Garth Brandon Andy Vickers Randy Pierce Bill Palmer

Rich Hydzik



Interoffice Memorandum Engineering & System Operations Substation Engineering

DATE:

May 4, 2009

TO:

Distribution

FROM:

Rob Selby

SUBJECT: Lolo Construction Meeting – Spring 2009

Purpose:

To discuss the project schedule and determine if additional work can be scheduled by the end of the year.

Present Schedule

The original schedule called for energization of the Auto #2 bay in September, and the Auto #1 bay in Spring of 2010. The crew has been making good progress and are trying for the following completion dates:

Auto#2 Completion - June 2009 Auto #1 Completion - by December 2009

Completed Work

(Update from Foreman)

Remaining Work – Auto #2 Position

- Complete fence. (contractor)
- Complete fence and lightning mast grounding.
- Install GCB R-398.
- Install Panels 13 (115 kV Xfmr panel) and 27 (230 kV Xfmr panel).
- Install new I/O device (SEL-2440), and rewire alarms for Auto #2.

Remaining Work - Auto #1 Position

- Install foundations for north bus, and auto #1 bay. Install new steel structures.
- Install new cables for R-496 breaker.
- Complete grounding for north bus and auto #1 bay.
- Install north bus
- Install GCB R-496.
- Install new I/O device (SEL-2440), and rewire alarms for Auto #2.

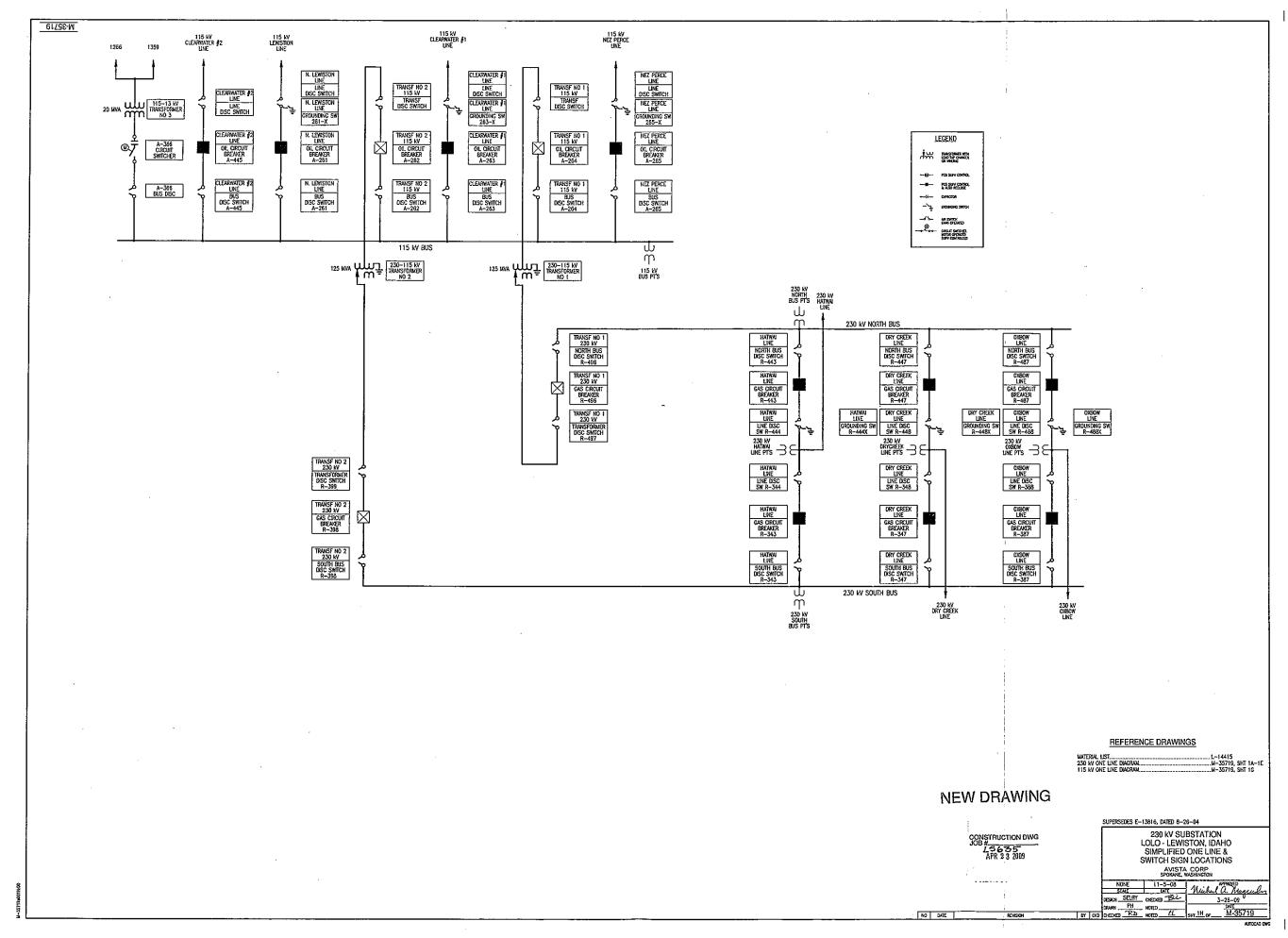
Additional Work - Schedule TBD

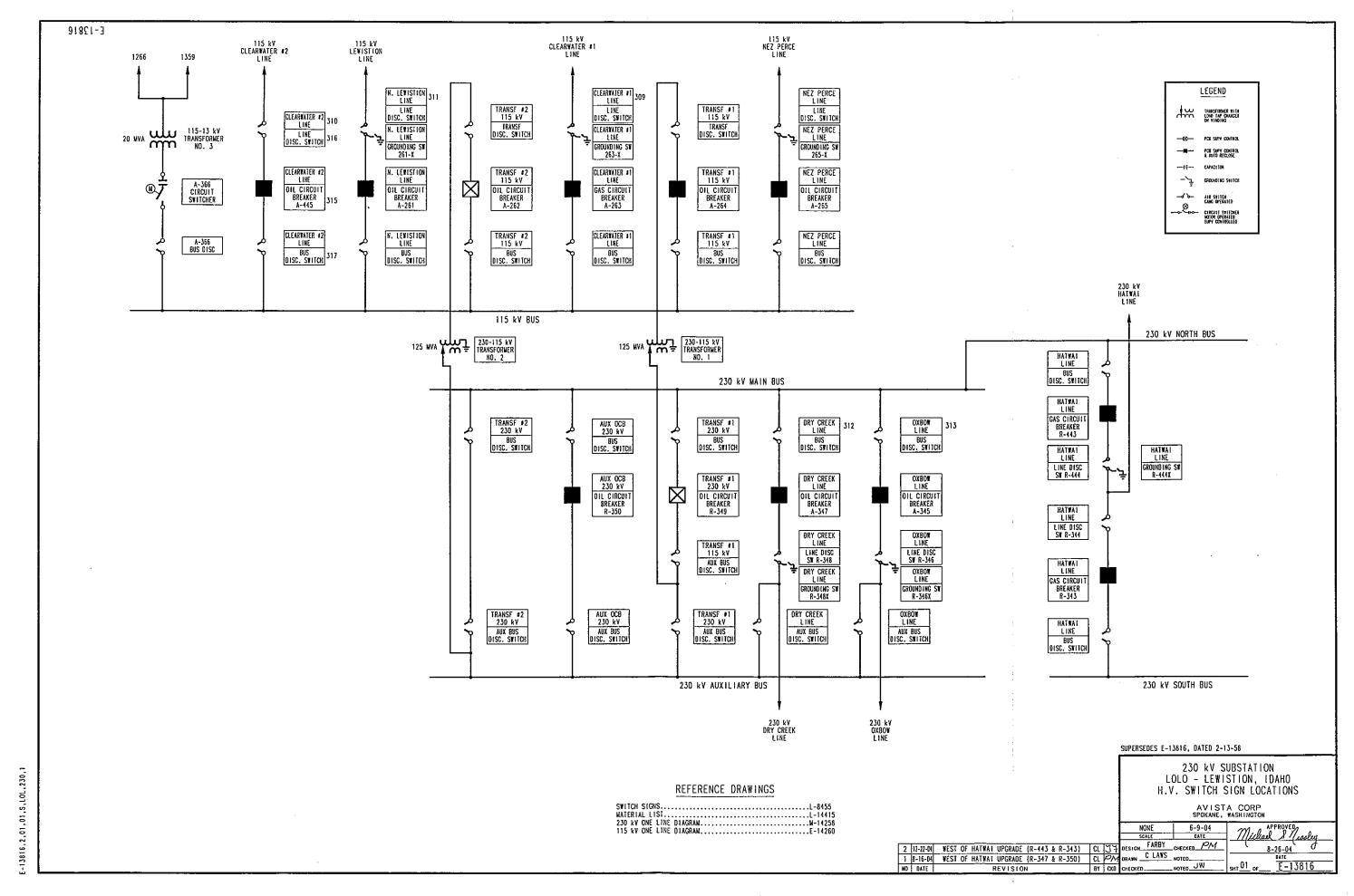
- Replace Panel 8, 115 kV Bus Protection.
- Remove RTU, move signals to new SCADA.
- Remove old main / aux bus structures. (Summer 2009?)

Outages:

- Need North bus outage to isolate old main / aux bus from new North / South bus. (approx June timeframe)
- Need auto #1 outage to install new 230 kV auto bay. (approx July to December.)

Discussion:				
Attachments:				
Simplified One Line General Plan (2 pgs)				
Distribution List:				
Greg Lancaster Mike Magruder	Brad Pederson Jeff Marsh	Garth Brandon Andy Vickers	Randy Pierce Bill Palmer	





ER No.: 2217

ER Name: Spokane /Coeur d'Alene area relay upgrade

Pro Forma Amount: \$1,250,000

Expended to date: \$695,982

2010 Transfer to Plant Date: Periodically during 2010

Project Description:

Spokane/Coeur d'Alene area relay upgrade: This project involves the replacement of older protective 115 kV system relays with new micro-processor relays to increase system reliability by reducing the amount of time it takes to sense a system disturbance and isolate it from the system. This is a five year project and is required to maintain compliance with mandatory reliability standards. This project is required to meet Reliability Compliance under NERC Standards: TOP-004-2 R1-R4, TPL-002-0a R1-R3, TPL-003-0a R1-R3. Any positive offsets in reduced maintenance costs associated with this replacement effort are offset by increased NERC testing requirements per standard PRC-005-1.

A summary of the projects that will be completed during 2010 follows:

	Total	Incurred Through March 15, 2010
SPO CDA 115 Spokane Ring	509,587.78	509,587.78
NE Spokane Relay Upgrades	140,000.00	130,827.08
Third Hatch Relay Upgrades	345,500.00	55,567.29
Beacon Relay Upgrades	255,000.00	-
	1,250,087.78	695,982.15

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

This 5-year project started in 2008 and will complete in 2011. For the 2010 jobs, all of the jobs will be completed by December 31, 2010.

Additional Information:

•	Historical Cost Detail	pg.	3-4
•	Capital Project Request (CPR) Forms, including all attachments	pg.	5-9
•	Scope of Work and Prioritization	pg.	10-13

- Please refer to "115 kV Relay Upgrades Spokane and Coeur d'Alene Project – 2010 Scope of Work and Prioritization Meeting & Notes – 11/17/2009"
- Preliminary Schedule:
 - Third & Hatch 3HT A-531 and Post Street PST A-544
 Spring 2010 (Work Currently in Progress)
 - Northeast NE A-252 and Beacon BEA A-603 Spring 2010
 - Third & Hatch 3HT A-530 and Ross Park ROS A-208 Fall 2010
 - Third & Hatch 3HT A-532 and Ninth & Central 9CE Fall 2010

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2217 COSTS THROUGH MARCH 15, 2010

		Γ	ACTUAL THROUGH MARCH 15, 2010					
		•	2008	2009	2010		Transferred	Transfer
			Transaction Amt	Transaction Amt	Transaction Amt	LTD TOTAL	in 2009	in 2010
Er Project	Project Desc	Expenditure Category						
2217 02805263	SPO CDA 115 Spokane Ring	AFUDC	6,236.48	6,375.66	405.12			
		Contractor	10,891.91	5,989.44	-			
		Employee Expenses	30.73	-	-			
		Labor	35,740.52	21,092.68	1,027.46			
		Material	398.38	-	-			
		Overhead	39,830.74	21,269.25	958.54			
		Transportation	663.50	838.15	169.50			
		Voucher	192,878.94	31,363.54	612.34			
	Sum	_	286,671.20	86,928.72	3,172.96	376,772.88	(314,983.24)	61,789.64
02805401	NE Spokane Relay Upgrades	AFUDC		302.38	802.10		,	
	, , , , ,	Labor		12,633.07	4,142.80			
		Material		4,882.84	44,404.92			
		Overhead		12,767.76	18,952.10			
		Voucher		-	402.19			
	Sum	_		30,586.05	68,704.11	99,290.16		99,290.16
02805402	NE Spokane Relay Upgrade Comm	AFUDC -		497.77	409.08	,		,
	, , , ,	Labor		1,555.73	1,784.12			
		Material		5,738.72				
		Overhead		3,153.87	1,440.58			
		Voucher		16,957.05				
	Sum	_		27,903.14	3,633.78	31,536.92		31,536.92
02805437	Third Hatch Relay Upgrades	AFUDC -		34.88	270.05	,		,
	, 10	Labor		3,043.12	6,934.41			
		Material		-	17,457.41			
		Overhead		2,563.84	13,439.80			
		Voucher		-	4,301.55			
	Sum	_		5,641.84	42,403.22	48,045.06		48,045.06
02805438	Third Hatch Relay Upgrd Com	AFUDC -		19.30	70.03	-,		-,
02000.00	······a···ato·····to·ay opgia oo	Labor		1,818.35	2,155.24			
		Overhead		1,531.96	1,927.35			
	Sum			3,369.61	4,152.62	7,522.23		7,522.23
03805135	SPO CDA 115 CDA RING	AFUDC -	5.66	2,878.91	1,051.09	.,0		.,0==.=0
00000100	0.000,000	Contractor	-	8,936.58				
		Employee Expenses	_	14.12				
		Labor	333.53	6,187.20	2,777.04			
		Overhead	219.04	10,226.03	2,647.77			
		Transportation	_	471.45	270.00			
		Voucher	_	44,121.91				
	Sum	-	558.23	72,836.20	6,745.90	80,140.33		80,140.33
00805167	SPO CDA 115 Shared 098 ring	AFUDC -	4,128.95	17,271.32	4,834.59	00, 170.00		00, 170.00
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		Contractor	240,200,02	84,724.31	5,797.18			
			210,209.03		5,797.18			
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AVISTA UTILITIES ER 2217 COSTS THROUGH MARCH 15, 2010

				ACTUAL THROUGH MARCH 15, 2010					
			_	2008	2009	2010		Transferred	Transfer
				Transaction Amt	Transaction Amt	Transaction Amt	LTD TOTAL	in 2009	in 2010
Er	Project	Project Desc	Expenditure Category						
			Labor	8,276.04	23,053.67	4,071.31			
			Material	-	89.17	-			
			Overhead	12,463.32	38,612.35	3,798.75			
			Transportation	298.60	1,916.75	78.75			
			Voucher	71,027.97	173,383.10	159.96			
	Sum		_	306,429.88	346,070.67	34,477.20	686,977.75	(319,319.94)	367,657.81
	Sum		_	593,659.31	545,433.09	159,656.01	1,298,748.41	(634,303.18)	695,982.15
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 Spokane/CDA Ring
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 Third and Hatch
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Spoka	ine area OC1	2 SONET Communica		n for	115 kV Substat	ion Protective Relay	ring.
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					R. Cloward &	doward a	3-11-08
					D. Kopczynski	MACAIN	
					S. Morris		
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					Project Contact	Mike Magruder x418	37
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		4030,000		18	Supervisor		

si vi	STA		L PROJECT REQU	JEST FORM	Request Type	Project(s)
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ng Project Na	me (100 Characters			, , , , , , , , , , , , , , , , , , , ,	4,0	'Parent' Gode
	T	hird & Hatch 115 kV Substation	- Spokane 115 kV L	ine Relay Upgrades	11/2/09/14	3HT09B
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Date Prepared:				IMMEDIATELY UPON COMPLETION		
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TOTAL COST OF	PROJECT	\$345,500				-
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Qı		roject and Fixed Asset Account 472 or Howard ext-2936)		Foreman/ Supervisor		

Revised January 2009

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	STA	CAPITAL P Use Tab Key	ROJECT REC	QUEST FORM (CPR)	Request Type	Project(s)
ER /	Budget Category	Service Code	Project Title	(30 Characters)	Tropics (WellCours)	02805402
2217 Long Project Name (Maintenance	==== ED-Electric Direct	NE - Spokane Re	lay Upgrades	28 728	Parent' Code
1	•	okane 115 kV Line Relay Upgrades	;	2	9/10/094	NE09A
Approved Budget	Will This Project	Long Trojec Name Count	ER Sponsor	Bl Number	WMS Job#	Rate Jurisdiction
X .	Include Retirement of	Revenue Type	M08	SS802		AN-Allocated North
Billing	Materials or Equipment?	NA-Not Applicable	Billing Contact	<u> </u>		shington Start Date
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		lecessity - 240 Characters) g at the Northeast Substation. This wo	rk is part of a system	item to upgrade 115 kV line relaying in th	e Spokane area.	1 F3
		CONSTRUCTION		Budget Authorized:		\$120,000
Office Use only Task	FERC 3XXXXX	Estimated Amount By FERC Number	As Built Amount By FERC Number	Office Use Only		
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	ork Breakdown Str	ucture Needed (Optional)				
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03/16/2010		8	UTIL AG		P	AGE 01/01
4 VIST	Corp. 3/4/08	CAPITAL PRO	JECT REQUES	TFORM	Request Type Preliminary	PROJECT COM08B
2217	Budget Cat	SERVICE COD€	PROJECT TIT SPO-CDA 115	LE (30 CHARS) - CDA Ring		LOCATION 038
2211			ECT DESCRIPTION (250 CI			
Coeur	d'Alene area OC	C12 SONET Communi	cations Ring installatio	on for 115 kV Subst		
APPROVED BUDGET			ORGANIZATION MOB	B/I NUMBER CS802	WMS (Y OR N) N	PATE JURISDICTION
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This project is f	or the Coeur d'A roject allows for t	lene area communicat	DE PURPOSE AND NECE: tions installation (OC12 stallation ahead of the	2 Ring) of the Spo-	CDA 115 kV Relayin on relaying package	g project. This s.
				Total Construct	ion Cont	\$160,000
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				R. Cloward	R Cloward	3-11-08
				D. Kopczynski	Kopygod:	1
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				G	Mike Magruder x4	187
	K (Project Contact	Wike Wagidder A-	107
NET SALVAGE				ΔΡΡΡΟΥΔΙ	SIGNATURE(S) RE	QUIRED
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CDA 15th Street					HEXUCAL CARSON	
Post Falls 115 (4	10%) /				ON COMPLETION OF	
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		7		FORWARDIOR	MIND MAKEDUNING A	in the second of
Date Prepared:	02-29-2008			Date 101 - 1 - 2 - 1	alatasi T	
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TAL COST OF PR	OJECT	\$160,000		Supervisor		

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411 -	ANDAO	CAPITAL PRO.	JECT REQUEST	r FORM	Request Type	PROJECT
AWI51	vilibligitati				Preliminary	COM08C
<u></u>	Corp. of A	Ø SERVICE CODE	PROJEČT TITL	E (30 CHARS)		LOCATION
2217	Budget Cat	FD/	SPO-CDA 115 - Sha	ared 098 Ring		098
		PROJE	CT DESCRIPTION (250 CH	ARS)		
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	<u> </u>			Project Contact	Mike Magruder x4	187
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Boulder (4%) -		Westside (9%)			yaksa Juak olah Hari	
CDA Office (10)%)	Fiber line installatio	ns and splices (47%)/	INMEDIAJEMA	MPCKNEDWPLETION OF MRCGMPLETE AS BUILD	TRUETIONE
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Date Prepared	. UZ-ZB-ZUUB			Date Work Cor	mpleted	
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TOTAL COST OF	PROJECT	\$810,000		Supervisor		

115 kV Relay Upgrades Spokane & Coeur d'Alene Area Project

2010 Scope of Work and Prioritization Meeting & Notes

November 17, 2009 3:00 pm to 4:00 pm CR 325

1. Based upon the original outline by Dennis Howey (Upgrading 115kV Relay Schemes Around Spokane-Coeur d'Alene REV 4 3/28/08), the following relay upgrade jobs were scheduled but not completed in 2009:

TIER	Breaker	Year	Breaker	Year
1	BLD A-713	2009	OTI A-645	2009
1	BLD A-714	2009	OTI A-640	2009
1	BEA A-609	2010	F&C A-674	2010
1	BEA A-610	2010	BELL B-358	2010
2	BEA A-603	2010	NE A-252	2009
2	MTR A-474	2009	PST A-434	Done
2	MTR A-475	2009	SUN A-450	2011
2	PST A-544	Done	3HT A-531	2009
2	ROS A-208	2011	3HT A-530	2009
3	9CE A-686	2011	3HT A-532	2009
3	OTI A-642	2009	PF A-324	2011
4	9CE A-689	2009	OTI A-641	2009

2. Summary: Otis Orchards A-640, A-641, A-642 & A-645, Boulder A-713 & A-714 and Ninth & Central A-289 Scope of Work

Rob Selby has been assigned and relay work will be in conjunction with the breaker replacement. Limited work required at Boulder and Ninth & Central. *Mike was going to check on Rob's schedule for the design & construction*. [Action Item 1]

Rich wants this to be top priority, the relay upgrade work at Post Falls (A-324) could be delayed (2012). Randy agreed form the protection side.

Randy wanted to upgrade both ends of the line where we had power line carrier. Rich agreed and prefers the line be taken out only once. Rich prefers outages to be scheduled for Spring or Fall.

3. Summary: Northeast A-252 Scope of Work

Paul Mason is currently working on Northeast (A-252). The relay design for the remote terminal Beacon (A-603) was sent out shortly after this meeting. John Harms has already sent out the SCADA design. Work on both ends to be complete Spring 2010. Rich commented that the work at Beacon would be easier to schedule since it has a 115kV Aux Breaker.

4. Summary: Metro A-474 & A-475 Scope of Work

Jim Farby is looking at options for Metro. The Post Street terminal (A-434) has already been completed. *Randy's group will provide the relay design in 2010*. [Action Item 2] Work on MTR A-474 to be complete **Spring 2011**.

The work on MTR A-475 to SUN A-450 to be moved into **TBD**. Work to coordinate with Planning's "West Plains Solution".

5. Summary: Third & Hatch A-530, A-531 & A-533 Scope of Work

Jim Farby is currently assigned to Third & Hatch. Randy's group has provided a relay design document (08/12/09) for the three line positions. Randy's group will provide an updated relay design document that includes the 115kV Bus Differential and new SCADA-RTU. [Action Item 3]

Work on 3HT A-531 to be complete **Spring 2010**, the remote terminal PST A-544 was completed in 2009. SCADA-RTU needs to be replaced **Summer** 2010. Work on 3HT A-532 to 9CE A-686 and 3HT A-530 to ROS A-208 to be completed **Fall 2010**.

Work on ROS A-207 to BEA A-605 also to be completed **Fall 2010**. Randy's group will provide the relay design documents for Ross Park & Beacon. A new SCADA-RTU design for Ross Park is may also be required, TBD by Jim Farby, Brian Chain & Electric Shop based upon usable space in panel house. [Action Item 4 & 5]

6. Summary: Beacon A-609 & Francis & Cedar A-674 Scope of Work

Not currently assigned. Work preliminary scheduled for **Spring 2011**. Randy's group will provide the relay design documents in 2010. [Action Item 6]

7. Summary: Beacon A-610 & Bell B-358 Scope of Work

Not currently assigned. Work preliminary scheduled for **Spring 2011.** Coordination with BPA required and scope of work formalized. *Randy's group will provide the relay design documents in 2010 and with BPA. Mike's group will work on the scope of work with BPA in 2010.* [Action Item 7]

8. Preliminary Priority List for Discussion

Otis Orchards: A-640 (BLD), A-645 (BLD), A-642 (PF) and A-641 (9CE). Plus remote terminals at Boulder (A-713 & A-714), Post Falls (A-324) and Ninth & Central (A-689).

- Beacon: A-604 (BLD), A-612 (BLD). Plus remote terminals at Boulder (A-712 & A-719).
- Beacon: A-603 (NE). Include upgrade work with Item 2. Remote terminal at Northeast (A-252) upgrade currently ongoing and expected completion early 2010.
- o Ross Park: A-207 (BEA) and A-208 (3HT). Upgrade the remote terminals at Beacon (A-605) and Third & Hatch (A-530), if possible.
- Third & Hatch: A-530 (ROS), A-531 (PST) & A-532 (9CE). Remote terminals Ross Park (A-208) Item 1, Post Street (A-544) completed 2009, Ninth & Central (A-686) if possible.
- Metro: A-474 (PST) & A-475 (SUN). Remote terminals Post Street (A-434) completed 2009, Sunset (A-450) if necessary before station rebuild 2012/2013.
- o Francis & Cedar: A-674 (BEA). Upgrade the remote terminal at Beacon (A-609) in conjunction with Item 2 & 3.
- Beacon: A-610 (BELL). Needs to be coordinated with BPA relay upgrade of B-358 (BEA), once the contract is formalized.

9. Summary and Action Items

Draft Schedule:

- 3HT A-531 to be completed Spring 2010
- NE A-252 and BEA A-603 to be completed Spring 2010
- 3HT A-530 to ROS A-208 to be completed Fall 2010
- 3HT A-532 to 9CE A-686 to be completed Fall 2010
- BEA A-605 to ROS A-207 to be completed Fall 2010
- BLD A-713 to OTI A-645 to be completed, possibly Fall 2010
- BLD A-714 to OTI A-640 to be completed, possibly Fall 2010 TBD
- 9CE A-689 to OTI A-641 to be completed, possibly Fall 2010 TBD
- OTI A-640 to be completed, possibly Fall 2010 TBD
- MTR A-474 to be complete **Spring 2011**
- BEA A-609 and F&C A-674 to be complete Spring 2011
- BEA A-610 and BELL B-358 to be complete Fall 2011
- PF A-324 to be complete Spring 2012
- MTR A-475 to SUN A-450 to be complete TBD
- BEA A-604 to BLD A-712 to be part of the Irvin Project 2013
- BEA A-612 to BLD A-719 to be part of the Irvin Project 2013

Inspection of the list highlights the scheduling conflict in Fall 2010. Mike's group will work on the schedule to iron out the bumps. [Action Item 8]

Action Items:

- 1. Mike was going to check on Rob's schedule for Otis Orchards
- 2. Randy's group will provide the relay design for Metro
- 3. Randy's group will provide an updated relay design for Third & Hatch that includes the 115kV Bus Differential and new SCADA-RTU
- 4. Randy's group will provide the relay design documents for Ross Park & Beacon
- 5. A new SCADA-RTU design for Ross Park is may also be required, TBD by Jim, Brian & Electric Shop based upon usable space in panel house
- 6. Randy's group will provide the relay design documents for Beacon and Francis & Cedar
- 7. Randy's group will provide the relay design documents for Beacon and Bell, plus Mike's group on scope with BPA
- 8. Mike's group will work on the schedule to iron out the bumps and issue a revised schedule for comment

Work scheduled beyond Fall 2011 to be reviewed this time next year. Let me know if you have any comments or if I've missed anything, Jim Farby x2921.

Attendees:

Mike Magruder Randy Spacek Rich Hydzik Brian Chain Jim Farby

ER No.: 2318

ER Name: Nez Perce 115 Sub-Ins Capacitor Bank

Pro Forma Amount: \$3,575,000

Expended to date: \$1,734,979

2010 Transfer to Plant Date:

October 2010: \$3,450,000

December 2010: \$ 125,000

Project Description:

This project involves the complete reconstruction of the Nez Perce substation based upon its degraded condition. The project also includes the addition of a shunt capacitor bank to provide voltage support to the area for critical contingencies to ensure compliance with NERC Standards: TOP-004-2 R1-R4, TPL-002-0a R1-R3, TPL-003-0a R1-R3. There are no anticipated offsets or savings associated with this substation rebuild. Avista did not have any maintenance for the substation during the test period.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no anticipated offsets or savings associated with this substation rebuild.

Timeline:

See attached Gantt chart. Property purchase and initial scoping started in November 2008. Engineering and procurement continued up to March 2010. Site grading started in June 2009; substation construction started in September 2009. The main 115 kV switch yard will energize in third quarter 2010. The 115 kV capacitor bank and 13 kV distribution yard are not scheduled to energize until third quarter 2011; these costs are not included in the pro forma adjustment in this case.

See attached timeline for further detail.

Attachment Index:

• Cost pg. 3-4

Capital Project Request (CPR) Forms
 pg. 5-7

Scoping memo dated 10/30/08, which contains preliminary budget discussions pg. 8-14

•	Gantt chart, which details engineering and construction stages of project	
	(Timeline)	pg. 15
•	List of relevant Project Purchase Orders	pg. 16
•	Nez Perce scoping review memo dated 7/15/08, which also contains relevant	
	preliminary budget projections	pg. 17-19
•	Photos that detail completed stages of construction	pg. 20-24
•	Construction Agreements (Confidential)	pg. 25-40

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2318 COSTS THROUGH MARCH 15, 2010

COSTO TIINOCOTIMA	1011 10, 2010		2008 Transaction Amt	2009 Transaction Amt	2010 Transaction Amt	Total
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2318 03805158	Nez Perce Rebuild add Transm	AFUDC	113.09	19,469.42	19,639.71	
		Contractor	-	540,450.12	5,361.23	
		Employee Expenses	-	762.77	13.52	
		Labor	4,214.84	60,385.03	18,990.90	
		Material	-	94,520.61	-	
		Overhead	2,889.32	330,131.66	31,393.37	
		Transportation	-	152.40	318.60	
		Vehicle	49.71	384.75	76.78	
		Voucher	-	370,009.83	(6,643.38)	
	Sum		7,266.96	1,416,266.59	69,150.73	1,492,684.28
03805160	Nez Perce Rebuild Add Distrib	AFUDC	0.85	6,775.53	1,086.96	
		Contractor	-	-	-	
		Employee Expenses	-	1,565.27		
		Labor	49.78	25,644.89		
		Overhead	32.69	25,354.30		
		Transportation	-	3,499.40		
		Voucher	-	16,130.74	53.87	
	Sum		83.32	78,970.13	1,140.83	80,194.28
03805161	Purch property Nez Perce sub	Contractor	-	8,704.20		
		Employee Expenses	337.43	1,172.37		
		Labor	3,730.56	19,651.06		
		Overhead	2,523.14	19,872.36		
		Transportation	-	1,777.50	-	
		Vehicle	301.60		-	
		Voucher	_	33,321.79	-	
	Sum		6,892.73	84,499.28		91,392.01
09805203	Nez Perce Rebuild Add Comm	AFUDC	3.51	230.32	359.58	
		Contractor		-	297.77	
		Labor	44.47		1,003.26	
		Material	-	12,940.25		
		Overhead	30.97	1,032.95	1,784.76	
	_	Voucher	-	-	13,910.47	
	Sum		520.04	14,203.52	17,355.84	32,079.40
39905064	Nez Perce 115kv sub integ tran	AFUDC	-	-	125.48	
		Labor	-	-	163.04	

AVISTA UTILITIES ER 2318 COSTS THROUGH MARCH 15, 2010

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			Material	-	-	28,902.28	
			Overhead	-	-	9,437.92	
	Sum					38,628.72	38,628.72
Total				14,763.05	1,593,939.52	126,276.12	1,734,978.69

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Interoffice Memorandum Engineering & System Operations SUBSTATION DESIGN

DATE:

October 30th, 2008

TO:

Distribution

FROM:

Brian Chain

SUBJECT:

Nez Perce - Substation Rebuild & Capacitor Bank Addition

Scoping Meeting

The purpose of this meeting is to discuss the work required to rebuild Nez Perce Substation and add a 15 MVAr capacitor bank.

Distribution:

Dennis Howey	Jeff Scott	Randy Daniels	Greg Lancaster
Pat Clevenger	Tim Olson	Don Malisani	Jeff Marsh
Garth Brandon	Bill Kelley	Rich Hydzik	Andy Vickers
Jacob Reidt	Jim Farby	Warren Maxvill	Bob Weisbeck
Mike Magruder	Jill Ham	Scott Jobb	Robin Bekkedahl
Dave James	Scott Waples	Randy Pierce	Clarice Garcia

Meeting Info:

Date:

November 11th, 2008

Time:

1:00-3:00 PM

Location:

Avista HQ, 4th Floor Tech Room (next to Distribution Dispatch)

If you are unable to attend, please forward any comments to me at your earliest convenience.

Overview:

New NERC requirements, as well as current system planning studies, require new reactive resources in the Camas Prairie area. At the same time, the wood construction of the existing substation is aging and is past due for replacement. The distribution station will also be rebuilt as part of this project.

Scope:

- Procure land for new substation
- Rebuild 115 kV switchyard in a main/auxiliary bus configuration, including:
 - 1. Five 115 kV, 2000 A Gas Circuit Breakers
 - 2. Sixteen 115 kV, 2000 A, V-type Disconnect Switches
 - 3. Seven Line/Main Bus PTs (Kuhlman POF-550s)
 - 4. Four sets of 115 kV Surge Arresters
 - 5. New Panel House
- Add a 115 kV, 15 MVAr capacitor bank
- Rebuild 115-13 kV distribution yard, including:
 - 1. 115 kV, 1200 A, vertical-break Disconnect Switch
 - 2. 115 kV Transformer Fuse (S&C SMD-2B)
 - 3. New 115-13 kV, 3.75 MVA Transformer
 - 4. 13 kV Transformer Disconnect Switch (600 A Bridges Switch)
 - 5. New 13 kV, 1200 A Breaker (Square D Type FVR)
 - 6. Three 13 kV, 150 A Step-Voltage Regulators (Cooper VR-32s)
- · Integrate four existing 115 kV lines and one 13 kV feeder

Schedule:

This will be a three-year project. The goal is to complete grading, foundations, and steel work in 2009. Construction of the 115 kV switchyard will be first priority in 2010. The capacitor bank and distribution yard rebuild will extend into 2011.

This preliminary schedule is completely dependent upon the purchase of property on which to construct the substation. The construction dates will also float depending on crew availability.

Real Estate

Investigation & Procurement ASAP

Design Work

Grading Design Transmittal March 2009
Mechanical Design Transmittal June 2009
Electrical Design Transmittal December 2009

Contract Grading

Bid April 2009
Grading May-June 2009

Contract Fencing

Bid May 2009 Fencing June 2009

Mechanical Construction

Foundations/Steel July-November 2009

Electrical Construction

Switch Yard Capacitor Bank Distribution Yard March-November 2010 March-June 2011 September-October 2011

All four transmission lines will be cut over to the new switchyard prior to the winter of 2010-2011, with a shoofly left in place to keep the existing distribution yard energized. Feeder NEZ1267 will be cut over to the new distribution yard in late 2011.

Weather will be a large concern during this construction. For budgetary purposes, it is not recommended that we attempt to construct this station during the least efficient portion of the year (winter & early spring).

There has been some discussion concerning crew overtime and how it might effectively be utilized to mitigate the loss of efficiency that we will have on this job due to the remote location (large amounts of windshield time). Also, given that this job is greenfield, in a remote location, and will presumably be restricted by labor constraints, contract construction should be seriously considered.

No consensus on overtime utilization or contract construction has been reached at this time.

Budget:

This project has a multiyear budget under ER 2318:

2009	\$711k for Substation Engineering/Construction	(BI LS500)
	\$25k for Transmission Engineering	(BI LT806)
2010	\$75k for Property Purchase	(BI LS611)
	\$1300k for Substation Construction	(BI LS500)
	\$125k for Transmission Construction	(BI LT806)

The 2010/2011 budget is projected to more than double from the current projections. Reasons for this are discussed in Jim Farby's July 15th, 2008 memo, entitled "Nez Perce 115 kV Rebuild Scope Review". More accurate estimates will be made for budgeting purposes in late 2009. A small budget item may also be necessary for distribution feeder construction.

The distribution transformer and circuit breakers (2010 arrival) are covered under separate budget items.

Site Acquisition:

The existing substation sits just southwest of the intersection of Highway 7 and Powerline Road. There have been two property options for a new switchyard on the table.

The first option was to expand the existing substation west down Powerline Road. Given that the distribution equipment could stay in the existing yard in such a design, the additional land required would be approximately 300' x 370'. Real Estate has already had discussions with the owner of this land about expanding our existing station.

However, this land has drainage issues and a severe slope that would need to be mitigated with grading. If this site were utilized, a tiered substation design (similar to Third & Hatch) would be necessary. While construction could take place on this site, it will not be the lowest cost option. Experiences at recent major substation expansions (Benewah, Lolo) show that grading costs have been extraordinary and that working near energized equipment slows labor down considerably throughout the entire project. Given the remote location of this project, every

attempt must be made to reduce the construction timeframe. The sunk cost of the existing property is minimal compared to the increased cost that will come with construction west of the existing site.

The second option is to move the new substation across Highway 7, to the east. This would be a completely greenfield site, which would increase the speed (and decrease the cost) of construction. Drainage and grading are less of an issue with this site; however, the site is not presently for sale. Since the distribution yard will be moved as well, the land required is approximately 300' x 450'.

The amount of land to be bought will be minimal based on the preliminary designs. System Planning does not predict 230 kV to be brought into this area in the foreseeable future; therefore, no extra land for an eventual 230 kV yard will be purchased.

Working on the Reservation:

The existing Nez Perce Substation is on the Nez Perce Indian Reservation. Substation Design will work closely with Avista's cultural/environmental coordinators to communicate construction plans to the tribe proactively, particularly for site grading and any other land modification.

Given the past history at this substation (minor oil spill in recent years), Environmental is considering full (110%) oil containment for the new distribution transformer. At this point there are no plans to install oil containment for the 13 kV voltage regulators.

Physical Design:

Per Jim Farby's July 15th, 2008 memo, entitled "Nez Perce 115 kV Rebuild Scope Review", and minutes from the October 15th, 2008 Nez Perce Bus Design meeting, Nez Perce will be built as a main/auxiliary layout. A dedicated auxiliary breaker/bus is required in order to allow for breaker maintenance without an associated 115 kV line outage.

The distribution transformer will be connected to the auxiliary position so that it is switchable between the main and auxiliary busses. The 115 kV capacitor bank does not require this level of reliability; therefore, it will be connected to the main bus only.

Room has been built into the preliminary general plan such that future additions will be simple and straightforward. System Planning does not predict any additions in the immediate future (i.e. 10 years) but wind generation interconnections are a possibility in the 15-20 year range.

A fifth 115 kV line can be added between the auxiliary breaker and fourth 115 kV line position. At the other end of the yard, sufficient space has been reserved such that a second capacitor bank or a sixth 115 kV line can be added.

The distribution transformer pad will be large enough for an eventual 7.5 MVA transformer. There is room for a second feeder to be added onto the 13 kV RE structure; however, foundations and structural steel will not be added at this time. The single existing feeder will be an overhead feeder exit.

Outages:

115 kV line outages are understandably hard to come by in this area. Taking out any single line near Nez Perce limits the Grangeville area to a radial feed, with the associated low reliability.

Transmission outages will be as limited as possible. Miscellaneous single line outages will be required in late 2010 to cut all four 115 kV lines over to the new switchyard, and to install a shoofly to the existing distribution yard.

Finally, a short distribution outage will be necessary in 2011 in order to connect the distribution to the new feeder structure.

Distribution Feeder Phasing:

The existing transformer is connected High Lead Low (HLL). The new transformer will match the existing HLL phasing.

Mechanical Work:

Foundations

- (1) 15' x 30' (approximate) Panel House Foundation
- (1) 13 kV Step Voltage Regulators Foundation
- (1) 13 kV Vacuum Circuit Breaker Foundation
- (2) RE Structure Foundations
- (1) 7.5 MVA Transformer Pad
- (5) Deadend Tower Foundations
- (6) 115 kV Gas Circuit Breaker Foundations
- (3) Capacitor Bank Foundations
- (107) Switch/Bus Support Foundations (MR# type)

Steel:

- (17) 115 kV Air Switch Racks
- (73) Single Phase Bus/PT/Lightning Arrester Supports
- (1) 115 kV Fuse Platform
- (1) Single-Bay RE Structure
- (1) Four-Bay 115 kV Deadend Structure

Panel House

The panel house for the site will likely be about 15' wide by 30' long. At this point, several manufacturers (Bally, CXT, etc.) are being considered.

Oil Containment:

A gravel filled oil containment liner will be installed with the new transformer. The liner will be designed to contain at least 20% (and perhaps as much as 110%) of the transformer's total oil, since we are on the Nez Perce Indian Reservation.

Trenwa

Approximately 400 feet of Trenwa will be installed as a main cable pathway between all line breakers, the synchronous capacitor bank breaker, and the panel house.

Capacitor Bank Fence

Approximately 140 feet of fence, with one 4 foot walk gate, will be installed as a safety barrier around the 115 kV capacitor bank.

Electrical Work:

Grounding

The new grounding grid will utilize swaged DMC connectors. A peninsular ground grid will be installed around the capacitor bank, per the latest designs at Benewah, Dry Creek, and Grangeville.

Cable

Control cabling will be run in Trenwa and conduits, per designs at the last few transmission stations (Benewah, Lolo, Dry Creek).

Shielded control cable will be used in the capacitor bank area. A yard termination cabinet, similar to those used at Benewah and Dry Creek, will be used to transition to unshielded cable outside of the capacitor bank area.

Buswork

The main bus will use 3" aluminum pipe bus. The cross bus will use 2" aluminum pipe bus. The drops between the breakers and their associated disconnect switches may use conductor, pending design review.

New swaged connectors from DMC will be used for all pipe and conductor connections in the transmission switchyard.

The distribution yard "tap" off of the auxiliary position will utilize 2" aluminum pipe bus. Copper conductor will connect the transformer to the 13 kV breaker/bypass bus.

Major Equipment

Maintenance (69M) switches will be installed in all line, auxiliary, and synchronous breakers, as was done at Benewah Substation.

115 kV surge arresters will be installed on all four incoming lines. No static protection (masts/wires) will be installed.

Single phase line PTs will be installed on all four incoming lines. Three phase bus PTs will be installed on the main bus. The auxiliary bus will not have any direct voltage indication.

Equipment & Deliveries:

115-13 kV, 3.75 MVA Power Transformer	August 2009
115 kV Transformer Disconnect Switch	August 2009
115 kV Disconnect Switches	September 2009
115 kV Gas Circuit Breakers	September 2009
Panel House	September 2009
13 kV Vacuum Circuit Breaker	Already here
13 kV Step Voltage Regulators	Already here

Relay and Protection:

The current line breaker protection scheme will be installed for each line position panel, pending design. One panel will be needed for the dedicated auxiliary breaker. An additional panel will also be required for capacitor bank relaying and control.

The 115 kV protection for the distribution transformer will be 115 kV S&C SMD-2B fuses. The fault duty at this site is relatively low (approximately 5 kA) so fuses are acceptable.

The new distribution feeder will be protected by a SEL-351 overcurrent relay, which comes standard with the Square D Type FVR breaker.

Communications:

The current integration standard will be installed in the new substation, pending design.

The existing substation uses phone lines (a 2W POTS line and a 4W dedicated SCADA circuit) for communication. Due to the lack of fiber-optic communications in the area, the new substation will probably use the same scheme.

The Protection Design will indicate whether or not alternate forms of communication (microwave, radio, wave traps) are needed for remote protection schemes.

Attachments:

Nez Perce Initial Plan (Main-Aux) Nez Perce Preliminary One Line System Planning Scoping Memo Nez Perce Bus Design Meeting Minutes

	Task Name	Duration	Start	Finish	Half 2, 2008	Half 1, 2009	Half 2, 2009	Half 1, 20	10	Half 2, 2010	Half	1, 2011	Half 2, 2011	Exhibit No. (SJK-4 Haif 1, 2012	Half
1	Substation - Nez Perce	764 days	Mon 10/6/08	Fri 9/23/11	TOTOTALSTOLINID	I V F INI A INI S	I A A B U N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I [A] IVI J	1 V 2 0	INIDIA	I I WI I A I IVI	U I J I A I A I A I	N D J J I I I M J A	I IAI I O O
2	Project Development	170 days	Mon 10/6/08	Fri 6/5/09	<u> </u>			American de la company de la c			1		ļ.		
3	Preliminary Substation Design	20 days	Mon 10/6/08	Fri 10/31/08	Normalization of the Control of the				_					-	
4	CPR	1 day	Mon 11/3/08	Mon 11/3/08	emanata.						:				
5	Project Kickoff & Scoping Meeting	0 days	Tue 11/11/08	Tue 11/11/08	11/	11				···					
6	Procurement of Long-Lead Time Items	22 days	Mon 12/1/08	Wed 12/31/08	The second secon	<u>.</u>									
7	Investigate and Purchase Property	96 days	Fri 1/2/09	Fri 5/15/09		<u> </u>									
8	File Record of Survey w/County	0 days	Mon 3/2/09	Mon 3/2/09		♦ 3/2									
9	Construction Permits (Road Access)	44 days	Mon 3/2/09	Thu 4/30/09											
10	Cultural Survey & Tribal Communication	69 days	Mon 3/2/09	Fri 6/5/09							ļ !				
11	Engineering Design	244 days	Tue 1/13/09	Mon 12/28/09			1						1		
12	Ground and Topo Surveys	3 days	Tue 1/13/09	Thu 1/15/09		H							1		
13	Soil Survey	13 days	Fri 1/16/09	Tue 2/3/09				-			1				
4	Site & Grading Design	15 days	Wed 2/4/09	Tue 2/24/09											
15	Physical Design	65 days	Wed 2/25/09	Tue 5/26/09			 	- -			- 		 		
16	Planned Requirements	5 days	Tue 6/2/09	Mon 6/8/09		V					!				
7	Procurement of Non-stock Items	5 days	Tue 6/9/09	Mon 6/15/09			>		_						
18	Grading/Fencing Transmittal	0 days	Fri 4/17/09	Fri 4/17/09		4/17									,
19	Grading/Fencing Bid	40 days	Fri 4/17/09	Fri 6/12/09			,		_				-		
20	Foundation Design	20 days	Mon 5/4/09	Fri 5/29/09							İ				
21	Transmittal - Physicals	0 days	Fri 6/26/09	Fri 6/26/09		And Andrews An	6/26				<u> </u>				-
22	Foundations/Steel Bid	40 days	Fri 6/26/09	Fri 8/21/09											
23	Soil Resistivity Test	5 days	Mon 7/6/09	Fri 7/10/09					·		· 		<u>i</u>	,	
24	Grounding Design	20 days	Mon 7/13/09	Fri 8/7/09											
25	Protective Relay Design	0 days	Wed 7/15/09	Wed 7/15/09			7/15	_					<u> </u>	····	
26	Substation Automation Design	0 days	Fri 8/28/09	Fri 8/28/09			8/28								
27	Substation Electrical Design	112 days	Mon 7/6/09	Fri 12/11/09									-		
28	Transmittal - Electricals	0 days	Mon 12/28/09	Mon 12/28/09				12/28			! 				
29	Construction & Energization	589 days	Mon 6/15/09	Fri 9/23/11			<u></u>				1	·			
30	Construction - Grading/Fencing	40 days	Mon 6/15/09	Mon 8/10/09		•							V		
31	Construction - Mechanical	100 days	Mon 8/24/09	Fri 1/15/10		,							-	*,····	
32	Construction - Electrical (Switch Yard)	189 days	Mon 3/1/10	Thu 11/18/10				<u> </u>					,		
33	Ready for Telecomm	0 days	Mon 5/31/10	Mon 5/31/10	*				<u> </u>	/31	i ;				
34	Telecomm Connected	0 days	Wed 6/30/10	Wed 6/30/10					•	6/30					
35	Construction - Move Transmission Lines	20 days	Mon 9/6/10	Fri 10/1/10				+++		Marie Control	 		***************************************		
36	Switch Yard Energization	0 days	Thu 11/18/10	Thu 11/18/10						of the state of th	11/18		1		
	Construction - Electrical (Cap Bank)	80 days	Mon 3/7/11	Fri 6/24/11			<u> </u>				▼ ,				
		0 days	Fri 6/24/11	Fri 6/24/11							1		6/24		
37	Cap Bank Energization	,-		Fri 8/19/11				-				-			
37 38	Cap Bank Energization Construction - Electrical (Distribution)	40 days	Mon 6/27/11	11101101111		I					ļ				
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Interoffice Memorandum
System Planning

MEMO: SP-2008-03

DATE: July 15, 2008

TO: Distribution

FROM: Jim Farby

SUBJECT: Nez Perce 115kV Rebuild Scope Review

Background

Planning studies have long identified the need for reactive resources in the Camas Prairie area. Since the NERC TPL Planning Standards have become "mandatory and enforceable" the need for reactive resources in the Camas Prairie area are now a compliance issue. The 2006 studies outlined in "Nez Perce Capacitor Study (10/13/06)" by Randy Gnaedinger recommended, at the suggestion of Operations, that capacitor banks be placed at Grangeville and Nez Perce. The Grangeville capacitor bank should be in service late 2008. The installation of the capacitor bank at Nez Perce is scheduled for 2009/2010 in conjunction with the substation rebuild.

The current wood-pole single strain bus substation at Nez Perce was rebuilt on an existing site in 1965. Breakers A-226 & A-228 were installed in 1965, while breakers A-330 & A-331 were replaced in 2003 & 2000 respectively. The 115/13kV transformer was purchased in 1957. In July 2006 a protracted outage occurred due to the failure of the 115kV power fuse holder, part of the 1974 capacity increase. The Mobile Substation was dispatched after repaired the fuse holder disintegrated during the restoration attempt, parts of which damaged a high side bushing on the transformer. Shortly after this incident the decision was made to rebuild the substation.

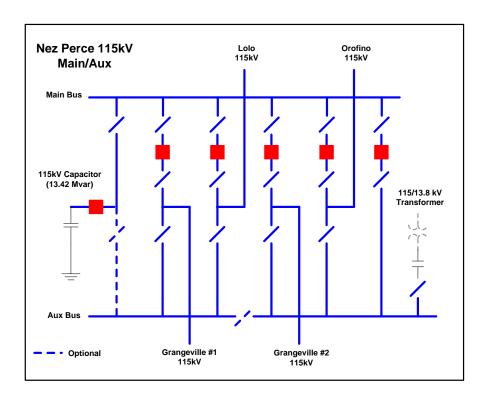
The 2006 budget estimate of \$2M was based upon the cost of Ramsey Switching Station (four lines, steel & single rigid bus, plus a capacitor bank) in 1997 dollars with a cost escalation of 3% per year. Operations requested a bus configuration with a little more flexibility than the single bus design. During subsequent meetings the Double Breaker – Double Bus (DB-DB) layout was selected over a Ring Bus (relay communications required) and a Main/Aux (slightly cheaper than DB-DB but not as flexible). Mike Nissley had referenced the *Electric Power Substation Engineering* book, CRC (2003 Edition) to determine the cost ratios associated with a particular substation layout. They are as follows: Main (Single) Bus – 1.0, Main/Aux – 1.7, Breaker & a Half – 1.8, and DB-DB – 1.93. Unfortunately the cost ratio for DB-DB (1.93) used by Mike was not applied to the \$2M base estimate. An estimate of \$3.9M should have been used in the 2006 Budget.

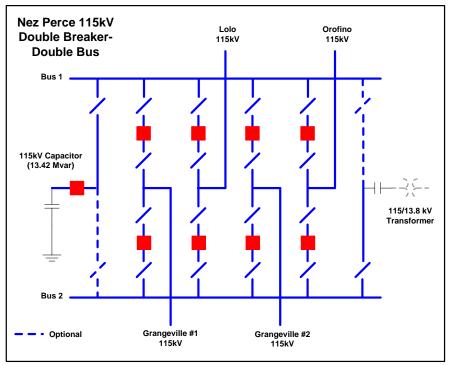
Review

With the impact of the cost escalation in material & labor plus the suggestion from Operations that a Main/Aux would be adequate for Nez Perce I decided to review the DB-DB verse Main/Aux decision. Mike Magruder was kind enough to supply updated cost estimates, they are as follows: DB-DB - \$3.75M and Main/Aux - \$3.175M. The estimate did not include the distribution equipment (transformer, circuit switcher, feeder bay, etc).

Recommendation

A Main/Aux with a dedicated aux breaker adequately meets the Operational & Planning requirements for Nez Perce and the Camas Prairie. Future Capital Budget constraints require that we spend the available dollars as efficiently as possible. I recommend that we reconsider the decision to construct Nez Perce as DB-DB and opt for a Main/Aux configuration.



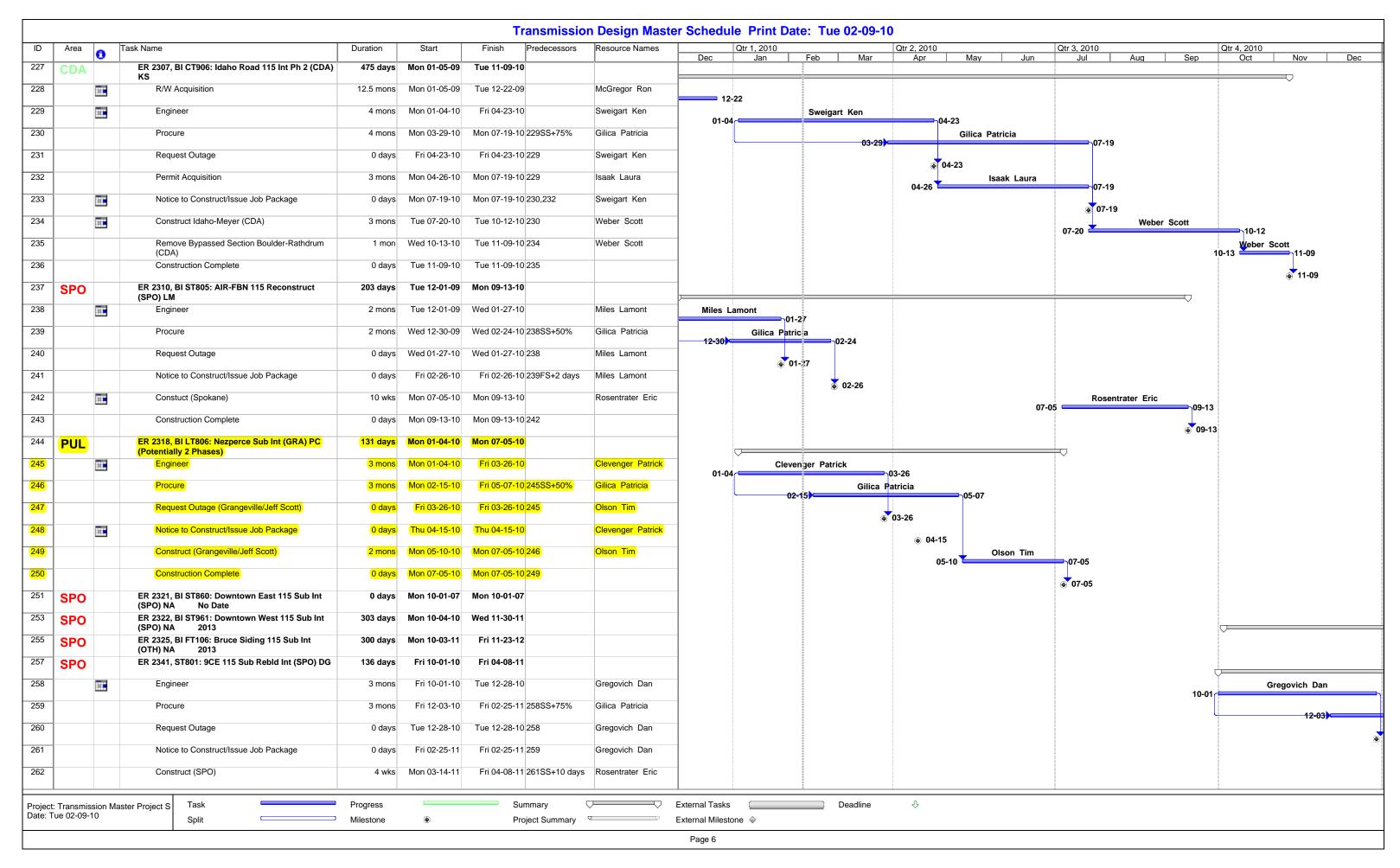


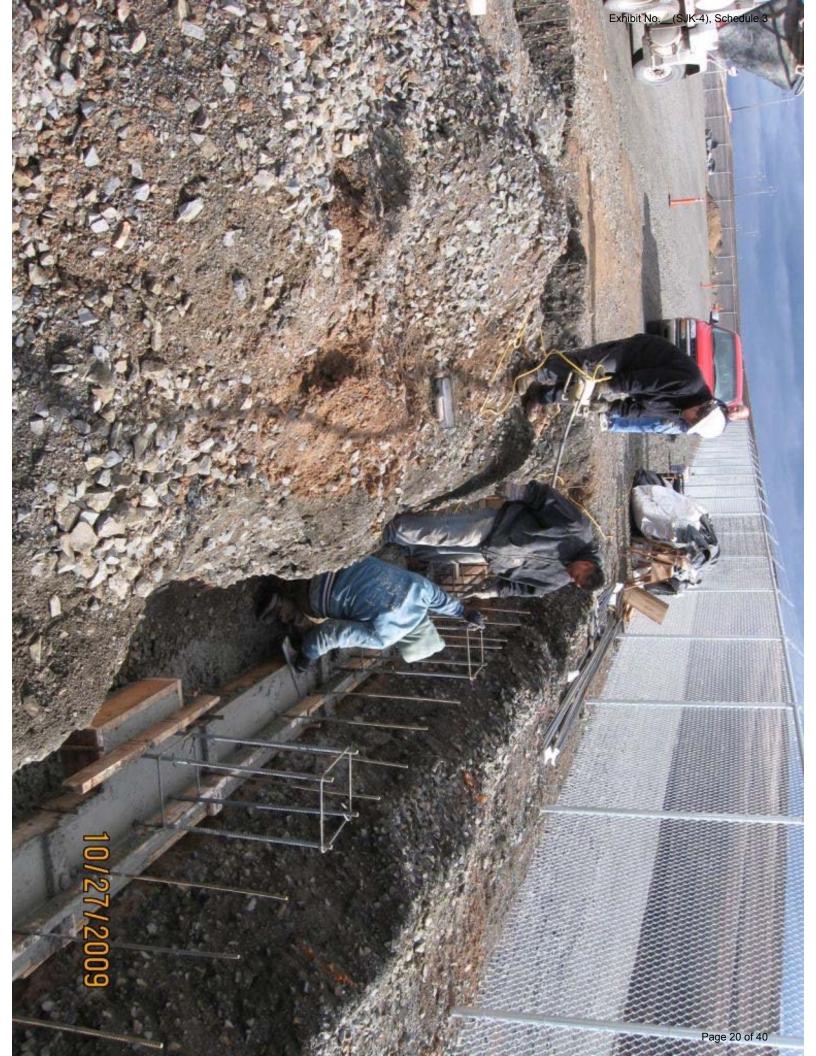
I believe the Main/Aux verse DB-DB debate came up during the 07/10/08 Capital Budget Meeting but was not resolved. This memo was drafted prior to this meeting. If you have any questions regarding this memo, please contact me at x2921

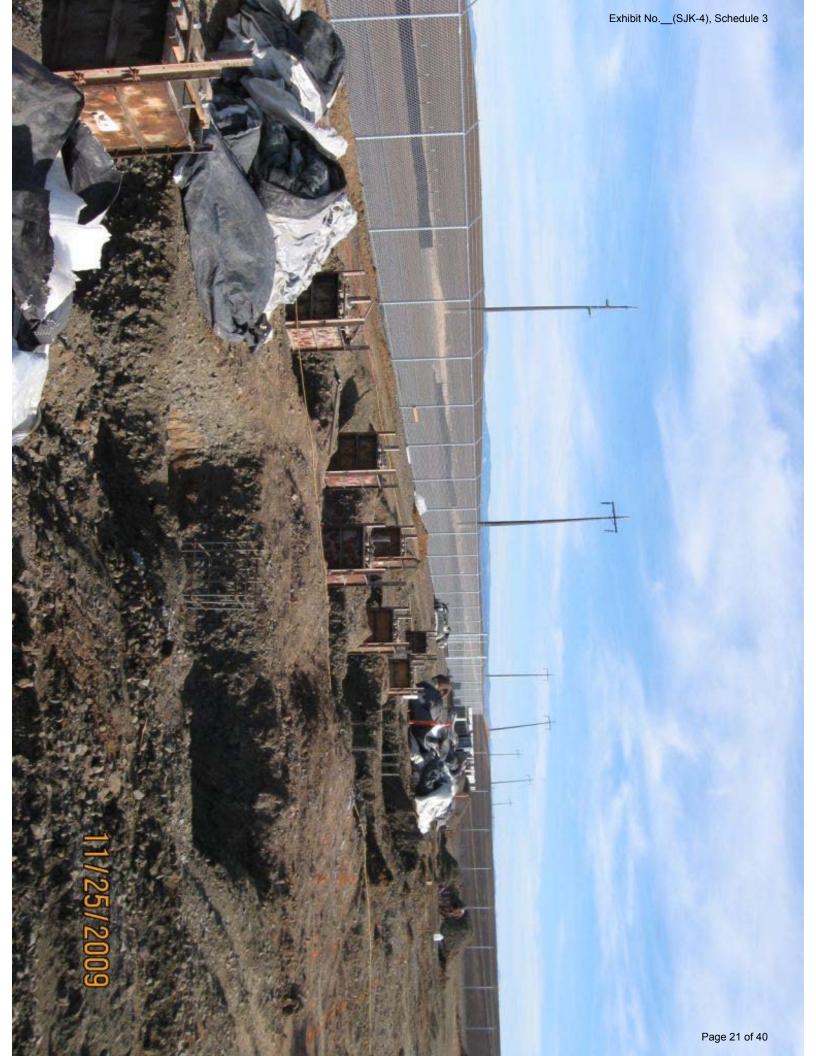
Distribution:

Scott Kinney Rick Vermeers Scott Waples
Dave James Dennis Howey Garth Brandon
Rich Hydzik Mike Magruder

2008 SP Record (SharePoint)











CONFIDENTIAL per WAC 480-07-160

CONSTRUCTION AGREEMENTS Pgs.25 - 40

AVISTA UTILITIES 2010 CAPITAL PROJECTS

ER No.: 2277

ER Name: SCADA Replacement

Pro Forma Amount: \$510,001

Expended to date: \$ 23,244

2010 Transfer to Plant Date: Quarterly throughout 2010

Project Description:

SCADA Replacement: The Supervisory Control and Data Acquisition (SCADA) system is used by the system operators to monitor and control the Avista transmission system. The SCADA system will be upgraded in 2010 to a new version provided by our SCADA vendor. The current application is no longer supported by the vendor. The upgrade will ensure Avista has adequate control and monitoring of its Transmission facilities. This portion of the project is required to meet Reliability Compliance under NERC Standards: TOP-001-1, TOP-002-2a R5-R10, R16, TOP-005-2 R2, TOP-006-2 R1-R7, CIP-005, CIP-007. There are no offsets or savings associated with this upgrade project, because the Company already pays the application vendor a set annual maintenance fee for support.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:	Start Date	End Date
Project Scoping	March 1, 2010	April 15, 2010
Phase 1 – Equipment procurement, configuration of EMS Servers/Clients/Active Directory/Multi-host failove	April 15, 2010 er	September 1, 2010
Phase 2 – e-terraTrust installation	September 1, 2010	October 31, 2010
Phase 3 – e-terraControl/e-terraComm upgrades	November 1, 2010	December 31, 2010

Additional Information:

Capital Project Request (CPR) Forms, including all attachments
 pg. 2-3

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

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Revised January 2009

AVISTA UTILITIES 2010 CAPITAL PROJECTS

ER No.: 2293

ER Name: SCADA II Replacement

Pro Forma Amount: \$289,999

Expended to date: \$0

2010 Transfer to Plant Date: June and December 2010

Project Description:

SCADA Replacement: The Supervisory Control and Data Acquisition (SCADA) system is used by the system operators to monitor and control the Avista transmission system. The SCADA system will be upgraded in 2010 to a new version provided by our SCADA vendor. The current application is no longer supported by the vendor. The upgrade will ensure Avista has adequate control and monitoring of its Transmission facilities. This portion of the project is required to meet Reliability Compliance under NERC Standards: TOP-001-1, TOP-002-2a R5-R10, R16, TOP-005-2 R2, TOP-006-2 R1-R7, CIP-005, CIP-007. There are no offsets or savings associated with this upgrade project, because the Company already pays the application vendor a set annual maintenance fee for support. This is an annual System ER that replaces/upgrades SCADA systems and installs new SCADA systems in substations throughout Avista's service territory. Therefore, this project has a completion time of 12/31/10.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

The Remote Terminal Unit (RTU) at Beacon 230 kV Substation will be replaced in the Q3-Q4 timeframe. Other failed RTU's will be replaced/upgraded on an as needed basis under the annual System ER 2293.

Additional Information:

Capital Project Request (CPR) Forms

Pg. 2

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

Non Standard Work Breakdown Structure Needed (Optional) Pêer Task Project Contact & Extension Shirley Grant Ext. 4057 APPROVAL SIGNATURE(S) REQUIRED To \$99.999 "Director \$100,000-\$499.999 "VP or GM Utility \$500,000-\$2,999,999 Sr Vice President/CFO/(\$3,000,000-\$2,999,999 President/CFO/COO Over \$10,000,000 Board Chair Out-of-Budget Capital Budget Committee: THE PROJECT SEONSOR IS RESPONSIBLE FOR CLOSING THIS JIOB		STA		PROJECT REQU	JEST FORM	Request Type	Project(s)
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Revised January 2009

AVISTA UTILITIES 2010 CAPITAL PROJECTS

ER No.: 2481

Project Name: System Replace/Install Capacitor Bank

Pro Forma Amount: \$750,000

Expended to date: \$195,924

2010 Transfer to Plant Date: June 2010 - \$522,000 and November 2010 \$228,000

Project Description:

System Replace/Install Capacitor Bank (\$0.750 million): This project includes the construction of a 115 kV capacitor bank at Airway Heights to support local area voltages during system outages. The project is required to meet reliability compliance with NERC Standards: TOP-004-2 R1-R4, TPL-002-0a R1-R3, TPL-003-0a R1-R3, and provide improved service to customers. The project is scheduled to be completed by July of 2010. There are no loss savings or other offsets associated with this new equipment installation. The capacitor bank is expected to be energized by August 31, 2010.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

Ordering of material is expected to be completed in March 2010. Expansion of the existing substation yard to include grading, fencing and foundation work is expected to begin in May 2010. Installation of major electrical equipment is expected to begin in June 2010. Installation of control circuitry, protective relaying and communications equipment is expected to begin in July 2010 and be completed in August 2010.

Additional Information:

•	Costs	pg. 3-4
•	Capital Project Request (CPR) Form and Budget Report	pg. 5-7
•	Purchase Orders (Confidential)	pg. 8-14
•	Site Plan Avista Drawing E-35608	pg. 15

AVISTA UTILITIES 2010 CAPITAL PROJECTS

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During the course of Avista's pending general rate case, updated information will be available for audit.

					2009 Transaction Amt SUM	2010 Transaction Amt SUM
Er	Project Number	Project Desc	Expenditure Category	Expenditure Type		
2481	02805383	Airway Hts Capacitor bank DisT	AFUDC	535 AFUDC - Debt	11.55	34.95
				540 AFUDC - Equity	14.26	44.71
			Employee Expenses	210 Employee Auto Mileage	14.30	-
			Labor	340 Regular Payroll - NU	2,217.11	1,348.74
			Overhead	510 Payroll Benefits loading	1,285.93	809.24
				515 Payroll Tax loading	193.99	118.01
				520 Payroll Time Off loading	387.99	236.02
		Sum			4,125.13	2,591.67
	02805384	Airway Hts capacit bank trans	AFUDC	535 AFUDC - Debt	276.44	849.97
				540 AFUDC - Equity	341.05	1,087.12
			Labor	310 Non Benefit Labor - NU	-	328.90
				320 Overtime Pay - NU	754.50	1,291.05
				340 Regular Payroll - NU	12,165.45	7,292.80
			Overhead	505 Capital Overhead - A & G	682.36	-
				506 Cap Overhead - Functional	18,196.38	-
				510 Payroll Benefits loading	7,105.99	4,375.67
				515 Payroll Tax loading	1,130.48	779.85
				520 Payroll Time Off loading	2,128.96	1,292.97
				530 Stores/Material Loading	6,739.41	-
			Voucher	880 Materials & Equipment	84,242.50	10,355.85
		Sum			133,763.52	27,654.18
	02805385	Airway Hts capacitor bank comm	AFUDC	535 AFUDC - Debt	17.13	137.88
				540 AFUDC - Equity	21.14	176.36
			Labor	320 Overtime Pay - NU	167.67	-
				340 Regular Payroll - NU	2,230.50	-
			Material	415 Material Issues	4,324.24	17,145.00
			Overhead	505 Capital Overhead - A & G	34.72	137.67
				510 Payroll Benefits loading	1,293.69	-
				515 Payroll Tax loading	209.84	-
				520 Payroll Time Off loading	390.34	-
				530 Stores/Material Loading	259.46	1,028.70
				532 Materials Tax/Fght Loading	43.24	171.45
		Sum			8,991.97	18,797.06
	03805196	Pinecrk repl capacitor bank	AFUDC	535 AFUDC - Debt	1.87	2.42
				540 AFUDC - Equity	2.34	3.10
			Labor	340 Regular Payroll - NU	213.66	
			Overhead	505 Capital Overhead - A & G	0.03	
				506 Cap Overhead - Functional	0.72	
				508 Cap Overhd - Safety Clthng	0.01	
				510 Payroll Benefits loading	123.92	-

AVISTA UTILITIES ER 2481 COSTS THROUGH MARCH 15, 2010

					2009 Transaction Amt SUM	2010 Transaction Amt SUM
Er	Project Number	Project Desc	Expenditure Category	Expenditure Type		
	-	•		515 Payroll Tax loading	18.70	-
				520 Payroll Time Off loading	37.39	-
			Voucher	885 Miscellaneous	4.01	-
	Sum				402.65	5.52
	Sum				147,283.27	49,048.43

196,331.70

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	STA	CAPITAL	PROJECT REQU	JEST FORM	Request Type	Project(s)
<u></u>	//, Corp.	Use Tab Key		(CPR)	New .	02802383
ER///	Bydget Category	Service Code		t Title (30 Characters)	Project if lie Count	02805384
2481	5-Maintenance	ED-Electric Direct	Airway	Hts Capacitor Bank	25	02505385
_ng Project Na	me (100 Characters	Airway Heights 115 kV Sı	shotofian Install Cal	positor Pank	setup	'Parent' Code
	·			_	7/15/3	AIR09A
Approved Budget	Will This Project Include	Long Project Name Count	ER Sponsor M08	XS901	WMS Job# No	Rate Jurisdiction AN-Allocated North
	Retirement of Materials or	Revenue Type NA- Not Applicable		the disputation who who had a second		cation elect
Billing	Equipment?	THE PROPERTY OF THE PROPERTY O	Billing Contact	KEY menon was	Project	Start Date /2009
l 	The Section of the Se	<u> </u>				
		se and Necessity - 240 Characters				
	MVAR capacitor ba	ank is to be installed at the Airwa	ay Heights 115 kV St	ubstation. Other associated equiportion and station integration system		
F2 .00	<i>I</i> · · · ,	Dan 11:12/16		- /lomor	1091	
1 enex		OC Dist, L. L. = CONSTRUCTION		Budget Authorized:	of only	\$593,000
Office Use only	FERC	Estimated Amount	As Built Amount	Budget Audionzeo.		 \$080,000
Task	3XXXXX	By FERC Number	By FERC Number	Office Use Onl		Data
1 do R		<u> </u>		Project Set Up By C	<u>y</u>	Date
2020	300100	\$50,200	0280538Y A			
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107/16	361000		028023X3W		<u>1/15/04 PJG</u>	
101638	397000	\$54,60U°	<u>OS&02385 m</u>			
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		ļ. <u> </u>	' '7	////	PROVALS	
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GROSS ADDITI		\$587,100		Signature / //		
Cost of Remova	al By FERC (3XXX			Willer //	1some	1
107300	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\$2,400	/	William J. Choma	. 10	7/7/2009
108002	361000	\$2,400		Signature - 0 000	0	1 1 1 0
	397000	\$ <u>3,1</u> 00 \		Muchant Ci Ma	gud-	7/7/09
				Michael A. Magruder	9	-
				Signature		- 1. /
	Total Removal	\$7,900		Gul 1 Vec	حد	7/8/09
Salvage By FER				Richard L. Vermeers		
	<i>\$00</i> 0353000	(\$1,000)	/,	Signature 0		
Q8690 ×	361000	(\$500)	/	MOUNT		
	397000	(\$500)		Dön Kopczyński		- 3
	Total Salvage	(\$2,000)		Signature	-110	-1.100
Total Removal I		\$5,900		Bent le	.ll : 1	7/14/09
				Dennis Vermillion	1	
Non Standard V	Vork Breakdown S	Structure Needed (Optional)				
Peer Task				Project Contact & Extension	Shirley Grant Ext. 4	4057
				APPROVAL SIGN	ATURE(S) REQUIR	RÉD
				To \$99,999 - Director	<u> </u>	<u></u>
Sub Task		· · · · · · · · · · · · · · · · · · ·		\$100;000-\$499;999 - VP or GM U	elle.	
July 1491	 -			\$500,000-\$2,999,999 - Sr Vice Pr		
				\$3,000,000-\$2,999,999 - Presider		
				\$3,000,000-\$9,999,999 - Presider Over \$10,000,000 - Board Chair	MOERICOO	
	···-					Service Service
200 S. S. S. S. S. S. S. S. S. S. S. S. S.			<u></u>	Out-of-Budget - Capital Budget G	ommittee	100 Co. 100 Co. 100 Co. 100 Co. 100 Co. 100 Co. 100 Co. 100 Co. 100 Co. 100 Co. 100 Co. 100 Co. 100 Co. 100 Co
				THE PROJECT SPONSOR IS RESP		
Date Prepared:				IMMEDIATELY UPON COMPLETION	AND THE RESERVE OF THE PARTY OF	
				COMPLETE AS BUILDINFO AND F	ORWARD TO UTILIT	Y ACCOUNTING
OTAL COST OF	F PROJECT	\$593,000				
				Date Work Completed		
Q		Project and Fixed Asset Account		Foreman/		
	(Sue ext-4	4472 or Howard ext-2936)	<u>]</u> :	Supervisor		

Revised January 2009

Budget Report By Task And Account

Project Name:

Total

Airway Heights - Install Capacitor Bank

Generated:	03-04-2010 3:33:13 PM			
Task: 300100, Account: 300100				
•	Past Years	2009	Future Years	Total
Labor Cost	\$0.00	\$28,738.00	\$0.00	\$28,738.00
Labor Overheads	\$0.00	\$21,266.12	\$0.00	\$21,266.12
Travel Time	\$0.00	\$0.00	\$0.00	\$0.00
Room and Board	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00
Transport, Cart, and Hauling	•		,	
Material Cost	\$0.00	\$0.00	\$0.00	\$0.00
Misc Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Sales Tax	\$0.00	\$0.00	\$0.00	\$0.00
Stores Expense	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal	\$0.00	\$50,004.12	\$0.00	\$50,004.12
General Overheads	\$0.00	\$0.00	\$0.00	\$0.00
AFUDC	\$0.00	\$202.52	\$0.00	\$202.52
Salvage	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$50,206.64	\$0.00	\$50,206.64
Task: 107300, Account: 353000				
rusii. 101000, Addounti 00000	Past Years	2009	Future Years	Total
Labor Cost	\$0.00	\$55,231.30	\$0.00	\$55,231.30
Labor Overheads	\$0.00	\$40,871.16	\$0.00	\$40,871.16
Travel Time	\$0.00	\$12,703.20	\$0.00	\$12,703.20
Room and Board	\$0.00	\$16,569.39	\$0.00	\$16,569.39
Transport, Cart, and Hauling	\$0.00	\$11,046.26	\$0.00	\$11,046.26
· · · · · · · · · · · · · · · · · · ·	\$0.00	\$174,768.64	\$0.00	\$174,768.64
Material Cost				
Misc Equipment	\$0.00	\$8,738.43	\$0.00	\$8,738.43
Sales Tax	\$0.00	\$14,156.26	\$0.00	\$14,156.26
Stores Expense	\$0.00	\$10,486.12	\$0.00	\$10,486.12
Subtotal	\$0.00	\$344,570.76	\$0.00	\$344,570.76
General Overheads	\$0.00	\$62,022.74	\$0.00	\$62,022.74
AFUDC	\$0.00	\$1,646.70	\$0.00	\$1,646.70
Salvage	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$408,240.20	\$0.00	\$408,240.20
Task: 107300, Account: 361000				
,	Past Years	2009	Future Years	Total
Labor Cost	\$0.00	\$5,346.00	\$0.00	\$5,346.00
Labor Overheads	\$0.00	\$3,956.04	\$0.00	\$3,956.04
Travel Time	\$0.00	\$1,229.58	\$0.00	\$1,229.58
Room and Board	\$0.00	\$1,603.80	\$0.00	\$1,603.80
	\$0.00	\$1,069.20	\$0.00	\$1,069.20
Transport, Cart, and Hauling	\$0.00	\$41,404.00	\$0.00	\$41,404.00
Material Cost				
Misc Equipment	\$0.00	\$2,070.20	\$0.00	\$2,070.20
Sales Tax	\$0.00	\$3,353.72	\$0.00	\$3,353.72
Stores Expense	\$0.00	\$2,484.24	\$0.00	\$2,484.24
Subtotal	\$0.00	\$62,516.78	\$0.00	\$62,516.78
General Overheads	\$0.00	\$11,253.02	\$0.00	\$11,253.02
AFUDÇ	\$0.00	\$298.77	\$0.00	\$298.77
Salvage	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$74,068.57	\$0.00	\$74,068.57
Task: 107300, Account: 397000				
	Past Years	2009	Future Years	Total
Labor Cost	\$0.00	\$8,039.00	\$0.00	\$8,039.00
Labor Overheads	\$0.00	\$5,948.86	\$0.00	\$5,948.86
Travel Time	\$0.00	\$1,848.97	\$0.00	\$1,848.97
Room and Board	\$0.00	\$2,411.70	\$0.00	\$2,411.70
Transport, Cart, and Hauling	\$0.00	\$1,607.80	\$0.00	\$1,607.80
Material Cost	\$0.00	\$22,000.00	\$0.00	\$22,000.00
	\$0.00	\$1,100.00	\$0.00	\$1,100.00
Misc Equipment				
Sales Tax	\$0.00	\$1,782.00	\$0.00	\$1,782.00
Stores Expense	\$0.00	\$1,320.00	\$0.00	\$1,320.00
Subtotal	\$0.00	\$46,058.33	\$0.00	\$46,058.33
General Overheads	\$0.00	\$8,290.50	\$0.00	\$8,290.50
AFUDC	\$0.00	\$220.11	\$0.00	\$220.11
Salvage	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$54.568.94	\$0.00	\$54,568.94

\$0.00

\$54,568.94

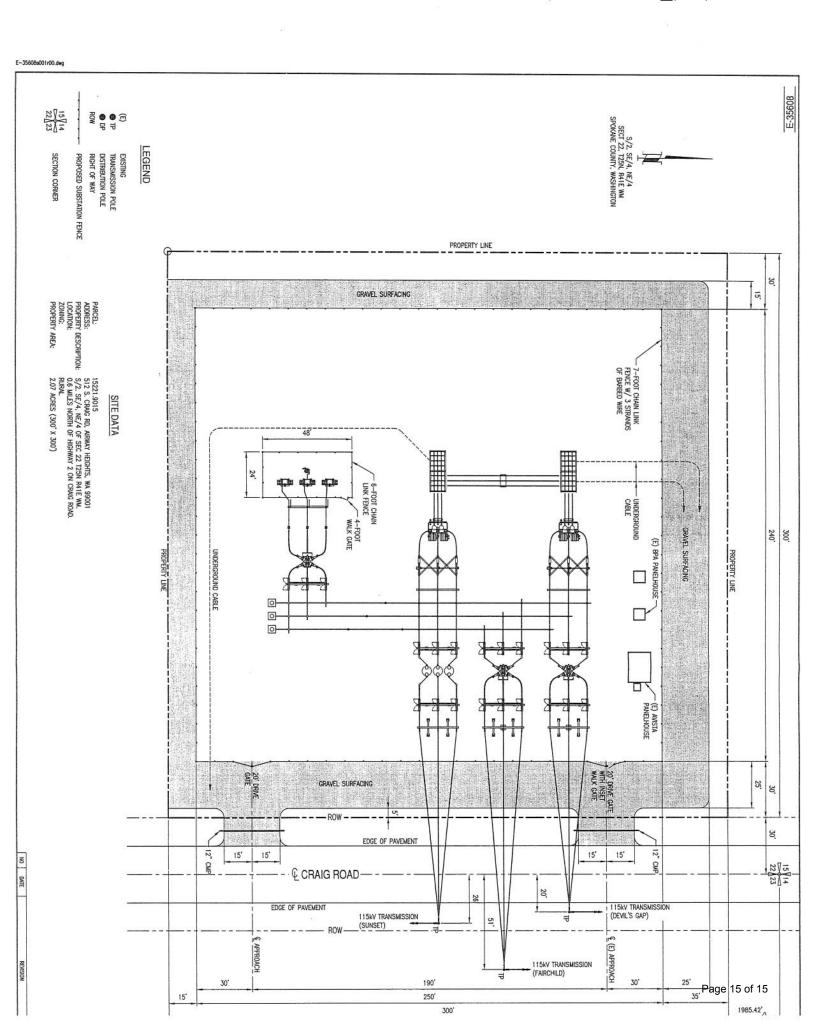
\$54,568.94

\$0.00

Task: 108000, Account: 353000				
	Past Years	2009	Future Years	Total
Labor Cost	\$0.00	\$972.00	\$0.00	\$972.00
Labor Overheads	\$0.00	\$719.28	\$0.00	\$719.28
Travel Time	\$0.00	\$223.56	\$0.00	\$223,56
Room and Board	\$0.00	\$291.60	\$0.00	\$291.60
Transport, Cart, and Hauling	\$0.00	\$194.40	\$0.00	\$194.40
Material Cost	\$0.00	\$0.00	\$0.00	\$0.00
Misc Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Sales Tax	\$0.00	\$0.00	\$0.00	\$0.00
Stores Expense	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal	\$0.00	\$2,400.84	\$0.00	\$2,400.84
General Overheads	\$0.00	\$0.00	\$0.00	\$0.00
AFUDC	\$0.00	\$9.72	\$0.00	\$9.72
Salvage	\$0.00	(\$1,000.00)	\$0.00	(\$1,000.00)
Total	\$0.00	\$1,410.56	\$0.00	\$1,410.56
Task: 108000, Account: 361000				
12511 15555, 16554111 551555	Past Years	2009	Future Years	Total
Labor Cost	\$0.00	\$972.00	\$0.00	\$972.00
Labor Overheads	\$0.00	\$719.28	\$0.00	\$719.28
Travel Time	\$0.00	\$223.56	\$0.00	\$223.56
Room and Board	\$0.00	\$291.60	\$0.00	\$291.60
Transport, Cart, and Hauling	\$0.00	\$194.40	\$0.00	\$194.40
Material Cost	\$0.00	\$0.00	\$0.00	\$0.00
Misc Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Sales Tax	\$0.00	\$0.00	\$0.00	\$0.00
Stores Expense	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal	\$0.00	\$2,400.84	\$0.00	\$2,400.84
General Overheads	\$0.00	\$0.00	\$0.00	\$0.00
AFUDC	\$0.00	\$9.72	\$0.00	\$9.72
Salvage	\$0.00	(\$500.00)	\$0.00	(\$500.00)
Total	\$0.00	\$1,910.56	\$0.00	\$1,910.56
Task: 108000, Account: 397000				
•	Past Years	2009	Future Years	Total
Labor Cost	\$0.00	\$1,253.00	\$0.00	\$1,253.00
Labor Overheads	\$0.00	\$927.22	\$0.00	\$927.22
Travel Time	\$0.00	\$288.19	\$0.00	\$288.19
Room and Board	\$0.00	\$375.90	\$0.00	\$375.90
Transport, Cart, and Hauling	\$0.00	\$250.60	\$0.00	\$250.60
Material Cost	\$0.00	\$0.00	\$0.00	\$0.00
Misc Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Sales Tax	\$0.00	\$0.00	\$0.00	\$0.00
Stores Expense	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal	\$0.00	\$3,094.91	\$0.00	\$3,094.91
General Overheads	\$0.00	\$0.00	\$0.00	\$0.00
AFUDC	\$0.00	\$12.53	\$0.00	\$12.53
Salvage	\$0.00	(\$500.00)	\$0.00	(\$500.00)
Total	\$0.00	\$2,607.44	\$0.00	\$2,607.44

CONFIDENTIAL per WAC 480-07-160

PURCHASE ORDERS pg. 8 - 14



ER No.: 2310

ER Name: West Plains Transmission Reinforce

Pro Forma Amount: \$975,000

Expended to Date: \$4,686

2010 Transfer to Plant Date: December 2010

Project Description:

The Airway Heights-Silver Lake (North Fairchild Tap) 115kV Transmission Line is part of a 115kV loop around the West Plains area. The System Planning department has identified the need to reinforce the West Plains 115kV system by upgrading the lines in the area to a 100 MVA capacity. Approximately 8.5 miles of the Airway Heights-Silver line toward Silver Lake were constructed single-pole style in 2007 with 556 AAC conductor, carrying the desired 100 MVA capacity rating. However, the first 2.5 miles from Airway Heights were constructed H-frame style in 1942 with #2/0 ACSR conductor, carrying only a 48 MVA rating. This work is necessary to upgrade the final 2.5 miles of the ten mile long transmission line from #2/0 ACSR to 556 kcm Aluminum (100 MVA-Summer) conductor.

Due to the age of the line, and the increase in sag for the new conductor compared to the existing, this project calls for a full rebuild. The existing wood H-frame structures and wire will be removed and new steel H-frame structures and wire will be installed.

The line upgrade will meet compliance requirements associated with NERC Standards: TOP-004-2 R1-R4, TPL-002-0a R1-R3, TPL-003-0a R1-R3. Additionally, this work will increase service reliability to an essential military facility (North Fairchild Air Force Base). Using 2009 actual loads, the new conductor will reduce line losses by 71 MWh on an annual basis, establishing a yearly offset savings of \$7,100 (based on a \$100/MWh avoided energy cost); these savings have been reflected in the proposed revenue requirement.

The transmission line estimating process uses a baseline per mile costs derived from industry averages (see attached Feasibility Cost Chart for further detail). This number is increased based on consideration of project variables including, but not limited to, project location, soil conditions, construction timing, commodity prices, overhead rates, etc. A parallel estimate is also developed based on the engineer's/designer's best judgment of what it will take to complete the project using the line items established in the Engineer Design Scoping Document (DSD: see attached for further details). These two approaches are reconciled with review of the department manager. An additional estimate check is made when the project uses the TL-Pro design software package. This program contains an estimating function based on variables provided by the user.

Steel poles and crossarms are specified for their life-cycle cost advantages.

pg. 8-9

AVISTA UTILITIES 2010 CAPITAL PROJECTS

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. In addition, this project will reduce line losses by 71 MWH on an annual basis, establishing a yearly offset savings of \$7,100 (based on a \$100/MWH avoided energy cost).

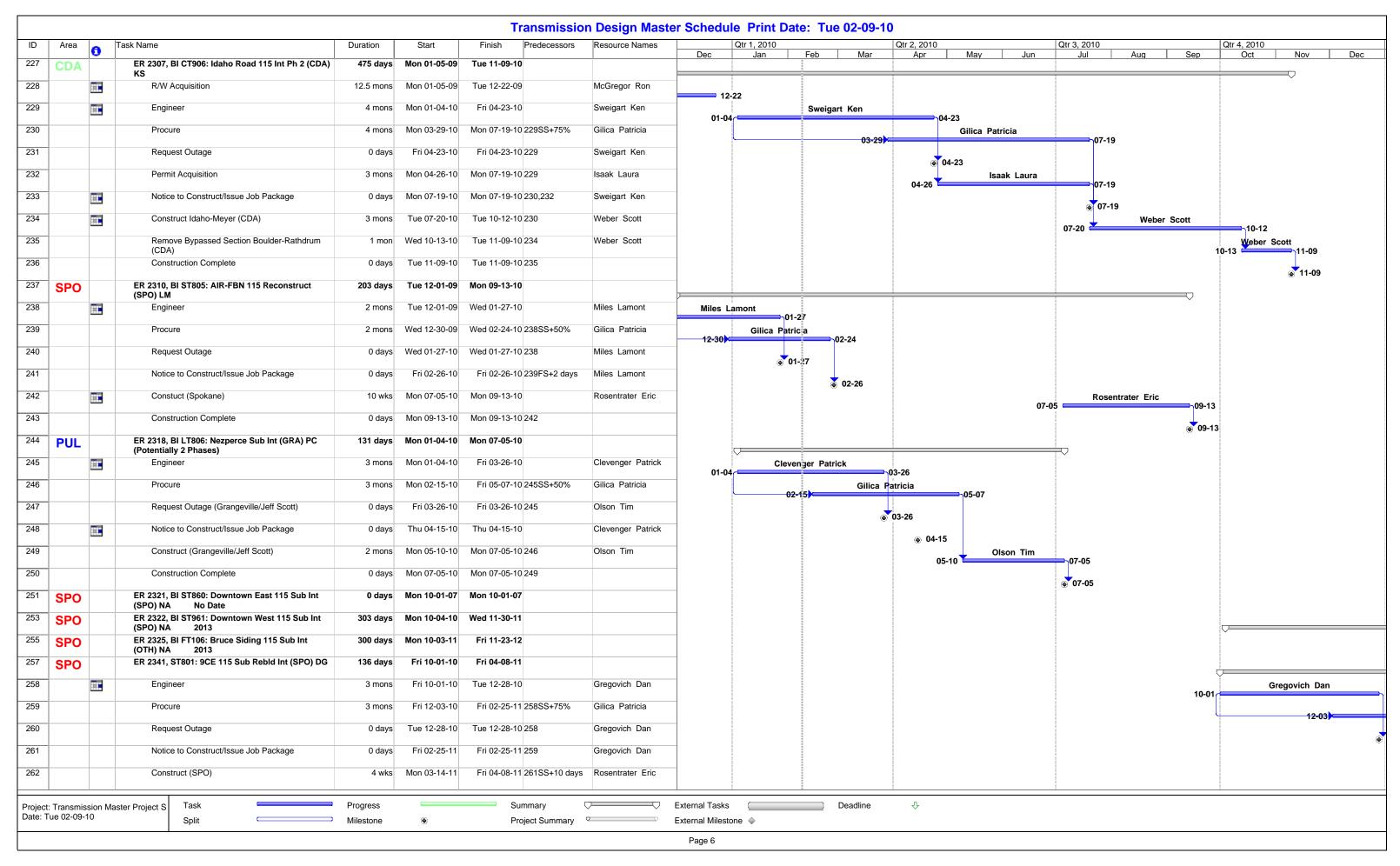
Timeline:	Start Date	End Date			
BI ST805: Airway Heights – Silver Lake 115kV Rebuild	November 1, 2009	June 30, 2010			
See attached timeline for further detail.					
Attachment Index:					
 Capital Project Request (CPR) Form, including a Timeline of Project (detailed) 	II attachments	pg. 3 pg. 4-7			

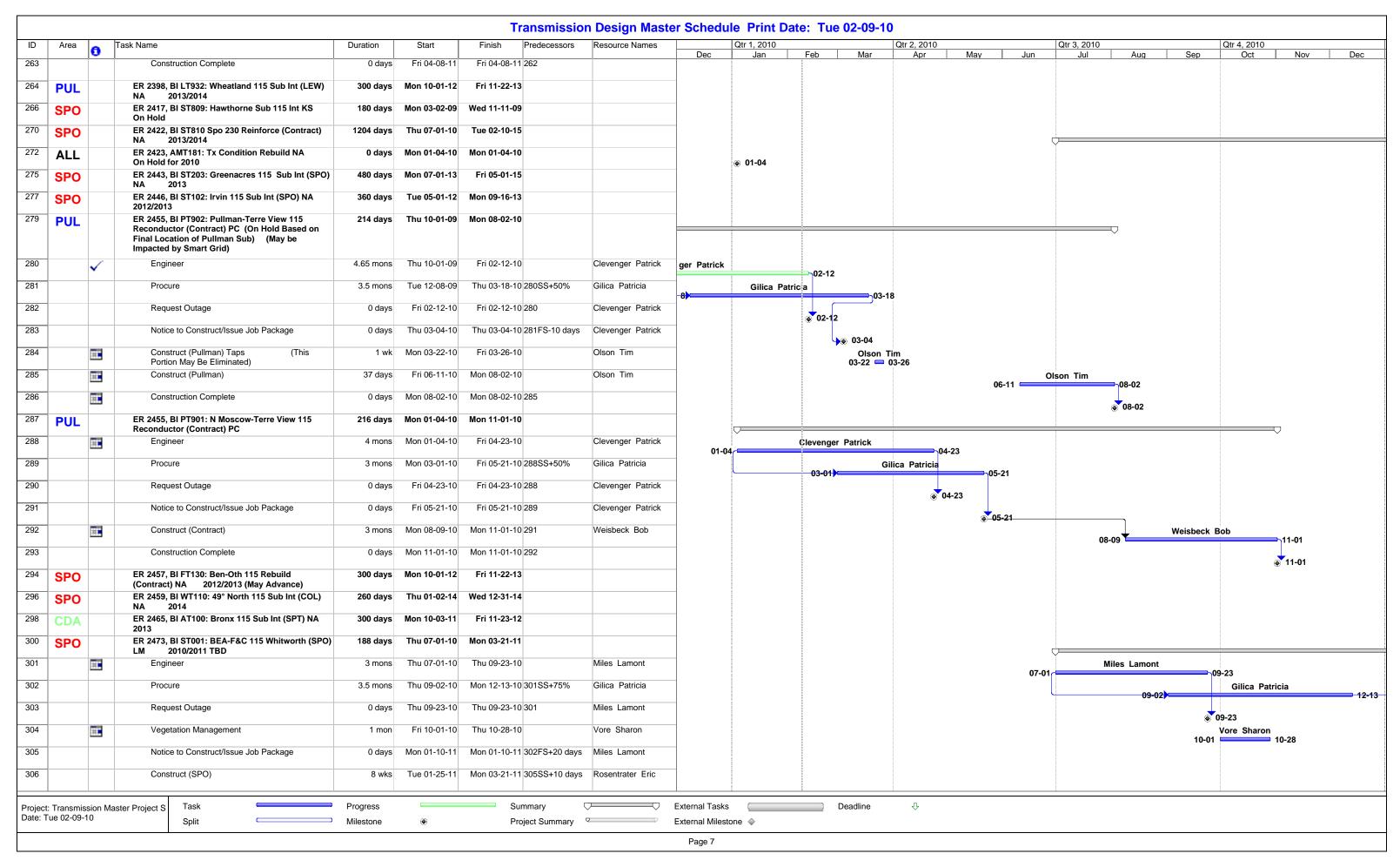
Design Scoping Document and Engineering Estimate

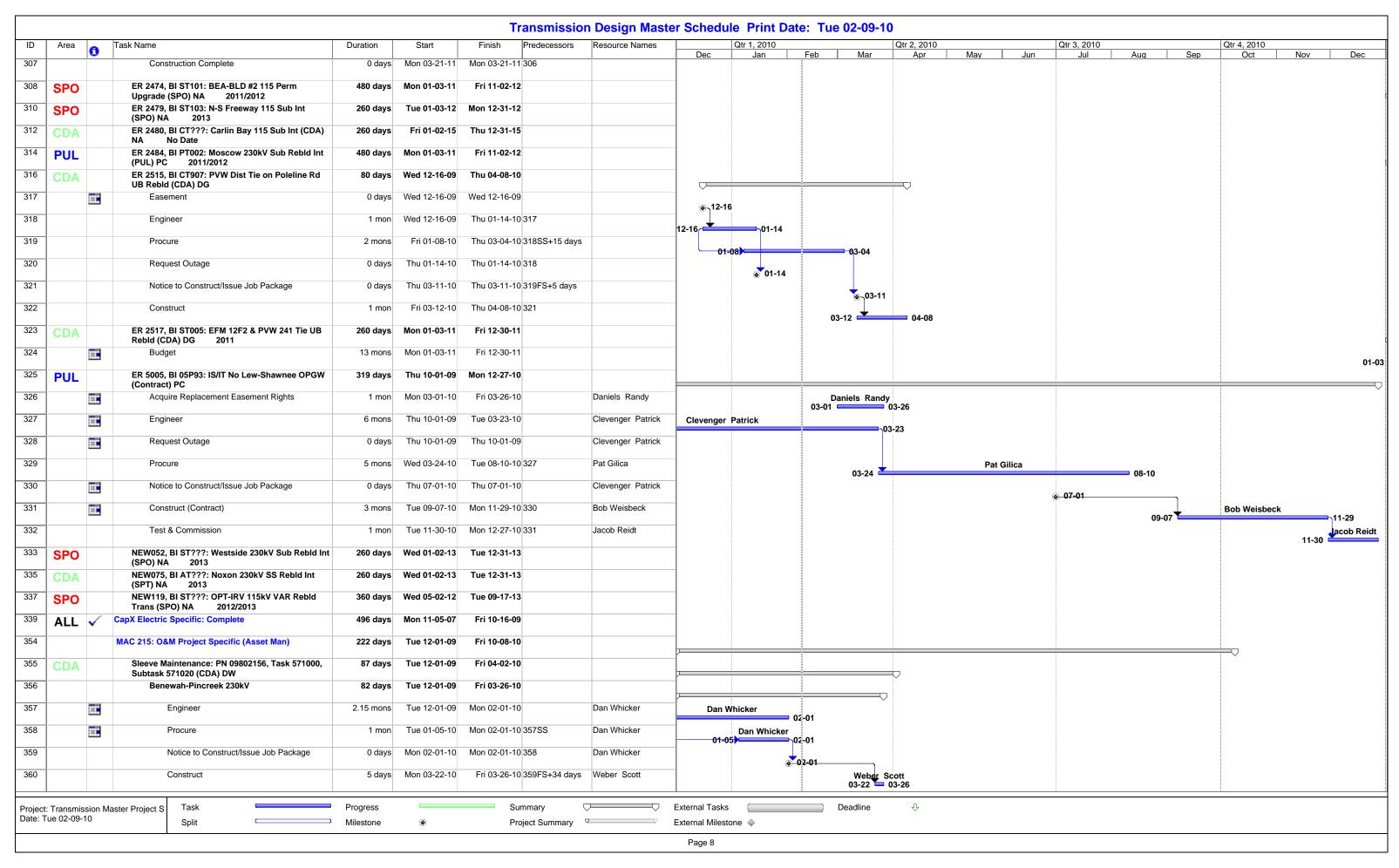
Note:

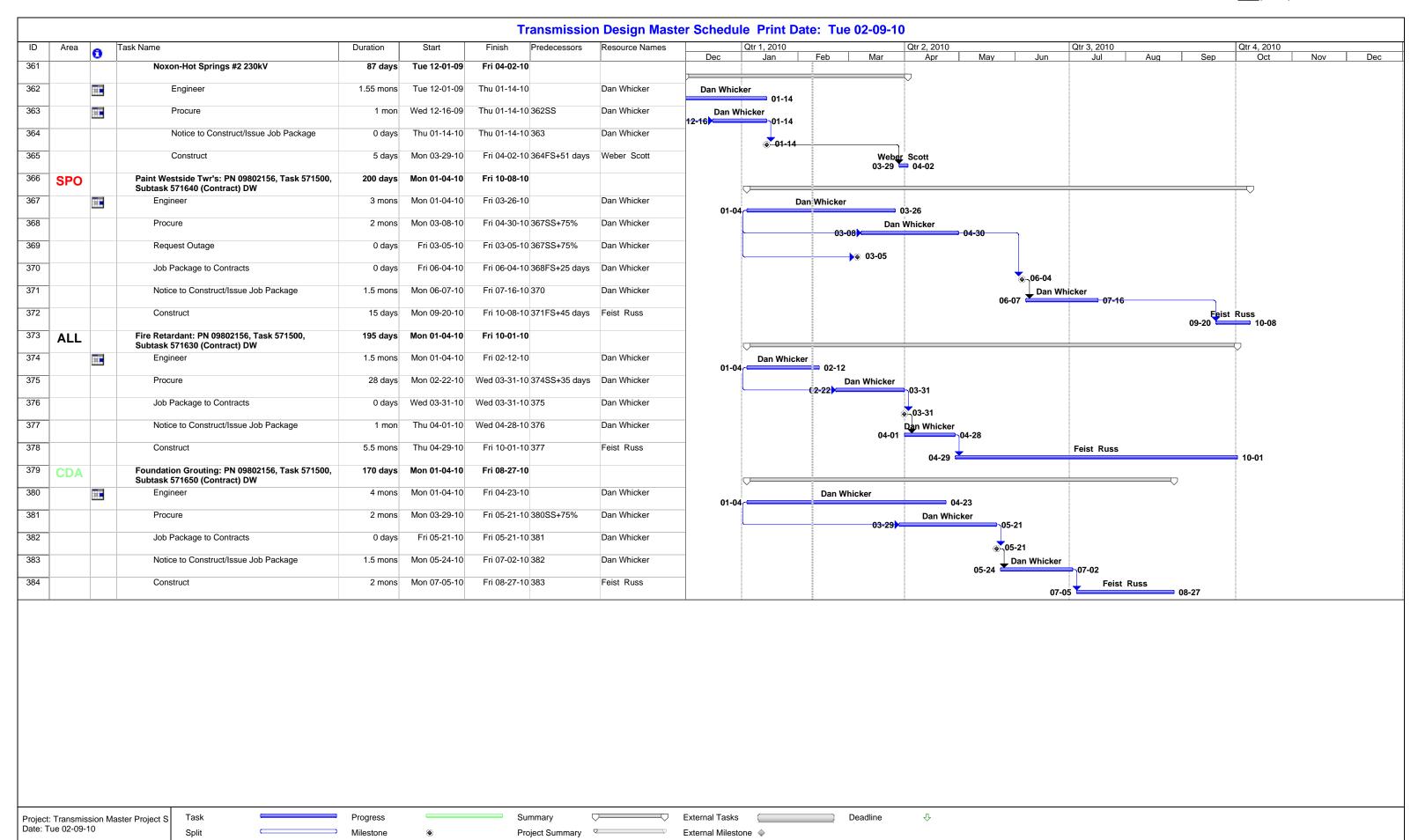
During the course of Avista's pending general rate case, updated information will be available for audit.

			CAPITAL PROJECT REQUEST FORM		Request Type	Project(s)
	Corp	Use Tab Key		(CPR)	New	29905077
ER	Budget Category	Service Code	Project Title	(30 Characters)	Project Title Count	
2310	5-Maintenance	ED-Electric Direct	Arwy Hts-Slvr Lk F	Reconductor	28	
Long Project Name (100 Characters)					'Parent' Code
Airway Heights-S	ilver Lake 115kV Re	econductor				
Approved Budget	Will This Project	Long Project Name Count	ER Sponsor	BI Number	WMS Job#	Rate Jurisdiction
X	Include	44	L08	ST805	111110 300 #	AN-Allocated North
	Retirement of	Revenue Type			Loc	ation
Dilling	Materials or	NA- Not Applicable				kv line WA
Billing	Equipment? Yes		Billing Contact		Project	Start Date
	Tes				l	11-01-2009
A 2.5 mile portion of Planning. This seg	of the Airway Heights- ment of the line is cur	ecessity - 240 Characters) Silver Lake 115kV line will be reconduct rently "2/0 ACSR" which only carries a e increase in sag for the new conductor	48 MVA rating, as or	Vest Plains 115kV reinforcement project in oposed to the rest of the line which carries tures, this project calls for a full rebuild.	dentified by System a 100 MVA rating.	Froject Description Count 474
	(CONSTRUCTION		Budget Authorized:		\$754,000
Office Use only	FERC	Estimated Amount	As Built Amount			
Task	зххххх	By FERC Number	By FERC Number	Office Use Only		
	300100	\$26,000		Project Set Up By		Date
****	355000	\$410,000		Approved By	- MARKE HEAVILLE	Date
· · · · · · · · · · · · · · · · · · ·	356000	\$274,000				
					ROVALS	
.00.100.00.00				SIGNATURE		DATE
USS ADDITIONS	D. FEDC (2VVVV	\$710,000		Signature		
Cost of Removal	355000	T'		-		
	356000	\$30,000		Print Name	Ken Sweigart	
	330000	\$14,000		Signature		
				Print Name	Rick Vermeers	
***************************************				Signature	Trick verificers	
	Total Removal	\$44,000				
Salvage By FER	C (3XXXXX)	, , , , , , , , , , , , , , , , , , , ,		Print Name	Don Kopczynski	
				Signature		
				Print Name	Scott Morris	
	Total Salvage			Signature		
Total Removal Lo	ess Salvage	\$44,000				
				Print Name		l .
	ork Breakdown St	ructure Needed (Optional)				
Peer Task				Project Contact & Extension	Lamont Miles	(x 2033)
					ATURE(S) REQUIR	ED
Cub Tools				To \$99,999 - Director		
Sub Task				\$100,000-\$499,999 - VP or GM Utility		
				\$500,000-\$2,999,999 - Sr Vice President/CFC		
				\$3,000,000-\$9,999,999 - President/CEO/COO		
			· · · · · · · · · · · · · · · · · · ·	Over \$10,000,000 - Board Chair		
				Out-of-Budget - Capital Budget Committee		
			/			
Date Prepared:				THE PROJECT SPONSOR IS RESPONSIBLE FOR		
-ate i repared.	L			IMMEDIATELY UPON COMPLETION OF WORK, S		
AL COST OF PRO	DJECT	\$754,000		COMPLETE AS BUILT INFO AND FORWARD TO U	JILITY ACCOUNTING.	
3001 OF TRO		φ1 04,000		Date Work Completed		
	Questions: contact	Project and Fixed Asset Accounting		Foreman/		
		4472 or Howard ext-2936)		Supervisor		









Page 9

DESIGN SCOPING DOCUMENT

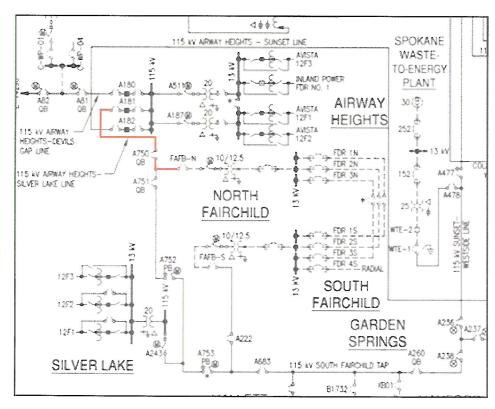
AIRWAY HEIGHTS-SILVER LAKE 115 KV RECONDUCTOR PROJECT AIRWAY HEIGHTS-N. FAIRCHILD PORTION

PROJECT DESCRIPTION:

The Airway Heights-Silver Lake 115kV line is part of a 115kV loop around the West Plains area. The System Planning department has identified the need to reinforce the West Plains 115kV system by upgrading the lines in the area to a 100 MVA capacity. The last 8.5 miles of the Airway Heights-Silver line toward Silver Lake were constructed single-pole style in 2007 with 556 AAC conductor, carrying the desired 100 MVA capacity rating. However, the first 2.5 miles from Airway Heights were constructed H-frame style in 1942 with #2/0 ACSR conductor, carrying only a 48 MVA rating.

Due to the age of the line, and the increase in sag for the new conductor compared to the existing, this project calls for a full rebuild. The existing wood H-frame structures and wire will be removed and new steel H-frame structures and wire will be installed. All structures will remain within the existing alignment of the line. Due to the difficulty in guying for a tension difference at the tap structure, the new wire will be carried five spans further to the North Fairchild Substation itself.

SYSTEM CONFIGURATION:



DSD AIR-SLK Reconductor.docx

Created: 11/09/2009 Last Modified: 11/09/2009

PROJECT COST ESTIMATE (Engineering Estimate):

<u>Item 1 (Rebuild of 2.5 mile Single Circuit 115kV Transmission Line):</u>

1. Materials:	(26) Standard H-Frame Structures @ \$6k each: Conductor (2.5 miles 556AAC @ \$60k/mile):	\$156,000 \$150,000
	Line Material @ \$2k per structure:	\$ 52,000
	Span Guys and Down Guys	\$ 1,000
2. Construction:	Site Preparation:	\$ 10,000
	Traffic Control:	\$ 10,000
	Restoration:	\$ 10,000
3. Construction Laboration	or: Structures, (17) days @ \$5k per:	\$ 85,000
	Removals, (7) days @ \$5k per:	\$ 35,000
	Span Guys and Down Guys, (0.6) days @ \$5k per:	\$ 3,000
	Stringing, (6) days @ \$5k per:	\$ 30,000
	Clipping, (2) days @ \$5k per:	\$ 10,000
	(subtotal)	\$552,000
TOTAL (Material an	d Construction):	\$552,000
TOTAL (Engineering	g):	\$ 20,000
TOTAL (Crossing Pe	ermits):	\$ 8,000
TOTAL (Taxes, A&C	G, and PM): @ 30%	\$174,000
	FEM 1 (+/- 20% Engineering Estimate):	\$754,000*

^{*} Procurement and Construction costs include overheads and taxes

Created: 11/09/2009 Last Modified: 11/09/2009

ER No.: 2455

ER Name: Mos230-Pullman 115 Reconductor

Pro Forma Amount: \$1,300,000

Expended to date: \$14,685

2010 Transfer to Plant Date: December 31, 2010

Project Description:

This project will provide additional capacity to support continued growth in the Moscow and Pullman areas of Idaho and Washington. The existing transmission line is constructed with #1/0 copper conductor from structure 5/4A (North Moscow Substation) to structure 11/7 (Pullman Substation) and is the last phase of the transmission line between Moscow 230kV Substation and Shawnee 115kV substation to be upgraded to 556 ACSR "Parakeet" conductor.

The work will include replacing some wood poles and associated cross arms, cross braces, insulators, and guy/anchors as necessary along the 6.1 miles of transmission line required to accommodate the larger 556 ACSR conductor.

The line upgrade will meet compliance requirements associated with NERC Standards: TOP-004-2 R1-R4, TPL-002-0a R1-R3, TPL-003-0a R1-R3. The transmission line estimating process uses a baseline per mile costs derived from industry averages (see attached Feasibility Cost Chart for further detail). This number is increased based on consideration of project variables including, but not limited to, project location, soil conditions, construction timing, commodity prices, overhead rates, etc. A parallel estimate is also developed based on the engineer's/designer's best judgment of what it will take to complete the project using the line items established in the Engineer Design Scoping Document (DSD: see attached for further details). These two approaches are reconciled with review of the department manager. An additional estimate check is made when the project uses the TL-Pro design software package. This program contains an estimating function based on variables provided by the user.

Steel poles and cross arms are specified for their life-cycle cost advantages.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. Using 2009 actual loads, the new conductor will reduce line losses by 151 MWH on an annual basis, establishing a yearly offset savings of \$15,100 (based on a \$100/MWH avoided energy cost), which has been pro formed in the case.

Timeline:Start DateEnd DateBI PT902: Pullman – Terre View 115 ReconductorOctober 1, 2009August 2, 2010BI PT901: N. Moscow – Terre View 115 ReconductorJanuary 4, 2010November 1, 2010

See attached timeline for further detail.

Attachment Index:

•	Capital Project Request (CPR) Forms	pg. 3-5
•	Design Scoping Document (DSD)	pg. 6-7
•	Timeline of Project (detailed)	pg. 8

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

_	Exhibit No	(SJK-4),	Schedule 8	3	
Request		est Type	st Type PROJE		
			7.990	505	

JUS1		CAPITAL PRO	UJECI KEQUE	STFORM	Request Type	, Schedule 8 PROJECT
	Corp.					2990505
ER 2455	Budget Cat 5	SERVICE CODE ED	PROJECT T Mos 230/115-Pullma	TTLE (30 CHARS)	Project Chars	LOCATION
		PRO	JECT DESCRIPTION (250	CHARS)		299
Provide engineer	ring to recondu	ctor 115kV transmissic Subsi	on line from 1/0 Coppe tation in Pullman, Was	r to 556 AAC between	eem Structures 12/4	to Pullman 115kV
PROVED BUDGET		Description Chars Count	ORGANIZATION L08	B/I NUMBER PT091	WMS (Y OR N)	RATE JURISDICTIC
BILLING		Dave James	BILLING CONTACT		PROJECT START DAT	
econductoring the	e vvasnington p	support to modify and portion of Moscow 230, ving 1/0 Copper condu	/115kV - Pullman 115k uctor. Reconductoring as the remainder of the	/4 to the Pullman 1 (V transmission line with 556 AAC will e line.	15kV Substation for e. This section is one bring the line rated	
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	-			Rick Vermeers		
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				Randy Cloward		
				Tandy Cloward		
T SALVAGE			*	Project Contact	Pat Clevenger (210)	9)
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				Date Work Compl	eted	
'L COST OF PROJ	IECT	\$294,000		Foreman/		



CAPITAL PROJECT REQUEST FORM

Request Type

	Corp.		•			39905042R
ER	Budget Cat	SERVICE CODE	PROJECT TI	TLE (30 CHARS)	Project Chars	LOCATION
2455	5		Mos 230/115-Pullma		31	399
		PROJE	ECT DESCRIPTION (250 (CHARS)		
Provide enginee	ering, planning, de	esign, scheduling, mate	erials, and constructio	n to reconductor 1	115kV transmission lin	e from 1/0 Coppe
			en Structures 5/4A to			
APPROVED BUDGET	T T	Description Chars Count	ORGANIZATION	B/I NUMBER	WMS (Y OR N)	RATE JURISDICTION
			L08	PT901	N N	AN
BILLING	- 1		BILLING CONTACT		PROJECT START DATI	=
BILLING		Ken Sweigart	5,22,110 001111101			11/1/2009
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Doto Branars -!	10/29/2009	٦		FURWARD 10 F	PLANT ACCOUNTING.	
Date Prepared:	10/29/2009	_		Date Work Con	anloted	
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TOTAL COST OF PR	RO IECT	\$810,700		Supervisor		
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CAPITAL PROJECT REQUEST FORM

Request Type	PROJECT
	2990 0530
 Project Chars	LOCATION

					. toqueet type	29900530
	Corp. Budget Cat	SERVICE CODE	DDO IFOT TI	TLE (30 CHARS)	5-1-761	
ER 2455	5 Budget Cat		Mos 230/115-Pullma		Project Chars 31	LOCATION 299
	ı <u> </u>		ECT DESCRIPTION (250 C		STREET STREET STREET STREET	, 200
Provide engine	ering to reconduc	tor the Moscow - Shav		sion line from 1/0	Copper to 556 AAC b	etween Structure
APPROVED BUDGET		Description Chars Count	ORGANIZATION L08	B/I NUMBER PT902	WMS (Y OR N)	RATE JURISDICTION AN
BILLING		Ken Sweigart	BILLING CONTACT		PROJECT START DAT	E 1/8/2010
Washington port	ion of Moscow 23	support to modify and r 30/115kV - Pullman 11 ctor. Reconductoring	5kV transmission line.	to structure 11/7. This section is or	for reconductoring the	•
CONSTRUCTIO	N		T	Total Constru	ction Cost	\$630,600
CONSTRUCTIO	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT	Total Collstiu	CHOIT GUSL	φοσο,ουο
	3XXXXX	BY FERC NUMBER	BY FERC NUMBER	NOT R	EQUIRED	
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				Rick Vermeer	s Ort More	1/11/10
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				Scott Morris		
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		 			HIS WORK ORDER.	
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					LANT ACCOUNTING.	
Date Prepared	0/231/8/2010/200	F				
		ב		Date Work Com	pleted	
				Foreman/	1	
TOTAL COST OF PE	ROJECT	\$630,600		Supervisor		
					A	

DESIGN SCOPING DOCUMENT

Revised 1/8/2010

NORTH MOSCOW - TERRE VIEW 115kV TRANSMISSION RECONDUCTOR

PROJECT DESCRIPTION (BASE OPTION):

Provide engineering, planning, design, scheduling, and construction documents to reconductor existing North Moscow – Terre View 115kV transmission line.

This project will provide additional capacity due to continued growth in the Moscow and Pullman areas of Idaho and Washington. The transmission line has 1/0 copper conductor from structure 5/4A to structure 11/7 and is the last phase of the transmission line between Moscow 230kV Substation and Shawnee 115kV substation to be upgrade to 556 ACSR conductor.

The work will include replacing some wood poles and associated crossarms, crossbraces, insulators, and guy/anchors as necessary along 6.1 miles of transmission line as a result of reconductoring with 556 ACSR "Parakeet" conductor. The design originally included potential make ready work for distribution underbuild and future optical fiber above the conductor space but has been removed as a result of recent discussions with the Pullman Airport Authority resulting in a revision to the Design Scoping Document. The Pullman Airport is expected to expand in the next few years, but the design is still very preliminary and they have no budget. Consequently, investing additional funds for possible future underbuild and optical fiber is prohibitive and can be included in the relocation when the airport expands.

Three primary areas will not be included in this work for various reasons. The Moscow 230kV Substation to structure 2/2, structure 3/6 to structure 3/20, Structures 11/8 to structure 11/13, and from the Pullman 115kV Substation to Shawnee 115kV Substation. These are the only portions of the Moscow 230 Substation to Shawnee 115kV transmission line, along with the portion mentioned above are not ready for future fiber cable and distribution underbuild. A Design Scoping Document (DSD) for the section from Pullman sub to Shawnee sub has been written and the remaining sections are financially prohibitive until fiber is required on this line.

CENERAL RESPONSIBILITIES.

		~
GENERAL RESPONSIBILITIES:		\$ 207L IN 2009 (NOT IN PLANT)
ER: BI:	2455 PT902	年75 ~ 株100 k In 2010 (NOT IN PLANT) CPR = #284k
Project Number:		39405042
Engineering Task Number:	300100	\$ 530k in 2009 (ENTERED NUTO PLANT)
Construction Installation Number:	107300	\$ 280K IN ZOIC (NOT IN PLANT)
Project Coordinator:	Ken Sweigart	
Line/Structural Designer:	Pat Clevenger	OPR =#810 k
System Operations:	Rich Hydzik/Gart	h Brandon
Right-of-Way (Customer Contacts):	Randy Daniels	29900580
Vegetation Management:	Sharon Vore	Comment of the Commen
Environmental Permitting:	N/A	# 631 k In 2010 (NOT IN PLANT)

DSD: North Moscow - Terre View 115kV Reconductor .doc

Created: 10/26/2009 Last Modified: 10/26/2009 PLANT FOR 2010 & \$1,225,000 EST SPEND 2010 & \$1,010,000 BUDGET 2010 = \$1,300,000

Pullman Airport Tim Olson
Distribution Design: Dave James
Line Construction: Ray Peterson
Inspection: N/A

PROJECT SCHEDULE:

Line Design*	November, 2009
Acquire Replacement Easement Rights	December, 2009
Procure Line Materials	May 2010
Vegetation Management	2010
Issue Job Package	July, 2010
Receive Line Materials	August, 2010
Line Construction	September, 2010
Scheduled In-Service Date	October, 2010

PROJECT COST ESTIMATE:

 Right-of Way: Materials: 	Acquisition of Easement or Equivalent Rights: (26) Steel Direct Embed and Line Hardware @ \$5k each:	\$ 15,000 \$130,000
	(12) Structure Hardware @ 2k ea: Miscellaneous	\$ 24,000 \$ 15,000
	556 ACSR "Parakeet" Conductor – 105500' @ \$1.16/ft.	\$125,000
3. Construction:	Site Preparation:	\$ 10,000
	Construction Facilities & Material:	\$ 15,000
	Traffic Control:	\$ 25,000
	Restoration:	\$ 30,000
	Removal - (5) days @ 5k/day:	\$ 25,000
4. Construction Laboration	or: Foundations, (30) days @ \$5k per:	\$150,000
	Structures, (15) days @ \$5k per:	\$ 75,000
	Stringing, (10) days @ \$5k per:	\$ 50,000
	(Subtotal)	\$ 689,000
TOTAL (Material an	d Construction):	\$ 689,000
TOTAL (Engineering	<u>y</u>):	\$ 34,500
TOTAL (Taxes, A&C	G, and PM): @ 30%	\$206,000
TOTAL COST OF IT	TEM 3A (+/- 30% Engineering Estimate):	\$929,500**

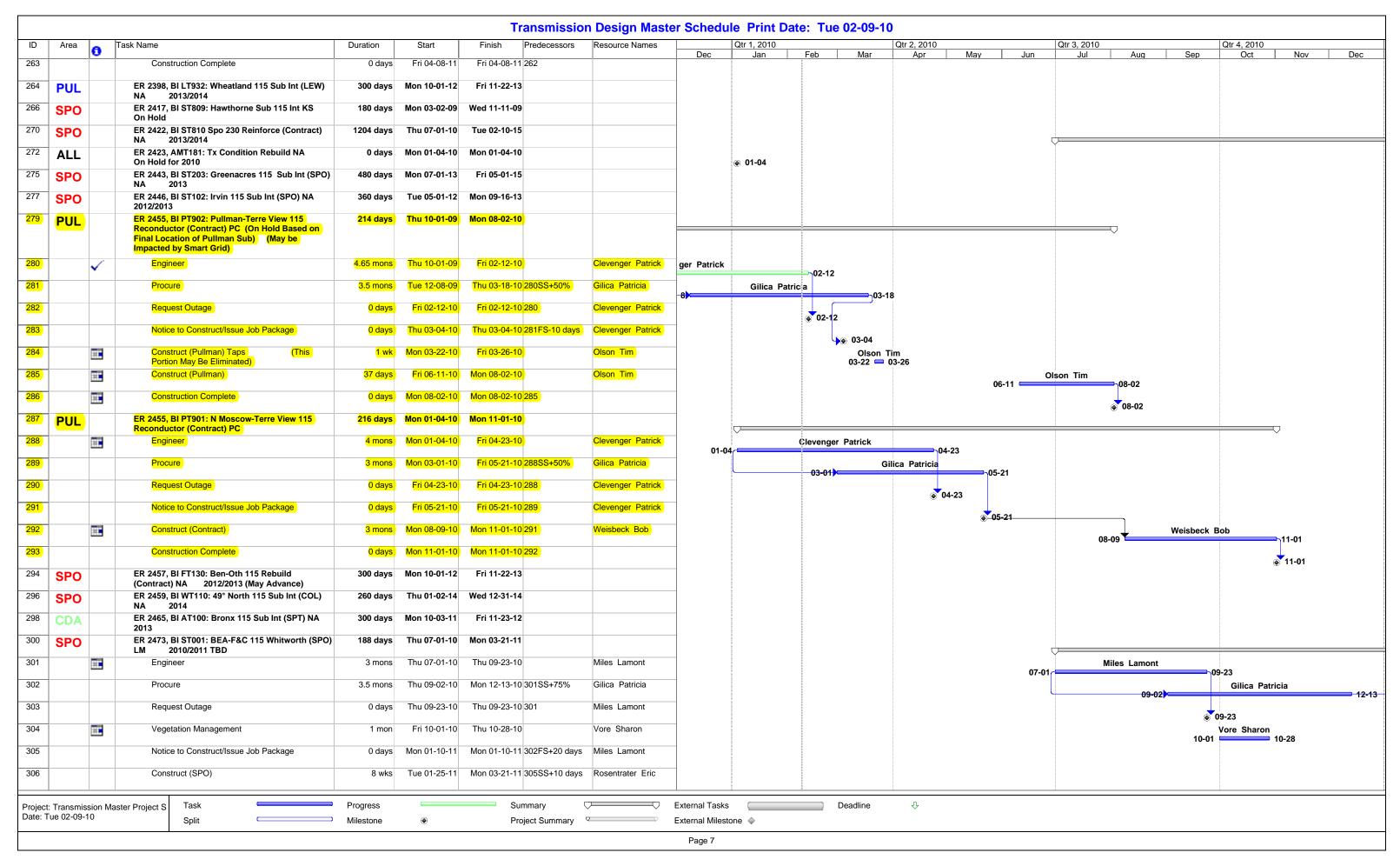
^{*} Actual design start date based on budget approval

^{**} Procurement and Construction costs include overheads and taxes

IDAHO COST ESTIMATE @ 25% TOTAL COST	\$280,000
WASHINGTON COST ESTIMATE @ 75% TOTAL COST	\$649,500

DSD: North Moscow - Terre View 115kV Reconductor .doc

Created: 10/26/2009 Last Modified: 10/26/2009



ER No.: 2273

ER Name: Environmental Regulations Projects: Beacon Storage Yard

Pro Forma Amount: \$750,000

Expended to date: \$16,010

2010 Transfer to Plant Date: June 2010

Project Description:

Beacon Storage Yard (\$0.750 million): The Beacon Storage Yard is a location where circuit breakers and power transformers are stored and staged for rotation into existing substations as replacements or for new construction. This site is near the Spokane River and this project work will provide an oil containment system to protect the local environment. In 2009, the Company constructed the bulk of the Beacon Substation Equipment Storage Yard for a total cost of \$948,000. In 2010, the remainder of the yard and a building to securely house the mobile substations and battery trailer will be completed and transferred to plant. There are no offsets for this project because it is required to eliminate environmental contamination.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

This project will complete the overall Beacon Storage Yard expansion. The plan is for this project to be completed in June 2010.

Additional Information:

•	Costs	pg. 2
•	Capital Project Request (CPR) Forms, including all attachments	pg. 3-5
•	Scope of Work detail	pg. 6-12

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

Beacon Storage/Containment Yard

Phase 2 Budget Estimates (2010)

	Description	Estimated \$\$
1	Mobile Sub storage building (60'x60')	\$200,000.00
2	Foundation for Mobile Sub Building	\$35,000.00
3	Electrical for Mobile Sub Building	\$10,000.00
4	Card Control Gate - Into Pole Yard	\$30,000.00
5	650' of 7' privacy fence along Upriver and Havana	\$20,000.00
6	395' of 7' privacy fence from gate to substationon Havana	\$12,000.00
7	1210' of 6' reclaimed fence fabric btwn yards	\$14,500.00
	Moving Equipment out of Pole Yard	\$75,000.00
8	Bollards @ Monitoring Well	\$500.00
9	Demolition of old pole bunks	\$35,000.00
_ 10	Re-gravel Yard (1,400 ton)	\$50,000.00
11	Grade and Smooth Yard	\$35,000.00
12		
13	10.5'x20' CXT Building - Inspector's shack	\$31,500.00
14		
15	additional contaiment for bushings and regs	\$50,000.00
16		

Total \$598,500.00

					0 //	27/10
Alvi.		0.4				
		CA Suseriab Key	PITAL PROJECT I	REQUEST FORM (CPR)	/ Request Type	Project(s) 02804423
ER /	Budget Category	Service Code	<u> </u>	Project Title (30 Characters)	Project Title Count A	02004120
2273	5-Maintenance		Beaco	n Storage Yard Oil Containment	7 - Co	
Long Project Na	me (100 Characters	- -	orage Yard Oil Conta	ainment Storage Area	Sel Mio XX	"Parent"Code
	tuelet e : :	leading the state of the state			1/21/1/1/	BEA10A
Approved Budget	Will This Project Include	Elong Project Name Count	ER Sponsor M08	Bl Number SS765	WMS Job#	Rate Jurisdiction WA-Washington
	Retirement of Materials or	Revenue Type Select			U 2% Location 998-Common	Waling Sections
Billing	Equipment?	4411 34 45 - 249 O G G G G G G G G G G G G G G G G G G	Billing Co	entact	Project Start 1/1/2009	
D	# 1,0 A.J. 14 S. 16 Sep. 1			1.	1	
Project Descript		se and Necessity - 240 Character pand Beacon storage yard and		ment for storage of spare oil filled equipment.		
Beacon is 300		kane River and project is need	ed to comply with Fe	deral environmental requirements as well as	State and Local environmental	
1	*** THIS F			09 and be completed in 2010. STS FOR THE REMAINDER OF THE PROJE	СТ ***	
	 	CONSTRUCTION		Budget Authorized:		\$1,800,000
Office Use only	FERC	Estimated Amount	As Built Amount			
Task	3XXXXX	By FERC Number	By FERC Number		<u>y</u>	Date
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			/	SIGNATURE		DATE
GROSS ADDITI		\$1,800,000		Signature		
Cost of Remov	al By FERC (3XX)	XXX)		Print Name Aaron Henso		1/18/2010
				Signature 1 O c	0	1/16/2010
				Mashent a. N	raguel	1/18/10
				Print Name Mike Magruo		
	Total Removal			Signature Gui Mun	~	1-21-10
Salvage By FEF				Print Name Rick Vermee		
				Signature // - www		
	·			Print Name Don Kopczyr	-14 .	
	Total Salvage			Print Name Don Kopczyr Signature () ()	nski /	, ,
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A-150-1-22				To \$99,999 Director		
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		1472 or Howard ext-2936)	_	Foreman/		
			Ł	Supervisor		



Page 1

WWP 133 (RWW 1-96)

REVISED AUTHORITY FOR EXPENDITURE

spare equipment must be stored containing insulating oil. The oil-filled spares are stored at Beacon

WORK ORDER

AUTHORITY FOR EXPENDITURE	7365 r
ER MAC WORK ORDER TITLE (19 CHARS) 0765 BEAC ST YD-OIL CONT	LOCATION 98
EXPANDED WORK ORDER TITLE (44 CHARS) BEACON STORAGE YD: BUILD OIL CONT STORAGE AREA	
APPROVED BUDGET ER SPONSOR B/I SPONSOR B/I NUMBER WU NUMBER X ITEM M08 F08 SS765	USER INFO
BILLING BILLING CONTACT	
DESCRIPTION (INCLUDE PURPOSE AND NECESSITY) Construct a storage area for oil-filled spare equipment that inculdes an oil containment system.	
In the normal operation of our electrical business, we maintain some spare equipment. Some of this	

This Is a REVISED AFE.

Substation, which is within 300 yards of the Spokane River.

FINANCE DEPARTMENT GENERAL ACCOUNTING SECTION

CONSTR	UCTION			Total Construction Cost (Budget Lin	e 7)
ŴORK	U/MAIN/	RESPONSIBILITY CENTERS	AMOUNT		615,000
ORDER	SUB			NOT REQUIRED	
87365	030010	M08,N08,E14,F08,X08,P07	50,000		
7365	039010	E07,E14,F08,L08,M08	565,000		
				THIS AFE	615,000
i . ∀				TOTAL TO DATE	
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			1 1	APPROVALS	
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spa			·	Bon Little 24.	12-20-01
Od. Na				Ron Little	12-20-07
		REMOVAL			-
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<u>20</u> - <u>v</u> v.				Refer Questions	
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7:				Date Prepared:	Ext.
		<u> </u>		12/20/01	4890
		RETIREMENT			
		BREAKERS IN PLANT		THE BUDGET ITEM SPONSOR IS RESPONSIBLE	
		TRANSFORMERS OR REG'S		FOR CLOSING THIS WORK ORDER.	
OPERATI	ON. MAINTE	ENANCE OR SUSPENSE			
्रतः *		<i>V</i>		IMMEDIATELY UPON COMPLETION OF WORK,	
				SIGN THIS FORM AND FORWARD TO PLANT	
				ACCOUNTING.	
<u> </u>				Date Work Completed	
		TOTAL O&M OR SUSPENSE		Foreman/	
5000		TOTAL COST OF PROJECT	615,000	Supervisor	



Page 1

WWP	133 (RWW	1-96

REVISED **AUTHORITY FOR EXPENDITURE**

WORK ORDER ~ 7365 r

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ER 0765	М	AC	WORK ORDER T BEAC ST Y	ITLE (19 CHARS) D-OIL CONT		LOCATION 98
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1	APPROVED BUDGET TEM	ER SPONSOR M08	B/I SPONSOR F08	B/I NUMBER SS765	WU NUMBER	USER INFO
E	BILLING	BILLIN	G CONTACT			

DESCRIPTION (INCLUDE PURPOSE AND NECESSITY)

Construct a storage area for oil-filled spare equipment that inculdes an oil containment system.

In the normal operation of our electrical business, we maintain some spare equipment. Some of this spare equipment must be stored containing insulating oil. The oil-filled spares are stored at Beacon Substation, which is within 300 yards of the Spokane River.

FINANCE DEPARTMENT GENERAL ACCOUNTING SECTION This is a REVISED AFE.

615,000

CONSTRUCTION WORK U/MAIN/ RESPONSIBILITY CENTERS AMOUNT ORDER SUB 87365 030010 50.000 M08,N08,E14,F08,X08,P07

Total Construction Cost	(Budget Line 7)
	615,000
NOT REQUIRED	
BUDGET AUTHORIZATION	
PREVIOUSLY APPROVED:	
THIS AFE.	615,000
TOTAL TO DATE	
BALANCE NOT APPROVED	

U4:000	030010	19106,1908,E 14,F08,A06,F07	30,000
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TOTAL O&M OR SUSPENSE

TOTAL COST OF PROJECT

APPROVALS	
SIGNATURE	DATE
Mike Nissley	12/20101
Ron Little &.	12-20-01

Ref€	· · · · · · · · · · · · · · · · · ·	
	Project total of ~ Firm was	
	transferred to plant in .	Ext.
	December 2009. Remaining work	990
	includes completion of URD	
	electrical service for cabinet	
		•
SIG! ACC	heaters, security fencing, some grading and gravelling, and a	
Deta	new secure storage building for	
Fore	new secure storage building for the mobile subs and battery trailer.	
Supr	- Mike M x4187	

SCOPE OF WORK

Beacon Storage-Containment Yard / Replace Security Fence C-2801

This job consists of furnishing labor, materials, and equipment (fully operated and maintained) to replace the existing six foot (6') fence with new perimeter seven foot (7') chain link fence; furnishing and installing one (1) new twenty foot (20') motor operated slide gate; replacing existing six foot (6') high, twenty foot (20') slide gate with seven foot (7') high twenty foot (20') gate, furnishing and installing two four foot (4') walk gates; and furnishing and installing one (1) section of wood isolation fence; and installing and internal six foot (6') fence using the reclaimed fabric from the existing fence at Avista's Beacon Storage Yard located at 4323 E. Upriver Drive, Spokane, WA.

SPECIAL CONDITIONS:

- SC-1 The new 20 foot sliding drive gate <u>must</u> be able to interface with Avista's standard access card reader system. Security system is contracted with Allied Security (Eric Ostlund 624-3152 is the contact person).
- SC-2 Contractor shall furnish and install privacy fence fabric with "Privacy Link" privacy slats. Fabric shall be manufactured by Privacy Link or approved equal. If Contractor proposes to use an alternate material, he should submit an "Alternate Proposal" and detail the material and the cost. This Alternate will be evaluated by Owner.
- SC-3 The sliding drive gate shall be made of galvanized fencing fabric **NOT** privacy fabric.
- SC-4 Avista will furnish and install all gate locks and signs.
- SC-5 The security of the yard <u>must</u> be maintained throughout the job. Integrity of the fence must be maintained when Contractor is not onsite.
- SC-6 Contractor will be working adjacent to energized transmission and distribution lines and must maintain a 25 foot minimum clearance from all lines and observe all other safety rules and procedures.
- SC-7 The bottom of the fence fabric shall not be more than two inches (2") above rough grade.
- SC-8 Welding hinges to gate post will <u>not</u> be acceptable.
- SC-9 A portion of fence fabric that is to be removed and has been designated as "salvage" fabric for Owner, shall be rolled up and put it in an area designated by Owner's Representative.

-2- Beacon Storage-Containment Yard / Replace Security Fence

C-2801

- SC-10 Contractor shall remove and legally dispose of the fence posts, rails and concrete footings, as well as the fencing fabric that is designated as fabric to be legally disposed.
- SC-11 Contractor shall maintain its equipment so that no leakage or spillage of fluids occurs. The Contractor shall remove from the site any equipment violating this requirement. The Contractor shall submit a Spill Prevention Program for Owner's review.
- SC-12 Contractor must have a spill clean-up kit onsite at all times to clean up any spill that occurs immediately.
- SC-13 Contractor shall provide any compressed air, chemical toilets, and potable water as required for the duration of the Work.
- SC-14 Contractor shall coordinate all Work with the Owner through the Owner's Representative on the job.

SPECIFICATIONS:

Specification S 1172-09 Security Fence dated January, 2010. Construction Practice: 4.6.2 Wood Isolation Section

CONTRACTOR RESPONSIBILITY:

Contractor shall provide workmen who are skilled and specialized in the Work to which they are assigned for this project.

It will be the Contractor's responsibility to make a thorough inspection of the Work Site(s) and/or equipment to be repaired before submitting a bid. The condition of the Work Site(s) and/or equipment shall be accepted "as found" and the Contractor shall include any associated preparation Work needed in his bid.

The Contractor shall be responsible to field verify all elevations and dimensions shown in the Drawings prior to the performance of the Work.

Right-of-Way to the Work area has been obtained by the Owner. Any additional right-of-way to and from the Work Site across property shall be obtained by the Contractor who shall be responsible for meeting all requirements of the property owner. Damage to property that is not part of the Owner's agreement will be chargeable to the Contractor and will be deducted from the retention unless previously settled between Contractor and property owner per C-14 of the General Conditions.

-3- Beacon Storage-Containment Yard / Replace Security Fence

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All necessary permits shall be obtained by the Contractor except for those listed under Owner Responsibility. Contractor shall be responsible to meet all conditions of the Fence Permit acquired by Owner.

It will be the responsibility of the Contractor to locate and safeguard all underground facilities in the area such as gas, water, electric, telephone, sewer, drain lines, etc. Any repair or expense incurred from damage to these facilities will be chargeable to the Contractor.

It will be the responsibility of the Contractor to legally dispose of all non-salvageable material and miscellaneous debris from the project by direction of the Owner's Representative on the job.

The Contractor shall assign such forces and prosecute the Work in such a manner as to assure compliance with the approved Schedule.

Public safety consideration is vitally important and it shall be the Contractor's responsibility to place signs warning pedestrians and vehicular traffic of danger. When necessary, the signs may be supplemented by flagpersons to direct traffic or by roping off particularly dangerous jobs. It shall be the Contractor's responsibility to insure public safety by meeting all state and local safety rules and regulations.

Contractor warrants and agrees that wages and benefits paid by the Contractor to its employees for Work done in performance of this contract shall be equal to that required under any Collective Bargaining Agreement covering his employees or shall be substantially equal to or higher than the value of wages and benefits paid by the Owner to its employees who would perform the Work if done by the Owner.

CULTURAL/HISTORICAL COMPLIANCE

Contractor shall perform all Work by or under the supervision of Contractor in strict compliance with Avista Corporation's Cultural Resources Protocol, attached to this Agreement as Exhibit CRP, and in compliance with all applicable Federal, state and tribal laws, ordinances and regulations concerning the protection of human remains, sacred sites, cultural resources, and historical resources, including, without limitation the Federal Power Act, the National Historic Preservation Act, the American Indian Religious Freedom Act, the Native American Graves Protection and Repatriation Act, the Archaeological Resources Protection Act, and Executive Order 13007 which relates to sacred sites.

Violation of the protocol could result in contract termination or criminal or civil penalties. Sites which contain Artifacts or human remains are protected by law and public release of information about these sites can lead to damage or vandalism to the sites.

-4- Beacon Storage-Containment Yard /
Replace Security Fence

C-2801

SUBCONTRACTORS:

Contractor shall not assign nor subcontract any portion of the Work to be performed under this Agreement without first securing the written consent of the Owner as provided in Sections C-19 and C-25 of the General Conditions.

A copy of the executed subcontract shall be forwarded to the Owner no more than five (5) days from the date the subcontract is executed.

INSURANCE:

Before Contractor commences Work on this project, a Certificate of Insurance with associated Endorsement verifying (1.) that the Contractor has insurance to the following limits, and (2.) Avista Corporation is named as additional insured on ISO form A, must be on file in Avista Corporation's Purchasing Department.

- a. Worker's Compensation and Employer's Liability Insurance in accordance with applicable laws relating thereto.
- b. Commercial/Comprehensive General Liability Insurance on an occurrence basis with a combined (may include Umbrella Excess coverage) single limit of not less than \$2,000,000.
- c. Commercial/Comprehensive Automobile Liability Insurance with a combined limit of not less than \$2,000,000 (may include Umbrella Excess coverage) or equivalent for both injury and property damages, per occurrence-including coverage for owned, hired and non-owned automobiles.

OWNER RESPONSIBILITY:

To furnish 830 feet of six foot (6') security fencing fabric. Acquire Fence permits from Spokane County.

CONTRACT:

The Contractor shall submit his bid proposal on the Owner's proposal forms provided in the bid package. Alterations to the Proposal shall invalidate the Contractor's bid. Qualified bids or alternates shall be submitted on a separate transmittal form.

The Contractor understands and agrees to the terms and conditions of the General Conditions, Proposal and Scope of Work as included in the bid package. Any alterations or exceptions to these documents must be included with your bid proposal. No alterations or exceptions will be considered after the Work has been awarded.

-5- Beacon Storage-Containment Yard / Replace Security Fence

C-2801

All quantities in the bid Proposal are estimated and these units may vary. Extra Work Orders will be written only if the Work completed in the field does not coincide with the specific items in the bid Proposal. A negotiated price reduction/increase will be used when a portion of an item is deleted/added in a "lump sum" item.

The Work will not be considered complete and a 10% retention of the total Contract Price will be withheld until all clean-up has been completed and accepted by the Owner's Representative on the job and all damage claims have been satisfied, if applicable.

SUBMITTALS:

- A. Submittals required with Bid Proposal:
 - 1. Copy of Contractor's Safety Questionnaire (form supplied by Owner)
 - 2. Proposed sub-contractors (if any)
 - 3. Proposed schedule
 - 4. Name and phone number of foreman on project.
- B. Submittals by successful Contractor at Pre-Job Conference:
 - 1. Written Project Schedule. This schedule shall show the approximate time frame and projected construction dates proposed by the Contractor for the different phases of the job. These job phases shall be broken down into units not exceeding two weeks for any one function in any one place.
 - 2. OSHA Material Safety Data sheets on the products to be used.
 - 3. Certificate of Insurance with associated Endorsement adding Avista Corporation as Additional Insured (ISO form A).
 - 4. Site Specific Safety Plan

These Submittals must be received by the Owner before the Contractor shall be eligible for any progress payments.

PRE-JOB CONFERENCE:

Upon awarding of this contract, a Pre-Job Conference will be scheduled with Avista Corporation's Generation and Production Department. At this time, the successful Contractor shall present all Submittals described in the Scope of Work. Also at this meeting, job requirements; specifications; qualified bids; phone number and address of responsible agent(s) in charge; and any irregularities or questions regarding this Work should be discussed.

-6- Beacon Storage-Containment Yard / Replace Security Fence

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BILLING:

Invoices shall be submitted to the attention of Tammie Miller at Avista Corporation's Generation and Production Department, P. O. Box 3727, MSC-51, Spokane, Washington 99220 for payment.

The following items refer to the bid proposal:

Item No. 1 (Remove Existing Fence):

This item includes removing and salvaging 830 linear feet of the existing six foot (6') open weave fabric; removing and legally disposing of 1,100 linear feet of existing six foot (6') rustake slatted fabric; as well as the posts and foundations. Yard security <u>must</u> be maintained at all times.

Contractor shall legally dispose of the fence posts, rails and concrete footings. The removed salvageable fence fabric shall be rolled up and put it in an area designated by Owner's Representative.

Item No. 2 (Furnish and Install Bracing, Tension Wire, Etc., and Install Owner Furnished Fabric):

This item includes installing approximately 1,211 linear feet of Owner furnished six foot (6') open weave chain link fence fabric as well as furnishing and installing bracing, top and bottom tension wire, line posts set in concrete on ten foot (10') centers, and corner posts, all set in concrete. Please refer to drawing E-35683.

Item No. 3 (Furnish & Install New Perimeter Fencing With Privacy Fabric):

This item includes furnishing and installing 1,072 linear feet of seven foot (7') security fence with Privacy Link privacy fabric beige in color (to match existing 7 foot (7') fence), per Avista Specification S 1172-09; bracing, pipe top rail, line posts set in concrete on eight foot (8') centers, and corner posts, all set in concrete, with three (3) strands of barb wire on outward leaning extensions. Please refer to drawing E-35683 and Specification S 1172-09.

Item No. 4 (Furnish & Install Drive Gates):

This item includes furnishing and installing one (1) seven foot (7') high, 20 foot motorized slide gate with open weave two inch (2") mesh fabric complete with all necessary fittings, and latches, and three (3) strands of barbed wire on top complete and ready for service.

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Beacon Storage-Containment Yard / Replace Security Fence

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This item also includes replacing the existing six foot (6') high 20 foot motorized slide gate with a seven foot (7') high, 20 foot motorized slide gate with open two inch (2") mesh fabric complete with all necessary fittings, latches, and three (3) strands of barbed wire on top complete and ready for service.

Item No. 5 (Furnish and Install Walk Gates):

This item includes furnishing and installing one (1) 4 ft x 6'-8" walk gate in the seven foot (7') perimeter fence with privacy slats in the color beige, complete with all necessary fittings, hinges and latches and three (3) strands of galvanized barbed wire on top complete and ready for service. A hold open keeper is **not** required.

This item also includes furnishing and installing one (1) 4 ft x 5'-8" walk gate in the six foot (6') interior fence complete with all necessary fittings, hinges and latches complete and ready for service. A hold open keeper is **not** required.

Item No. 6 (Furnish & Install New Wood Isolation Panels):

This item includes furnishing and installing an eight foot (8') wide wood isolation fence panel between new fence and existing substation fence per the drawing E-35683 and the Construction Practice 4.6.2.

Item No. 7 (Clean-up of Site):

This item includes the clean-up, removal and legal disposal of all Contractor generated debris.

/tjm G&P 3**-**3-10

Project / Task No.: 02804423 / 107610

ER No.: 2214

ER Name: Contractual Required Projects: Colstrip Transmission

Pro Forma Amount: \$503,000

Expended to date: \$34,988 paid by Avista to Northwestern

2010 Transfer to Plant Date: Monthly throughout 2010

Project Description:

Contractual Required Projects:

The Colstrip Transmission System (CTS) covers 494.5 circuit miles of 500 kV transmission between Colstrip and Townsend. The CTS system also includes the Colstrip and Broadview 500 kV substations. The system is operated and maintained by NorthWestern. Northwestern either performs or contracts out the capital work associated with the joint owned facilities. Avista, NorthWestern, Portland General Electric, PacifiCorp, and Puget Sound Energy each have an ownership share of the facilities and are parties to the Colstrip Transmission Agreement which, among other provisions, obligates the joint owners to fund necessary capital improvements for the CTS. Capital additions for 2010 and 2011 include 500 kV circuit breaker replacements at the Colstrip and Broadview switching stations. 2010 is the third year of a seven-year project to replace all of the 500 kV breakers. The original breakers are at or reaching the end of their useful lives and are considered obsolete. Also, a new communication path between Colstrip and Broadview will be constructed in 2010 and 2011 in conjunction with the replacement of an obsolete electromechanical relay system. Other 2010 and 2011 capital work includes Raptor Protection Mitigation on the Broadview-Townsend #1 & #2 lines, 500 kV breaker failure relay upgrades at Broadview and Colstrip, ATR (Colstrip Acceleration Trend Relay) Engineering/Development for necessary software and hardware upgrades, and ongoing network security upgrades so we can be compliant with NERC CIP standards. There are no offsets or savings to incorporate for this project. The work being done is due to Obsolescence. As a partner in the project we are bound to pay for capital outlays for the benefit of the project.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

All of these projects will be completed by 12/31/2010.

Additional Information:

• These are all done by invoice:

•	500 kV plan Spreadsheet attached	pg. 3
•	2010 500 kV Capital Budget Item Explanation prepared by Northwestern	pg. 4-7
•	Colstrip Project Transmission Agreement	pg. 8-131

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

<u>500 kV 5-Year Budget (2010-2014) - AVISTA</u> (\$000)

Capital Expenditures	2009B	2010	2011	2012	2013	2014	TOTAL
500 kV Broadview Relay Upgrades	4	2	-	-			7
500 kV Colstrip Relay Upgrades	5	3	-	-	-	-	8
500 kV Broadview Breaker Replacements	55	56	60	63	66	-	301
500 kV Colstrip Breaker Replacements	64	66	71	74	78	164	517
500 kV Unidentified Tools and Equipment	-	1	1	1	1	1	7
500 kV Broadview Breaker Failure Relay Upgrade/Replacement	-	3	3	3	3	-	13
500 kV Colstrip Breaker Failure Relay Upgrade/Replacement	-	4	4	4	4	7	22
500 kV Col-Bdv "B" Line Series Cap Fiber Optic Transceiver Replacement	-	6	-	-	-	-	6
500 kV Broadview Series Cap Control System Replacement	-	5	-	-	-	-	5
500 kV Colstrip Generator Relay Replacement Carryover	-	3	-	-	-	-	3
500 kV ATR Engineering/Development	48	48	32	32	32	32	222
500 kV Bdv-Tnsd 1 & 2 Lines Raptor Protection Mitigation	-	5	5	5	5	5	27
500 kV Routine CapEX	26	-			-	-	26
500 kV Arrester Replacements	8	_	_	_	_	_	8
500 kV Substation CapEX	23	_			_	-	23
500 kV Line CapEX	11						11
500 kV Communications Air Conditioner Replacements	- 11	2	2	2	2	2	11
500 kV Communications Air Conditioner Replacements	-	8	8	8	8	8	38
500 kV Communications DC Charger Replacements 500 kV Communications Generator Transfer Panel Replacement	-	3	3	3	3	3	13
500 kV Communications Generator Transfer Paner Replacement 500 kV Communications Col-Bdv OPGW Installation	-	255	345	<u>ა</u>	3	3	600
	244			405	202	222	
otal Capital Expenditures	244	471	533	195	202	222	1,867
nevations and Maintenance	1 2000B	2040	2044	2042	2042	2044	TOTAL
perations and Maintenance C19 Colstrip Substation	2009B 24	2010 25	2011 26	2012 27	2013 28	2014 29	TOTAL 157
C20 500kV Col-Brd Lines		37			32		188
	27		29	30	32	33	100
	40	40	40	40	4.4	4.4	70
C21 Broadview Substation	12	12	13	13	14	14	
C22 Broadview Auto TX's	1	1	1	1	1	1	6
C22 Broadview Auto TX's C23 Col-Brd Line Comp	1 6	1 7	1 7	1 7	1 7	1 8	6 42
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp	1 6 1	1 7 1	1 7 1	1 7 1	1 7 1	1 8 1	6 42 6
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines	1 6 1 42	1 7 1 42	1 7 1 45	1 7 1 47	1 7 1 49	1 8 1 51	6 42 6 276
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip	1 6 1 42 0	1 7 1 42 0	1 7 1 45 0	1 7 1 47 0	1 7 1 49 0	1 8 1 51	6 42 6 276
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint	1 6 1 42 0 17	1 7 1 42 0 7	1 7 1 45 0 19	1 7 1 47 0 19	1 7 1 49 0 20	1 8 1 51 0 21	42 6 276 1
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint C28 SOCC Union Labor	1 6 1 42 0 17 21	1 7 1 42 0 7 25	1 7 1 45 0 19 22	1 7 1 47 0 19 23	1 7 1 49 0 20 24	1 8 1 51 0 21 25	42 6 276 1 102
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint C28 SOCC Union Labor C29 NonUnion Labor	1 6 1 42 0 17 21 35	1 7 1 42 0 7 25 40	1 7 1 45 0 19 22 38	1 7 1 47 0 19 23 39	1 7 1 49 0 20 24 41	1 8 1 51 0 21 25 42	6 42 6 276 1 102 140 235
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint C28 SOCC Union Labor C29 NonUnion Labor C32 ATR Studies	1 6 1 42 0 17 21 35	1 7 1 42 0 7 25 40	1 7 1 45 0 19 22 38	1 7 1 47 0 19 23 39	1 7 1 49 0 20 24 41	1 8 1 51 0 21 25 42	642 66276 1 102 140 235
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C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint C28 SOCC Union Labor C29 NonUnion Labor C32 ATR Studies C33 BPA Line Comp Charge Counterpoise Replacement B Line	1 6 1 42 0 17 21 35 10 88	1 7 1 42 0 7 25 40 10 88	1 7 1 45 0 19 22 38 10 88	1 7 1 47 0 19 23 39	1 7 1 49 0 20 24 41	1 8 1 51 0 21 25 42 12 88	64 42 66 276 1 102 140 235 64 527
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint C28 SOCC Union Labor C29 NonUnion Labor C32 ATR Studies C33 BPA Line Comp Charge Counterpoise Replacement B Line Shield Wire Deadends A & B Lines	1 6 1 42 0 17 21 35 10	1 7 1 42 0 7 25 40 10 88	1 7 1 45 0 19 22 38 10 88	1 7 1 47 0 19 23 39	1 7 1 49 0 20 24 41	1 8 1 51 0 21 25 42	64 276 276 1 102 140 235 64 527
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint C28 SOCC Union Labor C29 NonUnion Labor C32 ATR Studies C33 BPA Line Comp Charge Counterpoise Replacement B Line Shield Wire Deadends 1 & 2 Lines	1 6 1 42 0 17 21 35 10 88 8	1 7 1 42 0 7 25 40 10 88 8	1 7 1 45 0 19 22 38 10 88	1 7 1 47 0 19 23 39	1 7 1 49 0 20 24 41 11 88	1 8 1 51 0 21 25 42 12 88	64 276 276 1 102 140 235 64 527 16
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C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint C28 SOCC Union Labor C29 NonUnion Labor C32 ATR Studies C33 BPA Line Comp Charge Counterpoise Replacement B Line Shield Wire Deadends 1 & 2 Lines Anode Replacement 1 & 2 Lines	1 6 1 42 0 17 21 35 10 88 8 -	1 7 1 42 0 7 25 40 10 88 8 11	1 7 1 45 0 19 22 38 10 88 -	1 7 1 47 0 19 23 39	1 7 1 49 0 20 24 41 11 88 -	1 8 1 51 0 21 25 42 12 88 -	66 42 66 276 1 102 140 235 64 527 16 11 12 66 12
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint C28 SOCC Union Labor C29 NonUnion Labor C32 ATR Studies C33 BPA Line Comp Charge Counterpoise Replacement B Line Shield Wire Deadends A & B Lines Shield Wire Deadends 1 & 2 Lines Anode Replacement A & B Lines Spacer Replacement A & B Lines Spacer Replacement A & B Lines Spacer Replacement A & B Lines	1 6 1 42 0 17 21 35 10 88 8	1 7 1 42 0 7 25 40 10 88 8	1 7 1 45 0 19 22 38 10 88 -	1 7 1 47 0 19 23 39	1 7 1 49 0 20 24 41 11 88 -	1 8 1 51 0 21 25 42 12 88 -	66 42 66 276 1 102 140 235 64 527 16 11 12 66 12
C22 Broadview Auto TX's C23 Col-Brd Line Comp C24 Brd-Gar Line Comp C25 500kV Brd-Gar Lines C26 Gar BPA Equip C27SOCC & Comp Maint C28 SOCC Union Labor C29 NonUnion Labor C32 ATR Studies C33 BPA Line Comp Charge Counterpoise Replacement B Line Shield Wire Deadends A & B Lines Shield Wire Deadends 1 & 2 Lines Anode Replacement A & B Lines Spacer Replacement A & B Lines	1 6 1 42 0 17 21 35 10 88 8 -	1 7 1 42 0 7 25 40 10 88 8 11	1 7 1 45 0 19 22 38 10 88 - - 12 - 5 163	1 7 1 47 0 19 23 39	1 7 1 49 0 20 24 41 11 88 -	1 8 1 51 0 21 25 42 12 88 -	66 42 66 276 1 102 140 235 64 527 16 11 12 66 12 163
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Note: 2009 dollars no inflation adjustment

500kV 2010 CAPITAL BUDGET

Listed below is a description of what is included in each of the 2010 500kV Capital budget line items.

Unidentified Tools & Equipment – To buy new and/or replacement tools in excess of \$1500 so that O&M can be performed on the 500kV system. Replacements are necessary on a continuing basis due to breakage, excessive wear, loss, etc.

500kV Breaker Repl. 500-7 @ **Colstrip** – This is a continuation of the 500kV breaker replacement program that was started in 2008. The original breakers are at or reaching the end of their useful lives and are considered obsolete. Repair and replacement parts are extremely difficult to locate and in many cases do not exist. This is year 3 of a 7 year program.

500kV Breaker Repl. 500-14 @ **Bvw** -- This is a continuation of the 500kV breaker replacement program that was started in 2008. The original breakers are at or reaching the end of their useful lives and are considered obsolete. Repair and replacement parts are extremely difficult to locate and in many cases do not exist. This is year 3 of a 7 year program.

"B" Line Series Cap Fiber Optic Transceiver Repl. @ Bvw – To replace both the existing fiber columns and the transceivers which are obsolete and continuously troublesome. The fiber columns have already been purchased and will be installed as a part of this project. Replacement parts are difficult to locate and there is a risk of being unable to operate the series capacitors due to equipment failure. (This same work has already been accomplished on the "A" line in previous years).

Series Cap Control System Repl. @ Bvw – The existing control system is outdated and is using non-standard equipment, is difficult to test and has a very confusing control scheme. While there are primary and secondary controllers, the scheme requires that both controllers sense the appropriate current level to insert the cap banks. If one controller fails the cap banks cannot be automatically inserted. This item will replace the existing control scheme with one that will simplify the control scheme and the ability to test. The new scheme would make the primary and secondary controllers truly redundant and would allow one or the other to be tested. This new controller scheme would control both series cap banks at Broadview. If the series caps are ever replaced or upgraded, this new control scheme would work on the new cap banks as well.

500kV Breaker **500-7** @ Colstrip Failure Relaying Repl -- The existing 500kV breaker protection/reclosing relays at Colstrip are the original equipment installed when the 500kV system was built. They are now considered obsolete and have become increasingly problematic. The present breaker protection system is complex, has undergone miscellaneous modifications over time which has created confusing circuits and drawings. This hampers testing and troubleshooting. This item will replace the old protection system on the new 500kV breaker that we are replacing in 2010 (500-7 at Colstrip). This new protection system will be installed while the breaker is already out of service. This would be an ongoing project that goes hand in hand with the 500kV breaker replacement project over the next several years.

500kV Breaker 500-14 @ **Bvw Failure Relaying Repl** -- The existing 500kV breaker protection/reclosing relays at Broadview are the original equipment installed when the 500kV system was built. They are now considered obsolete and have become increasingly problematic. The present breaker protection system is complex, has undergone miscellaneous modifications over time which has created confusing circuits and drawings. This hampers testing and troubleshooting. This item will replace the old protection system on the new 500kV breaker that we are replacing in 2010 (500-14 at Broadview). This new protection system will be installed while the breaker is already out of service. This would be an ongoing project that goes hand in hand with the 500kV breaker replacement project over the next several years.

Colstrip Generator Relay Repl (Carryover) -- The vendor supplied relay control system for the station power backup generator is obsolete and problematic. In January 2007, the generator control system at Colstrip caused a complete loss of station power and subsequent 500kV yard outage resulting in a loss of the 500kV system and Colstrip generation. Replacement of this system was budgeted in 2009 and is presently being worked on. The final installation of the new system may not be completed until 2010, these budget dollars are to fund the c/o work.

500kV Relay Upgrade @ **Colstrip (Carryover)** -- One of the existing relay protection systems on the Colstrip-Broadview lines are the electromechanical GE SYLP-SLCN relays and they communicate via power line carrier. These relays are becoming obsolete and GE does not support these relays with spare parts. Fully redundant relay systems are required on these lines, one set has already been upgraded and the 2nd set needs to be upgraded. Replacement of this system was budgeted in 2009 and is presently being worked on. The final installation of the new system needs to be in conjunction with a new geographically diverse communications path. The 1st phase of a new communications path is budgeted for 2010, and this item will provide the funds for connection of the new relay system at Colstrip to the new communications path.

500kV Relay Upgrade @ **Bvw** (**Carryover**) -- One of the existing relay protection systems on the Colstrip-Broadview lines are the electromechanical GE SYLP-SLCN relays and they communicate via power line carrier. These relays are becoming obsolete and GE does not support these relays with spare parts. Fully redundant relay systems are required on these lines, one set has already been upgraded and the 2nd set needs to be upgraded. Replacement of this system was budgeted in 2009 and is presently being worked on. The final installation of the new system needs to be in conjunction with a new geographically diverse communications path. The 1st phase of a new communications path is budgeted for 2010, and this item will provide the funds for connection of the new relay system at Broadview to the new communications path.

ATR Engineering/Development -- The platform the ATR runs on needs to be upgraded every 5 years. Computer technology gets obsolete in a fairly short time and we need to be sure the ATR will be reliable and repairable. The solution is to update the ATR platform on a programmed basis (every 5 years), this plan has been approved by the Partners. This item will fund a platform upgrade to the ATR including new hard drives, servers, software, labor, contractor costs, etc. This will also fund ongoing network security upgrades so we can be compliant with the CIP standards.

Raptor Protection Mitigation Bvw-Tnsd #1 & #2 -- Eagle mute streamers cause roughly 80% of the faults that occur each year on the 500kV lines. Eagles feed in the evening, roost on the tower arms at night and in the early morning when they fly, they let loose a long stream of mute which causes a fault on the line. We have had some success installing tower flooring on the structures in the line sections where there have been a concentration of faults. The flooring deflects the mute, keeps it off of the insulators and eliminates the fault. This budget item will fund the flooring installation of 20 structures.

Communications Air Conditioner Repl. -- Air conditioners at the 500kV communications sites are at the end of their useful lives and need to be replaced. We have an ongoing program of replacing the older air conditioners at the 500kV communications sites. This budget item continues that program.

Communications DC Charger Repl. -- DC chargers at the 500kv communications sites are at the end of their useful lives, are beginning to fail and need to be replaced. We have an ongoing program of replacing the older DC chargers at the 500kV communications sites. This budget item continues that program.

Communications Generator Transfer Panel Repl. -- Failures in the contacts of the communications building generator transfer panels have begin to occur. We have an ongoing program of replacing 4 of the transfer panels each year at the 500kV communications sites. This budget item continues that program.

Communications Bvw-Colstrip OPGW Installation -- One of the existing relay protection systems on the Colstrip-Broadview lines are the electromechanical GE SYLP-SLCN relays and they communicate via power line carrier. These relays have been replaced but the new relays cannot communicate via the power line carrier that the SYLP-SLCN's now use. A new geographically diverse communications route between Broadview and Colstrip is needed. This item will install OPGW on the NWE 230kV system between Broadview and Colstrip. OPGW would be installed on the NWE poles subject to the NWE pole attachment policy. The 500kV partners would own the fiber and be responsible for its O&M. This option is the most economical of the other options that were considered. This budget item would fund the 1st phase of this new communications path. This will be a 2 year project.

THE MONTANA POWER COMPANY

AND

PUGET SOUND POWER & LIGHT COMPANY

AND

THE WASHINGTON WATER POWER COMPANY

AND

PORTLAND GENERAL ELECTRIC COMPANY

AND

PACIFIC POWER & LIGHT COMPANY

COLSTRIP PROJECT TRANSMISSION AGREEMENT

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COLSTRIP PROJECT TRANSMISSION AGREEMENT

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COLSTRIP PROJECT TRANSMISSION AGREEMENT

THIS AGREEMENT is made as of the 6th day of May , 1981, by and between THE MONTANA POWER COMPANY, a Montana corporation ("Montana") and PUGET SOUND POWER & LIGHT COMPANY, a Washington corporation ("Puget") and THE WASHINGTON WATER POWER COMPANY, a Washington corporation ("Water Power") and PORTLAND GENERAL ELECTRIC COMPANY, an Oregon corporation ("Portland") and PACIFIC POWER & LIGHT COMPANY, a Maine corporation ("Pacific") and BASIN ELECTRIC POWER COOPERATIVE, a North Dakota cooperative corporation ("Basin Electric"):

WITNESSETH:

WHEREAS, the parties desire to establish terms and conditions relating to their ownership, as tenants in common, and the planning, financing, acquisition, construction, operation and maintenance of the 500 kV transmission system, and related facilities, that will interconnect the Colstrip Units #3 and #4 Steam Electric Generating Project and the Colstrip Units #1 and #2 Steam Electric Generating Project ("Colstrip Units #1 and #2") to Montana's Transmission System and to Bonneville Power Administration's ("BPA") transmission system near Townsend, Montana.

NOW, THEREFORE, for and in consideration of the mutual covenants and agreements herein stated and the performance thereof, all as hereinafter set forth, the parties hereto mutually agree as follows:

Relation to Other Agreements and Term

This Agreement is one of the Project Agreements ("Project Agreements"), as that term is defined in Section 1 of the Ownership and Operation Agreement, Colstrip Units #3 and #4 ("Ownership Agreement").

2. Definitions

- (a) "Costs of Transmission System Construction" shall have the meaning set forth in Section 14 hereof.
- (b) "Costs of Transmission System Operation" shall have the meaning set forth in Section 17 hereof.
- (c) "Integrated System Capacity" means the capacity of the Transmission System and Montana's Transmission System as an integrated system.
- (d) "Montana/Puget" means Montana and Puget and shall include their successors and assigns of an ownership interest in Colstrip Units #1 and #2 or any part thereof.

- (e) "Montana's Transmisson System" means all or any portion of transmission facilities owned by Montana, its successors or assigns, and all other transmission facilities within Montana's load control area other than the Transmission System.
- (f) "Person" means any individual, partnership, corporation, trust, joint venture, or unincorporated organization.
- (g) "Project" shall have the meaning set forth in Section 1(n) of the Ownership Agreement.
- (h) "Project Share" shall have the meaning set forth in Section 2(b) of the Ownership Agreement.
- (i) "Prudent Utility Practice" at any particular time means either any of the practices, methods and acts engaged in or approved by a significant portion of the electrical utility industry prior thereto or any of the practices, methods or acts, which, in the exercise of reasonable judgment in the light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at the lowest reasonable cost consistent with reliability, safety and expedition. Prudent Utility Practice shall apply not only to functional parts of the Transmission System, but also to appropriate structures, landscaping, painting, signs, lighting, other facilities and public relations programs, including recreational facilities, and any other programs or facilities, reasonably designed to promote public enjoyment, understanding and acceptance of the Transmission System. Prudent Utility Practice is not intended to be limited to the optimum practice, method or act, to the exclusion of all others, but rather to be a spectrum of possible practices, methods or acts. Prudent Utility Practice shall also include those practices, methods and acts that are required by applicable laws and final orders or regulations of regulatory agencies having jurisdiction.
- (j) "Requirements Capacity" means capacity in the Transmission System for each Owner as follows:

Colstrip-to-Broadview Segment ("C-B Segment"), as described in Exhibits A and B hereto:

Montana 790.6 MW Water Power 214.3 MW Puget 719.1 MW Pacific 142.8 MW Portland 285.7 MW Basin Electric 107.5 MW

Broadview-to-Townsend Segment ("B-T Segment"), as described in Exhibits A and B hereto:

Montana 435.8 MW Water Power 217.9 MW Puget 731.3 MW Pacific 145.2 MW Portland 290.5 MW Basin Electric 109.3 MW

(k) "Requirements Share" means, for each Transmission Owner with respect to the C-B Segment or the B-T Segment as the case may be, a fraction the numerator of which is such Transmission Owner's Requirements Capacity in such Segment and the denominator of which is the sum of all Transmission Owners' Requirements Capacity in such Segment.

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- (1) "Segment" means the C-B Segment or the B-T Segment, interchangeably as the context may require.
- (m) "Transmission Committee" means the Committee provided for in Section 22 hereof.
- (n) "Transmission Operator" means the operator appointed under Section 4 hereof.
- (o) "Transmission Owners" means Montana, Puget, Water Power, Portland, Pacific and Basin Electric and shall include their successors and assigns of an ownership interest in the Transmission System or any part thereof.
- (p) "Transmission System" means the facilities described in Exhibit "A" hereto and related facilities, real property and property rights (including, but not limited to, the real property as described in Exhibit "B" hereto).
- (q) "Transmission System Capacity" means that portion of the Integrated System Capacity allocated to the Transmission System pursuant to Section 8(b).
- (r) "Transmission System Capital Additions" means additions, betterments, and replacements to the Transmission System that are necessary to assure design reliability for Requirements Capacity or that are required by governmental agencies or that are necessary to transmit generation from Colstrip Units #1 and #2 and the Project.
- (s) "Transmission System Capital Retirements" means physical elements of the Transmission System removed from service or use with the intent that the items so removed will not be placed back into service.
- (t) "Transmission System Construction" means all activities necessary for planning, engineering, acquisition and erection of the Transmission System and of Transmission System Capital Additions and Transmission System Elective Capital Additions.
- (u) "Transmission System Elective Capital Additions" means additions, betterments, and replacements to the Transmission System that are not Transmission System Capital Additions.
- (v) "Transmission System Surplus Capacity" means the capacity of the Transmission System that is excess to Requirements Capacity, determined in accordance with Section 7(c).

3. Ownership of the Transmission System

Subject to the terms and conditions hereinafter set forth, ownership of the Transmission System shall be as follows:

- (a) The Transmission System shall be owned by the Transmission Owners as tenants in common, with each Transmission Owner's respective undivided interest ("Transmission Ownership Percentage") being based on the proportion that each Transmission Owner's payment of Costs of Transmission System Construction bears to the total payments made by all Transmission Owners pursuant to Sections 16(c), 16(e), 16(f) and 16(g).
- (b) Each Transmission Owner shall promptly take all action (including, but not limited to, obtaining all requisite authorizations) necessary for participation by such Transmission Owner in the ownership, construction, operation and maintenance of the Transmission System. Each Transmission Owner shall promptly take such action (including, but not limited to, the execution, acknowledgment, delivery and recordation of instruments of conveyance and for releases of security interests) as may reasonably be requested by any other Transmission Owner to effect, evidence or vest each Transmission Owner's respective interests in the Transmission System.
- (c) Each Transmission Owner may at any time assign one or more representatives to the Transmission System. Such representatives shall remain the employees of their respective employers and may keep their employers advised concerning matters involving the Transmission System. The salary and related costs of the representatives shall be an expense of each respective employer. The Transmission Operator shall not direct the work of or in any fashion utilize such representatives to supervise or to perform services. Transmission Operator shall have no authority to discharge such representatives but may, for good cause, require the Transmission Owner to transfer its representatives from the Transmission System.
- (d) Each of the Transmission Owners shall have the right at all reasonable times to inspect the Transmission System and all Transmission System records. The Transmission Operator shall provide access and safe and sufficient equipment and facilities required for such inspection.

4. Transmission Operator

- (a) The Transmission Owners hereby appoint Montana, and Montana hereby accepts appointment, as the Transmission Operator of the Transmission System.
- (b) The Transmission Operator, as agent for and on behalf of the Transmission Owners, shall construct, operate and maintain

the Transmission System, hire all Transmission System personnel, and pay all Costs of Transmission System Construction and Costs of Transmission System Operation, all in accordance with Prudent Utility Practice, this Agreement, guidelines established from time to time by the Transmission Committee, and any applicable laws, regulations, orders, permits and licenses, now or hereafter in effect, of any governmental authority.

- (c) The Transmission Operator shall not assign, transfer, or delegate, voluntarily or by operation of law, its responsibilities to any Person without the written approval of Transmission Committee members representing at least 50% of the total Requirements Shares of each Segment affected by such matter (excluding the Requirements Share of the Transmission Operator). The Transmission Operator may resign as Operator upon the giving of two (2) years' notice to the Transmission Owners. The Transmission Committee shall thereupon appoint a new Transmission Operator.
- (d) In every instance where Transmission Operator is required by this Agreement to act as agent for and on behalf of the Transmission Owners, or any of the Transmission Owners, Transmission Operator is hereby granted and shall have the power to exercise authority to do everything necessary, proper and usual, in the ordinary course of business, for effecting the purpose of its agency, including, but not limited to, the power to enter into contracts with third parties for and on behalf of the Transmission Owners, the power to make and receive payments, the power to initiate, compromise or settle claims with third parties, the power to act as agent in its own name, and the power to appoint subagents. The Transmission Operator shall exercise such agency power in accordance with any guidelines established by the Transmission Committee. The grant of such agency powers to Transmission Operator shall remain in effect until the termination of this Agreement pursuant to Section 35.
- (e) The Transmission Operator shall maintain a force of able and efficient manpower and, as employer of the force, Transmission Operator shall hire and fire personnel as necessary. The work force will be employed in the classifications necessary to construct, operate and maintain the Transmission System. The Transmission Operator shall negotiate any contracts entered into with unions and set wage scales for nonunion personnel.
- (f) The Transmission Operator shall maintain a training program as necessary to assure the availability of qualified personnel for the construction, operation and maintenance of the Transmission System. If such training program utilizes facilities of Transmission Operator other than Transmission System facilities, the costs of such use of facilities, shall be allocated on an equitable basis to Transmission System costs hereunder. Transmission Operator shall make such training program and reasonable use of Transmission System facilities

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available to employees of the other Transmission Owners for the purpose of training and the costs of such training shall be apportioned equitably between the Transmission System and such other Transmission Owners.

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- (g) The Transmission Operator shall pay promptly all sums due employees or due any governmental or other agency on their behalf or on account of their employment and shall not permit any labor claims to become a lien against the property of the Transmission Owners, other than claims that are being contested in good faith.
- (h) The Transmission Operator shall develop and maintain a safety program for protection of personnel and equipment. The Transmission Operator shall practice good housekeeping. Subject to the rights of the other Transmission Owners to inspect the Transmission System, the Transmission Operator shall control access to the Transmission System.
- (i) A Transmission Owner may enjoy advantages while marketing its entitlement to the use of the Transmission System because it has been designated Transmission Operator. Except as otherwise specifically provided in this Agreement, Transmission Operator shall not be obligated as an agent or fiduciary on the behalf of Transmission Owners to notify or otherwise inform a Transmission Owner of offers tendered it to acquire Transmission Operator's ownership entitlement to use of Transmission System Capacity nor to offer any Transmission Owner participation in arrangements for use of Transmission Operator's ownership entitlement to Transmission System Capacity.

5. Design, Engineering and Construction Management

The Transmission Owners shall retain a firm or firms, including a Transmission System Architect-Engineer, recognized for knowledge, skill and experience in the design and construction of electrical transmission facilities and related facilities until the Transmission Committee determines that the services of any such firm or firms are no longer required or desirable.

6. Subsynchronous Resonance

- (a) The Transmission Owners and Montana/Puget shall undertake, or cause to be undertaken, tests, evaluations and computer modeling to determine if Subsynchronous Resonance (SSR) is likely to affect the operation of Colstrip Units #1 and #2. To the extent practicable, such tests shall be performed during periods of scheduled maintenance of Colstrip Units #1 and #2.
- (b) Montana/Puget shall bear all costs of planning, engineering, acquisition, construction, operation and maintenance of any relay protection against SSR that is installed on Colstrip Units #1 and #2. Each Transmission Owner shall bear its Project

Share of all costs of planning, engineering, acquisition, construction, operation and maintenance of any relay protection against SSR that is installed on the Project.

- (c) The Transmission Committee shall determine what protection against SSR is required for Colstrip Units #1 and #2. Such determination shall be based upon the tests, modeling, and evaluations performed pursuant to Section 6(a). The criteria for determining what protection is required will be such that (1) no more than one trip of Colstrip Unit #1 or #2 will occur on the average due to SSR in any three consecutive month period, and (2) Colstrip Units #1 and #2 shall not be subject to any unreasonable risk of damage due to SSR. The Transmission Committee shall make such determinations within a reasonable period after the tests, modeling and evaluations required by Section 6(a) are completed.
- (d) Except as provided in Section 6(b), each Transmission Owner shall bear its Share (i.e., equal to the sum of one-half its Requirements Share for the C-B Segment, and one-half its Requirements Share for the B-T Segment) of the following:
 - (i) All costs not in excess of \$6,000,000 to provide protection against SSR for Colstrip Units #1 and #2; provided, however, that the Transmission Committee determination to provide such protection is made prior to the expiration of two years after the last to occur of: (1) the commercial operation date of Colstrip Unit #3, (2) the commercial operation date of Colstrip Unit #4, or (3) the first date upon which all of the series capacitors for the Transmission System, as presently planned, are energized;
 - (ii) All costs that are incurred to perform the tests, modeling, and evaluations described in Section 6(a); and
 - (iii) Replacement power costs or foregone revenues, less fuel costs, and start-up costs incurred by Montana/Puget as a result of such tests described in Section 6(a), to the extent such costs do not exceed \$350,000; provided, such costs shall not include those incurred as a result of forced outage of Colstrip Units #1 or #2 occurring as a result of such tests or in preparation thereof.
- (e) The Transmission Operator shall take all or some portion of Transmission System series capacitors out of service, reduce available Transmission System Capacity or take other reasonable action to avoid SSR on Colstrip Units #1 and #2 or the Project.

7. Transmission System Capacity Entitlement

(a) Subject to Section 7(d), each Transmission Owner shall have the right to use its Requirements Capacity.

- (b) The capacity of the combined Transmission System and Montana's Transmission System that is usable after accommodating inadvertent flow on such combined system shall be allocated to the Transmission System and to Montana's Transmission System in the same proportion as the Integrated System Capacity is allocated under Section 8(b).
- (c) The Transmission Operator shall determine Transmission System Surplus Capacity in accordance with guidelines developed by the Transmission Committee.
- (d) If the Transmission Operator determines pursuant to guidelines established by the Transmission Committee that capacity of the Transmission System is unavailable for use as a result of inadvertent power flows on the Transmission System or has been derated so that each Transmission Owner cannot use its Requirements Capacity, then the use of all available capacity will be allocated among the Transmission Owners by the Transmission Operator in the proportion that each Transmission Owner's Requirements Capacity bears to all Transmission Owners' Requirements Capacity.
- (e) Each Transmission Owner shall have the right to use its Requirements Share of the available Transmission System Surplus Capacity; provided that any use of Transmission System Surplus Capacity shall be subject to interruption, curtailment or such other restrictions as the Transmission Operator determines are necessary so that each Transmission Owner may utilize its Requirements Capacity. Such determinations shall be made in accordance with guidelines to be developed by the Transmission Committee.
- (f) Transmission Operator shall interrupt, curtail or otherwise restrict schedules through the Broadview Substation 500/230 kV transformers, described in Exhibit "A," to the extent required by Montana to transmit 790.6 MW of its power through said transformers.
- (g) Any sale, transfer or assignment of any right to use Transmission System Capacity for a period greater than one (1) year shall be deemed a transfer or assignment of an interest in the Transmission System for purposes of Section 28.

8. Transmission System Capacity Determinations and Allocations

- (a) On the request of the Transmission Committee, the Transmission Operator shall make the following capacity determinations in accordance with Exhibit "C," as supplemented and modified from time to time by the Transmission Committee:
 - (1) Transmission System separate capacity;
 - (2) Montana's Transmission System separate capacity; and

(3) Integrated System Capacity.

(b) The Integrated System Capacity shall be allocated between the Transmission System and Montana's Transmission System in the proportion that each system's separate capacity determined pursuant to Exhibit "C" bears to the sum of such separate capacities; provided, however, if future developments, additions, or changed conditions on one of the separate systems result in a change in the Integrated System Capacity determined pursuant to Sections B(a)(1), (2) and (3), the amount of capacity allocated to the other system pursuant to this Section B(a) shall not be reduced.

9. Scheduling

- (a) Before 4:00 p.m., Mountain Time of each day, the Transmission Owners shall make available to Transmission Operator hourly transmission schedules for the following day or days over the Transmission System. A Transmission Owner may at any time change its schedules.
- (b) Each Transmission Owner shall schedule to the Transmission Operator the losses allocated to such Transmission Owner under Section 11. Such losses shall be scheduled 168 hours after their occurrence unless otherwise mutually agreed between Transmission Operator and such Transmission Owner.

10. Load Control

Each Transmission Owner shall include in its respective load control area its share of the output of the Colstrip Units #1 and #2 and the Project. Montana shall include the Transmission System in its load control area.

ll. Losses

Montana shall receive transmission loss compensation for Transmission System losses in its control area only as determined and allocated in accordance with Exhibit "D." Any Transmission Owner may at any time propose to the Transmission Committee a revised Exhibit "D." The Transmission Committee may approve such revised Exhibit "D" by a vote of Transmission Committee members representing at least 85% of the total Requirements Shares of each Segment for which losses are proposed to be calculated.

12. Scheduling of Outages

(a) The Transmission Operator shall schedule outages for major maintenance as required by the manufacturers' applicable conditions of sale and delivery of the affected facilities and

equipment or as the manufacturer may advise from time to time, unless otherwise directed by the Transmission Committee.

(b) The Transmission Operator shall schedule all Transmission System outages for inspection and routine maintenance at such time as shall be directed by the Transmission Committee, provided, however, that any outages required by governmental agencies having jurisdiction or outages to avoid hazard to the Transmission System or to any person or property shall be scheduled by the Transmission Operator as required.

13. Transmission System Construction

- (a) Transmission Operator shall take whatever action is necessary or appropriate to seek and obtain all licenses, permits and other rights and regulatory approvals necessary for the construction, operation and maintenance of the Transmission System, on behalf of itself and the other Transmission Owners. However, the Transmission Owners acknowledge that there is no assurance that such permits, licenses and approvals will be obtained.
- (b) Transmission Operator shall prosecute Transmission System Construction in accordance with appropriate plans and specifications for the Transmission System so as to complete Transmission System Construction by a date to be established by the Transmission Committee. The Transmission Owners acknowledge that there is no assurance that such construction will be completed as scheduled.
- (c) All agreements, purchase contracts and orders here-tofore entered into by Montana in its own name relating to Transmission System Construction are hereby dedicated to the Transmission System and ratified by the Transmission Owners. Transmission Operator, with reasonable expedition for itself and as agent for the other Transmission Owners, shall enter into additional contracts for such purpose as well as for operation and maintenance of the Transmission System. The award of any contracts in connection with Transmission System Construction, operation and maintenance of the Transmission System shall be made by Transmission Operator in a manner designed to result in the least overall cost consistent with standards of high quality.
- (d) The Transmission Operator shall dispose of surplus Transmission System property in accordance with the directions of the Transmission Committee. Proceeds from such disposal shall be equitably distributed or allocated to the Transmission Owners in proportion to their payments for such property.

14. Costs of Transmission System Construction

"Costs of Transmission System Construction" are all costs allocable to Transmission System Construction (excluding allowance

for funds used during construction) after giving appropriate consideration to credits relating to such costs including proceeds from the disposition of surplus property and interest received on sums of money deposited in the Construction Trust Account referred to in Section 16. Without limiting the generality of the foregoing, such costs shall include:

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- (a) All costs of preliminary site investigation and development, land acquisition, architectural and engineering services, labor, materials, equipment, supplies, personnel training, testing, permits and licenses, legal services, Transmission System Capital Additions and Transmission System Elective Capital Additions.
- (b) Payroll, including related fringe benefits and payroll taxes, of direct full time Transmission System employees;
- (c) Payroll of Transmission Operator's employees, other than those charged to its administrative and general expenses, and other than direct full time Transmission System employees, on an actual time basis including related fringe benefits and payroll taxes;
- (d) Reasonable traveling expense including use of Transmission Operator's transportation equipment;
- (e) All costs of insurance obtained pursuant hereto applicable to Transmission System Construction;
- (f) All costs relating to injury or damage (whether incurred by a Transmission Owner or any other person or entity) arising out of Transmission System Construction (other than those released or indemnified pursuant to Section 24(a), (c) or (d)) less proceeds of insurance maintained pursuant hereto or of insurance under any contract for Transmission System Construction;
- (g) All federal, state and local taxes and payments in lieu of taxes legally required to be paid in connection with Transmission System Construction, except any tax or payment in lieu of taxes assessed or charged directly against any individual Transmission Owner unless such tax or payment was assessed or charged to the individual Transmission Owner on behalf of the Transmission System;
- (h) All costs required by the Transmission Agreement executed by BPA and Transmission Owners, Contract No. DE-MS79-81BP90210, to be paid by the Transmission Operator to BPA on behalf of Transmission Owners; and
- (i) Administrative and general costs of Transmission Operator applicable to Transmission System Construction determined in accordance with Exhibit "E" hereto.

15. Transmission Construction Budget

As soon as practical after the execution of this Agreement, Transmission Operator shall submit to the Transmission Owners a budget setting forth an estimate of amounts expected to be expended for Costs of Transmission System Construction and an estimate of Transmission System Capital Retirements and related costs in each quarter hereafter to the completion of Transmission System Construction, together with an estimated cash flow schedule for each of said quarters. By September 1 of each year, Transmission Operator shall submit to the Transmission Committee for approval an updated budget and cash flow schedule, supported by detail adequate for the purpose of comprehensive review, describing the items of Costs of Transmission System Construction and Transmission System Capital Retirements, the amounts expected to be expended therefor in each month during the next 12 months commencing the following January and in each quarter thereafter. Construction budget and cash flow schedules shall be changed by Transmission Operator from time to time as necessary to reflect substantial changes in construction schedules, plans, specifications or costs and, when so changed, shall be submitted to the Transmission Committee for approval.

16. Construction Payments

- (a) The Operator designated by the Ownership Agreement pursuant to Section 8 thereof has established a separate trust account ("Construction Trust Account") in a bank located in the State of Montana and having qualifications meeting all requirements imposed upon depositories for any of the Transmission Owners. Sums of money for Costs of Transmission System Construction shall be deposited therein and Transmission Operator shall withdraw and apply funds therefrom only as necessary to pay Costs of Transmission System Construction.
- (b) The Transmission Operator shall establish upon receipt from any Transmission Owner of reasonable advance notice a trust account separate from the Construction Trust Account, subject to the same qualifications required by Section 16(a). Thereafter, sums of money for Costs of Transmission System Construction shall be deposited in said separate trust account and withdrawn as provided by Section 16(a).
- (c) For 330 MW of Montana's Requirements Capacity and 330 MW of Puget's Requirements Capacity in the C-B Segment, Montana has paid on behalf of Montana and Puget \$13,304,727 to construct a double circuit steel tower 230 kV transmission line, a portion of the Transmission System. This amount shall be credited to Montana as a payment of Costs of Transmission System Construction. After reimbursement to Montana by Puget pursuant to Section 16(d) hereof, said amount shall be credited one-half to Puget and one-half to Montana as a payment of Costs of Transmission System Construction.

- (d) As reimbursement for one-half of the payment referred to in Section 16(c), Puget shall pay Montana \$6,652,363.50, less accumulated depreciation reserve, on the date (the "Reimbursement Date" stated in Section 4.2 of the Montana-Puget Colstrip Units #1 and #2 Transmission Contract) the Transmission Committee determines that the Transmission System will be energized and has sufficient capacity to transmit the Project's and Colstrip Units #1 and #2 net generating capability, unless otherwise agreed by Montana and Puget; provided, however, that said reimbursement shall not constitute a novation, nor relieve Puget, of its obligations under the Montana-Puget Colstrip Units #1 and #2 transmission contract for liabilities accrued thereunder and for annual costs specified in Section 3.3 of said contract. Said reimbursement shall thereafter relieve Puget of its obligation to reimburse Montana for its share of the annual cost of the Colstrip-Broadview 230 kV transmission line, a part of the Transmission System.
- (e) For 330 MW of Puget's Requirements Capacity in the B-T Segment, Puget shall pay \$11,146,164 plus Puget's actual short-term borrowing rate from August 1, 1976, on said amount which remains unpaid, on or before May 1, 1982. This amount shall be credited to Puget as it is made, as a payment of Costs of Transmission System Construction.
- (f) Except as provided in Section 16(g), each Transmission Owner's proportionate share of the Costs of Transmission System Construction in excess of payments described in Sections 16(c) and (e) shall be determined and paid for on the basis of its Project Share. At the time of execution of this Agreement or promptly thereafter, each Transmission Owner shall have paid (or cause payment of) its Project Share of the accumulated Costs of Transmission System Construction incurred prior to the date of such execution in excess of the payments described in Sections 16(c) and (e).
- (g) Each Transmission's Owner's share of Costs of Transmission System Construction related to Transmission System Elective Capital Additions and Transmission System Capital Additions shall be determined and paid for on the basis of Requirements Shares in each segment to which said addition is made.
- (h) Upon execution of this Agreement, each Transmission Owner shall deposit (or cause deposit of) into the Construction Trust Account its Project Share of a working fund of \$50,000. Transmission Operator shall periodically notify each Transmission Owner a reasonable period of time in advance, as determined from time to time by the Transmission Committee, or in the event of an emergency as soon as practicable, of expenditures for Costs of Transmission System Construction. Whether or not such expenditures are provided for in the budget, each Transmission Owner shall deposit (or cause deposit of), its share of such expenditures, as determined in Section 16(f) in the Construction Trust Account in funds immediately available on the dates specified in the notification.

(i) The Construction Trust Account may from time to time be closed or later reopened upon the unanimous action of the Transmission Committee.

17. Costs of Transmission System Operation

Costs of Transmission System Operation means all expenses incurred in or relating to the operation and maintenance of the Transmission System, including but not limited to:

- (a) Payroll, including related fringe benefits and payroll taxes, of direct full-time Transmission System employees;
- (b) Payroll of Transmission Operator's employees, other than those charged to its administrative and general expenses, and other than direct full-time Transmission System employees, on an actual time basis including related fringe benefits and payroll taxes;
- (c) Materials and supplies including related purchasing and handling costs;
- (d) Reasonable traveling expense including use of Transmission Operator's transportation equipment;
- (e) All costs of insurance obtained pursuant hereto applicable to operation or maintenance of the Transmission System;
- (f) All costs relating to injury or damage (whether incurred by a Transmission Owner or any other person or entity) arising out of operation or maintenance of the Transmission System (other than those claims released or indemnified pursuant to Section 24(a), (c) or (d)) less proceeds of insurance maintained pursuant hereto or of insurance under any contract relating to operation or maintenance of the Transmission System;
- (g) All federal, state and local taxes and payments in lieu of taxes legally required to be paid in connection with ownership, operation and maintenance of the Transmission System, except any tax or payment in lieu of taxes assessed or charged directly against any individual Transmission Owner unless such tax or payment was assessed or charged to the individual Transmission Owner on behalf of the Transmission System;
- (h) All costs of providing dispatching services for the Transmission System;
- (i) All costs required by the Transmission Agreement executed by BPA and Transmission Owners, Contract No. DE-MS79-81BP90210, to be paid by the Transmission Operator to BPA on behalf of Transmission Owners; and
- (j) Administrative and general costs of Transmission Operator applicable to Transmission System operation and maintenance as determined in accordance with Exhibit "E" attached hereto.

18. Operating Budget

- (a) On or before September 1 of each year, the Transmission System Operator shall submit to the Transmission Committee a budget of its estimate of Costs of Transmission System Operation by calendar months for the operating year beginning January 1 next following. Such budget shall be subject to approval by the Transmission Committee which approval shall not unreasonably be The Transmission Committee shall approve such budget or a revised budget on or before November 1 in any such year. The budget will list the work force and expense therefor, materials, supplies, and other expenses associated with the normal maintenance program. Extraordinary items of maintenance will be detailed to set forth the cost of labor required beyond that available from the regular force and other expense which will be incurred. The Transmission Operator will submit budget revisions as may become necessary from time to time during any operating vear which the Transmission Committee shall promptly consider and which shall similarly be subject to approval by the Transmission Committee. The budget will guide expenditures for operating and maintenance purposes through the ensuing year, except as may be required in an emergency.
- (b) In the event of emergency, forced outages, or instances of unforeseen maintenance when repairs could be effected more rapidly by expenditure of overtime and other expediting costs, the Transmission Owners will be individually notified. Unless authorized by the Transmission Committee as Costs of Transmission System Construction or Costs of Transmission System Operation, Transmission Owners desiring accelerated repairs will share pro rata on the basis that their respective Requirement Shares in the affected Segment bears to all such Transmission Owners' Requirement Shares desiring accelerated repairs, the expediting costs expended to return the Transmission System to the required capacity level at an earlier date.
- (c) The Transmission Owners recognize it will be necessary for continued operation of the Transmission System, or to maintain the Transmission System in operable condition, that the Transmission Operator be in a position to meet commitments for payroll, repairs and replacements, materials and supplies, services and other expenses of a continuing nature in order that it may fulfill its obligations to the Transmission Owners as Transmission Operator under this Agreement. Accordingly, notwithstanding any of the provisions of this Section 18, the Transmission Operator, on behalf of the Transmission Owners, may make all expenditures in the normal course of business or in an emergency, all as the same are necessary for the proper and safe operation and maintenance of the Transmission System. As soon as practicable after the making of any such expenditures, the Transmission Operator shall make a full report thereof to the Transmission Committee. The Transmission Operator shall take any action required by a final and binding order of any public authority having jurisdiction or in any emergency for the safety of the Transmission System.

19. Operation and Maintenance Payments

- (a) The Operator designated by the Ownership Agreement has established pursuant to Section 8 thereof a separate trust account ("Operation Trust Account") in a bank located in the State of Montana and having qualifications meeting all requirements imposed upon depositories for any of the Transmission Owners. Sums of money for Costs of Transmission System Operation shall be deposited therein and the Transmission Operator shall withdraw and apply funds therefrom only as necessary to pay Costs of Transmission System Operation.
- (b) The Transmission Operator shall establish upon receipt from any Transmission Owner of reasonable advance notice a trust account separate from the Operation Trust Account, subject to the same qualifications required by Section 19(a). Thereafter, sums of money for Costs of Transmission System Operation shall be deposited in said separate trust account and withdrawn as provided by Section 19(a).
- (c) Upon establishment of the Operation Trust Account, each Transmission Owner shall deposit (or cause deposit of) into the Operation Trust Account, its share (i.e., equal to the sum of one-half its Requirements Share for the C-B Segment, and one-half its Requirements Share for the B-T Segment) of a working fund an amount established by the Transmission Committee as sufficient for the continuing operation of the Transmission System. Transmission Operator shall equitably allocate the Costs of Transmission System Operation between the C-B Segment and the B-T Segment in accordance with guidelines established by the Transmission Committee. The Transmission Operator shall periodically notify each Transmission Owner at a reasonable period of time in advance, as determined from time to time by the Transmission Committee, or, in the event of an emergency as soon as practicable, of expenditures for Costs of Transmission System Operation and the allocation of such expenditures between the C-B Segment and the B-T Segment. Whether or not such expenditures are provided for in the budget, each Transmission Owner shall deposit (or cause deposit of) its Requirements Share of such expenditures in the Operation Trust Account in funds immediately available on the dates specified in the notification.
- (d) The Operation Trust Account, or the separate trust account established pursuant to Section 19(b), may from time to time be combined with the Construction Trust Account established pursuant to Section 8 of the Ownership Agreement or Section 16 of this Agreement as determined by the unanimous action of the Transmission Committee.

20. Accounting and Reports

(a) Transmission Operator shall keep up-to-date Transmission System books and records of Transmission System financial transactions and other arrangements in carrying out the terms of this

Agreement. Such books and records shall contain information supporting the allocation of Transmission Operator's administrative and general costs associated with the Transmission System. Such books and records shall be retained by Transmission Operator for such period as is required by the rules and regulations of the Federal Energy Regulatory Commission or such longer period determined by the Transmission Committee and shall be made available for inspection and audit by each of the Transmission Owners at any reasonable time.

- (b) Any contract with any consultant or contractor of Transmission Operator providing for reimbursement of costs or expenses of any kind shall require the keeping and maintenance of books, records, documents and other evidence pertaining to the costs and expenses incurred or claimed under such contract to the extent, and in such detail, as will properly reflect all costs related to this Agreement and shall require such books, records, documents and evidence to be made available to each of the Transmission Owners at all reasonable times for review and audit. Each of the Transmission Owners shall have the right to examine and copy all plans, specifications, bids and contracts relating to the Transmission System provided that proprietary information subject to confidentiality agreements shall only be disclosed in accordance with the terms of such agreements.
- (c) All accounts shall be kept so as to permit conversion to the system of accounts prescribed for electric utilities by the Federal Energy Regulatory Commission, but the manner in which accounts are kept pursuant to this Agreement is not intended to be determinative of the manner in which they are treated in the books of account of the Transmission Owners.
- (d) Transmission Operator shall cause all books and records to be audited annually by independent Certified Public Accountants of national reputation acceptable to all the Transmission Owners. Copies of such audits shall be supplied to each Transmission Owner. The cost of such periodic audits shall be a Transmission System cost. Any Transmission Owner may request a more frequent audit, but in that case the requesting Transmission Owner shall pay the costs of such audit.
- (e) Transmission Operator shall furnish to each Transmission Owner monthly statements of Costs of Transmission System Construction and Costs of Transmission System Operation and monthly construction progress, operation and maintenance reports in accordance with guidelines established by the Transmission Committee. The Transmission Operator shall also furnish to each Transmission Owner such other reports as may from time to time reasonably be requested by such Transmission Owner. At the request of any Transmission Owner, Transmission Operator shall provide certificates signed by a responsible officer of Transmission Operator or an individual designated by him for such signature setting forth the status of Costs of Transmission System Construction and application of funds. The certificate

shall be in such form and contain such information as is reasonably requested by such a Transmission Owner.

21. Insurance

- (a) The Transmission Operator shall procure at the earliest practicable time and thereafter maintain in effect at all times hereinafter provided, to the extent available at reasonable cost and in accordance with standards prevailing in the utility industry for projects of similar size and nature, adequate insurance coverage of the Transmission System with responsible insurers, with each Transmission Owner as a named assured and with losses payable to the respective Transmission Owners for their benefit as their respective interests may appear, to protect and insure against: worker's compensation and employer's liability, public liability for bodily injury and property damage, all risks of physical damage to property or equipment, including transportation and installation perils, and such other insurance as the Transmission Committee deems necessary, with reasonable limits and subject to appropriate exclusions and deductibles. insurance under the State of Montana's worker's compensation laws may be substituted for the referenced worker's compensation and employer's liability insurance and the Transmission Owners agree to cooperate to establish a procedure whereby the cost of such self-insurance shall be levelized over a three (3) to five (5) year period.
- (b) Each Transmission Owner shall ensure that each of its policies of insurance that may be applicable to any claims arising in connection with the Transmission System shall provide a waiver of the insurer's rights of subrogation against, or name as additional assureds, all the other Transmission Owners and their respective agents and employees. To the extent permitted by its insurance policies, each Transmission Owner waives any rights of subrogation against all the other Transmission Owners, their agents and employees, for losses, costs, damages, or expenses arising out of the construction, operation, maintenance, reconstruction or repair of the Transmission System.
- (c) Copies of all policies of insurance procured pursuant to Section 21(a) shall be provided to each Transmission Owner. Upon request of a Transmission Owner, any Transmission Owner will provide copies of policies of insurance described in Section 21(b). Transmission Operator shall notify the Transmission Owners of the assertion of any claim in excess of \$500,000 against the Transmission System immediately upon assertion of the same, or of the occurrence of an event likely to result in the assertion of such a claim. All claims for lesser amounts shall be reported annually by Transmission Operator to the Transmission Owners. The insurance program, policies and coverages shall be reviewed annually by the Transmission Committee.

22. Transmission Committee

- (a) There is hereby established a Transmission Committee to facilitate effective cooperation, interchange of information and efficient management of the Transmission System, on a prompt and orderly basis. The Transmission Committee shall be composed of not more than six (6) members. Each party (or its successors and assigns acting collectively) shall appoint one (1) Transmission Committee member. Each Transmission Committee member shall have the right to vote the Requirement Share of the party (or its successors and assigns) that appointed such member. A member shall vote as a unit its entire Requirement Share in the Segment effected by such vote.
- (b) Upon execution of this Agreement, each party shall notify all of the other parties of the Transmission Committee member initially appointed by it. Any party (or its successors and assigns acting collectively) may change its appointment by giving written notice of the change to all of the Transmission Owners. Any party (or its successors and assigns acting collectively) may appoint an alternate or alternates to serve on the Transmission Committee in the absence of the regular Transmission Committee member or to act on specified occasions or with respect to specified occasions or with respect to specified matters. Any reference herein to "Transmission Committee member" includes the member's alternate in the absence of the member.
- The Transmission Committee shall meet regularly, but not less often than once in each calendar year, as may be agreed upon, and at such other times as requested by any Transmission Committee member upon three days written notice. Meetings of the Transmission Committee may be held or members thereof may participate in a meeting of such Transmission Committee by means of conference telephones or similar communications equipment by means of which all persons participating in the meeting can hear each other. Participation in a meeting by means of conference telephones or similar communications equipment shall constitute presence in person at the meeting: The Transmission Committee may appoint such subcommittees as it deems necessary or appropriate and by unanimous action, may delegate approval authority to such subcommittees. Transmission Operator shall prepare written minutes of all meetings and distribute them to each Transmission Committee member within a reasonable time after each meeting. Unless otherwise mutually agreed, Transmission Operator's member shall act as Chairman of the Transmission Committee.
- (d) Any action which may be taken at a meeting of the Transmission Committee may be taken without a meeting if all Transmission Committee members consent in writing. The Transmission Committee may, by unanimous action, adopt written procedures for review and approval of matters requiring Transmission Committee approval, which procedures may include, but are not limited to, modifying of maximum allowable times for approval, waiver of portions of information required and advance approvals.

- (e) Transmission Operator shall use its best efforts to keep all members of the Transmission Committee informed of all significant matters with respect to Transmission System Construction, operation and maintenance of the Transmission System (including, without limitation, plans, specifications, engineering studies, environmental reports, budgets, estimates and schedules) and, when practicable, in time for members to comment thereon before decisions are made, and shall confer with the Transmission Committee, or separately with members thereof, during the development of any of Transmission Operator's proposals regarding such matters when practicable to do so. Upon request of any Transmission Committee member, Transmission Operator shall furnish or make available, with reasonable promptness and at reasonable times, any and all other information relating to construction, operation and maintenance of the Transmission System.
- (f) Transmission Operator shall submit each of the matters listed below to the Transmission Committee for approval, which approval must be by a vote of Transmission Operator's Transmission Committee member, plus at least two other Transmission Committee members so that the Transmission Committee members voting for approval represent at least 55% of the total Requirement Shares of each Segment affected by such matter.
 - (i) Any proposal made by two Transmission Committee members appointed by Transmission Owners other than Transmission Operator except as provided in Section 22(j);
 - (ii) Transmission System Construction and Transmission System operating budgets and changes therein except as provided in Section 22(j);
 - (iii) Any changes in the working fund in the Construction Trust Account or Operation Trust Account, except as provided in Section 16(i) or Section 19(d);
 - (iv) Award of any contract, approval of any change order, or payment of any controverted claim, in excess of \$500,000;
 - (v) Insurance coverage, including limits and choice of insurers;
 - (vi) Estimate of cost of repair or damage to the Transmission System if in excess of \$2,000,000, recommendation whether to repair in whole or in part or to remove from service, construction budget for repair of Transmission System;
 - (vii) Disposition of surplus property having a value of such minimum amount as is established by the Transmission Committee;

- (viii) Settlement of third party claims against the Transmission System in excess of \$500,000;
 - (ix) Any proposal by Transmission Operator to issue a purchase order to any other Transmission Owner for facilities, goods, services, or other items to be provided to the Transmission System;
 - (x) Any other action required to be taken by the Transmission Committee pursuant to this Agreement for which a procedure or voting percentage for reaching approval is not otherwise specifically provided.
- (g) All proposals of Transmission Operator relating to any matters regarding the Construction, operation and maintenance of the Transmission System submitted to the Transmission Committee under any provisions of this Agreement shall include itemized cost estimates and other detail sufficient to support a comprehensive review. Upon request, Transmission Operator shall furnish or make available all supporting reports, analyses, recommendations or other documents pertaining thereto. Transmission Operator shall prepare and furnish such documents to each Transmission Owner as may be required by any regulatory authority to be maintained by such Transmission Owner.
- If any matter submitted to the Transmission Committee under Section 22(f) is not approved by a vote within 10 days after the original submission to the Transmission Committee, or within such longer time as the Transmission Committee may decide upon unanimously, then each member of the Transmission Committee who declines to vote approval, upon demand of Transmission Operator or any Transmission Committee member voting for approval of the matter, shall specify in a written statement his reasons for declining approval, and shall also state therein what alternative, if any, is acceptable to him. Such statement shall be submitted to the other Transmission Committee members within 10 days after expiration of the later of (i) the member's receipt of a demand for a written statement of his reasons for declining approval or (ii) such longer period as the Transmission Committee may decide upon unanimously. Each member who has not submitted such written statement within the time provided in the preceding sentence shall be deemed to have approved the matter as submitted by Transmission Operator. Immediately after receipt of such statements from Transmission Committee members representing at least 30% of the total Requirement Shares of each Segment affected by such matter, Transmission Operator may refer the disputed matter to arbitration pursuant to Section 23 hereof. If Transmission Operator elects not to do so and does not submit an alternative proposal, Transmission Committee members representing at least 30% of the total Requirement Shares of each Segment affected by such matter may refer such matter to arbitration pursuant to Section 23.

- (i) Two Transmission Committee members appointed by Transmission Owners other than Transmission Operator may submit to the Transmission Committee any proposal which conforms with the requirements imposed on Transmission Operator under Section 22(g) by serving a copy of such proposal on all other Transmission Committee members. Within 15 days after receipt of such proposal, Transmission Operator shall submit one or more written alternative proposals. Such an alternative proposal may be that the Transmission System continue to be constructed, operated or maintained in the manner previously planned. The Transmission Committee shall meet with reasonable promptness and vote on such proposals. If the Transmission Committee approves in accordance with this section any of Transmission Operator's proposals, the proposal of the other Transmission Committee members shall be dismissed and Transmission Operator shall implement its approved If the Transmission Committee does not approve any of proposal. Transmission Operator's proposals, as they may be amended, the Transmission Committee shall vote on the proposal or proposals of the other Transmission Committee members and if the Transmission Committee approves in accordance with this section any such proposal, Transmission Operator shall proceed with the approved proposal. If the Transmission Committee does not approve any of the proposals submitted, it shall require submission of further proposals or it shall dismiss all proposals. If the Transmission Committee does not require further proposals or dismisses all proposals, the Transmission Committee member appointed by Transmission Operator or the Transmission Committee members submitting any such proposal, as the case may be, may submit its proposal to arbitration within 15 days after the Transmission Committee vote. The arbitrator shall then consider Transmission Operator's proposal and determine if its proposal is in accordance with Prudent Utility Practice. If the arbitrator so determines, Transmission Operator shall proceed accordingly and the proposal of the other Transmission Committee members shall be dismissed. If the arbitrator determines Transmission Operator's proposal is not in accordance with Prudent Utility Practice, he shall then consider the proposal of such other Transmission Committee members and determine if such proposal of such other Transmission Committee members is in accordance with Prudent Utility Practice. If the arbitrator determines such proposal is in accordance with Prudent Utility Practice, Transmission Operator shall proceed with the proposal. If the arbitrator determines that none of the proposals conform with Prudent Utility Practice, he shall dismiss all proposals and terminate the arbitration.
- (j) Proposals for Transmission System Elective Capital Additions in excess of \$25,000 shall require the approval of Transmission Committee members representing at least 85% of the total Requirement Shares of each Segment to which said addition is made.

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- (k) The Transmission Committee is the successor to the group known as the Steering Committee with respect to the Transmission System, and by execution of this Agreement, each Transmission Owner ratifies, confirms and adopts all prior actions of said Steering Committee.
- (1) Any of the specific dollar limitations contained in subsections (iv), (vi) and (viii) of Section 22(f) and in Section 22(j) may be changed from time to time with approval of Transmission Committee members representing at least 85% of the total Transmission Ownership Percentages.

23. Arbitration

Any controversies arising out of or relating to this Agreement which cannot be resolved through negotiations among the Transmission Owners within thirty (30) days after inception of the matter in dispute shall, upon demand of any Transmission Owner involved in the controversy, be submitted to an Arbitrator having demonstrated expertise in the matter submitted. If the Transmission Owners cannot mutually agree upon such Arbitrator, then upon petition of any Transmission Owner, such Arbitrator shall be appointed by the Superior Court of the State of Washington, in and for the County of Spokane. The arbitration shall be conducted in Spokane, Washington, pursuant to the Washington Arbitration Act, RCW Chapter 7.04 as the same may be amended from time to time. The Arbitrator shall render his decision in writing not later than thirty (30) days after the matter has been submitted to him, and such decision shall be conclusive and binding upon the Transmission Owners. incurred by any arbitration proceedings shall be charged to Costs of Transmission System Construction or Costs of Transmission System Operation, whichever may be appropriate; provided that each party shall bear its own attorneys fees and costs of witnesses.

24. Liabilities

(a) Each Transmission Owner releases all other Transmission Owners and their respective directors, officers, employees and agents, from any consequential damages (including, but not limited to, any loss of use, revenue or profit and any replacement power costs, except as otherwise provided by Section 6(d)(iii)) arising out of Transmission System Construction or the construction, operation, maintenance, reconstruction and repair of the Transmission System, the Project, Colstrip Units #1 and #2 or any equipment installed to protect the Project or Colstrip Units #1 and #2 (collectively, the "Colstrip System") from SSR.

- (b) The Colstrip System and each Transmission Owner's electric system shall be designed, constructed, operated, maintained and used in conformance with accepted electric utility practices:
 - (i) to minimize electric disturbances such as, but not limited to, the abnormal flow of power which may interfere with the Colstrip System, the electric system of any other Transmission Owner or any electric system connected with the Colstrip System or such other Transmission Owner's electric system; and
 - (ii) to minimize the effect on such electric system and on each Transmission Owner's customers of electric disturbances originating on the Colstrip System, each Transmission Owner's electric system, or another electric system.
- (c) No Transmission Owner ("First Party"), its directors, officers, employees, and agents, shall be liable to any other Transmission Owner ("Second Party") for any loss, injury or damage to the Colstrip System or the electric system of any Second Party caused by or arising out of an electric disturbance (including, but not limited to, SSR) on the Colstrip System, whether or not such electric disturbance resulted from the negligent, grossly negligent or wrongful act or omission of the First Party, its directors, officers, employees, agents or subcontractors, whether its or their own or imputed, in the design, construction, operation, maintenance, use or ownership of the Colstrip System or the First Party's electric system, or the performance or nonperformance of the obligation of any Transmission Owner under Section 24(b) of this agreement; provided, however, that such loss, injury or damage does not result from action taken or not taken by the First Party, which action is knowingly or intentionally taken or failed to be taken with intent that injury or damage would result therefrom or which action is wantonly reckless. Each Second Party releases from each other First Party, its directors, officers and employees from any such liability.
- (d) Each First Party shall hold harmless and indemnify each Second Party, its directors, officers and employees, from any claims from loss, injury or damage suffered by those to whom the First Party delivers power or energy, which loss, injury or damage is caused by or arises out of an electric disturbance on the Colstrip System, whether or not such electric disturbance resulted from the negligent, grossly negligent or wrongful act or omission of the Second Party, its directors, officers, employees, agents or subcontractors whether its or their own or imputed, in the design, construction, operation, maintenance, use or ownership of the Colstrip System or the Second Party's electric system, or the performance or nonperformance of the obligation of any Transmission Owner under Section 24(b) of this Agreement; provided, however, that such loss, injury or damages does not result from action taken or not taken by the Second Party, which action is knowingly or intentionally taken or failed to be taken with

intent that injury or damage would result therefrom or which action is wantonly reckless.

- (e) Each Transmission Owner shall make good faith efforts to amend the Agreement Limiting Liability Among Western Interconnected Systems and the Western Interconnected Electric Systems' Excess Liability Insurance Policy (the "Program") so that the Colstrip System qualifies under the Program as a single electric system separate from Montana's electric system. If the Program cannot be so amended, then, for a period of two (2) years commencing with the later of (i) the energization of the Transmission System, or (ii) commercial operation of the Project, the Transmission Owners shall either indemnify Montana against, or name Montana as an insured party under insurance policies providing protection against, third party property loss or injury arising out of the construction, operation, maintenance, reconstruction and repair of the Colstrip System in the amount of the deductible limit Montana then provides in accordance with Prudent Utility Practice under its third party liability insurance policies.
- (f) Throughout the term of this agreement, the Colstrip System shall be a party to the Program or an equivalent arrangement.
- (g) Nothing in this section shall be interpreted or construed as creating any duty to, any standard of care with reference to, or any liability to anyone not a party to this agreement.

25. Default

- (a) Upon failure of a Transmission Owner to make or cause to be made any payment when due, or to perform or cause to be performed any other obligation to be performed by it pursuant to the terms, covenants and conditions contained in the Project Agreements, any other Transmission Owner may make written demand upon said Transmission Owner for such payment or performance. Any Transmission Owner making such a demand shall concurrently deliver copies of the demand to all other Transmission Owners.
- (b) If the failure of a Transmission Owner is to make a payment when due and such failure is not cured within five (5) days from the date of a demand made pursuant to Section 25(a), it shall constitute a default at the expiration of such period.
- (c) If the failure of a Transmission Owner is to perform any obligation contained in the Project Agreements other than to make payments when due and such failure is not cured within 30 days from the date of a demand made pursuant to Section 25(a) or, if it could not be cured within said 30 days, within a reasonable period after the date of such demand, it shall constitute a default at the expiration of such period.

- (d) If a Transmission Owner shall dispute a default asserted against it, then such Transmission Owner shall timely make or cause to be made payment of any sums in dispute or perform the obligation in dispute but may do so under protest. Such protest shall be in writing, shall specify the reasons upon which the protest is based and copies thereof shall be mailed to the other Transmission Owners. Upon resolution of such dispute, the payments advanced or made between Transmission Owners, as in this paragraph provided, shall be adjusted appropriately.
- (e) All disputes referred to in Section 25(d) shall be submitted to arbitration pursuant to Section 23 to determine the extent, if any, of the obligation of the Transmission Owner disputing such default. If payment or performance is timely made under protest, an act of default shall not be deemed to have occurred.
- (f) In the event that a Transmission Owner is in default because of failure to make payments when due, then the following shall occur during the period such Transmission Owner is in default unless the nondefaulting Transmission Owners elect otherwise in writing:
 - (i) The defaulting Transmission Owner shall have no right to use the Transmission System;
 - (ii) The defaulting Transmission Owner's rights to use the Transmission System shall be deemed to be assigned to the Transmission Operator on behalf of the nondefaulting Transmission Owners during the period of default and may be sold by the Transmission Operator and the proceeds applied to the amounts owed by the defaulting Transmission Owner pursuant to the Project Agreements.

In the event of a default, the nondefaulting Transmission Owners are authorized to execute, deliver and file on behalf of all Transmission Owners, such notices, demands, agreements, consents, financing statements, applications and other documents as are necessary or appropriate to implement the provisions of this subsection to the full extent legally possible; provided that if the default is cured, the nondefaulting Transmission Owner shall take such reasonable action as may be requested by the Person curing such default to reflect the fact that such default has been cured. In the event that any of the provisions of this subsection are waived by nondefaulting Transmission Owners or are held to be unenforceable by competent authority, then the remaining provisions shall be severable and in full force and effect.

(g) Payments not made when due may be advanced by other Transmission Owners and, if so advanced, shall bear interest until paid at the rate of 2% per month or the highest lawful rate, whichever is lower.

- (h) In addition to the rights granted in this Section 25, any nondefaulting Transmission Owner may take any action, at law or in equity, including an action for specific performance, to enforce this Agreement and to recover for any loss, damage or payment advances, including attorneys' fees in all trial and appellate courts and collection costs incurred by reason of such default.
- (i) Section 25(f) shall not create an encumbrance prior to the lien of any existing mortgage, loan or credit agreement of each Transmission Owner except to the extent permitted thereunder.
- (j) Each act or omission to act which becomes an act of default hereunder shall be treated as a separate act of default under this Section 25.

26. Uncontrollable Forces

No Transmission Owner shall be considered to be in default in the performance of any of its obligations hereunder, other than obligations of such Transmission Owner to pay costs and expenses, if failure of performance shall be due to uncontrolla-The term "uncontrollable forces" shall mean any ble forces. cause beyond the control of the Transmission Owner, failing to perform and which, by the exercise of reasonable diligence, such Transmission Owner is unable to overcome, and shall include but not be limited to an act of God, fire, flood, explosion, strikes, labor disputes, labor or materials shortages, sabotage, an act of the public enemy, civil or military authority, including court orders, injunctions, and orders of government agencies with proper jurisdiction prohibiting acts necessary to performance hereunder or permitting any such act only subject to unreasonable conditions, insurrection or riot, an act of the elements, failure of equipment, inability to obtain or ship materials or equipment because of the effect of similar causes on suppliers or carriers or failure of any governmental agency to timely act. Nothing contained herein shall be construed so as to require a Transmission Owner to settle any strike or labor dispute in which it may be involved. Any party rendered unable to fulfill any obligation by reason of uncontrollable forces shall exercise due diligence to remove such inability with all reasonable dispatch.

27. Waiver of Right to Partition

So long as the Transmission System or any part thereof as originally constructed, reconstructed or added to is used or useful for the transmission of electric power and energy, or to the end of the period permitted by applicable law, whichever first occurs, the Transmission Owners waive their right to partition whether by partition in kind or sale and division of the proceeds thereof, and agree that they will not resort to any action at law or in equity to partition and further waive the benefit of all laws that may now or hereafter authorize such

partition of the properties comprising the Transmission System. It is agreed this covenant shall be deemed to run with the land. All instruments of conveyance which effect, evidence or vest each Transmission Owner's respective ownership interest in the Transmission System shall contain this waiver of right to partition.

28. Transfers and Assignments

All or any part of the interest of each Transmission Owner in the Transmission System or any part thereof, and all or any part of the rights set forth in the Project Agreements which relate to such interest, may be transferred and assigned as follows, but not otherwise:

- (a) To any mortgagee, trustee or other secured party, as security for bonds or other indebtedness of such Transmission Owner, present or future, and such secured party may transfer or assign the interest given as security pursuant to, or in lieu of, a foreclosure of the lien (or the exercise of power of sale) held by such secured party, provided that the transferee or assignee assumes all of the duties and obligations of the Transmission Owner making the transfer or assignment under the Project Agreements which relate to the interest being transferred or assigned;
- (b) To any financial institution leasing an interest in the Project to the Transmission Owner making the transfer or assignment provided that such financial institution shall not transfer or assign the interest transferred or assigned to it other than to such Transmission Owner or, the transferee or assignee of such financial institution's interest in the project;
- (c) To any financial institution acting as trustee under a construction trust agreement with the Transmission Owner making the transfer or assignment in the Project; provided that such financial institution shall not transfer or assign the interest transferred or assigned to it other than to such Transmission Owner or the transferee or assignee of such financial institution's interest in the Project.
- (d) To any Person in the electric utility business into which or with which the Transmission Owner making the transfer may be merged or consolidated or to which the Transmission Owner transfers substantially all of its assets;
- (e) To any Person wholly owning, wholly owned by, or wholly owned in common with the Transmission Owner making the transfer;
- (f) To any other Person, provided that the Transmission Owner shall first offer to transfer its interest or any part thereof to the other Transmission Owners, at the amount of, and on terms not less advantageous than, those of a bona fide offer from a buyer able and willing to purchase such Transmission Owner's interest. The portion of such interest to be offered to

each Transmission Owner pursuant to this subsection (f) shall be equal to the proportionate interest of such Transmission Owner in the Transmission System after excluding the interest being offered. The initial offer shall be kept open for a period of 90 days. If, at the end of the 90-day period, any Transmission Owner shall have failed to accept such offer, the proportionate interest offered to such Transmission Owner shall be offered on a pro rata basis to the other Transmission Owners, who shall have a further period of 7 days to accept the same. The process referred to in the immediately preceding sentence shall be repeated until all Transmission Owners then being offered an interest shall have failed to accept such offer.

(g) To any other Person with the written consent of all Transmission Owners.

No transfer or assignment of any interest in the Transmission System or any part thereof pursuant to Sections 28(d), (e), (f) or (g) may be made unless simultaneously the Transmission Owner's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements, which relate to the interest being transferred or assigned. Transfers or assignments shall not relieve any Transmission Owner of any obligation hereunder, except to the extent agreed in writing by all other Transmission Owners. Any attempted or purported transfer made other than in accordance with this Section 28 either voluntarily or by operation of law shall be void and of no effect.

29. Obligations Are Several

The duties, obligations and liabilities of the Transmission Owners hereunder are intended to be several and not joint or collective and no Transmission Owner shall be jointly or severally liable for the acts, omissions, or obligations of any other Transmission Owner. Nothing herein contained shall be construed to create an association, joint venture, partnership, or impose a partnership duty, obligation or liability, among the Transmission Owners. No Transmission Owner shall have a right or power to bind any other Transmission Owner without its express written consent, except as expressly provided in this Agreement.

30. Notices

Any notice, demand or request provided for in this Agreement served, given or made in connection therewith shall be deemed properly served, given or made if given by telephone or in person and confirmed in writing, or if in writing by acknowledged delivery or sent by registered or certified mail, postage prepaid, addressed to the Transmission Owner or Transmission Owners at its or their principal place or places of business to the attention

of the president or chief executive officer of such Transmission Owners. Any Transmission Owner may at any time, and from time to time, change its designation of the person to whom notice shall be given by giving notice to the other Transmission Owners as hereinabove provided.

31. Implementation

Each Transmission Owner shall take such reasonable action (including, but not limited to, the execution, acknowledgment and delivery of documents), as may be requested by any other Transmission Owner for the implementation of this Agreement.

32. Provisions for Additional Facilities; Interconnection

- (a) With the consent of all other Transmission Owners (which consent will not unreasonably be withheld), a Transmission Owner may at its expense make interconnections with the Transmission System. Upon such consent being given, the Transmission Committee shall specify the terms and conditions under which such interconnections may be made and the payments by the interconnecting Transmission Owner, if any, and the distribution or allocation of such payments to the other Transmission Owners.
- (b) Except as otherwise provided in Section 32(a), each Transmission Owner shall have the right at its expense to install and operate on the Transmission System, facilities for its own system; provided, however, that the facilities of any Transmission Owner shall be so installed and operated as not to burden or unreasonably interfere with those of the other Transmission Owners or the Transmission System, the construction on the Transmission System lands of additional Transmission System facilities, or the ultimate full utilization of the land for the Transmission System. In the event that a Transmission Owner proposes to install or operate facilities which would require the relocation of previously installed facilities of another Transmission Owner, or of the Transmission System, but would otherwise meet the requirements of the preceding sentence, the Transmission Owner desiring to install or operate such facilities shall have the right to require such relocation if it bears all direct and indirect costs of such relocation.
- (c) Each of the Transmission Owners releases all other Transmission Owners and their agents and employees from claims to profits, charges, rents, or benefits that may arise from use by any Transmission Owner of Transmission System real property and property rights permitted by this Section 32.

33. Regulatory Approval

It is understood that transfers of property under this Agreement may be subject to the jurisdiction of state or federal

regulatory agencies. Such transfers shall not be effective until all required approvals and all other required action by such agencies having jurisdiction shall have been obtained.

34. Rule Against Perpetuities or Similar or Related Rules

If the duration of any term or condition of this Agreement shall be subject to the rule against perpetuities or a similar or related rule, then the effectiveness of such term or condition shall not extend beyond (i) the maximum period of time permitted under such rule, or (ii) the specific applicable period of time expressed in this Agreement, whichever is shorter. For purposes of applying the rule against perpetuities or a similar or related rule, the measuring lives in being shall be of the officers and directors of Montana shown in its 1980 Annual Report, together with all such listed persons' children, all of whom are living on the date of execution of this Agreement. As used in this paragraph, the word "children" shall have its primary and generally accepted meaning of descendants of the first degree.

35. Termination

At any time after the end of the Project pursuant to Section 31 of the Ownership Agreement, any Transmission Owner, for any cause deemed by it sufficient, may propose termination of this Agreement. In such event, the Transmission Owner proposing termination shall offer to assign all its right, title and interest in and to the Transmission System to the other Transmission Owners, pro rata according to their then Transmission Ownership Percentages. Such other Transmission Owners shall have the right, but not the obligation, to purchase all or any part of such Transmission System at the then-depreciated original cost thereof, less cost of salvage. To the extent such facilities are not purchased by the other Transmission Owners, the Transmission Operator shall sell for removal to the highest bidder all salable parts of the Transmission System which can be removed from service without impairing the efficiency or usefulness of the Transmission System Capacity that each other Transmission Owner is entitled to use. After deducting all costs of such removal, including, without limiting the generality of the foregoing, the cost of meeting all applicable requirements of law, the Transmission Operator shall, if there are net proceeds, distribute to each Transmission Owner whose interest in the Transmission System is being terminated its Transmission Ownership Percentage of said net proceeds.

Upon such removal, this Agreement shall terminate as to those Transmission Owners proposing termination, and such Transmission Owners shall have no right, title or interest in the Transmission System remaining after such removal. If the right, title and interest of Transmission Owner proposing termination are not completely purchased by the other Transmission Owners,

that portion not purchased shall become the property of such other Transmission Owners in proportion to their Transmission Ownership Percentage. If all Transmission System facilities are being removed from service and if the Transmission Operator should determine that they will bring a greater amount at salvage if sold as a unit, including land and structures, than they would if it were dismantled and the salable parts removed and sold, then the Transmission Operator may sell the Transmission System as a unit to the highest bidder. After deducting all costs of ending the Transmission System, including, without limiting the generality of the foregoing, the cost of decommissioning, razing all structures and disposing of the debris and meeting all applicable requirements of law, the Transmission Operator shall, if there are net proceeds, distribute to each Transmission Owner its proportionate share of such proceeds according to its Transmission Ownership Percentage. In the event such costs of ending the Transmission System exceed available funds, each Transmission Owner shall pay its Transmission Ownership Percentage of such excess as incurred.

36. Effective Date; Term

This Agreement shall be effective and binding when executed by Montana, Puget, Water Power, Portland, and Pacific and shall be effective and binding as to Basin Electric only when executed by Basin Electric. This agreement shall continue until terminated pursuant to Section 35.

37. Miscellaneous

- (a) The headings of the clauses of this Agreement are inserted for convenience of reference only and shall not affect the meaning or construction thereof.
- (b) The singular of any term in this Agreement shall encompass the plural and the plural the singular, unless the context otherwise indicates.
- (c) This Agreement shall be construed in accordance with the laws of the State of Montana, except that Section 23 shall be construed in accordance with the laws of the State of Washington.
- (d) This Agreement shall not be amended except by written instrument executed, acknowledged and delivered by all of the Transmission Owners.

١. .

IN WITNESS WHEREOF, the parties hereto have executed this

Agreement in several	counterparts.
	THE MONTANA POWER COMPANY
	By /s/ Melvyn M. Ryan Its Executive Vice President for Administration
Attest:	
/s/ T. O. McElwain Asst. Secretary	
	PUGET SOUND POWER & LIGHT COMPANY
	By /s/ D. H. Knight Its Sr. Vice President
Attest:	
/s/ W. E. Watson Secretary	
	THE WASHINGTON WATER POWER COMPANY
	By /s/ H. W. Harding Its Vice President
Attest:	
/s/ L. O. Falk Asst. Secretary	
	PORTLAND GENERAL ELECTRIC COMPANY
	By /s/ Glen E. Bredemeier Its Vice President
Attest:	
/s/ Warren Hastings Asst. Secretary	·
	-33-

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	PACIFIC POWER & LIGHT COMPANY
	By /s/ R. B. Lisbakken Its Vice President
Attest:	·
/s/ Sally A. Nofziger Asst. Secretary	
	BASIN ELECTRIC POWER COOPERATIVE
	By
Attest:	
Secretary	
	• .
	-34-

STATE OF MONTANA)

COUNTY OF SILVER BOW)

On this 6th day of May, 1981, before me, the undersigned, a Notary Public in and for the State of Montana, personally appeared Melvyn M. Ryan, known to me to be the Executive Vice President for Administration of THE MONTANA POWER COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.

/s/ James Walsh
Notary Public in and for the State of
Montana
Residing at Butte
My Commission expires 6/26/82

STATE OF WASHINGTON)

COUNTY OF KING)

On this 6th day of May, 1981, before me, the undersigned, a Notary Public in and for the State of Washington, personally appeared D. H. Knight, known to me to be the Sr. Vice President of PUGET SOUND POWER & LIGHT COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.

/s/ Jeanette Ragsdale
Notary Public in and for the State of
Washington
Residing at Seattle
My Commission expires August 1, 1981

STATE OF WASHINGTON)

COUNTY OF)

On this 6th day of May, 1981, before me, the undersigned, a Notary Public in and for the State of Washington, personally appeared H. W. Harding, known to me to be the Vice President of THE WASHINGTON WATER POWER COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.

/s/ Lois L. Loveridge
Notary Public in and for the State of
Washington
Residing at Spokane, Washington
My Commission expires October 17, 1982

STATE OF OREGON)
COUNTY OF)

On this 6th day of May, 1981, before me, the undersigned, a Notary Public in and for the State of Oregon, personally appeared Glen E. Bredemeier, known to me to be the Vice President of PORTLAND GENERAL ELECTRIC COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.

/s/ Shirley A. Kushner
Notary Public in and for the State of
Oregon
Residing at Portland, OR
My Commission expires 9/27/84

STATE OF OREGON) ss. county of)
On this 6th day of May, 1981, before me, the undersigned, Notary Public in and for the State of Oregon, personally appeared R. B. Lisbakken, known to me to be the Vice President of PACIFIC POWER AND LIGHT COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.
/s/ Hilda V. Hambach Notary Public in and for the State of Oregon Residing at Portland, OR My Commission expires September 28, 1982
STATE OF NORTH DAKOTA)) ss. COUNTY OF)
On this day of, 198, before me, the undersigned, a Notary Public in and for the State of North Dakota, personally appeared, known to me to be the of BASIN ELECTRIC POWER COOPERATIVE and acknowledged to me that he executed the within instrument on behalf of that corporation. IN WITNESS WHEREOF, I have hereunto set my hand and affixed
my Notarial Seal the day and year in this certificate first above written.
Notary Public in and for the State of North Dakota Residing at My Commission expires

(Exhibit A Colstrip Project Transmission Agreement Revision 1 Dated 8/10/

DESCRIPTION OF TRANSMISSION SYSTEM

The Colstrip Transmission System under this Agreement consists of the following listed facilities constructed and/or reconstructed for transmitting the output of Colstrip Generating Units #1, #2, #3 and #4 from the general vicinity of Colstrip, Montana to the interconnection with Bonneville Power Administration near Townsend, Montana and includes specifically enumerated facilities at various interconnection points with Montana's Transmission System at Colstrip and Broadview, and with the Generating Units at Colstrip.

The transmission line sections listed below are construed to include all poles, towers, tower functions, counterpoise, fixtures, conductors, insulators, overhead ground (shield) wires, fences, roads, trails, real property and property rights, and other appurtenances necessary to construct, operate, and maintain the given transmission line section.

The subsection and switchyards listed below are construed to include all electrical switchgear, transformers, reactors, capacitors, poles, towers, bus structures, bus conductors and insulators, foundations, control houses, relays, batteries, meters and metering equipment, local control devices, ground mats, raceways, wireways, conduits, potential devices, railroad spurs, real property and property rights, and other appurtenances necessary to construct, operate and maintain the given substation or switchyard as that operation pertains to the 500 kV line sections and their intended operation.

The real property and property rights associated with the specific facilities are listed separately in Exhibit "B".

All voltages listed are nominal.

COLSTRIP-BROADVIEW SEGMENT

500 kV Transmission Line Sections

- One overhead 500 kV line, approximately 116 miles long, extending from the Colstrip 500 kV switchyard to the Broadview 500 kV switchyard NW of Billings, Montana.
- One existing overhead 500 kV line, that was previously operated as a double circuit 230 kV line and which was converted to a single circuit 500 kV line, extending approximately 113 miles from the Colstrip 500 kV switchyard to the Broadview 500 kV switchyard NW of Billings, Montana.

Colstri; Project
Transmission Agreement
Revision 1 dated 8/10/89

500 kV Switchwards and Substations

- 3. The Colstrip 500 kV switchyard immediately east of Montana's existing Colstrip 230 kV switchyard and substation, including the following major equipment and associated structures and facilities:
 - 7 500 kV Power Circuit Breakers
 - 2 Banks 500 kV Shunt Line Reactors (approx. 100 Mvar. each)
 - 2 Banks 500/230/34.5 kV, Autotransformers (approx. 300/400/500 Mva. each)
 - 2 230 kV 3 # Disconnect Switches to Interconnect with Montana's Existing 230 kV Bus
 - 2 Banks 34.5 kV Switchable Shunt Reactors for System Voltage Control (approx. 45 Mvar. each)
 - 34.5 kV Station Power Transformers
 - Ground Mat, Excluding Underground Ties to the Plant Ground Mat Conduits to Montana's 230 kV Switchyard Control House and to the Generating Units \$1, \$2, \$3, and \$4 Extending Only
 - to the Generating Units \$1, \$2, \$3, and \$4 Extending Only to the First Hanhole Outside the Switchyard Fence
 - Control Cables to Montana's 230 kV Switchyard Control House, but Excluding Such Cables to the Generating Units \$1, \$2, \$3, and \$4
 - Fencing, Except Immediately Adjacent to Montana's Existing 230 kV Switchyard
 - 1 Control House, including Supervisory Control, Telemetering, Relaying and Other Equipment and Devices therein
 - 1 Emergency Internal Combustion Generator Set
- A portion of the Broadview 500 kV switchyard immediately north of Montana's existing Broadview 230 kV switchyard and substation, including the following major equipment and associated structures and facilities related to the Colstrip-Broadview 500 kV lines and the Broadview 500/230/34.5 kV Autotransformers:
 - All 500 kV Transmission Line Relays
 - 2 Banks 500 kV Shunt Line Reactor (approx. 100 Myar. each), including relays
 - 2 Banks 500 kV Series Capacitors, including relays
 - 1 Bank 34.5 kV Switchable Shunt Reactors for System Voltage Control (approx. 90 Mvar.), including relays
 - * 1/3 of 2 Banks 500/230/34.5 kV Autotransformers (approx. 360/480/600 Mva. each), including relays

EXUIDI Colstrip Project Transmission Agreement Revision 1 dated 8/10/89

** 7/18 of the following Common Facilities:

7 - 500 kV Power Circuit Breakers and 500 kV Buswork 230 kV Buswork to Interconnect at Two Existing Disconnect Switches in Montana's 230 kV Bus

2 - 34.5 kV Station Power Transformers

Fencing, Except Immediately Adjacent to Montana's Existing 230 kV Switchyard

1 - Switchyard Control House

1 - Warehouse

- 1 Emergency Internal Combustion Generation Set Supervisory Control, Telemetering, Relaying and Other Equipment and Devices in the Control House which are . Directly Related to the Common Facilities Listed Rerein
- Not including 2/3 owned exclusively by Montana
- ** Not Including 2/9 owned exclusively by Montana
- *** Allocations of Common Facilities are based on the following:

1st level - between line positions and transformer positions: 2/6 to transformers and 4/6 to lines

2nd level - between Transmission System and Montana: Transformers: 1/3 to Transmission System and 2/3 to Montana Lines : 100% to Transmission System and 0% to Montana

3rd level - between Segments:

Transmission System: 1/2 to Colstrip-Broadview Segment and 1/2 to Broadview-Townsend Segment

Allocation to Colstrip-Broadview Segment of Transmission System is therefore:

 $1/2 (1 \times 4/6 + 1/3 \times 2/6) = 7/18$

ERDADVIEW-TOWNSEND SEGMENT

500 kV Transmission Line Sections

Two overhead 500 kV lines, each approximately 133 miles long, extending from the Broadview 500 kV switchyard to the interconnection point with Bonneville Power Administration's 500 kV double-circuit line near Townsend, Montana.

500 kV Switchwards and Substations

A portion of the Broadview 500 kV switchyard immediately north of Montana's existing Broadview 230 kV switchyard and substation including the following major equipment and associated structures and facilities related to the Broadview-Townsend 500 kV lines:

Exhibi A Colstrib Project

Transmission Agreement Revision 1 dated 8/10/39

All 500 kV Transmission Line Relays

2 Banks - 500 kV Shunt Line Reactors (approx. 225 Myar. (each)) including relays

2 - Neutral Reactors for Single Pole Switching, including relays

1 Bank - 34.5 kV Switchable Shunt Reactors for System Voltage Control (approx. 90 Hvar.), including relays

** 7/18 of the following Common Facilities:.

7 - 500 kV Power Circuit Breakers and 500 kV Buswork
230 kV Buswork to Interconnect at Two Existing Disconnect Switches in Montana's 230 kV Bus

2 - 34.5 kV Station Power Transformers Fencing, Except Immediately Adjacent to Montana's

Existing 230 kV Switchyard 1 - Switchyard Control House

1 - Warehouse

1 - Emergency Internal Combustion Generation Set
Supervisory Control, Telemetering, Relaying and Other
Equipment and Devices in the Control Educe which
are Directly Related to the Common Facilities Listed
Herein

** Not including 2/9 owned exclusively by Montana

**** Allocations of Common Facilities are based on the following:

1st level - between line positions and transformer positions: 2/6 to transformers and 4/6 to lines

2nd level - between Transmission System and Montana:
Transformers: 1/3 to Transmission System and 2/3 to Montana
Lines : 100% to Transmission System and C% to Montana

3rd level - between Segments:
Transmission System: 1/2 to Colstrip-Broadview Segment and
1/2 to Broadview-Townsend Segment

Allocation to Broadview-Townsend Segment of Transmission System is therefore:

 $1/2 (1 \times 4/6 + 1/3 \times 2/6) = 7/18$

Page 1 of.
Exhibit A
Colstrip Project Transmission
 Agreement

DESCRIPTION OF TRANSMISSION SYSTEM

The Colstrip Transmission System under this Agreement will consist of the following listed facilities to be constructed and/or reconstructed for transmitting the output of Colstrip Generating Units #'s 1, 2, 3 and 4 from the general vicinity of Colstrip, Montana to the interconnection with Bonneville Power Administration near Townsend, Montana, and including specifically enumerated facilities at various interconnection points with Montana's Transmission System at Colstrip and Broadview, and with the Generating Units at Colstrip.

The transmission line sections listed below are construed to include all poles, towers, tower foundations, counterpoise, fixtures, conductors, insulators, overhead ground (shield) wires, fences, roads, trails, real property and property rights, and other appurtenances necessary to construct, operate, and maintain the given transmission line section.

The substation and switchyards listed below are construed to include all electrical switchgear, transformers, reactors, capacitors, poles, towers, bus structures, bus conductors and insulators, foundations, control houses, relays, batteries, meters and metering equipment, local control devices, ground mats, raceways, wireways, conduits, potential devices, railroad spurs, real property and property rights, and other appurtenances necessary to construct, operate and maintain the given substation or switchyard as that operation pertains to the 500 kV line sections and their intended operation.

The real property and property rights associated with the specific facilities are listed separately in Exhibit "B."

All voltages listed are nominal.

COLSTRIP-BROADVIEW SEGMENT

500 kV Transmission Line Sections

- 1. One overhead 500 kV line, approximately 116 miles long, extending from the Colstrip 500 kV switchyard to the Broadview 500 kV switchyard NW of Billings, Montana.
- One existing overhead 500 kV line, currently operating as a double circuit 230 kV line and which will be converted to a single circuit 500 kV line, extending approximately 113 miles from the Colstrip 500 kV switchyard to the Broadview 500 kV switchyard NW of Billings, Montana.

Page 2 of Exhibit A Colstrip Project Transmission Agreement

500 kV Switchyards and Substations

- 3. The Colstrip 500 kV switchyard immediately east of Montana's existing Colstrip 230 kV switchyard and substation, including the following major equipment and associated structures and facilities:
 - 7 500 kV Power Circuit Breakers
 - 2 Banks 500 kV Shunt Line Reactors (approx. 100 Mvar. each)
 - 2 Banks 500/230/34.5 kV, Autotransformers (approx. 300/400/500 Mva. each)
 - 2 230 kV 3 Ø Disconnect Switches to Interconnect with Montana's Existing 230 kV Bus
 - 2 Banks 34.5 kV Switchable Shunt Reactors for System Voltage Control (approx. 45 Mvar. each)
 - 34.5 kV Station Power Transformers
 - Ground Mat, Excluding Underground Ties to the Plant Ground Mat
 - Conduits to Montana's 230 kV Switchyard Control House and to the Generating Units #'s 1, 2, 3, and 4 Extending Only to the First Manhole Outside the Switchyard Fence
 - Control Cables to Montana's 230 kV Switchyard Control House, but Excluding Such Cables to the Generating Units #'s 1, 2, 3 and 4
 - Fencing, Except Immediately Adjacent to Montana's Existing 230 kV Switchyard
 - 1 Control House, including Supervisory Control, Telemetering, Relaying and Other Equipment and Devices therein.
 - 1 Emergency Internal Combustion Generator Set
- 4. A portion of the Broadview 500 kV switchyard immediately north of Montana's existing Broadview 230 kV switchyard and substation, including the following major equipment and associated structures and facilities related to the Colstrip-Broadview 500 kV lines and the Broadview 500/230/34.5 kV autotransformers:
 - All 500 kV Transmission Line Relays
 - 2 Banks 500 kV Shunt Line Reactor (approx. 100 Mvar. each),
 including relays
 - 2 Banks 500 kV Series Capacitors, including relays
 - 1 Bank 34.5 kV Switchable Shunt Reactors for System Voltage Control (approx. 90 Mvar.), including relays
 - * 1/3 of 2 Banks 500/230/34.5 kV Autotransformers (approx. 360/480/600 Mva. each), including relays

Page 3 of
Exhibit A
Colstrip Project Transmission
Agreement

** 7/18 of the following common facilities:

*** 7 - 500 kV Power Circuit Breakers and 500 kV Buswork 230 kV Buswork to Interconnect at Two Existing Disconnect Switches in Montana's 230 kV Bus

2 - 34.5 kV Station Power Transformers

Fencing, Except Immediately Adjacent to Montana's Existing 230 kV Switchyard

1 - Switchyard Control House

1 - Warehouse

1 - Emergency Internal Combustion Generation Set

Supervisory Control, Telemetering, Relaying and Other Equipment and Devices in the Control House which are Directly Related to the Common Facilities Listed Herein

- * Not including 2/3 owned exclusively by Montana
- ** Not including 2/9 owned exclusively by Montana
- *** Allocations of common facilities are based on the following:

2/3 to 4 - 500 kV Lines, allocated to the Transmission System 1/3 to 2 - 500/230/34.5 Autotransformers

1/3 of Autotransformer allocation to the Transmission System

1/2 of Transmission System Allocation to Colstrip-Broadview Segment.

 $7/18 = 1/2 (2/3 + 1/3 \times 1/3)$

BROADVIEW-TOWNSEND SEGMENT

500 kV Transmission Line Sections

 Two overhead 500 kV lines, each approximately 133 miles long, extending from the Broadview 500 kV switchyard to the interconnection point with Bonneville Power Administration's 500 kV double-circuit line near Townsend, Montana.

500 kv Switchyards and Substations

2. A portion of the Broadview 500 kV switchyard immediately north of Montana's existing Broadview 230 kV switchyard and substation including the following major equipment and associated structures and facilities related to the Broadview-Townsend 500 kV lines:

Page 4 or Exhibit A Colstrip Project Transmission Agreement

All 500 kV Transmission Line Relays

2 Banks - 500 kV Shunt Line Reactors (approx. 225 Mvar. (each)) including relays

2 - Neutral Reactors for Single Pole Switching, including relays

1 Bank - 34.5 kV Switchable Shunt Reactors for System Voltage Control (approx. 90 Mvar.), including relays

* 7/18 of the following common facilities:

7 - 500 kV Power Circuit Breakers and 500 kV Buswork 230 kV Buswork to Interconnect at Two Existing Disconnect Switches in Montana's 230 kV Bus

2 - 34.5 kV Station Power Transformers

Fencing, Except Immediately Adjacent to Montana's Existing 230 kV Switchyard

1 - Switchyard Control House

1 - Warehouse

1 - Emergency Internal Combustion Generation Set

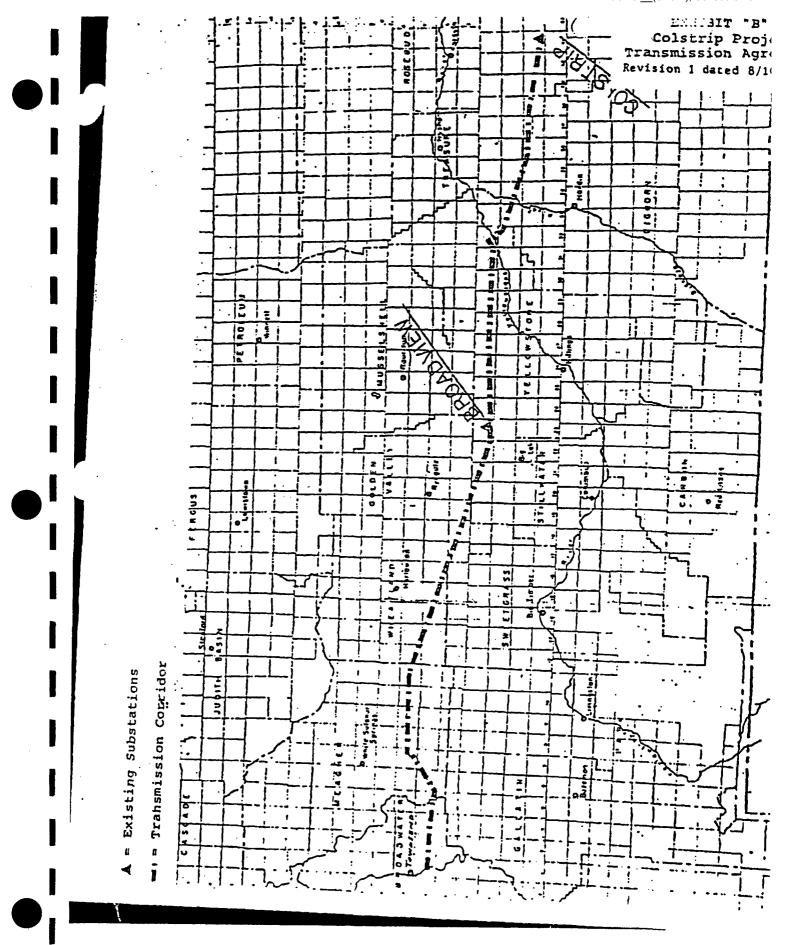
Supervisory Control, Telemetering, Relaying and Other Equipment and Devices in the Control House which are Directly Related to the Common Facilities Listed Herein

* Allocations of common facilities are based on the following: 2/3 to 4 - 500 kV Lines, allocated to the Transmission System 1/3 to 2 - 500/230/34.5 Autotransformers

1/3 of Autotransformer allocation to the Transmission System

1/2 of Transmission System allocation to Broadview-Townsend Segment.

 $7/18 = 1/2 (2/3 + 1/3 \times 1/3)$



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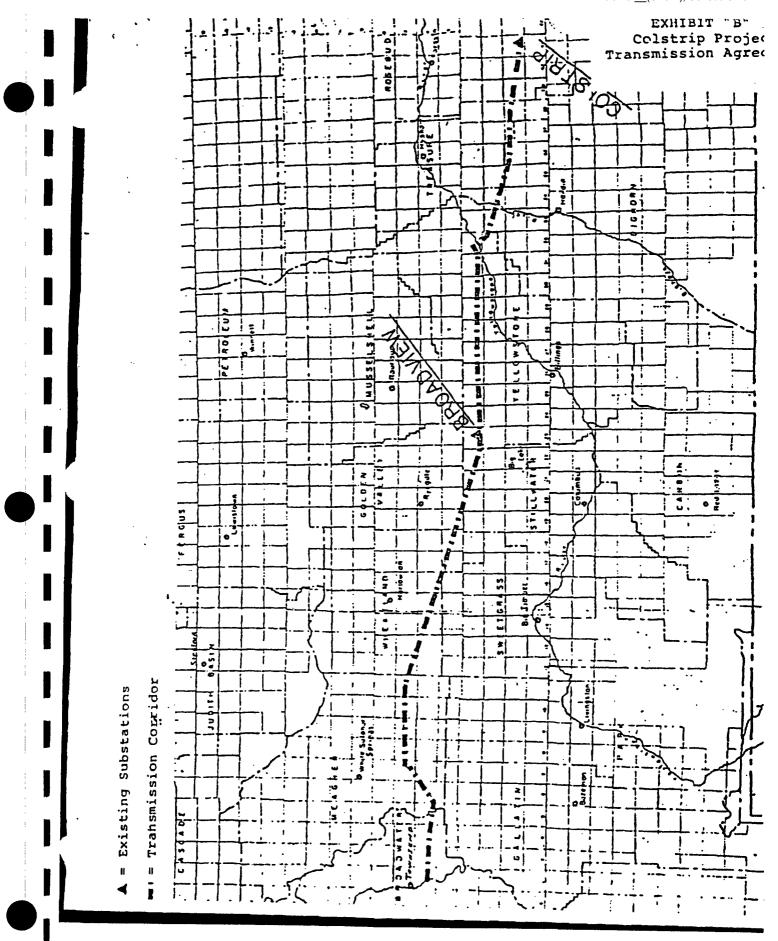
REAL ESTATE

(1) The Broadview Switchward is located on the following real property:

A tract of land situated in Section 34, Township 4 North, Range 23 East, P.M.M., being Tract B of Certificate of Survey No. 1520 Amended, as filed with the Clerk and Recorder of Yellowstone County, Montana, and containing 90.55 acres, more or less.

(2) The Colstrip Switchvard is located on the following real property:

A tract of land situated in the SE 1/4 of Section 27, Township 2 North, Range 41 East, P.M.M., being Tract 1 of Certificate of Survey No. 35013, as filed with the Clerk and Recorder of Rosebud County, Montana, and containing 30.647 acres, more or less.



Page 1 of .
Exhibit B
. Colstrip Project Transmission
Agreement

THE BROADVIEW SWITCHYARD

A tract of land situated in Section 34, Township 4 North, Range 23 East, P.M.M., being Tract B of Certificate of Survey No. 1520 Amended, and described as follows:

Beginning at the North corner of said Certificate of Survey, also being a point on the southwesterly right-of-way line of the Burlington Northern Railroad; thence, 1st Course, along said right-of-way line, S. 41°49'56" E., 2,961.03 feet; thence, N. 86°47'58" W., 4,087.32 feet; thence, N. 00°10'33" E., 834.12 feet; thence, S. 89°49'27" E., 2,100.00 feet; thence, N. 00°10'33" E., 1,150.40 feet to the point of beginning and containing in all 90.55 acres, more or less.

Page 1 of C Exhibit C Colstrip Project Transmission Agreement

CRITERIA FOR CAPACITY DETERMINATIONS

Transmission Capacity determinations under Section 8 of this Agreement were made initially in accordance with the following procedures and criteria. Subsequent determinations, when necessary, will be made in accordance with the same procedures and criteria unless agreed otherwise by the Committee.

Procedures:

- 1. Transmission Operator will make the determinations or arrange to have them made at the request of the Committee.
- Determinations will be made by stressed system and forced flow computer simulations of the operation of appropriate portions of the interconnected network.
- The simulations and resulting determinations of transmission capacity will be submitted to the Committee for review and concurrence.
- 4. Determinations will be made for both the Colstrip-Broadview Segment and the Broadview-Garrison (Broadview-Townsend) Segment of:
 - (a) the Transmission System;
 - (b) Montana's Transmission System; and
 - (c) the integrated combination of the two Systems (Integrated System).
- 5. Determinations will be made for normal systems with all facilities in service.
- 6. Changes by the Committee in these procedures or criteria or changes in the system capacities because of future developments, additions or changed conditions will be recorded in appropriate amendments to this Exhibit C.

Criteria:

- 1. Simulations to determine separate capacities of the Transmission System and of Montana's Transmission System will be performed with the two Systems isolated from each other east of Garrison insofar as is practical.
- Transmission capacities for each System (i.e., the Transmission System, Montana's Transmission System and the Integrated

Page 2 of
Exhibit C
Colstrip Project Transmission
Agreement

System) in each segment will be determined by stressing only the system and segment being tested in a manner as agreed by the Committee.

3. For the normal system determination (all facilities in service), tests of performance will be made by simulating line faults on the System being tested that cause the most severe disturbance. Satisfactory performance will be such that the System remains stable with normal clearing of the fault and the first post-fault voltage swing on any load bus in the interconnection remains at or above 80% of the nominal voltage. Generator unit dropping may be used in cases of certain three-phase faults to meet these criteria.

Initial Capacity Determinations and Allocations:

The parties, on the basis of several simulations performed to date of the Systems as they are projected to exist upon the initial commercial operation of Colstrip Units #3 and #4, have agreed upon initial allocations of the Integrated System Capacity in the following percentages:

	Townsend (Garrison) Segment
87% 13%	75 % <u>25%</u> 100%
	87%

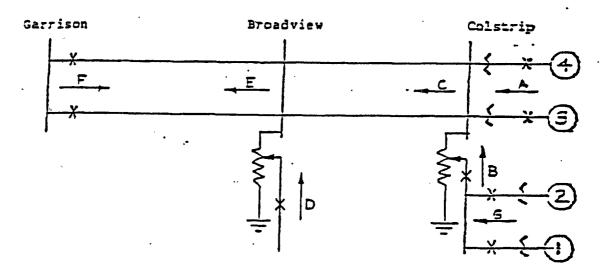
The Integrated System Capacity has been determined as follows, subject to further study and review by the Committee in accordance with the above procedures and criteria. The above percentage allocations will be applied to the Integrated System Capacity and will serve as the basis for the initial ratchet of Section 8(b).

	Colstrip- Broadview Segment	Broadview- Townsend Segment
Integrated System Transmission Capacity	2,598 MW	2,573 MW

P. e 1 of 4
Exhibit D
Colstrip Project
Transmission Agreement
Revision 1 dated 8/10/89

LOSS DETERMINATION AND ALLOCATIONS

Loss calculations and allocations pursuant to Section II will be done not less often than once each hour in accordance with the following procedures:



DEFINITIONS AND NOMENCLATURE

- X = Metering points (arrow indicates positive direction of flow)
- A = Metered power flow into Colstrip #3 & #4 step-up transformers
- B = Metered power flow into Colstrip 500/230 kV autotransformers
- C = Calculated power flow into Colstrip-Broadview 500 kV lines at Colstrip
- D = Metered power flow into Broadview 500/230 kV autotransformers
- E = Calculated power flow into Broadview-Garrison 500 kV lines at Broadview
- F = Metered power flow into Broadview-Garrison 500 kV lines at Garrison
- G = Metered power flow from Colstrip #1 & #2 step-up transformers
- LT = Total losses to be allocated = A + B + D + F

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Colstrip Project
Transmission Agreement
Revision 1 dated 8/10/89

- LA = Calculated losses in Colstrip #3 & #4 step-up transformers
- L3 = Calculated losses in Colstrip 500/230 kV autotransformers
- LC = Calculated losses in Colstrip-Broadview 500 kV limes

1.

- LD = Calculated losses in Broadview 500/230 kV autotransformers
- LE = Calculated losses in Broadview-Garrison 500 kV lines
- LW = Losses on all schedules using Transmission System Surplus
 Capacity and losses on all schedules for Persons other than
 the Transmission Owner providing the transmission capacity.
 Such losses will be determined as 5% of such schedules.
 Such percentage may be revised by a vote of the Transmission
 Committee members representing at least 85% of the total
 Requirement Shares of each Segment.

INITIAL CALCULATION OF LOSSES (Indicated by subscript I):

 $LA_{I} = f(|A|)$, where f(|A|) means a function of |A|, and |A| means the absolute value of A

 $LB_{I} = f(|B|)$

 $LC_I = f(|C_I|)$, where $|C_I| = |A + B - LA_I - LB_I|$

 $LD_{I} = f(|D|)$

 $LE_{I} = f(|F|)$, where metered power flow F is used rather than calculated power flow E.

The Transmission Committee shall determine the appropriate functions f(|A|), f(|B|), $f(|C_1|)$, f(|D|), and f(|F|), to represent losses on those facilities. These functions may include relationships of voltage, current, var flow and other appropriate constants and variables.

LT_I = LA_I + LB_I + LC_I + LD_I + LE_I

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ALLOCATION OF CALCULATION AND METERING ERROR AND OF LK:

- $LA = LA_{I} \times (LT/LT_{I}) (LT-LW)/LT = LA_{I} \times (LT-LW)/LT_{I}$
 - = LAI x (Allocation Factor), where (LT LW)/LTI = Allocation Factor
- $L3 = L3_{I} \times (Allocation Factor)$
- LC = LCI x (Allocation Factor)
- LD = LDI x (Allocation Factor)
- II = III x (Allocation Factor)
- As a check, the following should balance within 2 kilowatt hours:

LA + LB + LC + LD + LE + LW = A + B + D + F

ALLOCATION AMONG USERS WHERE SUBSCRIPT (N) REFERS TO:

K = 1 = Montana 4 = NWP

7 - Puget 5 = Pacific

3 = P@ - 6 = Bonneville

All schedules among the parties for replacement or return of losses will be excluded in the following calculation:

 $\lambda_{\rm R}$ = K's share of power flow at A) These shares of generation are) not considered to be "schedules

) of power flow" in the following

Gy = K's share of power flow at G) four equations.

EWn = R's schedules of power flow at B subject to assessment cf LW losses

EBy = N's total schedules of power flow at B less BWN

 $DW_N = K's$ schedules of power flow at D subject to assessment of LW losses

 $ED_N = R's$ total schedules of power flow at D less DW_N

F2 = G2 +5B2

 $\Xi_{\rm H}$ = SB_N for N = 3, 4, 5, 6

- B - B₂ - B₃ - B₄ - B₅ - B₆ - ≥ BN_N. *

LB1 = |B1 | x (LB/ E |BN|)

*If B1<0 and $|B_1| \le (A_1 - LA_1 - LB_1)$, then $C_1 = A_1 + B_1 - LA_1 - LB_1$ *If B1<0 and $|B_1| > (A_1 - LA_1 - LB_1)$, then $C_1 = 0$

*If $B_{1 \geq 0}$, then $\bar{C}_1 = \bar{A}_1 + \bar{B}_1 - LA_1 - LB_1$

Lansmission As generat Revision 1 dated 8/10/89

$$C_{N} = \lambda_{N} + E_{N} - L\lambda_{N} - LB_{N} \text{ for } N = 2, 3, 4, 5, 6$$

$$D_{N} = SD_{N} \text{ for } N = 2, 3, 4, 5, 6$$

$$D_{1} = D - D_{2} - D_{3} - D_{4} - D_{5} - D_{6} - \sum_{i}^{2} DN_{N} **$$

$$LD_{1} = |D_{1}| \times (LD/\sum_{i}^{2} |D_{N}|)$$
**If $D_{1} < 0$ and $|D_{1}| \le (C_{1} - LC_{1} - LD_{1})$, then $E_{1} = C_{1} + D_{1} - LC_{1} - LD_{1}$
**If $D_{1} < 0$ and $|D_{1}| > (C_{1} - LC_{1} - LD_{1})$, then $E_{1} = 0$
**If $D_{1} < 0$, then $E_{1} = C_{1} + D_{1} - LC_{1} - LD_{1}$

$$E_{N} = C_{N} + D_{N} - LC_{N} - LD_{N} \text{ for } N = 2, 3, 4, 5, 6$$

$$L\lambda_{N} = |\lambda_{N}| \times (L\lambda_{N} + \sum_{i}^{2} |\lambda_{N}|) = L\lambda_{N} \times |\lambda_{N}| / \sum_{i}^{2} |\lambda_{N}|$$

$$LB_{N} = |\lambda_{N}| \times (L\lambda_{N} + \sum_{i}^{2} |a_{N}|) = L\lambda_{N} \times |a_{N}| / \sum_{i}^{2} |a_{N}|$$

$$LC_{N} = |C_{N}| \times (LC_{N} + \sum_{i}^{2} |C_{N}|) = LC_{N} \times |c_{N}| / \sum_{i}^{2} |c_{N}|$$

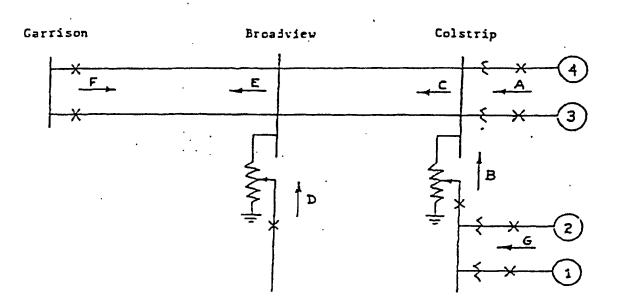
$$LD_{N} = |D_{N}| \times (LD_{N} + \sum_{i}^{2} |C_{N}|) = LC_{N} \times |c_{N}| / \sum_{i}^{2} |D_{N}|$$

$$LE_{N} = |E_{N}| \times (LC_{N} + \sum_{i}^{2} |E_{N}|) = LC_{N} \times |E_{N}| / \sum_{i}^{2} |E_{N}|$$
As a check, the following should balance within 2 kilowatt hours:

Exhibit D
Colstrip Project
Transmission Agreemen

LOSS DETERMINATION AND ALLOCATIONS

Loss calculations and allocations pursuant to Section 10 will be done not less often than once each hour in accordance with the following procedures:



DEFINITIONS AND NOMENCLATURE

- X = Metering points (arrow indicates positive direction of flow)
- A = Metered power flow into Colstrip 3 & 4 step-up transformers
- B = Metered power flow into Colstrip 500/230 kV auto-transformers
- C = Calculated power flow into Colstrip-Broadview 500 kV lines at Colstrip
- D = Metered power flow into Broadview 500/230 kV auto-transformers
- E = Calculated power flow into Broadview-Garrison 500 kV lines at Broadview
- F = Metered power flow into Broadview-Garrison 500 kV lines at Garrison
- G = Metered power flow into Colstrip 1 & 2 step-up transformers
- LT = Total losses to be allocated = A + B + D + F

Exhibit D Colstrip Project Transmission Agreement

- LA = Calculated losses in Colstrip 3 & 4 step-up transformers
- LB = Calculated losses in Colstrip 500/230 kV auto transformers
- LC = Calculated losses in Colstrip-Broadview 500 kV lines
- LD = Calculated losses in Broadview 500/230 kV auto-transformers
- LE = Calculated losses in Broadview-Garrison 500 kV lines
- LG = Calculated losses in Colstrip 1 & 2 step-up transformers = f(IGI)
- IW = Losses on all schedules using Transmission System Surplus Capacity and losses on all schedules for Persons other than the Transmission Owner providing the transmission capacity. Such losses will be determined as 5% of such schedules. Such percentage may be revised by a vote of the Transmission Committee members representing at least 85% of the total Requirement Shares of each Segment.

INITIAL CALCULATION OF LOSSES (Indicated by subscript I):

 $LA_{I} = f(IAI)$, where f (IAI) means a function of IAI, and IAI means the absolute value of A

 $LB_{I} = f(lBl)$

 $LC_{I} = f(|C_{I}|)$, where $|C_{I}| = |A + B - LA_{I} - LB_{I}|$

 $LD_{I} = f(IDI)$

 $LE_{I} = f(IFI)$, where metered power flow F is used rather than calculated power flow E.

The Transmission Committee shall determine the appropriate functions f(|A|), f(|B|), $f(|C_I|)$, f(|D|), f(|F|), and f(|G|) to represent losses on those facilities. These functions may include relationships of voltage, current, var flow and other appropriate constants and variables.

 $LT_{I} = LA_{I} + LB_{I} + LC_{I} + LD_{I} + LE_{I}$

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ALLOCATION OF CALCULATION AND METERING ERROR AND OF LY:

 $LA = LA_{I} \times (LT/LT_{I})(LT-IM)/LT = LA_{I} \times (LT-IM)/LT_{I}$

= LA_I x (Allocation Factor), where (LT - LW)/LT_I = Allocation Factor

LB = LB_I x (Allocation Factor)

LC = LC_T x (Allocation Factor)

 $LD = LD_T \times (Allocation Factor)$

LE = LE_T x (Allocation Factor)

As a check, the following should balance within 2 kilowatthours:

LA + LB + LC + LD + LE + DV. = A + B + D + F

ALLOCATION AMONG USERS WHERE SUBSCRIPT (N) REFERS TO:

N = 1 = Montana5 = Pacific

6 = Basin Electric 2 = Puget

3 = PGE7 = Bonneville

4 = WWP

All schedules among the parties for replacement or return of losses will be excluded in the following calculation.

 $A_N = N$'s share of power flow at A γ These shares of generation are not considered to be "schedules of power $G_N = N$'s share of power flow at GJ flow" in the following four lines.

 $BW_N = N^*s$ schedules of power flow at B subject to assessment of LW losses

 $SB_N = N$'s total schedules of power flow at B less BW_N

 $DW_N = N$'s schedules of power flow at D subject to assessment of LW losses

 $SD_N = N's$ total schedules of power flow at D less DN_N

 $B_2 = G_2 - LG_2 + SB_2$, where $LG_2 = LG \times G_2/G$

 $B_N = SB_N$ for N = 3, 4, 5, 6, 7

 $B_1 = B - B_2 - B_3 - B_4 - B_5 - B_6 - B_7 - \Sigma_1 BWN *$ $LB_1 = |B_1| \times (LB/\Sigma_1' |B_N|)$

* If $B_1 < 0$ and $|B_1| \le (A_1 - LA_1 - LB_1)$, then $C_1 = A_1 + B_1 - LA_1 - LB_1$ * If $B_1 < 0$ and $|B_1| > (A_1 - LA_1 - LB_1)$, then $C_1 = 0$

* If $B_1 \ge 0$, then $C_1 = A_1 + B_1 - LA_1 - LB_1$

Colstrip Project
Transmission Agreement

$$C_{N} = A_{N} + B_{N} - LA_{N} - LB_{N} \text{ for } N = 2, 3, 4, 5, 6, 7$$

$$D_{N} = SD_{N} \text{ for } N = 2, 3, 4, 5, 6, 7$$

$$D_{1} = D - D_{2} - D_{3} - D_{4} - D_{5} - D_{6} - D_{7} - \sum_{1}^{7} DW_{N} **$$

$$LD_{1} = LD_{1} \times (LD/\sum_{1}^{7} |D_{N}|)$$

$$** \text{ If } D_{1} < 0 \text{ and } |D_{1}| \le (C_{1} - LC_{1} - LD_{1}), \text{ then } E_{1} = C_{1} + D_{1} - LC_{1} - LD_{1}$$

$$** \text{ If } D_{1} < 0 \text{ and } |D_{1}| > (C_{1} - LC_{1} - LD_{1}), \text{ then } E_{1} = 0$$

$$** \text{ If } D_{1} \ge 0, \text{ then } E_{1} = C_{1} + D_{1} - LC_{1} - LD_{1}$$

$$E_{N} = C_{N} + D_{N} - LC_{N} - LD_{N} \text{ for } N = 2, 3, 4, 5, 6, 7$$

$$\begin{split} \text{LA}_N &= |\mathsf{A}_N| \times \ (\mathsf{LA}/\Sigma_1^7 |\mathsf{A}_N|) = \mathsf{LA} \times |\mathsf{A}_N|/\Sigma_1^7 |\mathsf{A}_N| \\ \text{LB}_N &= |\mathsf{B}_N| \times \ (\mathsf{LB}/\Sigma_1^7 |\mathsf{B}_N|) = \mathsf{LB} \times |\mathsf{B}_N|/\Sigma_1^7 |\mathsf{B}_N| \\ \text{LC}_N &= |\mathsf{C}_N| \times \ (\mathsf{LC}/\Sigma_1^7 |\mathsf{C}_N|) = \mathsf{LC} \times |\mathsf{C}_N|/\Sigma_1^7 |\mathsf{C}_N| \\ \text{LD}_N &= |\mathsf{D}_N| \times \ (\mathsf{LD}/\Sigma_1^7 |\mathsf{D}_N|) = \mathsf{LD} \times |\mathsf{D}_N|/\Sigma_1^7 |\mathsf{D}_N| \\ \text{LE}_N &= |\mathsf{E}_N| \times \ (\mathsf{LE}/\Sigma_1^7 |\mathsf{E}_N|) = \mathsf{LE} \times |\mathsf{E}_N|/\Sigma_1^7 |\mathsf{D}_N| \\ \text{LN} &= \mathsf{LA}_N + \mathsf{LB}_N + \mathsf{LC}_N + \mathsf{LD}_N + \mathsf{LE}_N \\ \text{As a check, the following should balance within 2 kilowatthours:} \\ \text{LW} &+ \Sigma_1^7 \ \mathsf{L}_N = \mathsf{A} + \mathsf{B} + \mathsf{D} + \mathsf{F} \end{split}$$

Page 1 of 1
Exhibit E
Colstrip Project Transmission
Agreement

ADMINISTRATIVE AND GENERAL

As a reimbursement for general office electric system administrative and general expenses and related employee benefit costs indirectly applicable to the Transmission System, but not charged thereto, Transmission Operator will charge monthly to Transmission System Costs of Construction or Costs of Transmission System Operation, as appropriate, a percentage ("Percentage Rate") of labor costs provided for in Sections 14(b) and 14(c) and in. Sections 17(a) and 17 (b) hereof, incurred by the Transmission Operator during the current month, which labor costs include a loading rate to cover pay for the time not worked, such as vacation, holiday and sick leave. The applicable Percentage Rate shall be determined annually by the Transmission Committee and shall be based upon Transmission Operator's actual costs incurred during the previous year. The applicable Percentage Rate shall be a fraction the numerator of which is the sum of Transmission general Operator's annual (i) administrative and recorded to FERC Account 920, (ii) office supplies and expenses recorded in FERC Account 921, and (iii) an appropriate provision for employee pensions and benefits recorded in FERC Account 926 which relate to administrative and general salaries recorded in FERC Account 920, and the denominator of which Transmission Operator's is (i) total annual electric system labor costs such Transmission Operator's payroll charged to construction, retirements and clearing accounts, and (ii) Transmission Operator's labor costs billed to persons under other agreements to manage and operate joint projects.

TRANS4DD

AMENDMENT NO. 1 TO COLSTRIP PROJECT TRANSMISSION AGREEMENT

15

This Amendment No. 1 to the Colstrip Project Transmission Agreement (Transmission Agreement) is entered into <u>February 14 1990</u> by THE MONTANA POWER COMPANY, PUGET SOUND POWER & LIGHT COMPANY, THE WASHINGTON WATER POWER COMPANY, PORTLAND GENERAL ELECTRIC COMPANY, and PACIFICORP.

RECITALS:

WHEREAS, the parties to the Colstrip Project Transmission Agreement, dated May 6, 1981, recognize that Basin Electric has not been a participant in the Colstrip Units #3 and #4 Steam Electric Generating Project and related facilities; and

WHEREAS, the parties to the Transmission Agreement identify the need for minor corrections to the Transmission Agreement.

NOW, THEREFORE, the parties hereto mutually agree to amend the Transmission Agreement as follows, where all terms defined in the Transmission Agreement shall have the same meanings when used in this Amendment No. 1:

(a) The first paragraph of page 1 is deleted and the following paragraph is inserted in lieu thereof:

"This Agreement is made as of the 6th day of May, 1981, by and between THE MONTANA POWER COMPANY, a Montana corporation ("Montana") and PUGET SOUND POWER & LIGHT COMPANY, a Washington corporation ("Puget") and THE WASHINGTON WATER POWER COMPANY, a Washington corporation ("Water Power"), PORTLAND GENERAL ELECTRIC COMPANY, an Oregon corporation ("Portland") and PACIFIC POWER & LIGHT COMPANY, a Maine corporation ("Pacific"):"

- (b) Subsection 2(j) is deleted and the following subsection is inserted in lieu thereof:
 - (j) "Requirements Capacity" means capacity in the Transmission System for each Owner as follows:

Colstrip - Broadview Segment ("C-B Segment"), as described in Exhibits A and B hereto:

Montana	822.8 MW
Puget	746.0 MW
Portland	307.2 MW
Water Power	230.4 MW
Pacific '	153.6 MW

Broadview - Townsend Segment ("B-T Segment"), as described in Exhibits A and B hereto:

Montana 468.5 MW
Puget 758.6 MW
Portland 312.4 MW
Water Power 234.3 MW
Pacific 156.2 MW

- (c) Subsection 2(o) is deleted and the following subsection is inserted in lieu thereof:
 - (o) "Transmission Owners" means Montana, Puget, Water Power, Portland and Pacific and shall include their successors and assigns of an ownership interest in the Transmission System or any part thereof."
- (d) Subsection 7(f) is deleted and the following subsection is inserted in lieu thereof;
 - (f) Transmission Operator shall interrupt, curtail or otherwise restrict schedules through the Broadview Substation 500/230 kV transformers, described in Exhibit "A", to the extent required by Montana to transmit 822.8 MW of its power through said transformers."
- (e) The first sentence of Subsection 19 (a) is deleted and the following sentence is inserted in lieu thereof:

"The Operator designated by the Ownership Agreement has established pursuant to Section II thereof a separate trust account ("Operation Trust Account") in a bank located in the State of Montana and having qualifications meeting all requirements imposed upon depositories for any of the Transmission Owners."

(f) The second sentence of Subsection 22(a) is deleted and the following sentence is inserted in lieu thereof:

"The Transmission Committee shall be composed of five (5) members."

(g) Section 35 is deleted and replaced by the following:

"This Agreement shall be effective and binding when executed by Montana, Puget, Water Power, Portland, and Pacific. This Agreement shall continue until terminated pursuant to Section 35."

- (h) Exhibit A, attached to this Amendment No. 1, is substituted for Exhibit A referenced in Subsection 2(p) of the Transmission Agreement.
- (i) Exhibit B, attached to this Amendment No. 1, is substituted for Exhibit B referenced in Subsection 2(p) of the Transmission Agreement.
- (j) Exhibit D, attached to this Amendment No. 1, is substituted for Exhibit D referenced in Section 11 of the Transmission Agreement.

The Transmission Agreement, as amended by this Amendment No. 1, remains in full force and effect.

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	THE WASHINGTON WATER POWER COMPANY
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Attest:	
Secretary	
	THE WASHINGTON WATER POWER COMPANY
	By LOJE-
	Its Vice President TOWER SUPPLY
Attest:	ATTOOMED AS TO FORM AND
Asst. Secretary	
	PORTLAND GENERAL ELECTRIC COMPANY
	Ву
	Its
Attest:	
	•
Asst. Secretary	
•	

•	THE MONTANA POWER COMPANY
	Ву
	Its
Attest:	
Asst. Secretary	
	PUGET SOUND POWER & LIGHT COMPANY
	Ву
	Its
.czest:	
• •	
sst. Secretary	
	THE WARRINGTON WATER DOWN COMPANY
	THE WASHINGTON WATER POWER COMPANY
	Ву
	Its
ttest:	·
sst. Secretary	
	PORTLAND GENERAL ELECTRIC COMPANY
	Ву
	Its Vice President
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Would be In	
SST. Secretary // DETLAND GENERAL COFFORATIO	,
DETLAND BENELME COFFIRMING	N.
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PACIFICORF, doing business as Pacific Power & Light Company and Utah Power & Light Company

Thomas A. Lockhart
Its Vice President

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Attest

Sally (1. Nofziger

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Page 77 of 131

AMENDMENT NO. 2 to the COLSTRIP TRANSMISSION AGREEMENT

This AMENDMENT NO. 2, executed <u>necember 30, 1006</u>, by: THE MONTANA POWER COMPANY (Montana), a Montana corporation; PUGET SOUND POWER & LIGHT COMPANY (Puget), a Washington corporation; THE WASHINGTON WATER POWER COMPANY (Water Power), a Washington corporation; PORTLAND GENERAL ELECTRIC COMPANY (Portland), an Oregon corporation; and PACIFICORP (PacifiCorp), formerly known as PACIFIC POWER & LIGHT COMPANY, an Oregon corporation;

WITNESSETH:

WHEREAS the parties hereto previously entered into the Colstrip Transmission Agreement, dated as of May 6, 1981, as amended by Amendment No. 1 thereto (such agreement as so amended is sometimes referred to as the "Agreement"); and

WHEREAS the parties desire to amend and supplement the Agreement as set forth in this Amendment No. 2; and

WHEREAS the Federal Energy Regulatory Commission (FERC) issued its Order No. 888 addressing open-access transmission, specifically stating that certain agreements must be amended to allow certain transmission by FERC jurisdictional utilities for third parties;

NOW, THEREFORE, the parties hereto mutually agree as follows:

1. The Agreement is hereby amended as follows:

Section 7(g) of the Amendment is amended by changing "Section 28" in the last sentence to read as follows:

"Section 28; provided that a Transmission Owner's providing to any Person transmission service using such Transmission Owner's rights to use Transmission System Capacity (i) shall not for purposes of this Section 7(g) or Section 28 be deemed to be a sale, transfer or assignment of any right of such Transmission Capacity and (ii) shall not for purposes of Section 28 be deemed to be a transfer or assignment of all or any part of the interest of such Transmission Owner in the Transmission System or any part thereof or a transfer or assignment of all or any part of the rights set forth in the Project Agreements which relate to such interest."

2. The Agreement, which is incorporated herein by this reference, shall continue in full force and effect, as amended by this Amendment No. 2. In the event of any conflict between

any provision of this Amendment No. 2 and any other provision of the Agreement, the provision of this Amendment No. 2 shall control.

3. This Amendment No. 2 may be executed in a number of counterparts and shall be deemed to constitute a single document with the same force and effect as if all the parties hereto having signed a counterpart had signed all other counterparts. This Amendment No. 2 shall become effective when counterparts have been signed by all parties.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 2 in several counterparts.

THE MONTANA POWER COMPANY

Name

Title Date

(Print/Type)

Ву	Was a Pascot
	WE A Pasone
(Print	
Title	Assistant Vice President, Transmission Services
Date	December 24, 1996
PUGET	SOUND POWER & LIGHT COMPANY
	,
Ву	
Name	
(Prinz	Type)
Title	
Date	
•	•
THE W	ASHINGTON WATER POWER COMPANY
	HOMEN COMPANY
	•

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any provision of this Amendment No. 2 and any other provision of the Agreement, the provision of this Amendment No. 2 shall control.

3. This Amendment No. 2 may be executed in a number of counterparts and shall be deemed to constitute a single document with the same force and effect as if all the parties hereto having signed a counterpart had signed all other counterparts. This Amendment No. 2 shall become effective when counterparts have been signed by all parties.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 2 in several counterparts.

THE MONTANA POWER COMPANY

Ву _		 	
Name			
(Print)	Type)	 	
Title _		 	
Date			

PUGET SOUND POWER & LIGHT COMPANY

Ву	
Name	•
(Print/Type)	
Title	
Date	

THE WASHINGTON WATER POWER COMPANY

By	Let 1932	
Name	W. ERYALI	ا <i>نظر</i> —
(Print	/Type)	
Title	PERCIOPUT MA GOO	
Date	PERMEST 30 1996	

By
Name
R.E. Drow
(Print/Type)
Title
Date
12/20/96

PACIFICORP

Name
(Print/Type)
Title
Date

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PORTLAND GENERAL ELECTRIC COMPANY

By .	
By Name	
	/Type)
Title	
Date	

PACIFICORP

By Bican D. Sickels

(Print/Type)

Title vice president power Systems

Date December 26,1996

This Amendment No. 3, effective as of July 3, 1998 (the date signed by the last signing party), is made to that certain Colstrip Project Transmission Agreement entered into as of May 6, 1981, as amended by Amendment No. 1, entered into February 14, 1990, and Amendment No. 2, executed December 30, 1996, ("Transmission Agreement") by THE MONTANA POWER COMPANY, PUGET SOUND POWER AND LIGHT COMPANY, now PUGET SOUND ENERGY: THE WASHINGTON WATER POWER COMPANY, PORTLAND GENERAL ELECTRIC COMPANY, and PACIFIC POWER & LIGHT COMPANY, now PACIFICORP.

All terms defined in the Transmission Agreement shall have the same meanings when used in this Amendment No. 3.

WHEREAS, the last paragraph of Section 28 of the current Transmission Agreement provides that certain transfers or assignments of an interest in the Transmission System may not be made unless simultaneously the Transmission Owner's User's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements which relate to the interest being transferred or assigned.

WHEREAS, this "simultaneous transfer" provision essentially requires for certain transfers or assignments that any Transmission Owner selling all or a part of its interest in the Transmission System to simultaneously sell its corresponding interest in Colstrip Units 3&4.

WHEREAS, in order to recognize functional unbundling between generation and transmission as required by Federal Energy Regulatory Commission (FERC) regulations, and to allow a Transmission Owner to sell or transfer all or a part of its interest in the Transmission System without selling or transferring its corresponding interest in Colstrip Units 3&4 as required by this "simultaneous transfer" requirement, the parties agree to amend the last paragraph of Section 28 of the Transmission Agreement by deleting in its entirety the first sentence in that paragraph, as shown by the following:

Ne-transfer-or-assignment of any-interest in the Transmission System-or any-part-thereof-pursuant-to-Sections-28(d), (e), (f) or (g) may-be-made unless-simultaneously-the-Transmission-Owner's-rights-under-the-Project Agreements-which-relate-to-such-interest are similarly transferred or assigned-to-the-same-Person-or-Persons, and such-Person or Persons have assumed in writing-all-the-duties and obligations of the Transmission Owner-making such transfer or assignment under the Project Agreements, which-relate to-the interest-being transferred or assigned. Transfers or assignments shall not relieve any Transmission Owner of any obligation hereunder, except to the extent agreed in writing by all other Transmission Owners. Any attempted or purported transfer made other than in accordance with this Section 28 either voluntarily or by operation of law shall be void and of no effect.

·	any obligation hereu	inder, é Dwners, dance v	chall not relieve any Transmission Owner of except to the extent agreed in writing by all . Any attempted or purported transfer made with this Section 28 either voluntarily or by d and of no effect.
2. No. 2, and this	The Transmission Ag s Amendment No. 3, re	greeme emains	nt, as amended by Amendment No. 1, Amendment in full force and effect.
IN Wi		ne Part	ies hereto have executed this Amendment No. 3 in
			THE MONTANA POWER COMPANY
		Ву:	War a Pascoc
ATTEST:		Its:	Vice Prasident
Secretary	Merrell	-	
			PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY, Inc.
		By:	VICE PESIOSIT, ENERGY SITTLY
ATTEST:	Melle	-	
Secretary			THE WASHINGTON WATER POWER COMPANY
		Ву:	
ATTEST:		lts:	
Secretary		•	

The last paragraph of Section 28 is deleted and the following paragraph is

inserted in lieu thereof:

County of King On this 3 day of	STATE OF WASHINGTON)) ss.	
WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written. A	County of King)	
STATE OF WASHINGTON State of Washington State of Washington State of Washington State of Washington State of Washington State of Washington State of Washington State of Washington State of Washington State of Washington State of Washington State of Washington, personally appeared State of Washington	COMPANY, now PUGET SOUND ENER	GY, and adknowledged to me that he executed the
Residing at 3615 Surpter, Pt RD Inc. 104 My Commission expires 100/17/97 STATE OF WASHINGTON) Ss. County of Spokane) On this day of, 1998, before me, the undersigned Notary Public in and for the State of Washington, personally appeared of THE WASHINGTON WATER POWER COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation. IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.		
On this day of, 1998, before me, the undersigned Notary Public in and for the State of Washington, personally appeared, known to me to be the of THE WASHINGTON WATER POWER COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation. IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written. Notary Public for the State of Washington Residing at		Residing at 3615 wearten Pt Rd Medina With
POWER COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation. IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written. Notary Public for the State of Washington Residing at) ss.	
Notary Public for the State of Washington Residing at	POWER COMPANY and acknowledged to	of THE WASHINGTON WATER me that he executed the within instrument on behalf
Residing at	IN WITNESS WHEREOF, I have he day and year in this certificate first above w	ereunto set my hand and affixed my Notarial Seal the vitten.
Residing at		
		Residing at

	PORTLAND GENERAL ELECTRIC COMPANY
Ву:	
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-	
	PACIFIC POWER & LIGHT COMPANY,
	now PACIFICORP
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Ву:	() / h
lts:	VICE PRESIDENT
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) SS.)	
_	1998, before me, the undersigned Notary Public in
onally	, 1998, before me, the undersigned Notary Public in appeared \(\frac{\sqrt{r}_1\cdots}{\sqrt{r}_1\cdots}\), \(\frac{\sqrt{r}_1\cdots}{\sqrt{r}_1\cdots}\), known to of THE MONTANA POWEF
ne that	of THE MONTANA POWER he executed the within instrument on behalf of that
have he	ereunto set my hand and affixed my Notarial Seal the
bove w	anten.
	- Euron Houles
	Notary Public for the State of Montana Residing at Butte, Montana
	My Commission expires $\frac{U 1 \lambda \partial \partial u}{ \lambda \partial u}$
	By: Its:) ss.) conally the that

) ss. County of Multnomah	
and for the State of Oregon, personally app to be the	1998, before me, the undersigned Notary Public in eared, known to me of PORTLAND GENERAL ELECTRIC he executed the within instrument on behalf of that
IN WITNESS WHEREOF, I have he day and year in this certificate first above wi	reunto set my hand and affixed my Notarial Seal the itten.
	Notary Public for the State of Oregon
	Residing at
and for the State of Oregon, personally approto	1998, before me, the undersigned Notary Public in eared Notary Public in, known to meof PACIFIC POWER & LIGHT edged to me that he executed the within instrument
ON behalf of that corporation. IN WITNESS WHEREOF, I have her day and year in this certificate first above wrl OFFICIAL SEAL JENNIFER A WORLTON NOTARY PUBLIC-OREGON	eunto set my hand and affixed my Notarial Seal the Iten.
	Notary Public for the State of Oregon Residing at // Turnul

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1. inserted in lieu		h of S	ection 28 is deleted and the following paragraph is
·	any obligation here other Transmission other than in account	eunder, Owner ordance	shall not relieve any Transmission Owner of except to the extent agreed in writing by all rs. Any attempted or purported transfer made with this Section 28 either voluntarily or by bid and of no effect.
2. No. 2, and this			ent, as amended by Amendment No. 1, Amendment s in full force and effect.
IN WIT		the Pa	rties hereto have executed this Amendment No. 3 in
			THE MONTANA POWER COMPANY
		Ву:	We Wiscoc Vice Fresident
		lts:	Vice President
ATTEST:	Merrell		
			PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY
		Ву:	
ATTEST:		Its:	
Secretary		-	

Ву:

lts:

ATTEȘT:

THE WASHINGTON WATER POWER COMPANY

	STATE OF WASHINGTON)) ss.	
	County of King)	
	On this day of, and for the State of Washington, personally a me to be the COMPANY, now PUGET SOUND ENERGY within instrument on behalf of that corporation	1998, before me, the undersigned Notary Public in ppeared, known to of PUGET SOUND POWER & LIGHT and acknowledged to me that he executed the n.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Sed and year in this certificate first above written.		
	. P	Notary Public for the State of Washington Residing at My Commission expires
	STATE OF WASHINGTON)) ss. County of Spokane)	
	and for the State of Washington, personally a	1998, before me, the undersigned Notary Public in ppeared <u>Jon E. El. assem</u> , known to <u>+ Treasure</u> of THE WASHINGTON WATER e that he executed the within instrument on behalf
	IN WITNESS WHEREOF, I have here day and year in this certificate first above writ	runto set my hand and affixed my Notarial Seal the ten.
	SUE MINITED AND THE PROPERTY OF THE PROPERTY O	Sue Miner Sue Muner Notary Public for the State of Washington Residing at Spokane My Commission expires 10.14.49

The last paragrap inserted in lieu thereof:	h of Se	ection 28 is deleted and the following paragraph is
any obligation her other Transmission other than in acc	eunder, n Owner ordance	shall not relieve any Transmission Owner of except to the extent agreed in writing by all s. Any attempted or purported transfer made with this Section 28 either voluntarily or by sid and of no effect.
2. The Transmission No. 2, and this Amendment No. 3	Agreem , remains	ent, as amended by Amendment No. 1, Amendment s in full force and effect.
IN WITNESS WHEREOF, several counterparts.	, the Pai	rties hereto have executed this Amendment No. 3 in
		THE MONTANA POWER COMPANY
	Ву:	W a Pasce
	Its:	Wa PARGE
Secretary Secretary		
		PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY
	Ву:	
ATŢEST:	lts:	
Secretary		
		THE WASHINGTON WATER POWER COMPANY
	Ву:	
	Its:	
ATTEST:		
Secretary		

PORTLAND GENERAL ELECTRIC COMPANY

· .	Ву:	
	lts:	
ATTEST:		
Secretary		
		PACIFIC POWER & LIGHT COMPANY, now PACIFICORP
E	Ву:	
ATTEST:	ts:	
Secretary		
STATE OF MONTANA)		
County of Butte-Silver Bow)	SS.	
On this day of	nally a	1998, before me, the undersigned Notary Public in appeared \(\lambda \lambda \la
IN WITNESS WHEREOF, I have day and year in this certificate first about	ve he	reunto set my hand and affixed my Notarial Seal the itten.
		Notary Public for the State of Montana
		Residing at Butte, Montana

		PORTLAND GENERAL ELECTRIC COMPANY
	Ву:	(attent (allow) o
ATTEST:	lts:	Senior Vice President
ATTEST		
Sécrétary		PACIFIC POWER & LIGHT COMPANY, now PACIFICORP
	Ву:	
ATTEST:	lts:	
Secretary	-	
STATE OF MONTANA)) ss.	
County of Butte-Silver Bow	j	· ·
and for the State of Montaria, per	sonally	_, 1998, before me, the undersigned Notary Public in appeared \(\frac{\frac{1}{2}
IN WITNESS WHEREOF, I day and year in this certificate first a	have he above v	ereunto set my hand and affixed my Notarial Seal the vritten.
		Notary Public for the State of Montana Residing at Butte, Montana My Commission expires

STATE OF OREGON)	
County of Multnomah)	
and for the State of Oregon personally at	, 1998, before me, the undersigned Notary Public in opeared <u>walter 6. Pollock</u> , known to me of PORTLAND GENERAL ELECTRICAL the executed the within instrument on behalf of that
IN WITNESS WHEREOF, I have have and year in this certificate first above to	nereunto set my hand and affixed my Notarial Seal the written.
COMMISSION EXPIRES OCT 20, 1998	Notary Public for the State of Oregon Residing at 10 Hond (See Journal My Commission expires 10/20/98
STATE OF OREGON)) ss. County of Multnomah)	
and for the State of Montana, personally me to be the	, 1998, before me, the undersigned Notary Public in appeared, known to, known to, of PACIFIC POWER & LIGHT wledged to me that he executed the within instrument
IN WITNESS WHEREOF, I have he day and year in this certificate first above v	ereunto set my hand and affixed my Notarial Seal the written.
	T.
	Notary Public for the State of Oregon Residing at My Commission expires

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All terms defined in the Transmission Agreement shall have the same meanings when used in this Amendment No. 3.

WHEREAS, the last paragraph of Section 28 of the current Transmission Agreement provides that certain transfers or assignments of an interest in the Transmission System may not be made unless simultaneously the Transmission Owner's User's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements which relate to the interest being transferred or assigned.

WHEREAS, this "simultaneous transfer" provision essentially requires for certain transfers or assignments that any Transmission Owner selling all or a part of its interest in the Transmission System to simultaneously sell its corresponding interest in Colstrip Units 3&4.

WHEREAS, in order to recognize functional unbundling between generation and transmission as required by Federal Energy Regulatory Commission (FERC) regulations, and to allow a Transmission Owner to sell or transfer all or a part of its interest in the Transmission System without selling or transferring its corresponding interest in Colstrip Units 3&4 as required by this "simultaneous transfer" requirement, the parties agree to amend the last paragraph of Section 28 of the Transmission Agreement by deleting in its entirety the first sentence in that paragraph, as shown by the following:

No transfer or assignment of any interest in the Transmission System or any part thereof pursuant to Sections 28(d), (e), (f) or (g) may be made unless simultaneously the Transmission Owner's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements, which relate to the interest being transferred or assigned. Transfers or assignments shall not relieve any Transmission Owner of any obligation hereunder, except to the extent agreed in writing by all other Transmission Owners. Any attempted or purported transfer made other than in accordance with this Section 28 either voluntarily or by operation of law shall be void and of no effect.

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any obligation hereunder, except to the extent agreed in writing by all other Transmission Owners. Any attempted or purported transfer made other than in accordance with this Section 28 either voluntarily or by operation of law shall be void and of no effect.

2. The Transmission Agreement, as amended by Amendment No. 1, Amendment No. 2, and this Amendment No. 3, remains in full force and effect.

IN WITNESS WHEREOF, the Parties hereto have executed this Amendment No. 3 in several counterparts.

THE MONTANA POWER COMPANY

		THE MONTANA POVER CONTAIN
	By:	Wa PROCE Vice President
Secretary Secretary		
		PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY
	Ву:	
ATTEST:	Its:	
Secretary		
		THE WASHINGTON WATER POWER COMPANY
	Ву:	
ATTEST:	Its:	
Secretary		

STATE OF WASHINGTON	
County of King)	SS.
On this day of and for the State of Washington, persone to be the COMPANY, now PUGET SOUND Exwithin instrument on behalf of that corp	, 1998, before me, the undersigned Notary Public in pnally appeared, known toof PUGET SOUND POWER & LIGHT NERGY and acknowledged to me that he executed the poration.
IN WITNESS WHEREOF, I have day and year in this certificate first about	ve hereunto set my hand and affixed my Notarial Seal the ve written.
	Notary Public for the State of Washington Residing at My Commission expires
STATE OF WASHINGTON)) s County of Spokane)	S.
me to be the	, 1998. before me, the undersigned Notary Public in ally appeared, known toof THE WASHINGTON WATER to me that he executed the within instrument on behalf
IN WITNESS WHEREOF, I have day and year in this certificate first above	hereunto set my hand and affixed my Notarial Seal the written.
	Notary Public for the State of Washington Residing at
	My Commission expires

STATE OF OREGON)	
County of Multnomah)	•
On this day of and for the State of Oregon, personally a to be the COMPANY and acknowledged to me th corporation.	, 1998, before me, the undersigned Notary Public is appeared, known to mean of PORTLAND GENERAL ELECTRIC stat he executed the within instrument on behalf of the
IN WITNESS WHEREOF, I have day and year in this certificate first above	hereunto set my hand and affixed my Notarial Seal the written.
	Notary Public for the State of Oregon Residing at My Commission expires
STATE OF OREGON)) ss. County of Multnomah)	
and for the State of Montana, personally me to be the	, 1998, before me, the undersigned Notary Public in y appeared, known to of PACIFIC POWER & LIGHT owledged to me that he executed the within instrument
IN WITNESS WHEREOF, I have he day and year in this certificate first above w	nereunto set my hand and affixed my Notarial Seal the written.
	Notary Public for the State of Oregon Residing at
	My Commission expires

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This Amendment No. 3, effective as of <u>6 - 29</u>. 1998 (the date signed by trallast signing party), is made to that certain Colstrip Project Transmission Agreement entered into as of May 6, 1981, as amended by Amendment No. 1, entered into February 14, 1990, and Amendment No. 2, executed December 30, 1996, ("Transmission Agreement") by THE MONTANA POWER COMPANY, PUGET SOUND POWER AND LIGHT COMPANY, now PUGET SOUND ENERGY, THE WASHINGTON WATER POWER COMPANY, PORTLAND GENERAL ELECTRIC COMPANY, and PACIFIC POWER & LIGHT COMPANY, now PACIFICORP.

All terms defined in the Transmission Agreement shall have the same meanings when used in this Amendment No. 3.

WHEREAS, the last paragraph of Section 28 of the current Transmission Agreement provides that certain transfers or assignments of an interest in the Transmission System may not be made unless simultaneously the Transmission Owner's User's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements which relate to the interest being transferred or assigned.

WHEREAS, this "simultaneous transfer" provision essentially requires for certain transfers or assignments that any Transmission Owner selling all or a part of its interest in the Transmission System to simultaneously sell its corresponding interest in Colstrip Units 3&4.

WHEREAS, in order to recognize functional unbundling between generation and transmission as required by Federal Energy Regulatory Commission (FERC) regulations, and to allow a Transmission Owner to sell or transfer all or a part of its interest in the Transmission System without selling or transferring its corresponding interest in Colstrip Units 3&4 as required by this "simultaneous transfer" requirement, the parties agree to amend the last paragraph of Section 28 of the Transmission Agreement by deleting in its entirety the first sentence in that paragraph, as shown by the following:

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The last paragraph of Section 28 is deleted and the following paragraph is inserted in lieu thereof: Transfers or assignments shall not relieve any Transmission Owner of any obligation hereunder, except to the extent agreed in writing by all other Transmission Owners. Any attempted or purported transfer made other than in accordance with this Section 28 either voluntarily or by operation of law shall be void and of no effect. The Transmission Agreement, as amended by Amendment No. 1, Amendment No. 2, and this Amendment No. 3, remains in full force and effect. IN WITNESS WHEREOF, the Parties hereto have executed this Amendment No. 3 in several counterparts. THE MONTANA POWER COMPANY In a Pascoc Vice President lts: PUGET SOUND POWER & LIGHT COMPANY. now PUGET SOUND ENERGY By: Its: ATTEST: Secretary THE WASHINGTON WATER POWER COMPANY

Its:

ATTEST:

A + CFD & Treasurer

PORTLAND GENERAL ELECTRIC COMPANY

	. By:	
	Its:	
ATTEST:		
Secretary	****	
		PACIFIC POWER & LIGHT COMPANY, now PACIFICORP
	By: Its:	
ATTEST:		
Secretary		
STATE OF MONTANA)	
County of Butte-Silver Bow) ss.)	
me to be the	rsonally a	1998. before me, the undersigned Notary Public in ppeared, known to of THE MONTANA POWER ne executed the within instrument on behalf of that
IN WITNESS WHEREOF, I day and year in this certificate first	have here above writ	eunto set my hand and affixed my Notarial Seal the tten.
	7	lotary Public for the State of Montana
	۲	Residing at Butte, Montana My Commission expires

STATE OF WASHINGTON)) ss.
County of King)
On thisday of, 1998, before me, the undersigned Notary Public in and for the State of Washington, personally appeared, known to me to be the of PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY and acknowledged to me that he executed the within instrument on behalf of that corporation.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.
Notary Public for the State of Washington Residing at My Commission expires
STATE OF WASHINGTON)) ss. County of Spokane)
On this 49th day of June, 1998, before me, the undersigned Notary Public in and for the State of Washington, personally appeared Jon E. Eliassen, known to me to be the Sc. Vice President, CFO + Treasurer of THE WASHINGTON WATER POWER COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.
Notary Public for the State of Washington Residing at Spekane My Commission expires 10.14.99

STATE OF OREGON)	_
County of Multnomah) s	S.
and for the State of Oregon, personally to be the	, 1998, before me, the undersigned Notary Public is appeared, known to meof PORTLAND GENERAL ELECTRIC hat he executed the within instrument on behalf of that
IN WITNESS WHEREOF, I have day and year in this certificate first above	e hereunto set my hand and affixed my Notarial Seal the e written.
	Notary Public for the State of Oregon Residing at My Commission expires
STATE OF OREGON)) ss. County of Multnomah)	
and for the State of Montana, personall me to be the	, 1998, before me, the undersigned Notary Public in y appeared, known toof PACIFIC POWER & LIGHT owledged to me that he executed the within instrument
IN WITNESS WHEREOF, I have I day and year in this certificate first above	hereunto set my hand and affixed my Notarial Seal the written.
	Notary Public for the State of Oregon Residing at My Commission expires

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This Amendment No. 3, effective as of July 3. 1998 (the date signed by the last signing party), is made to that certain Colstrip Project Transmission Agreement entered into as of May 6, 1981, as amended by Amendment No. 1, entered into February 14, 1990, and Amendment No. 2, executed December 30, 1996, ("Transmission Agreement") by THE MONTANA POWER COMPANY, PUGET SOUND POWER AND LIGHT COMPANY, now PUGET SOUND ENERGY, THE WASHINGTON WATER POWER COMPANY, PORTLAND GENERAL ELECTRIC COMPANY, and PACIFIC POWER & LIGHT COMPANY, now PACIFICORP.

All terms defined in the Transmission Agreement shall have the same meanings when used in this Amendment No. 3.

WHEREAS, the last paragraph of Section 28 of the current Transmission Agreement provides that certain transfers or assignments of an interest in the Transmission System may not be made unless simultaneously the Transmission Owner's User's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements which relate to the interest being transferred or assigned.

WHEREAS, this "simultaneous transfer" provision essentially requires for certain transfers or assignments that any Transmission Owner selling all or a part of its interest in the Transmission System to simultaneously sell its corresponding interest in Colstrip Units 3&4.

WHEREAS, in order to recognize functional unbundling between generation and transmission as required by Federal Energy Regulatory Commission (FERC) regulations, and to allow a Transmission Owner to sell or transfer all or a part of its interest in the Transmission System without selling or transferring its corresponding interest in Colstrip Units 3&4 as required by this "simultaneous transfer" requirement, the parties agree to amend the last paragraph of Section 28 of the Transmission Agreement by deleting in its entirety the first sentence in that paragraph, as shown by the following:

No transfer or assignment of any interest in the Transmission System or any part thereof pursuant to Sections 28(d), (e), (f) or (g) may be made unless simultaneously the Transmission Owner's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements, which relate to the interest being transferred or assigned. Transfers or assignments shall not relieve any Transmission Owner of any obligation hereunder, except to the extent agreed in writing by all other Transmission Owners. Any attempted or purported transfer made other than in accordance with this Section 28 either voluntarily or by operation of law shall be void and of no effect.

any obligation here other Transmission other than in acco	Transfers or assignments shall not relieve any Transmission Owner of any obligation hereunder, except to the extent agreed in writing by all other Transmission Owners. Any attempted or purported transfer made other than in accordance with this Section 28 either voluntarily or by operation of law shall be void and of no effect.			
2. The Transmission And No. 2, and this Amendment No. 3,	2. The Transmission Agreement, as amended by Amendment No. 1, Amendme No. 2, and this Amendment No. 3, remains in full force and effect.			
IN WITNESS WHEREOF, several counterparts.	the Pa	rties hereto have executed this Amendment No. 3 in		
		THE MONTANA POWER COMPANY		
	Ву:	ha a Pascoc		
ATTEST:	lts:	Vice President		
Secretary Secretary				
		PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY, Inc.		
	Ву:	Maine		
ATTEST: Wille	lts:	VICE PESICENT ENERGY SIFTEY		
Segretary		THE WASHINGTON WATER POWER COMPANY		
	Ву:			
ATTEST:	lts:			
Secretary	_			

The last paragraph of Section 28 is deleted and the following paragraph is

1. The last inserted in lieu thereof:

PORTLAND GENERAL ELECTRIC COMPANY

		•
	Ву:	
	Its:	
ATTEST:		
Secretary		
		PACIFIC POWER & LIGHT COMPANY, now PACIFICORP
	Dv.	
	By: lts:	
ATTEST:		
Secretary		
CTATE OF MONITANIA	,	
STATE OF MONTANA)) ss.	
County of Butte-Silver Bow)	
and for the State of Montana, per me to be the	sonally	, 1998, before me, the undersigned Notary Public is appeared, known to of THE MONTANA POWER he executed the within instrument on behalf of that
IN WITNESS WHEREOF, I day and year in this certificate first a	have he	reunto set my hand and affixed my Notarial Seal the ritten.
		Notary Public for the State of Montana
		Residing at Butte, Montana
		My Commission expires

STATE OF WASHINGTON)	
County of King)	S.
and for the State of Washington, person	nally appeared (Lielian A. Jaines, known to provide the second of PUGET SOUND POWER & LIGHT ERGY, and acknowledged to me that he executed the pration.
IN WITNESS WHEREOF, I have day and year in this certificate first above	e hereunto set my hand and affixed my Notarial Seal the e written.
	Notary Public for the State of Washington
	Residing at 3615 Europees PHRO Medica WA My Commission expires 10/17/98
STATE OF WASHINGTON)) ss	
County of Spokane)	•
and for the State of Washington, personate to be the	, 1998, before me, the undersigned Notary Public in ally appeared, known to of THE WASHINGTON WATER to me that he executed the within instrument on behalf
IN WITNESS WHEREOF, I have day and year in this certificate first above	hereunto set my hand and affixed my Notarial Seal the written.
	Notary Public for the State of Washington Residing at
	My Commission expires

All terms defined in the Transmission Agreement shall have the same meanings when used in this Amendment No. 3.

WHEREAS, the last paragraph of Section 28 of the current Transmission Agreement provides that certain transfers or assignments of an interest in the Transmission System may not be made unless simultaneously the Transmission Owner's User's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements which relate to the interest being transferred or assigned.

WHEREAS, this "simultaneous transfer" provision essentially requires for certain transfers or assignments that any Transmission Owner selling all or a part of its interest in the Transmission System to simultaneously sell its corresponding interest in Colstrip Units 3&4.

WHEREAS, in order to recognize functional unbundling between generation and transmission as required by Federal Energy Regulatory Commission (FERC) regulations, and to allow a Transmission Owner to sell or transfer all or a part of its interest in the Transmission System without selling or transferring its corresponding interest in Colstrip Units 3&4 as required by this "simultaneous transfer" requirement, the parties agree to amend the last paragraph of Section 28 of the Transmission Agreement by deleting in its entirety the first sentence in that paragraph, as shown by the following:

No transfer or assignment of any interest in the Transmission System or any part thereof pursuant to Sections 28(d), (e), (f) or (g) may be made unless simultaneously the Transmission Owner's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements, which relate to the interest being transferred or assigned. Transfers or assignments shall not relieve any Transmission Owner of any obligation hereunder, except to the extent agreed in writing by all other Transmission Owners. Any attempted or purported transfer made other than in accordance with this Section 28 either voluntarily or by operation of law shall be void and of no effect.

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	any obligation here other Transmission other than in acco	eunder, Owne ordance	shall not relieve any Transmission Owner of except to the extent agreed in writing by all rs. Any attempted or purported transfer made with this Section 28 either voluntarily or by bid and of no effect.
2. No. 2, and this	The Transmission Amendment No. 3,	Agreem remain	nent, as amended by Amendment No. 1, Amendment s in full force and effect.
IN WITI several counter		the Pa	rties hereto have executed this Amendment No. 3 in
			THE MONTANA POWER COMPANY
		Ву:	Wa a Pascol
ATTEST:_		Its:	Vice President
Secretary	Merrell	 -	
			PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY
		Ву:	· · · · · · · · · · · · · · · · · · ·
ATTEST:		Its:	
Secretary		-	
·			THE WASHINGTON WATER POWER COMPANY
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ATTEST:		Its:	
Secretary			

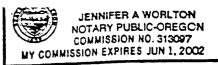
The last paragraph of Section 28 is deleted and the following paragraph is

1.

PORTLAND GENERAL ELECTRIC COMPANY

·	By:	
	Its:	
ATTEST:	,,,,,	
Secretary		
		PACIFIC POWER & LIGHT COMPANY,
		now PACIFICORP
	D	M_{\perp}
	By: Its:	VICE PRESIDENT
ATTEST:		
: leunell Marin		
Secretary		
STATE OF MONTANA)	
County of Butte-Silver Bow) ss.)	
On this day of		, 1998, before me, the undersigned Notary Publ
and for the State of Montana, p	personally	appeared, know
	o me that	he executed the within instrument on behalf of
IN WITNESS WHEREOF	l have he	ereunto set my hand and affixed my Notarial Seal
day and year in this certificate firs	st above w	ritten.
		Notary Public for the State of Montana
		Residing at Butte, Montana My Commission expires

STATE OF WASHINGTON)
County of King) ss.)
On this day of and for the State of Washington, per me to be the COMPANY, now PUGET SOUND within instrument on behalf of that co	ENERGY and acknowledged to me that he executed the
IN WITNESS WHEREOF, I h day and year in this certificate first ab	ave hereunto set my hand and affixed my Notarial Seal the love written.
	Notary Public for the State of Washington Residing at My Commission expires
STATE OF WASHINGTON County of Spokane	SS.
On this day of and for the State of Washington, pers me to be the POWER COMPANY and acknowledg of that corporation.	, 1998, before me, the undersigned Notary Public in onally appeared, known toof THE WASHINGTON WATER ed to me that he executed the within instrument on behalf
IN WITNESS WHEREOF, I had day and year in this certificate first about	ve hereunto set my hand and affixed my Notarial Seal the ove written.
	Notary Public for the State of Washington Residing at My Commission expires



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STATE OF OREGON)		
County of Multnomah)	•	
On this it day of the state of Oregon, personally a to be the Vice Prince to me the COMPANY and acknowledged to me the corporation.	ippeared <u>איז איז איז איז איז איז איז איז איז איז </u>	AND GENERAL ELECTRIC
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STATE OF OREGON)		
County of Multnomah) ss.		
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IN WITNESS WHEREOF, I have high day and year in this certificate first above versions.		affixed my Notarial Seal the
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WHEREAS, the last paragraph of Section 28 of the current Transmission Agreement provides that certain transfers or assignments of an interest in the Transmission System may not be made unless simultaneously the Transmission Owner's User's rights under the Project Agreements which relate to such interest are similarly transferred or assigned to the same Person or Persons, and such Person or Persons have assumed in writing all the duties and obligations of the Transmission Owner making such transfer or assignment under the Project Agreements which relate to the interest being transferred or assigned.

WHEREAS, this "simultaneous transfer" provision essentially requires for certain transfers or assignments that any Transmission Owner selling all or a part of its interest in the Transmission System to simultaneously sell its corresponding interest in Colstrip Units 3&4.

WHEREAS, in order to recognize functional unbundling between generation and transmission as required by Federal Energy Regulatory Commission (FERC) regulations, and to allow a Transmission Owner to sell or transfer all or a part of its interest in the Transmission System without selling or transferring its corresponding interest in Colstrip Units 3&4 as required by this "simultaneous transfer" requirement, the parties agree to amend the last paragraph of Section 28 of the Transmission Agreement by deleting in its entirety the first sentence in that paragraph, as shown by the following:

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other Transmission other than in according	ereunge on Own cordanc	ts shall not relieve any Transmission Owner of it, except to the extent agreed in writing by all ers. Any attempted or purported transfer made be with this Section 28 either voluntarily or by void and of no effect.
2. The Transmission No. 2, and this Amendment No. 3	n Agree 3, remai	ment, as amended by Amendment No. 1, Amendment ns in full force and effect.
IN WITNESS WHEREOF several counterparts.	the P	arties hereto have executed this Amendment No. 3 in
		THE MONTANA POWER COMPANY
	Ву:	W u Paseve
ATTEST: P.K. Mesull Secretary	Its:	Vice President
·		PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY
	Ву:	
ATTEST:	lts:	
Secretary	_	
		THE WASHINGTON WATER POWER COMPANY
	Ву:	
ATTEST:	lts:	
Secretary		

STATE OF WASHINGTON)	
County of King)	5.
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IN WITNESS WHEREOF, I have day and year in this certificate first above	hereunto set my hand and affixed my Notarial Seal the written.
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STATE OF WASHINGTON)) ss.	
County of Spokane)	
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	Notary Public for the State of Washington
	Residing at My Commission expires
	a amminosion expires

		PORTLAND GENERAL ELECTRIC COMPANY
	By:	/ attes (alle) &
ATTEST:	its:	Senior Vice President
Mille	-	
Sécrétary		PACIFIC POWER & LIGHT COMPANY, now PACIFICORP
ATTEST:	By: Its:	
	_	
Secretary		
STATE OF MONTANA)) ss.	
County of Butte-Silver Bow)	
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IN WITNESS WHEREOF, I had and year in this certificate first at	ave her	eunto set my hand and affixed my Notarial Seal the litten.
		Notary Public for the State of Montana Residing at Butte, Montana My Commission expires

STATE OF OREGON)
County of Multnomah) SS.)
and for the State of Oregon person to be the Agricon Vice	nally appeared walter E. Pollock, known to me of PORTLAND GENERAL ELECTRIC me that he executed the within instrument on behalf of that
IN WITNESS WHEREOF, I day and year in this certificate first	have hereunto set my hand and affixed my Notarial Seal the above written.
OFFICIAL SEAL ('AREN J. LEWIS NOTARY PUBLIC - OREGON COMMISSION NO.038820 MY COMMISSION EXPIRES OCT. 20, 1998	Notary Public for the State of Oregon Residing at Pn Hand (See now My Commission expires/0/20/98
STATE OF OREGON County of Multnomah)) ss.)
and for the State of Montana, persone to be the	, 1998, before me, the undersigned Notary Public in sonally appeared, known toof PACIFIC POWER & LIGHT acknowledged to me that he executed the within instrument
IN WITNESS WHEREOF, I I day and year in this certificate first a	have hereunto set my hand and affixed my Notarial Seal the bove written.
	Notary Public for the State of Oregon Residing at
	My Commission expires

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AMENDMENT NO. 4 TO THE COLSTRIP PROJECT TRANSMISSION AGREEMENT

This Amendment No. 4, effective as of <u>April 27</u>, 1989 (the date signed by the last signing party), is made to that certain Colstrip Project Transmission Agreement entered into as of May 6, 1981, as amended by Amendment No. 1, entered into February 14, 1990, Amendment No. 2, executed December 30, 1996, and Amendment No. 3, effective as of July 13, 1998, ("Transmission Agreement") by THE MONTANA POWER COMPANY ("Montana"), PUGET SOUND POWER AND LIGHT COMPANY, now PUGET SOUND ENERGY INC. ("Puget"), THE WASHINGTON WATER POWER COMPANY, now AVISTA CORP. ("Avista"), PORTLAND GENERAL ELECTRIC COMPANY ("Portland"), and PACIFIC POWER & LIGHT COMPANY, now PACIFICORP ("PacifiCorp").

All terms defined in the Transmission Agreement shall have the same meanings when used in this Amendment No. 4. Any defined terms using the singular or plural number also include the plural or singular number, respectively.

WHEREAS, the term "Allocation Computer" as used herein refers to the equipment and computer software primarily located at Montana Power Company's Systems Operations Control Center in Butte, Montana, which is used to measure the output of each owners' share of electrical generation from Colstrip Units 1& 2 and Colstrip Units 3&4 and allocates to each owner the associated transmission losses for their share of the generation output.

WHEREAS, the term "ATRs" as used herein refers to the acceleration trend relays, which include equipment and computer systems used to detect acceleration in the generation shafts of Colstrip Units 1&2 and Colstrip Units 3&4, and selectively trips the appropriate Colstrip unit(s) and the generation at the Montana One project, so that the electrically connected system meets the stability requirements of WSCC.

WHEREAS, the term "SSR Protection Systems" as used herein refers to the plant protection relay equipment that protects Colstrip Units 1&2 and Colstrip Units 3&4 against subsynchronous resonance.

WHEREAS, the term "1&2 Owners" as used herein has the same meaning as the defined term "Owners" in the Colstrip Units 1&2 Construction and Ownership Agreement dated July 30, 1971, between Montana and Puget, as amended.

WHEREAS, the term "Colstrip 3&4 Owners/Project Users" as used herein has the same meaning as the defined terms "Owners." and "Project Users" in the Colstrip Units 3&4 Ownership and Operation Agreement dated May 6, 1981, between Montana, Puget, Avista, Portland and PacifiCorp, as amended.

WHEREAS, this Amendment No. 4 is being entered into for two purposes. The first is to provide that the Allocation Computer and ATRs will be included in the Transmission System, consistent with the parties' agreement that ownership of the Allocation Computer and ATRs will be transferred at no cost from the Colstrip 1&2 Owners and the Colstrip 3&4 Owners/Project Users to the Transmission Owners. Under this Amendment No. 4, the Allocation Computer and ATRs shall be added to the description of the Transmission System in Exhibit A to the Transmission Agreement. The second purpose of this Amendment No. 4 is to clearly establish that the SSR Protection Systems are not part of the Transmission System, consistent with the

parties' agreement that the SSR Protection System for Colstrip Units 1&2 shall be owned, operated, and maintained by the Colstrip 1&2 Owners, and that the SSR Protection System for Colstrip Units 3&4 shall be owned, operated, and maintained by the Colstrip 3&4 Owners/Project Users. Under this Amendment No. 4, Section 6 of the Transmission Agreement, titled "Subsynchronous Resonance", shall be amended, and language shall be added to Exhibit A to the Transmission Agreement clearly stating that the SSR Protection Systems is not part of the Transmission System.

NOW, THEREFORE, the parties mutually agree to amend the Transmission Agreement as follows:

1. Section 6 is amended by deleting it in its entirety and replacing it with the following:

6. <u>Subsynchronous Resonance</u>

- (a) Montana/Puget shall bear all costs of planning, engineering, acquisition, construction, operation and maintenance of any relay protection against SSR that is installed on Colstrip Units #1 and #2. Each Owner or Project User (as defined in the Ownership Agreement) shall bear its Project Share of all costs of planning, engineering, acquisition, construction, operation and maintenance of any relay protection against SSR that is installed on the Project.
- (b) The Transmission Operator shall take all or some portion of Transmission System series capacitors out of service, reduce available Transmission System Capacity or take other reasonable action to avoid SSR on Colstrip Units #1 and #2 or the Project.

THE MONTANA POWER COMPANY

- 2. Exhibit A, attached to this Amendment No. 4, is substituted for the Exhibit A attached to Amendment No. 1 to the Transmission Agreement.
- 3. The Transmission Agreement as amended by Amendment No. 1, Amendment No. 2, Amendment No. 3, and this Amendment No. 4, remains in full force and effect.

IN WITNESS WHEREOF, the Parties hereto have executed this Amendment No. 4 in several counterparts.

ATTEST:

By: Wallow

Its: Vice Prehident

Transmission Sewrices

Secretary

Secretary		
ATTEST:	By: Its:	
		PACIFIC POWER & LIGHT COMPANY, now PACIFICORP
Secretary		
ATTEST:	Its:	
	Ву:	
Secretary		PORTLAND GENERAL ELECTRIC COMPANY
ATTEST:	Its:	
	By: 	
		THE WASHINGTON WATER POWER COMPAN
Secretary	7,	·
ATTEST:	Its:	Vice President Exercit Suprice
	Ву:	Marin
		PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY

		PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY
	Ву:	
ATTEST:	lts:	
Secretary		·
ATTEST:	By:	THE WASHINGTON WATER POWER COMPANY ROMAVISTA CORP XLEBOOL TENRO Supt. Hound Opno
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Secretary		
		PORTLAND GENERAL ELECTRIC COMPANY
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Secretary		
		PACIFIC POWER & LIGHT COMPANY, now PACIFICORP
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ATTEST:	Its:	
Secretary	*****	

		now PUGET SOUND ENERGY
	By:	
ATTEST:	lts:	
Secretary		•
		THE WASHINGTON WATER POWER COMPANY now Avista Corp
·	By:	
ATTEST:	its: ¸	
Secretary	 :	
,	By:	SR. Vice President
ATTEST;	113.	POWER Sopply
Secretary		•
	By: Its:	PACIFIC POWER & LIGHT COMPANY, now PACIFIC ORP Vice Pres Company
ATTEST:	,,	
Secretary	-	·

		PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY
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Secretary		
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Secretary		r :
		PORTLAND GENERAL ELECTRIC COMPANY
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ATTEST:	Its:	
Secretary		
		PACIFIC POWER & LIGHT COMPANY, now PACIFIC ORP
	By:	Blummighan
ATTEST:	Its:	VICE PRES. GENERATION
Secretary		

STATE OF MONTANA)
County of Butte-Silver Bow)
On this 27 day of APRIL , 1998, before me, the undersigned Notary Public in and for the State of Montana, personally appeared WILLIAM A. PASCUE , known to me to be the VICE PRESIDENT TRANSMISSION OF THE MONTANA POWER COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.
Notary Public for the State of Montana Residing at Butte, Montana My Commission expires
STATE OF WASHINGTON)
County of King)
On this 13 day of <u>December</u> , 1998, before me, the undersigned Notary Public in and for the State of Washington, personally appeared <u>Dilliam & Gaines</u> , known to me to be the <u>Vice President Energy Supply</u> of PUGET SOUND POWER & LIGHT COMPANY, now PUGET SOUND ENERGY, INC. and acknowledged to me that he executed the within instrument on behalf of that corporation.



STATE OF WASHINGTON)	
County of Spokane)	
me to be the Sund of Thermal POWER COMPANY, now AVISTA CORF instrument on behalf of that corporation.	1998, before me, the undersigned Notary Public in lly appeared George Perks, known to Operations of THE WASHINGTON WATER and acknowledged to me that he executed the within
day and year in this certificate first above	nereunto set my hand and affixed my Notarial Seal the written.
OTAR JOSE OF THE STATE OF WASHINGTON	Notary Public for the State of Washington Residing at
STATE OF OREGON)	
County of Multnomah) ss.	
to be the	_, 1998, before me, the undersigned Notary Public in peared known to me of PORTLAND GENERAL ELECTRIC the executed the within instrument on behalf of that
IN WITNESS WHEREOF, I have he day and year in this certificate first above w	ereunto set my hand and affixed my Notarial Seal the ritten.
	Notary Public for the State of Oregon Residing at - My Commission expires

STATE OF WASHINGTON)
County of Spokane) ss.
On this 29 day of October 1998, before me, the undersigned Notary Public and for the State of Washington, personally appeared George Perks known to be the State of Themas Operations of THE WASHINGTON WATE POWER COMPANY, now AVISTA CORP, and acknowledged to me that he executed the within instrument on behalf of that corporation.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal th day and year in this certificate first above written.
Notary Public for the State of Washington
Residing at Chency, WA My Commission expires January 28, 2005
STATE OF OREGON)
County of Multnomah) ss.
On this 5 day of Q vail 1998, before me, the undersigned Notary Public in and for the State of Oregon, personally appeared Walter F. Pollock known to me to be the Season Vice Vasident of PORTLAND GENERAL ELECTRIC COMPANY and acknowledged to me that he executed the within instrument on behalf of that corporation.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate first above written.
Notary Public for the State of Oregon Residing at Multhomah Cant Ov. My Commission expires Oct. 20 2000

STATE OF OREGON (Help)) ss.
County of Multneman Salt Lake
On this day of September 1998, before me, the undersigned Notany Bublic in
On this day of State Montana, personally appeared Barry G. Canninghum, known to
me to be the Vice President of PACIFIC POWER & LIGHT
COMPANY, now PACIFICORP and acknowledged to me that he executed the within instrument
on behalf of that corporation.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the
day and year in this certificate first above written.
NOTARY PUBLIC
MELANIE R. ALLEN
201 So. Main, Suite 2300 Satt Lake City, Urah 64140 My Commission Engres Notary Public for the State of Oregon Utth, Min
My Commission Expires Decamber 5, 2002 Residing at All Ale Office State of Order of the State of Order o
STATE OF UTAH My Commission expires

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Page 1 of 5
Exhibit A
Colstrip Project
Transmission Agreement
Amendment No. 4 Version

DESCRIPTION OF TRANSMISSION SYSTEM

The Colstrip Transmission System under this Agreement consists of the following listed facilities constructed and/or reconstructed for transmitting the output of Colstrip Generating Units #1, #2, #3 and #4 from the general vicinity of Colstrip, Montana to the interconnection with Bonneville Power Administration near Townsend, Montana and includes specifically enumerated facilities at various interconnection points with Montana's Transmission System at Colstrip and Broadview, and with the Generating Units at Colstrip.

The transmission line sections listed below are construed to include all poles, towers, tower functions, counterpoise, fixtures, conductors, insulators, overhead ground (shield) wires, fences, roads, trails, real property and property rights, and other appurtenances necessary to construct, operate, and maintain the given transmission line section.

The subsection and switchyards listed below are construed to include all electrical switchgear, transformers, reactors, capacitors, poles, towers, bus structures, bus conductors and insulators, foundations, control houses, relays, batteries, meters and metering equipment, local control devices, ground mats, raceways, wireways, conduits, potential devices, railroad spurs, real property and property rights, and other appurtenances necessary to construct, operate and maintain the given substation or switchyard as that operation pertains to the 500 kV line sections and their intended operation.

The real property and property rights associated with the specific facilities are listed separately in Exhibit "B."

All voltages listed are nominal.

COLSTRIP-BROADVIEW SEGMENT

500 kV Transmission Line Sections

- One overhead 500 kV line, approximately 116 miles long, extending from the Colstrip 500 kV switchyard to the Broadview 500 kV switchyard NW of Billings, Montana.
- One existing overhead 500 kV line, that was previously operated as a double circuit 230 kV line and which was converted to a single circuit 500 kV line, extending approximately 113 miles from the Colstrip 500 kV switchyard to the Broadview 500 kV switchyard NW of Billings, Montana.

Page 2 of 5
Exhibit A
Colstrip Project
Transmission Agreement
Amendment No. 4 Version

500 kV Switchyards and Substations

3. The Colstrip 500 kV switchyard immediately east of Montana's existing Colstrip 230 kV switchyard and substation, including the following major equipment and associated structures and facilities:

7 - 500 kV Power Circuit Breakers

2 Banks - 500 kV Shunt Line Reactors (approx. 100 Mvar. each)

2 Banks - 500/230/34.5 kV, Autotransformers (approx. 300/400/500 Mva. each)

2 – 230 kV 3 Ø Disconnect Switches to Interconnect with Montana's Existing 230 kV Bus

2 Banks - 34.5 kV Switchable Shunt Reactors for System Voltage Control (approx. 45 Mvar. each)

34.5 kV Station Power Transformers

Ground Mat, Excluding Underground Ties to the Plant Ground Mat

Conduits to Montana's 230 kV Switchyard Control House and to the Generating Units #1, #2, #3 and #4 Extending Only to the First Manhole Outside the Switchyard Fence

Control Cables to Montana's 230 kV Switchyard Control House, but Excluding Such Cables to the Generating Units #1, #2, #3, and #4.

Fencing, Except Immediately Adjacent to Montana's Existing 230 kV Switchyard
1 - Control House, including Supervisory Control, Telemetering, Relaying and
Other Equipment and Devices therein

1 - Emergency Internal Combustion Generator Set

4. A portion of the Broadview 500 kV switchyard immediately north of Montana's existing Broadview 230 kV switchyard and substation, including the following major equipment and associated structures and facilities related to the Colstrip-Broadview 500 kV lines and the Broadview 500/230/34.5 kV Autotransformers:

All 500 kV Transmission Line Relays

2 Banks - 500 kV Shunt Line Reactor (approx. 100 Mvar. each), including relays 2 Banks - 500 kV Series Capacitors, including relays

1 Bank - 34.5 kV Switchable Shunt Reactors for System Voltage Control (approx. 90 Mvar.), including relays

- 1/3 of 2 Banks 500/230/34.5 kV Autotransformers (approx. 360/480/600 Mva. each), including relays
- 7/18 of the following Common Facilities:

7 – 500 kV Power Circuit Breakers and 500 kV Buswork
230 kV Buswork to Interconnect at Two Existing Disconnect Switches in
Montana's 230 kV bus

2 - 34.5 kV Station Power Transformers

Fencing, Except Immediately Adjacent to Montana's Existing 230 kV Switchyard

1 - Switchyard Control House

1 - Warehouse

Page 3 of 5 Exhibit A Colstrip Project Transmission Agreement Amendment No. 4 Version

1 - Emergency Internal Combustion Generation Set Supervisory Control, Telemetering, Relaying and Other Equipment and Devices in the Control House which are Directly Related to the Common Facilities Listed Herein

- Not including 2/3 owned exclusively by Montana
- Not Including 2/9 owned exclusively by Montana
- Allocations of Common Facilities are based on the following:

1st level – between line positions and transformer positions:

2/6 to transformers and 4/6 to lines

2nd level – between Transmission System and Montana:

Transformers: 1/3 to Transmission System and 2/3 to Montana 100% to Transmission System and 0% to Montana

3rd level – between Segments:

Transmission System: ½ to Colstrip-Broadview Segment and

1/2 to Broadview-Townsend Segment

Allocation to Colstrip-Broadview Segment of Transmission System is therefore:

 $\frac{1}{2}(1 \times 4/6 + 1/3 \times 2/6) = 7/18$

Allocation Computer and ATRs

One-half (1/2) of the Allocation Computer and ATRs.

The term "Allocation Computer" as used herein refers to the equipment and computer software primarily located at Montana Power Company's Systems Operations Control Center in Butte, Montana, which is used to measure the output of each owners' share of electrical generation from Colstrip Units 1& 2 and Colstrip Units 3&4 and allocates to each owner the associated transmission losses for their share of the generation output.

The term "ATRs" as used herein refers to the acceleration trend relays, which include equipment and computer systems used to detect acceleration in the generation shafts of Colstrip Units 1&2 and Colstrip Units 3&4, and selectively trips the appropriate Colstrip unit(s) and the generation at the Montana One project, so that the electrically connected system meets the stability requirements of WSCC.

BROADVIEW-TOWNSEND SEGMENT

500 Kv Transmission Line Sections

Two overhead 500 kV lines, each approximately 133 miles long, extending from the Broadview 500 kV switchyard to the interconnection point with Bonneville Power Administration's 500 kV double-circuit line near Townsend, Montana.

Page 4 of 5
Exhibit A
Colstrip Project
Transmission Agreement
Amendment No. 4 Version

500 kV Switchvards and Substations

2. A portion of the Broadview 500 kV switchyard immediately north of Montana's existing Broadview 230 kV switchyard and substation including the following major equipment and associated structures and facilities related to the Broadview-Townsend 500 kV lines:

All 500 kV Transmission Line Relays

2 Banks - 500 kV Shunt Line Reactors (approx. 225 Mvar. each)) including relays

2 - Neutral Reactors for Single Pole Switching, including relays

1 Bank - 34.5 kV Switchable Shunt Reactors for System Voltage Control (approx. 90 Mvar.), including relays

** 7/18 of the following Common Facilities:

7 - 500 kV Power Circuit Breakers and 500 kV Buswork

230 kV Buswork to Interconnect at Two Existing Disconnect Switches in Montana's 230 kV Bus

2 - 34.5 kV Station Power Transformers

Fencing, Except Immediately Adjacent to Montana's Existing 230 kV Switchyard

1 - Switchyard Control House

1 - Warehouse

1 - Emergency Internal Combustion Generation Set

Supervisory Control, Telemetering, Relaying and Other Equipment and Devices in the Control House which are Directly Related to the Common Facilities Listed Herein

- Not including 2/9 owned exclusively by Montana
- Allocations of Common Facilities are based on the followings:

1st level – between line positions and transformer positions:

2/6 to transformers and 4/6 to lines

2nd level – between Transmission System and Montana:

Transformers: 1/3 to Transmission System and 2/3 to Montana Lines: 100% to Transmission System and 0% to Montana

3rd level - between Segments:

Transmission System: 1/2 to

1/2 to Colstrip-Broadview Segment and

1/2 to Broadview-Townsend Segment

Allocation to Broadview-Townsend Segment of Transmission System is therefore:

 $\frac{1}{2}(1 \times \frac{4}{6} + \frac{1}{3} \times \frac{2}{6}) = \frac{7}{18}$

Page 5 of 5
Exhibit A
Colstrip Project
Transmission Agreement
Amendment No. 4 Version

Allocation Computer and ATRs

3. One-half (1/2) of the Allocation Computer and ATRs.

The term "Allocation Computer" as used herein refers to the equipment and computer software primarily located at Montana Power Company's Systems Operations Control Center in Butte, Montana, which is used to measure the output of each owners' share of electrical generation from Colstrip Units 1& 2 and Colstrip Units 3&4 and allocates to each owner the associated transmission losses for their share of the generation output.

The term "ATRs" as used herein refers to the acceleration trend relays, which include equipment and computer systems used to detect acceleration in the generation shafts of Colstrip Units 1&2 and Colstrip Units 3&4, and selectively trips the appropriate Colstrip unit(s) and the generation at the Montana One project, so that the electrically connected system meets the stability requirements of WSCC.

<u>OTHER</u>

The SSR Protection Systems are not included in the Transmission System.

The term "SSR Protection Systems" as used herein refers to the plant protection relay equipment that protects Colstrip Units 1&2 and Colstrip Units 3&4 against subsynchronous resonance.

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AVISTA UTILITIES 2010 CAPITAL PROJECTS

ER No.: 2301

ER Name: Contractual Required Project: Tribal Permits

Pro Forma Amount: \$519,000

Expended to date: 33,254.50 (Project Task Summary Attached)

2010 Transfer to Plant Date: Quarterly during 2010

Project Description:

Contractual Required Projects: Tribal Permits: The Company has approximately 300 right-of-way permits on tribal reservations that need to be renewed. The costs include labor, appraisals, field work, legal review, GIS information, negotiations, survey (as needed), and the actual fee for the permit. This work is required to maintain right of ways, therefore there are no additional offsets or savings that will be achieved.

This is an ongoing project which requires individual negotiations on each parcel and ultimate approval by the Bureau of Indian Affairs. The amount included above is for 2010 only and will be updated for each succeeding year depending upon progress in the budget year. The Company estimates spending the following amounts as listed in attached CPRs:

Project	Description	Amount
02805430	Colville Tribe DE Permits	50,000
02805431	Spokane Tribe DE Permits	40,000
03805113	Nez Perce Distribution	150,000
03805207	Coeur d'Alene Tribe DE Permits	20,000
29905074	Spokane Tribe TE Permits	10,000
34505000	Coeur d'Alene Tribe 230kV Permits	50,000
39905017	Nez Perce Easements	44,610
39905043	Coeur d'Alene Tribe Permits	30,000
-	Other misc. projects	124,390
Total		519,000

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

AVISTA UTILITIES 2010 CAPITAL PROJECTS

Timeline:

The timeline is completely dependent on the speed at which negotiations are completed. While there is not specific timeline, it is in the best interest of Avista to complete this work as soon as possible to avoid potentially increasing costs.

Additional Information:

•	Project Task Summary	pg. 3-4
•	Capital Project Request (CPR) Forms, including all attachments.	pg. 6-13
•	Memo from Teri Patton to Debbie Deubel indicating \$600,000 budget. Budget was later reduced to \$519,000.	pg. 14-15
•	Labor costs for Pole inventories on all Reservations (based on similar 2007 inventories)	pg. 16

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

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	/ Corp.			(CPR)	Select	03805207
ER/	Budget Category	Service Code	Projec	t Title (30 Characters)	Project Title Count	
2301	3-Maintenance	ED-Electric Direct	Coeur d'A	Alene Tribe DE Permits	30	
Long Project Na	ne (100 Characters					'Parent' Code
		Coeur d'Alene Tribe Dis	tribution Permits & S	Settlements		
Approved Budget	Will This Project	Long Project Name Count	ED Cooper	Pl Number	WMS Job#	Data Mindiation
Approved Budget	Include	54	ER Sponsor V08	BI Number CD 903	WW15 JOD #	Rate Mrisdiction
	Retirement of	Revenue Type			Løt	ation
	Materials or	NA- Not Applicable			038-	ldaho
Billing	Equipment2		Billing Contact			Start Date
	No /	<u> </u>			10/0	1/2009
Project Descripti	on (Include Purpos	se and Necessity - 240 Characters	s)			Long Name Count
Project involve	es costs and labor	associated with renewing distri	bution permits for ex	isting Avista facilities that cross	the Coeur d'Alene	
77	In	dian Reservation which have ex	pired or will be expir	ing in the near future		
						215
		CONSTRUCTION		Budget Authorized:		\$20,000
Office Use only	FERC	Estimated Amount	As Built Amount			
Task	3XXXXX	By FERC Number	By FERC Number	Office Use O	Only	Date
	107110	\$20,000		Project Set Up By		
IMILA	3604001	(for 2010; 2011 and 2012		Approved By		intellar
IUTIU	JEVAU	vet to be determined)		THE THE		14/1/07
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of Majorian					APPROVALS	
1215/66/12/596			/	SIGNATUI	RE	DATE
GROSS ADDITI		\$20,000		Signature	Denle	// .
Cost of Remov	al By FERC (3XX	XXX)		Marca	Dan -	9/17/09
				Print Name MARIA	NDURKIN	11.11
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3542 S 344.0				Signature		
	Total Removal					
Salvage By FER	RC (3XXXXX)			Print Name		
1, 1 (3 1 1 1 H A .)				Signature		
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Peer Task	I DIEGRUOWII	Totacture Needed (Optional)	1	Project Contact & Extension	Teri Patton, x 466	3 -4-7-10
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				APPROVALS	GNATURE(S) REQU	IDED
		ļ			IGNATURE(3) REQU	IKED
				To \$99,999 - Director	NA LIMBE	
Sub Task				\$100,000-\$499,999 - VP or G		
				\$500,000-\$2,999,999 - Sr Vic		
				\$3,000,000-\$9,999,999 - Pres		
				Over \$10,000,000 - Board Ch		
				Out-of-Budget - Capital Budge	et Committee	
				THE PROJECT SPONSOR IS R	ESPONSIBLE FOR CLO	OSING THIS JOB.
Date Prepared:	09/17/09			IMMEDIATELY UPON COMPLE	TION OF WORK, SIGN	THIS FORM,
				COMPLETE AS BUILT INFO AN	D FORWARD TO UTIL	ITY ACCOUNTING.
TOTAL COST O	OF PROJECT	\$20,000				
		A		Date Work Completed		
(Questions: contact	Project and Fixed Asset Accou	nting	Foreman/		
				The state of the s		

	ISTA.	CAPITA	L PROJECT REQ	UEST FORM	Request Type	Project(s)
ER /	Corp	a the second of	S. Comments	(CPR)	Select	299050911
2301	Budget Category		Proje	ct Title (30 Characters)	Project Title Count	21103014
	Maintenance me (100 Characters	ED-Electric Direct	Spok	ane Tribe TE Permits	24	
Long . roject 13)	Spokane Tribe 115kV Tra	ansmission Permits	& Settlements		'Parent' Code
Approved Budget	Include	Long Project Name Count 54	ER Sponsor V08	BI Number ST 904	WMS Job#	Rate Jurisdiction
	Retirement of	Revenue Type		0.001	Loc	AN-Allocated Nor
Billing	Materials or Equipment2	NA- Not Applicable	Dilli O. 4		299-1154	v line WA
	No /		Billing Contact	X	Project	Start Date 1/2009
Project Descript Project involve	s costs and labor a	se and Necessity - 240 Character associated with renewing 115kV dian Reservation which have ex	transmission permit	ts for existing Avista facilities that ring in the near future	t cross the Spokane	Long Name Count
		CONSTRUCTION		Budget Authorized:		215
Office Use only	FERC	Estimated Amount	As Built Amount	Esegui / tatilonzea.		\$10,000
Task	3XXXXX	By FERC Number	By FERC Number	Office Use Or	She	
	107300	\$10,000	,	Project Set Up By	lly .	Date
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		yet to be determined)		Approved By	TOTAL CONTRACTOR	10/14/09
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handles (SA)			/		PROVALS	
GROSS ADDIT	IONS	\$40,000 A	/	SIGNATURE		DATE
	al By FERC (3XXX	\$10,000		Signature Max :	VILLE -	/.
Sout of Itemov	ar by r ERG (3XXX	(AA)		V / 1000		9/17/09
				Print Name MARIAN	DURKIN	((1) 0
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2012 C. 4642	Total Removal					
Salvage By FER	RC (3XXXXX)			Print Name		
2500000				Signature		
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A Social state	Total Salvage			Signature		
otal Removal	Less Salvage					
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Ion Standard V	Vork Breakdown	Structure Needed (Optional)				
eer Task				Project Contact & Extension	Teri Patton, x 4663	-tf1)
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				APPROVAL SIGN	NATURE(S) REQUIR	PED.
				To \$99,999 - Director	WITONE TO THE WORK	LD
ub Task				\$100,000-\$499,999 - VP or GM I	Itility	
				\$500,000-\$433,399 - VP of GM of States of Stat		
				\$3,000,000-\$9,999,999 - Preside		
					MINGEO/COO	
				Over \$10,000,000 - Board Chair	N. C. C. C. C. C. C. C. C. C. C. C. C. C.	
				Out-of-Budget - Capital Budget C	ommittee	
				THE BBO JECT COOLIGE		Carlot Co. Carlot (1997) Charlot Harris Co.
ate Prepared:	09/17/09			THE PROJECT SPONSOR IS RESP	ONSIBLE FOR CLOS	ING THIS JOB.
				MMEDIATELY UPON COMPLETIO	N OF WORK, SIGN TH	IIS FORM,
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		\$10,000		Deta Wed. Co		
Oı	uestions: contact P	roject and Fixed Asset Account		Date Work Completed		
~		472 or Howard ext-2936)		Foreman/		
	(SGO ONL-4-	5	E	Supervisor		

	STA	CAPITAL	PROJECT REQU	JEST FORM	Request Type	Project(s)
	, Corp.		(CPR) Project Title (30 Characters) Coeur d'Alene Tribe 230kV Permits		Select	3450500
ER 2301 3	Sudget Category	Service Code ED-Electric Direct			Project Title Count	7 00 000
	me (100 Characters		1 COCCUI CI AI	ene Tribe 250KV Ferrints		'Parent' Code
		'Alene Tribe - Benewah-PineCre	eek230kV Transmiss	sion Permits & Settlements		Parent Code
Approved Budget	Will This Project Include	Long Project Name Count 79	ER Sponsor V08	BI Number CT 902	WMS Job#	Rate Jurisdiction
	Retirement of	Revenue Type				ation
Billing	Materials or Equipment?	NA- Not Applicable	Billing Contact		Project	h-Pine Cr 230 Start Date 1/2009
	es costs and labor	se and Necessity - 240 Character associated with renewing permi ur d'Alene Indian Reservation wi	ts for existing Avista	Benewah-Pine Creek 230kV tra will be expiring in the near future	nsmission line that	Long Name Count
		CONSTRUCTION		Budget Authorized		234
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lask		By FERC Number	By FERC Number		ny	Date
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		yet to be determined)		//		/ / /
on Mark City						
1 4464				AF	PROVALS	
				SIGNATUR	E	DATE
GROSS ADDIT	IONS	\$50,000		Signature Maria		
Cost of Remov	al By FERC (3XX	XXX)		1,,000	yuu —	9/17/09
				Print Name MARIAN	DURKIN	11111111
				Signature		
5.5 SHO MAY NO.				Print Name		
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	Total Removal			o.g.iataro		
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	Tatal Calusas			Print Name		
T 1 1 0	Total Salvage			Signature		
Total Removal	Less Salvage					
				Print Name		
	Work Breakdown	Structure Needed (Optional)		1		1.4
Peer Task				Project Contact & Extension	Teri Patton, x 466	3-CCD
				APPROVAL SIG	NATURE(S) REQU	IRED
				To \$99,999 - Director		
Sub Task				\$100,000-\$499,999 - VP or GM		
				\$500,000-\$2,999,999 - Sr Vice	President/CFO	
				\$3,000,000-\$9,999,999 - Presid	lent/CEO/COO	
				Over \$10,000,000 - Board Chai	r	
				Out-of-Budget - Capital Budget	Committee	
				THE PROJECT SPONSOR IS RES	SPONSIBLE FOR CLC	SING THIS JOB.
Date Prepared:	09/17/09			IMMEDIATELY UPON COMPLETI	ON OF WORK, SIGN	THIS FORM,
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		777,000		Date Work Completed		
c	Questions: contact	Project and Fixed Asset Accoun	ntina	Foreman/		
		4472 or Howard ext-2936)	9	Supervisor		
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	Property 10	W	LEGT DEGUE	OT FORM	737	K-4), Schedule 11
AWIS!	1 / 3/0	GAPITAL PRO	JECT REQUE	STFORM	Request Type	PROJECT
	Corp. 4 10	KP .	(CPR)	,	Select	39905017
• 2361	Budget Cat	SERVICE CODE DED	PROJECT T LOLD — Nez Perce E	ITLE (30 CHARS)	Project Chars	LOCATION
2001	. 5		JECT DESCRIPTION (250		19	299 3991
			CON 18	(Young to 1902 = 190 ■ (I)	;	
		Lolo-Nez Perce 115k\	/ line: Convert expire	ed permits to easeme	ents	
APPROVED BUDGET		Description Chars Count	ORGANIZATION	R/I NUMBER	WMS (Y OR N)	DATE HIDISDICTION
x		65	V08	* L070 2	n NWIS (TOKIN)	RATE JURISDICTION AN
BILLING			BILLING CONTACT		PROJECT START DATE	
				N. 19	Aug-06	
			JDE PURPOSE AND NECE			
Lolo-Nez Perce	115kV Transmiss	sion Line: purpose is	to account for dollars	expended in convert	ing expired permits	to easements on
tribal allo	otments on Nez P	ece Reservation. Trib	oe threatened lawsuit	for trespass; claims	are settled through r	nediation
					,	Long Name Count
CONSTRUCTION				TT		249
CONSTRUCTION	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT	Total Constructi	on Cost	\$44,610
<u> </u>	- 3XXXXX	BY FERC NUMBER	BY FERC NUMBER	NOT REC	N IIPEN	10.03
107300/	000350	44.610	DITERO NOMBER	BUDGET AUTHORI		10702
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12.865(44x 2.72x = 1				THIS AFE		1147.54
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				BALANCE NOT API	PROVED	
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ALVAGE	STILKO (SXXXX	l		J J		
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- ASS. (\$12.5)						
				Project Contact	Teri Patton, x 4663	
				455500141	01011471107(0) 07	
				PARTY AND DESCRIPTION OF THE PARTY AND DESCRI	SIGNATURE(S) RE	QUIRED
NET SALVAGE				To \$99,999 - Director \$100,000-\$499,999		
NET ONE VAGE				CHARLES TO THE TOTAL OF THE PARTY.	9 - Sr Vice President	
				\$2,000,000-\$2,999,9	ASSESS THE REPORT OF THE PARTY	
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Non Standard Wo	ork Breakdown	Structure needed (O	ptional)	\$5,000,000-\$9,999,9		
				Over \$10,000,000 -	Board Chair	
				Out-of-Budget - Cap	ital Budget Committee	
				Editor State Control of the Control	SPONSOR IS RESPON	SIBLE
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Date Prepared:	01/02/2007	ľ				
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TOTAL COST OF PRO	DJECT			Supervisor		

AII	M. metrel	(°			Exhibit No(SJI	K-4), Schedule 11
Alvis	TA MAN IN	CAPITAL PRO	JECT REQUES	STFORM	Request Type	PROJECT
	Corp. 2016	W .	(CPR)		Select	39905043
ER / I	Budget Cat	SERVICE CODE	PROJECT TI	TLE (30 CHARS)	Project Chars	LOCATION
2301	53	ED	Coeur d'Alene	Tribe Permits	27	399
		PROJ	ECT DESCRIPTION (250 C			
				,		
,	Convert Coeur d'	Alene tribal permits to	easements Tra	USHISSION		
APPROVED BUDGET				/		
X		Description Chars Count 219	ORGANIZATION	B/I NUMBER CT700	WMS (Y OR N) N	RATE JURISDICTION
		219				
BILLING			BILLING CONTACT		PROJECT START DAT	E
					Jan-09	
		LONG NAME (INCLU	JDE PURPOSE AND NECE	SSITY - 240 CHARS)		
		In conjunction with th	ne relicensing of the Sp	okane River project	t, the Coeur d'Alene	
			xpired or nearly expire			
			renewed by converting			
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						Long Warne Count
CONSTRUCTION	1			Total Construction	on Cost	\$30,000
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					-	
					T- : D-# 1 10	00
				Project Contact	Teri Patton, ext. 46	63
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					9 - Sr Vice President	
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Non Standard We	ork Breakdown	Structure needed (O	ptional)	\$5,000,000-\$9,999,9		
				Over \$10,000,000 - I		
				Out-of-Budget - Cap	ital Budget Committee	
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				IMMEDIATELY UPO	ON COMPLETION OF W	ORK,
				SIGN THIS FORM,	COMPLETE AS BUILT I	NFO AND
		ř		FORWARD TO PLA	NT ACCOUNTING.	
Date Prepared:						
			İ	Date Work Comple	eted	
				Foreman/		
TOTAL COST OF PRO	DJECT	\$30,000		Supervisor		

Jumsmission.

Patton, Teri

om:

Patton, Teri

ent:

Saturday, October 17, 2009 6:07 PM

To:

Deubel, Debbie; Lee, Julie

Subject:

FW: Capital Budget

Importance:

High

Well, wouldn't you know it. The moment I think I've got it figured out I realized I did something wrong. I put in 100% of Nicola's labor, when it was supposed to be 80%. I recalculated everything – please note changes below. I just went into the system (at 4:30 Saturday) and made the changes. The corrections are in Blue.

Teri

From: Patton, Teri

Sent: Friday, October 16, 2009 3:03 PM

To: Deubel, Debbie; Lee, Julie Subject: Capital Budget

Well ladies, I think I have the capital budget submitted for ER 2301

It should be as follows:

) 903		\$18,461 \$ 1,539
CT 700	\$26,077 – Other \$ 1,923 – Labor \$ 2,000 - Legal \$30,000 – TOTAL	\$25,691 \$ 2,309
CT 902		\$43,151 \$ 3,849
LD 703	\$ 85,189 - Other \$ 4,811 - Labor \$ 10,000 - Legal \$100,000 - TOTAL	\$86,152 \$ 3,848
LT 731	\$245,569 - Other \$ 14,431 - Labor \$ 40,000 - Legal \$300,000 - TOTAL	\$248,455 \$ 11,545
SD 902	\$27,304 – Other	\$28,842

	\$ 7,696 – Labor \$ 5,000 – Legal \$40,000 – TOTAL	\$ 6,158
ST 904	\$ 8,075 - Other \$ 1,925 - Labor \$ 0 - Legal \$10,000 - TOTAL	\$8,461 \$1,539
WD 906	5\$35,379 – Other \$ 9,621 – Labor \$ 5,000 – Legal \$50,000 – TOTAL	\$37,303 \$ 7,697 Total = \$600K

I used Non-construction General for Nicola's labor as the facilities are already constructed. She's doing basically the necessary paperwork (organizing and filing) as well computer data entry.

Toni has not gone in and approved the labor at this point, but I think we'll be okay.

	Labor	Expenses	Total
Engineering Technical Services - C08	30,437.79	13,288.33	43,726.12
Drafting - N08	40,212.24		40,212.24
IS/IT - P09		20,229.26	20,229.26
Totals	70,650.03	33,517.59	104,167.62
% of Total	67.82%	32.18%	100.00%
Total Number of Poles Inventoried		Т	6,352

Assumed Inflation at 3% per Year 2006 - 2010:	

·	
Overall Cost per Pole - 2010	18.46

Tribal Resevation Pole Inventory 2010 - Project Estimate							
	Transmission	Distribution	Total	Adjusted Total	Cost per Pole	Total Inventory	
	Halisillission			= Total + 30%*	(2010)	Cost	
CDA Reservation	728	2037	2765	3595	\$ 18.46	\$ 66,354.47	
Colville Reservation	0	1663	1663	2162	\$ 18.46	\$ 39,908.67	
Spokane Reservation	32	1510	1542	2005	\$ 18.46	\$ 37,004.92	
Project Totals	760	5210	5970	7761		\$ 143,268.06	

^{*} Assumed 30% poles not currently in AFM

AVISTA UTILITIES 2010 CAPITAL PROJECTS

ER No.: 2307

ER Name: Idaho Road Sub - Boulder Rathdrum 115kV Transmission Line (Phase 2)

Pro Forma Amount: \$1,500,000

Expended to date: \$138,544

2010 Transfer to Plant Date: December 31, 2010

ER Description:

Growth has brought the need to construction the Idaho Road 1 15kV/13kV distribution substation, located at the northeast comer of Idaho Road and Prairie Avenue near Rathdrum, Idaho. Idaho Road Substation is located approximately five (5) miles southwest of Avista's existing Rathdrum 230kV/115kV/13kV station. The Boulder to Rathdrum (BLD-RAT) 115kV transmission line runs in an east/west path approximately one-half (1/2) mile south of the Idaho Road Substation location.

Phase 2 of the Substation Integration Project will connect the Idaho Road Substation directly to the Rathdrum Substation with a new transmission line, providing a four (4) mile loop (increased reliability) feed, and allowing the removal of approximately three and one-half (3-1/2) difficult access transmission line. Presently the substation is fed off the twenty (20) mile long BLD-RAT line via a ½ mile tap. An outage anywhere along the BLD-RAT will interrupt service to the Idaho Road Substation.

Additionally, approximately two (2) miles of double circuit transmission line will be reframed to single circuit, improving the structural integrity of the line. Phase 2 is scheduled to construct in FY2010. The route is designed to be constructed on private easements adjacent to the Union Pacific Railroad property running SW/NE.

The transmission line estimating process uses a baseline per mile costs derived from industry averages (see attached Feasibility Cost Chart for further detail). This number is increased based on consideration of project variables including, but not limited to, project location, soil conditions, construction timing, commodity prices, overhead rates, etc. A parallel estimate is also developed based on the engineer's/designer's best judgment of what it will take to complete the project using the line items established in the Engineer Design Scoping Document (DSD: see attached for further details). These two approaches are reconciled with review of the department manager. An additional estimate check is made when the project uses the TL-Pro design software package. This program contains an estimating function based on variables provided by the user. Steel poles and crossarms are specified for their lifecycle cost advantages.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. In addition, using 2009 actual loads, the new conductor will

AVISTA UTILITIES 2010 CAPITAL PROJECTS

reduce line losses by 100 MWh on an annual basis, establishing a yearly offset savings of \$10,000 (based on a \$100/MWh avoided energy cost), which was pro formed in the case.

Timeline:	Start Date	End Date
BI CT906: Boulder Rathdrum 115kV Transmission	January 5, 2009	November 9, 2010
See attached timeline for further detail.		

Attachment Index:

•	Cost	pg. 3
•	Capital Project Request (CPR) Forms, including all attachments	pg. 4-6
•	Design Scoping Document	pg. 7-8
•	Timeline of Project (detailed)	pg. 9

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2307 COSTS THROUGH MARCH 15, 2010

			2008	2009	2010	Costs	
			Transaction Amt	Transaction Amt	Transaction Amt	Through 3.15.2010	Total Costs
Er Project	Project Desc	Expenditure Category					
2307 39905031	Idaho Rd sub integration RW	Employee Expenses	819.86	239.80	47.00		
		Labor	4,369.56	6,821.92	724.02		
		Overhead	3,922.48	20,443.34	977.30		
		Voucher	75.00	65,912.00	-		
	Sum		9,186.90	93,417.06	1,748.32	104,352.28	140,000.00
39905051	Idaho rd sub integration ph2	AFUDC	-	743.24	362.41	-	
		Labor	-	8,109.11	2,175.10		
		Material	-	1,282.66	-		
		Overhead	-	9,694.69	1,893.42		
		Transportation	-	337.50	-		
		Voucher	-	5,171.58	-		
	Sum			25,338.78	4,430.93	29,769.71	1,300,000.00
39905066	Idaho Rd sub int Legal	Contractor	-	-	3,512.50	•	
		Overhead	-	-	909.04		
	Sum				4,421.54	4,421.54	75,000.00
Sum			9,186.90	118,755.84	10,600.79	138,543.53	1,515,000.00

Corp.		CAPITAL PRO	JJECI KEQUE	Request Type PROJECT Extension Need (SJK 4) Spherale 12		
2307	Budget Cat 5	SERVICE CODE ED	PROJECT IDAHO RD SUE	TITLE (30 CHARS) B INTEGRATION	Project Chars	LOCATION
Phase 2: Constr	uct loop from the	PRO. e Idaho Rd. Substation	IECT DESCRIPTION (OF	CILLADA	The state of the s	
APPROVED BUDGET		Description Chars Count 136	ORGANIZATION M08	B/I NUMBER CT906	WMS (Y OR N)	RATE JURISDICTIO
BILLING			BILLING CONTACT		PROJECT START DA	ATE
existing BLD-	RAT 115kV line	LONG NAME (INCLU : Phase 2 (Boulder-Ra rom the Idaho Rd. Sub at Meyer Rd. E/P/C is se 2 portion of project.	IDE PURPOSE AND NEC thdrum 115kV Line L station along a northe scheduled to comple	oop). This phase	of the project propos	es to construct an connecting to the y June 1, 2010.
CONSTRUCTION		- portion of project.		T 110		Long Name Count 385
	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT	Total Construc	ction Cost	\$1,300,000
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107300	356000	\$350,000		THIS AFE		
				TOTAL TO DATE		
				BALANCE NOT A	PPROVED	
					APPROVALS	
ROSS ADDITIONS		\$1,300,000		SIG	NATURE	DATE
IET SALVAGE BY	7 FERC (3XXXX 355000	(X)		Dave James	MICH.	4-8-09
	356000			Rick Vermeers	Gilsden	4-9-09
				Don Kopczynsk	April	
				Scott Morris		
ET SALVAGE						
_1 SALVAGE				Project Contact	Ken Sweigart (4417)
				APPROVAL	SIGNATURE(S) RE	QUIRED
on Standard Worl	k Breakdown S	tructure needed (Opt	tional)	To \$99,999 - Direct		
				\$100,000-\$499,999		
				\$2,000,000-\$9,999,	99 - Sr Vice President	
				Over \$10,000,000 -		
					oital Budget Committee	
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				FOR GLOSING THE		JOICE
					ON COMPLETION OF W	OPK
ate Prepared:	1/9/2009				COMPLETE AS BUILT IN	
				Date Work Compl		and the second s
COST OF PROJE	CT	\$1,300,000		Foreman/		
	U1	20 XUU DOO I		Supervisor		1

CAPITAL PROJECT REQUEST FORM

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ETUS		CAPITAL PRO	JECI KEQUE	SIFURM	Request Type	· PROJECT K- 399:05061R
	Corp.					N-4)3200500 14/
ER 2307	Budget Cat 5	SERVICE CODE ED	IDAHO RD SUB INT		Project Chars 29	LOCATION 399
			ECT DESCRIPTION (250 C	,		
Construc	t Tap and Loop fi	rom the Boulder-Ratho	Irum 115kV transmiss	ion line to integrate	the new Idaho Rd S	ubstation.
APPROVED BUDGET		Description Chars Count 114	ORGANIZATION L08	B/I NUMBER CT906	WMS (Y OR N) N	RATE JURISDICTION AN
BILLING			BILLING CONTACT		PROJECT START DAT	E 2/1/2008
RAT 115kV lin Railroad	e to the Idaho Ro property. This Ca	LONG NAME (INCLU ap and Loop: Idaho Rd d Substation (located a apital Project Request i ct Request 39905028R	pproximately one mile s for R/W Acquisition	n. This project prope north of the line) a along Idaho Rd and	nd subsequent loop d adjecent to railroad	adjacent to UP
						379
CONSTRUCTION		7		Total Construct	ion Cost	\$140,000
-	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT			
	3XXXXX	BY FERC NUMBER	BY FERC NUMBER	NOT RE		
107300	350400	\$140,000		BUDGET AUTHOR	IZATION	
			A1744-20	PREVIOUSLY APP	ROVED	
				THIS AFE		
				TOTAL TO DATE		
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GROSS ADDITIONS		\$140,000			11-11	
NET SALVAGE	BY FERC (3XXXX	XX)		Dave James /	11(//-	4-8-09
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NET SALVAGE				Project Contact	Ken Sweigart (4417)
					SIGNATURE(S) RE	QUIRED
				To \$99,999 - Direct	or	
Non Standard W	ork Breakdown	Structure needed (O	ptional)	\$100,000-\$499,999	- VP or GM Utility	
				\$500,000-\$1,999,99	99 - Sr Vice President	
				\$2,000,000-\$9,999,	999 - CEO	
				Over \$10,000,000 -	Board Chair	
				Out-of-Budget - Cap	oital Budget Committee	
					A SPONSOR IS RESPON	NSIBLE
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					ON COMPLETION OF W	ORK.
Date Prepared:	4/8/2009]		SIGN THIS FORM,	COMPLETE AS BUILT I	
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\$140,000

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Foreman/

Supervisor



CAPITAL PROJECT REQUEST FORM

Request Type PROJECT

	Corp.						314050lds
ER 2307	Budget Cat 5	SERVICE CODE	PROJECT	ITLE	(30 CHARS)	Police State	LOCATION
2001	<u> </u>	ED PPO	IDAHO RD SU ECT DESCRIPTION (250	BIN	NT: LEGAL	23	399
Construc	t Tap and Loon	from the Boulder-Rath	drum 115kV transmis	CHA	KS) Line to interret	- 4h	.
		and Bouldon Halli	aram Front transmis	5101	i line to integrati	e the new Idano Rd	Substation.
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APPROVED BUDGET		Description Ghars Gount	ORGANIZATION		B/I NUMBER	WMS (Y OR N)	RATE JURISDICTIO
		11/5	L08		CT906	N	AN
BILLING			BILLING CONTACT			PROJECT START DAT	
							02-01-2008
		LONG NAME (INCLU	JDE PURPOSE AND NEC	ESS	TY - 240 CHARS)		
Boulder-Rath	ndrum 115kV Li	ne Tap and Loop: Phas	e 2 Idaho Rd Substat	ion	Integration Thi	s portion of the proje	ect proposes to
construct a loop	reed to the idal	no Ra. Substation trave	ling adjacent to UP R	lailro	pad property Th	is Capital Project R	equest is for Lea:
	Serv	ices (as needed) for acc	quiring easements ac	ljace	ent to the railroa	d property.	- 4
Note: See separa	ate Captial Proj	ect Request 39905051	for Phase 2 design/p	rocu	rement/construe	ction	Long Name Count
							339
CONSTRUCTION	N				Total Construct	ion Cost	\$75,000
_	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT				Ψ10,000
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107300	350400	\$75,000			BUDGET AUTHOR	IZATION	
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					Rick Vermeers	Diane.	3/4/2
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					Don Kopczynsk	i	
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					Scott Morris		,
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Date Prepared:	02-16-2010]			ORWARD TO PLA		
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OTAL 0.5.5				-	oreman/		
OTAL COST OF PRO	JECT	\$75,000		S	upervisor	-	
						and the second s	

DESIGN SCOPING DOCUMENT

BOULDER TO RATHDRUM 115KV TRANSMISSION LINE IDAHO ROAD SUBSTATION INTEGRATION PROJECT PHASE 2

PROJECT DESCRIPTION:

Growth has brought the need to construction the Idaho Road 115kV/13kV distribution substation, located at the northeast corner of Idaho Road and Prairie Avenue near Rathdrum, Idaho. Idaho Road Substation is located approximately five (5) miles southwest of Avista's existing Rathdrum 230kV/115kV/13kV station. The Boulder to Rathdrum (BLD-RAT) 115kV transmission line runs in an east/west path approximately one-half (1/2) mile south of the Idaho Road Substation location.

Phase 1 of the Substation Integration Project calls for constructing a one half (1/2) mile 115kV tap from the BLD RAT 115kV line to the new Idaho Road Substation using 795 AAC "Arbutus" conductor. The line will be placed in an existing 15' utility easement corridor established by the City of Rathdrum along the east side of Idaho Road. The new line will cross over a Kootenai Electric Company (KEC) 13kV distribution line at Prairie Avenue. The new line, in conjunction with associated projects, will incorporate two circuits of distribution underbuild, along with an operations fiber communication link.

Phase 2 of the Substation Integration Project will connect the Idaho Road Substation directly to the Rathdrum Substation with a new transmission line, providing a four (4) mile additional loop feed, and allowing the removal of approximately three and one-half (3-1/2) difficult access transmission line. Additionally, approximately two (2) miles of double circuit transmission line will be reframed to single circuit, improving the structural integrity of the line. Phase 2 is scheduled to construct in FY2010. The route is designed to be constructed on private easements adjacent to the Union Pacific Railroad property running SW/NE.

SYSTEM CONFIGURATION:

115kV @ Boulder (RAT Bay): Power Circuit Breaker A720 and Line Side Switch

Open Jumpers @ 3-Way Deadend Structure 22/5 (Phase 1 Tap)

115kV @ Rathdrum (BLD Bay): Power Circuit Breaker A501 and Line Side Switch

GENERAL RESPONSIBILITIES:

ER: 2307 BI: CT906

Project Number: ???????? URDATE

Engineering Task Number: 300100
Construction Installation Number: 107300
Project Coordinator: Ken Sweige

Project Coordinator: Ken Sweigart
Line/Structural Designer: Ken Sweigart
System Planning: Jim Farby

System Operations: Rich Hydzik/Garth Brandon Right-of-Way (Customer Contacts): Ron McGregor/Dave Paden

Environmental Permitting: Robin Bekkedahl

Line Construction: CDA Operations (Scott Weber)

Inspection: CDA Operations

DSD BLD-RAT Idaho Rd Sub Phase 2.doc

Created: 4/07/2009 Last Modified: 4/07/2009

PROJECT SCHEDULE (Phase 2):

Line Design	April, 2009 to December, 2009
Issue Job Package	January 15, 2010
Procure Line Materials	November, 2009 to February, 2010
Receive Line Materials	February 15, 2010
Line Construction.	March to May, 2010
Scheduled In-Service Date.	June 1, 2010

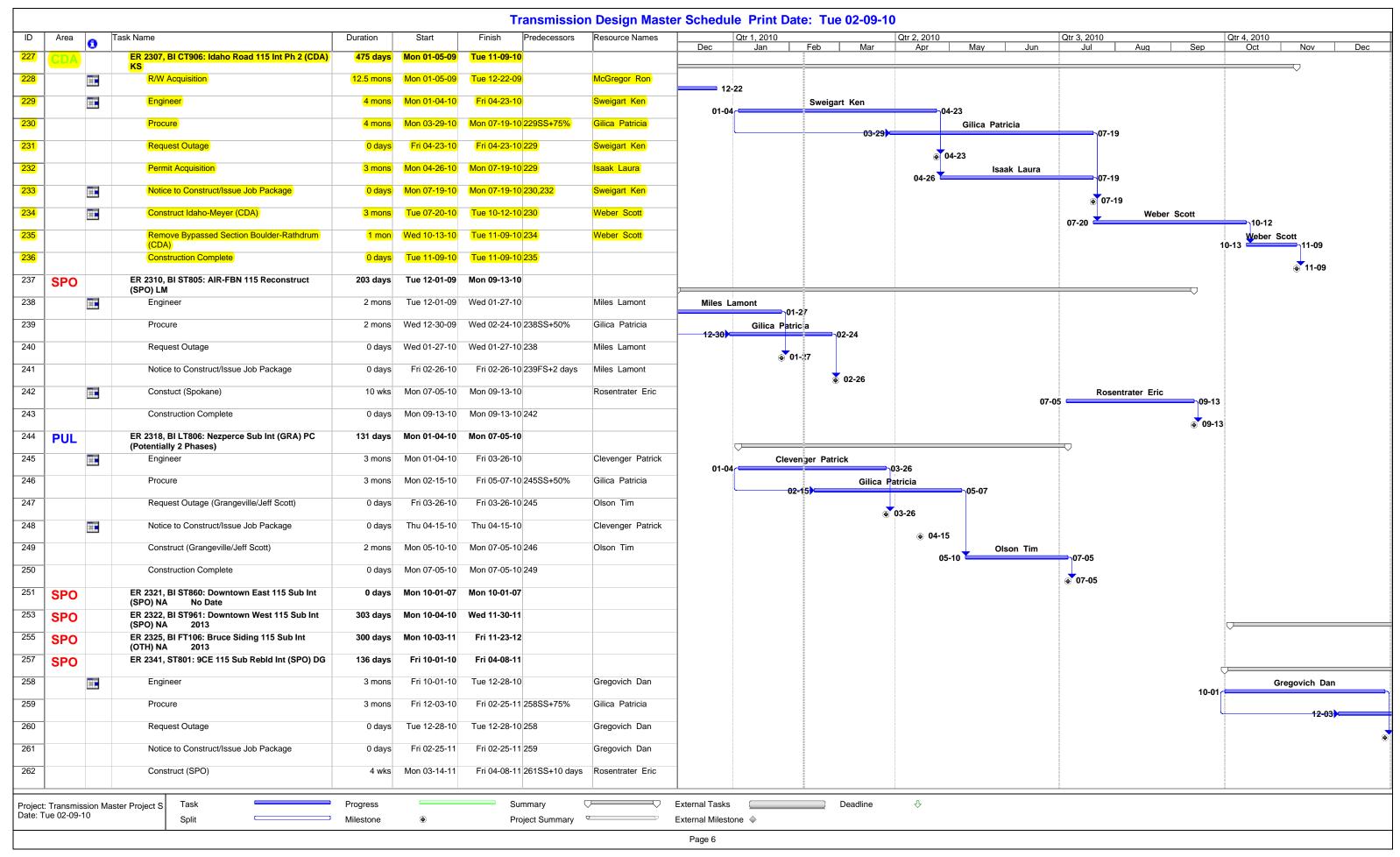
PROJECT COST ESTIMATE (Engineering Estimate based on Specific Scope #'s):

BLD-RAT 115kV	(Phase 2))

BLD-RAT 115kV (Phase 2)	
1. Materials: (4) Specialty Structures:	\$125,000
(52) Standard Structures:	\$300,000
Conductor:	\$130,000
Line Material:	\$ 90,000
2. Construction: Site Preparation:	\$ 20,000
Relocates:	\$ 10,000
Construction Facilities & Material:	\$ 25,000
Traffic Control:	\$ 15,000
Restoration:	\$ 15,000
3. Construction Labor: Foundations, (35) days @ \$5k per:	\$175,000
Structures, (15) days @ \$5k per:	\$ 75,000
Stringing, (20) days @ \$5k per:	\$100,000
	(subtotal) \$1,080,000
TOTAL (Material and Construction):	\$1,080,000
TOTAL (Engineering):	\$ 50,000
TOTAL (Taxes, A&G, and PM): @ 15%	\$170,000
TOTAL COST OF PROJECT (Phase 2 Engineering Estimate)): \$1,300,000 *

Procurement and Construction costs include overheads and taxes

Created: 4/07/2009 Last Modified: 4/07/2009



ER No.: 2051

ER Name: Noxon - Pine Creek 230 kV Ready Fiber Optic

Amount: \$500,000

Expended to date: \$166,519

2010 Transfer to Plant Date: \$42,000 monthly

Project Description:

These projects include minor transmission rebuilds as a result of age or damage caused by storms, wind, fire, and the public. These smaller projects are required to operate the transmission system safely and reliably. Facilities will need to be replaced when damaged in order to maintain customer load service. In 2009 the Company spent \$2.206 million on these minor rebuild projects as a result of damage caused by weather or the public. Due to the cyclical nature of these projects, and the lack of conductor capacity increases, there are no offsets or savings associated with these minor rebuild efforts.

The current spend through March 16, 2010 is \$166,519. The Company has spent an average of approximately \$922,000 per year on these minor transmission rebuilds.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

This project will begin in January and end in December 2010.

Additional Information:

ER Historical Cost Detail

pg. 2-3

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2051 HISTORY OF COSTS 2005 THROUGH MARCH 15, 2010

Overhead 505 Capital Overhead - A & G 724.02 1,813.00 2,223.01 2,795.99 6,764.66 807.26 506 Cap Overhead - Functional 506 Cap Overhead - Functional 506 Cap Overhead - Safety Cithing 506 Cap Overhid - Safety Cithing 506 Cap Overhid - Safety Cithing 510 Payroll Benefits loading 510 Payroll Benefits loading 43,836.28 55,204.84 60,336.29 61,750.83 91,673.18 10,030.22 29.48 515 Payroll Tax loading 515 Payroll Time Off loading 520 Payroll Time Off loading 520 Payroll Time Off loading 520 Payroll Time Off loading 53,482.69 4,816.40 7,356.37 5,990.90 9,124.28 929.90 530 Stores/Material Loading 530 Stores/Material Loading 532 Materials Tax/Fight Loading 532 Materials Tax/Fight Loading 532 Materials Tax/Fight Loading 536 Ray 134.99 3,622.35 2,801.34 1,807.52 3,387.17 614.87 Transportation 560 Road Vehicles 570 Work Vehicles 572.09.35 749.91 2,378.20 1,469.25 630.00 3,112.15 161.40 Vehicle 705 Lease Expense - Vehicle 707 Lease Expense - Vehicle 712 Vehicle Aircraft Expense 720 Vehicle Fuel Gasoline 721 Vehicle Fuel Gasoline 721 Vehicle Fuel Gasoline 721 Vehicle Fuel Gasoline 725 Vehicle Parts & Supplies 725 Vehicle Parts & Supplies 725 Vehicle Parts & Supplies 726 Vehicle 725 Vehicle Parts & Supplies 726 Vehicle 725 Vehicle Parts & Supplies 724 Vehicle Fuel Diesel 725 Vehicle Parts & Supplies 724 Vehicle Fuel Diesel 725 Vehicle Parts & Sup	2003	THROUGH MARCH 15, 2	010	2005	2006	2007	2008	2009	2010
AFUDIC S33 AFUDIC - Debt S40 AFUDIC - Equity S40 AFUDIC -				Transaction Amt	Transaction Amt	Transaction Amt	Transaction Amt	Transaction Amt	Transaction Amt
Contractor	Er	Expenditure Category	Expenditure Type						
Contractor	2051	AFUDC	535 AFUDC - Debt	-	-	-	-	-	-
015 Construction Services 5,617.80 82,359.43 55,512.41 72,348.95 135,592.22 6,677.55 20,000 125 Temporary Labor 292.50 10,488.80 56,711.56 230,825.88 63,134.48 69,049.18 7,758.57 (2,014.55) (15 CIAC Consumer (46.464.71) (46.464.71) (46.464.71) (6,407.85) (12,006.28) (15 Misc Bills 16 Misc Bills Damage Claims (38,896.5) (13,027.75) (37.98.31) (187,217.34) (13,006.28) (13,006.28) (13,006.28) (12			540 AFUDC - Equity	-	-	-	-	-	-
Contributions 10.5 Temporary Labor 292.50		Contractor	010 General Services	25.00	-	-	-	12,085.61	-
Contributions 10 CIAC Consumer 10,488.80 56,711.56 230,825.88 63,134.48 59,649.18 7,758.57 (2,014.65) 115 Misc Bills 115 Misc Bills 0,478.58 (10,095.00) (2,774.01) (6,407.85) (13,068.28) 116 Misc Bills 0,478.58 (13,068.28) 116 Misc Bills 0,478.58 (13,068.28) 116 Misc Bills 0,478.58 (13,068.28) 117.25 118 Misc Bills 0,478.58 (14,095.00) (2,774.01) (6,407.85) (13,068.28) 117.25 118 Misc Bills 0,478.58 (14,095.00) (2,774.01) (6,407.85) (13,068.28) 117.25 (14,095.00) (14,095.00			015 Construction Services	5,617.80	82,359.43	55,512.41	72,348.95	135,592.22	6,677.55
Contributions			025 Temporary Labor	292.50	-	-	-	-	-
115 Misc Bills			035 Workforce - Contract	10,488.80	56,711.56	230,825.88	63,134.48	59,649.18	7,758.57
Employee Expenses		Contributions	105 CIAC Consumer	-	(46,464.71)	(55,991.48)	-	(2,014.65)	-
Employee Expenses 210 Employee Auto Mileage 257.86 615.03 748.31 1,290.51 609.58 137.25 215 Employee Business Meals 2,111.62 2,754.49 5,301.03 5,105.35 3,572.31 395.98 225 Conference Fees 200 Employee Most Expenses 196.26 134.08 311.54 217.95 103.55 2 25 Employee Misc Expenses 196.26 134.08 311.54 217.95 103.55 2 25 Employee Misc Expenses 196.26 134.08 311.54 217.95 103.55 2 25 Employee Misc Expenses 196.26 134.08 311.54 217.95 103.55 2 25 20 200.00 316 Non Benefit Labor - NU 1,013.33 126.50 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			115 Misc Bills	(91,457.66)	(10,095.00)	(2,774.01)	(6,407.85)	(13,068.28)	-
215 Employee Business Meals 2,111.62 2,754.49 5,301.03 5,105.35 3,572.31 395.98			116 Misc Bills - Damage Claims	(8,859.65)	(19,327.75)	(37,508.84)	(187,217.34)	-	-
225 Conference Fees 60.28		Employee Expenses	210 Employee Auto Mileage	357.86	615.03	748.31	1,290.51	609.58	137.25
Labor 235 Employee Lodging 225.00 526.96 2,965.26 1,763.36 2,413.62 -			215 Employee Business Meals	2,111.62	2,754.49	5,301.03	5,105.35	3,572.31	395.98
Labor 235 Employee Misc Expenses 196.26			225 Conference Fees	-	-	60.28	-	-	-
Labor 235 Employee Misc Expenses 196.26			230 Employee Lodging	225.00	526.96	2,965.26	1,763.36	2,413.62	-
310 Non Benefit Labor - NU 1,013.83 126.50				196.26	134.08	311.54	217.95	103.55	-
315 Non Benefit Labor - Union 95.52 2,710.52 - - - - - - - - -		Labor	305 Incentive/Bonus Pay	-	4,200.00	2,000.00	-	-	-
315 Non Benefit Labor - Union 95.52 2,710.52 - - - - - - - - -			310 Non Benefit Labor - NU	1,013.83	-	126.50	-	-	-
325 Overtime Pay - Union 72,777.61 166,119,26 104,326,22 163,924,26 159,643,84 4,019.77 340 Regular Payroll - NU 6,382,30 8,428.97 13,902.73 16,698,24 19,011.98 4,319.31 345 Regular Payroll - Union 90,239,06 122,397.48 138,353,33 128,823.54 137,893.60 12,397.71 145 Material Issues 92,372.09 (50,488.70) (52,442.42) (73,278.79) (131,275.68) (5,236.32) 415 Material Issues 95,853.49 291,979.95 246,974.28 222,385.09 374,025.80 82,896.46 420 Salvage (6,117.42) (6,581.19) (15,342.56) (15,107.43) (5,927.31) (499.74) (499.74) (6,581.19) (15,342.56) (15,107.43) (5,927.31) (499.74) (499.74) (4,662)			315 Non Benefit Labor - Union				-	-	-
Material 340 Regular Payroll - NU 6,382.30 8,428.97 13,902.73 16,698.24 19,011.98 4,319.31 345 Regular Payroll - Union 90,239.06 122,397.48 138,353.33 128,823.54 137,893.60 12,397.61 13,902.73 14,275.89 131,275.68 (5,236.21 14,275.28 14,275			320 Overtime Pay - NU	-	-	148.28	1,411.62	-	-
Material 345 Regular Payroll - Union 90,239.06 122,397.48 138,353.33 128,823.54 137,893.60 12,397.71 Material 405 Inventory Returns (22,372.09) (50,488.70) (52,442.42) (73,278.79) (131,275.68) (52,363.23) 415 Material Issues 95,853.49 291,979.95 246,974.28 222,385.09 374,025.80 82,896.46 Overhead 420 Salvage (6,117.42) (6,581.19) (15,342.56) (15,107.43) (5,927.31) (499.74) Overhead 505 Capital Overhead - A & G 724.02 1,813.00 2,223.01 2,795.99 6,764.66 807.26 508 Cap Overhead - Safety Cithing 17,980.14 94,187.67 9,891.11 86,759.18 221,226.20 26,894.29 508 Cap Overhead - Safety Cithing 43,836.28 55,204.84 60,336.29 61,750.83 91,673.18 10,030.22 515 Payroll Tax Is loading 16,173.86 26,471.65 22,121.99 26,901.24 27,698.49 1,814.53 520 Payroll Time Off loading 17,392.10 23,199.48 25,491.68 <td></td> <td></td> <td>325 Overtime Pay - Union</td> <td>72,777.61</td> <td>166,119.26</td> <td>104,326.22</td> <td>163,924.26</td> <td>159,643.84</td> <td>4,019.77</td>			325 Overtime Pay - Union	72,777.61	166,119.26	104,326.22	163,924.26	159,643.84	4,019.77
Material 345 Regular Payroll - Union 90,239.06 122,397.48 138,353.33 128,823.54 137,893.60 12,397.71 Material 405 Inventory Returns (22,372.09) (50,488.70) (52,442.42) (73,278.79) (131,275.68) (52,363.23) 415 Material Issues 95,853.49 291,979.95 246,974.28 222,385.09 374,025.80 82,896.46 Overhead 420 Salvage (6,117.42) (6,581.19) (15,342.56) (15,107.43) (5,927.31) (499.74) Overhead 505 Capital Overhead - A & G 724.02 1,813.00 2,223.01 2,795.99 6,764.66 807.26 508 Cap Overhead - Safety Cithing 17,980.14 94,187.67 9,891.11 86,759.18 221,226.20 26,894.29 508 Cap Overhead - Safety Cithing 43,836.28 55,204.84 60,336.29 61,750.83 91,673.18 10,030.22 515 Payroll Tax Is loading 16,173.86 26,471.65 22,121.99 26,901.24 27,698.49 1,814.53 520 Payroll Time Off loading 17,392.10 23,199.48 25,491.68 <td></td> <td></td> <td>340 Regular Payroll - NU</td> <td>6,382.30</td> <td>8,428.97</td> <td>13,902.73</td> <td>16,698.24</td> <td>19,011.98</td> <td>4,319.31</td>			340 Regular Payroll - NU	6,382.30	8,428.97	13,902.73	16,698.24	19,011.98	4,319.31
Material 405 Inventory Returns (22,372.09) (50,488.70) (52,442.42) (73,278.79) (131,275.68) (5,236.32) 415 Material Issues 95,853.49 291,979.95 246,974.28 222,385.09 374,025.80 82,896.46 420 Salvage (6,117.42) (6,581.19) (15,342.56) (15,107.43) (5,927.31) (499.74) Overhead 505 Capital Overhead - A & G 724.02 1,813.00 2,223.01 2,795.99 6,764.66 807.26 506 Cap Overhead - Functional 17,980.14 94,187.67 9,891.11 86,759.18 221,226.20 26,894.29 508 Cap Overhed - Safety Citting - - - 405.62 29,48 510 Payroll Benefits loading 43,836.28 55,204.84 60,336.29 61,750.83 91,673.18 10,030.22 515 Payroll Time Off loading 17,392.10 23,199.48 25,491.68 24,576.94 27,020.92 2,981.09 525 Small Tools loading 3,482.69 4,816.40 7,356.37 5,990.90 9,124.28 929.90 532 Materials Ta			345 Regular Payroll - Union	90,239.06	122,397.48	138,353.33	128,823.54	137,893.60	12,397.71
A15 Material Issues		Material			(50,488.70)				
Overhead 505 Capital Overhead - A & G 724.02 1,813.00 2,223.01 2,795.99 6,764.66 807.26 506 Cap Overhead - Functional 17,980.14 94,187.67 9,891.11 86,759.18 221,226.20 26,894.29 508 Cap Overhd - Safety Clthng - - - - 405.62 29.48 510 Payroll Benefits loading 43,836.28 55,204.84 60,336.29 61,750.83 91,673.18 10,030.22 515 Payroll Tax loading 16,173.86 26,471.65 22,121.99 26,901.24 27,698.49 1,814.53 520 Payroll Time Off loading 17,392.10 23,199.48 25,491.68 24,576.94 27,020.92 2,981.09 525 Small Tools loading 3,482.69 4,816.40 7,356.37 5,990.90 9,124.28 92.90 530 Stores/Material Loading 6,870.42 26,357.13 19,405.38 15,787.82 21,681.99 3,327.46 532 Materials Tax/Fght Loading 2,137.49 3,622.35 2,801.34 1,807.52 3,387.17 614.87 Transportation <t< td=""><td></td><td></td><td>415 Material Issues</td><td>95,853.49</td><td>291,979.95</td><td>246,974.28</td><td>222,385.09</td><td>374,025.80</td><td>82,896.46</td></t<>			415 Material Issues	95,853.49	291,979.95	246,974.28	222,385.09	374,025.80	82,896.46
Solicy S			420 Salvage	(6,117.42)	(6,581.19)	(15,342.56)	(15,107.43)	(5,927.31)	(499.74)
Solicy S		Overhead	505 Capital Overhead - A & G	724.02	1,813.00	2,223.01	2,795.99	6,764.66	807.26
S10 Payroll Benefits loading				17,980.14	94,187.67		86,759.18	221,226.20	26,894.29
S15 Payroll Tax loading 16,173.86 26,471.65 22,121.99 26,901.24 27,698.49 1,814.53 520 Payroll Time Off loading 17,392.10 23,199.48 25,491.68 24,576.94 27,020.92 2,981.09 525 Small Tools loading 3,482.69 4,816.40 7,356.37 5,990.90 9,124.28 929.90 530 Stores/Material Loading 6,870.42 26,357.13 19,405.38 15,787.82 21,681.99 3,327.46 32 Materials Tax/Fght Loading 2,137.49 3,622.35 2,801.34 1,807.52 3,387.17 614.87 532 Materials Tax/Fght Loading 2,137.49 3,622.35 2,801.34 1,807.52 3,387.17 614.87 614.			508 Cap Overhd - Safety Clthng	-	-	-	-	405.62	29.48
S20 Payroll Time Off loading 17,392.10 23,199.48 25,491.68 24,576.94 27,020.92 2,981.09 525 Small Tools loading 3,482.69 4,816.40 7,356.37 5,990.90 9,124.28 929.90 530 Stores/Material Loading 6,870.42 26,357.13 19,405.38 15,787.82 21,681.99 3,327.46 532 Materials Tax/Fght Loading 2,137.49 3,622.35 2,801.34 1,807.52 3,387.17 614.87 614.87 615.85			510 Payroll Benefits loading	43,836.28	55,204.84	60,336.29	61,750.83	91,673.18	10,030.22
S20 Payroll Time Off loading 17,392.10 23,199.48 25,491.68 24,576.94 27,020.92 2,981.09 525 Small Tools loading 3,482.69 4,816.40 7,356.37 5,990.90 9,124.28 929.90 530 Stores/Material Loading 6,870.42 26,357.13 19,405.38 15,787.82 21,681.99 3,327.46 532 Materials Tax/Fght Loading 2,137.49 3,622.35 2,801.34 1,807.52 3,387.17 614.87 614.87 615.85			515 Payroll Tax loading	16,173.86	26,471.65	22,121.99	26,901.24	27,698.49	1,814.53
Signature Sign									
Transportation			525 Small Tools loading	3,482.69	4,816.40	7,356.37	5,990.90	9,124.28	929.90
Transportation			530 Stores/Material Loading	6,870.42	26,357.13	19,405.38	15,787.82	21,681.99	3,327.46
Transportation 560 Road Vehicles 9,785.60 20,365.40 15,090.00 29,597.20 39,994.45 2,020.50 565 Small Vehicles 749.91 2,378.20 1,469.25 630.00 3,112.15 161.40 570 Work Vehicles 57,209.35 79,287.70 67,378.80 150,680.00 102,050.50 8,853.00 Vehicle 705 Lease Expense - Vehicle - - 962.46 -							1,807.52		
Vehicle 570 Work Vehicles 57,209.35 79,287.70 67,378.80 150,680.00 102,050.50 8,853.00 Vehicle 705 Lease Expense - Vehicle - - 962.46 - - - - 710 Rental Expense - Vehicle Aircraft Expense - - - - - - - - - 555.02 712 Vehicle Aircraft Expense - - - - - - - - 6,664.00 - 720 Vehicle Fuel Gasoline - 329.05 2,073.61 437.18 195.36 116.52 721 Vehicle Fuel Diesel 97.72 115.35 243.58 476.45 - - 725 Vehicle Parts & Supplies - - - - 25.42 - -		Transportation		9,785.60		15,090.00	29,597.20	39,994.45	2,020.50
Vehicle 570 Work Vehicles 57,209.35 79,287.70 67,378.80 150,680.00 102,050.50 8,853.00 Vehicle 705 Lease Expense - Vehicle - - 962.46 - - - - - 710 Rental Expense - Vehicle Aircraft Expense - - - - - - - - 555.02 712 Vehicle Aircraft Expense -		•	565 Small Vehicles	749.91	2,378.20	1,469.25	630.00	3,112.15	161.40
Vehicle 705 Lease Expense - Vehicle - 962.46 -			570 Work Vehicles	57,209.35		67,378.80	150,680.00	102,050.50	8,853.00
710 Rental Expense - Vehicle 36.90 277.14 4,053.80 8,892.29 20,881.72 555.02 712 Vehicle Aircraft Expense - - - - 6,664.00 - 720 Vehicle Fuel Gasoline - 329.05 2,073.61 437.18 195.36 116.52 721 Vehicle Fuel Diesel 97.72 115.35 243.58 476.45 - - 725 Vehicle Parts & Supplies - - - 25.42 - -		Vehicle	705 Lease Expense - Vehicle	-	-			-	-
720 Vehicle Fuel Gasoline - 329.05 2,073.61 437.18 195.36 116.52 721 Vehicle Fuel Diesel 97.72 115.35 243.58 476.45 - - 725 Vehicle Parts & Supplies - - 25.42 - -				36.90	277.14	4,053.80	8,892.29	20,881.72	555.02
721 Vehicle Fuel Diesel 97.72 115.35 243.58 476.45 725 Vehicle Parts & Supplies 25.42			712 Vehicle Aircraft Expense	-	-	-	-	6,664.00	-
721 Vehicle Fuel Diesel 97.72 115.35 243.58 476.45 725 Vehicle Parts & Supplies 25.42			•	-	329.05	2,073.61	437.18	195.36	116.52
725 Vehicle Parts & Supplies 25.42			721 Vehicle Fuel Diesel	97.72			476.45		-
				-	-	-			-
Voucher 810 Advertising Expenses 50.00		Voucher		-	-	-	50.00	-	-

AVISTA UTILITIES ER 2051 HISTORY OF COSTS 2005 THROUGH MARCH 15, 2010

	•		2005	2006	2007	2008	2009	2010
			Transaction Amt	Transaction Amt	Transaction Amt	Transaction Amt	Transaction Amt	Transaction Amt
Er	Expenditure Category	Expenditure Type						
		834 Inventory Adjustment	(222.88)	(1,649.44)	(3,345.28)	299.36	1,472.76	(35.86)
		835 Non Vehicle Equip Repair	-	269.50	-	-	-	-
		840 Freight Costs	-	-	1,133.85	-	-	-
		855 Land and Land Rights	-	-	-	2,500.00	775.00	-
		865 Lease Expense - Equipment	-	-	-	1,992.37	=	-
		880 Materials & Equipment	4,753.43	77,854.15	66,816.20	44,980.38	39,284.20	(6,626.90)
		885 Miscellaneous	707.09	336.47	(72,072.90)	75,939.37	5,497.93	790.91
		915 Printing	-	39.84	-	25.74	-	-
		920 Rental Expense - Equipment	1,404.73	4,027.68	7,922.22	13,313.23	2,267.20	-
		926 Retention - Contractors	-	-	-	-	19,954.54	389.17
		930 Right-of-Way Easements	-	-	-	10,000.00	-	-
		933 Small Tools	662.48	-	-	=	813.23	-
	Sum		340,651.16	1,025,283.94	878,849.50	961,301.35	1,404,260.92	166,519.40

ER No.: 2057

ER Name: Transmission Minor Rebuild

Pro Forma Amount: \$750,000

Expended to Date: \$509,570

2010 Transfer to Plant Date: December 31, 2010

Project Description:

These projects include minor transmission rebuilds resulting from age or damage caused by storms, wind, fire and the public. To a significant degree, they are planned projects resulting from inspection information (aerial patrols and groundline test & treat projects) conducted the prior year. These projects are necessary to operate the transmission system safely and reliably. In 2009, the Company spent \$2.206 million on these minor rebuild projects. Due to the cyclical nature of these projects, and the lack of conductor capacity increases, there are no offsets or savings associated with these minor rebuild efforts.

The Minor Rebuild projects scheduled for 2010 include:

- Dry Creek Talbot 230kV Minor Rebuild
- Hatwai Moscow 230kV Minor Rebuild
- Lind Shawnee 115kV Minor Rebuild

The transmission line estimating process uses a baseline per mile cost derived from industry averages (see attached Feasibility Cost Chart for further detail). This number is increased based on consideration of project variables including, but not limited to, project location, soil conditions, construction timing, commodity prices, overhead rates, etc. A parallel estimate is also developed based on the engineer's/designer's best judgment of what it will take to complete the project using the line items established in the Engineer Design Scoping Document (DSD: see attached for further details). These two approaches are reconciled with review of the department manager. An additional estimate check is made when the project uses the TL-Pro design software package. This program contains an estimating function based on variables provided by the user.

Steel poles and crossarms are specified for their life-cycle cost advantages.

The total cost of these three projects is \$1,393,600. The actual amount incurred to date is \$509,570. The pro forma adjustment includes on \$750,000, due to an inadvertent error that was indentified after the revenue requirement was finalized.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:	Start Date	End Date
BI AMT13: Dry Creek - Talbot 230kV Rebuild	November 1, 2009	April 30, 2010
BI AMT13: Hatwai – Moscow 230kV Rebuild	March 1, 2010	September 30, 2010
BI AMT13: Lind - Shawnee 115kV Minor Rebuild	July 1, 2009	March 30, 2010

See attached timeline for further detail.

Attachment Index:

•	Historical Cost Detail	pg. 3
•	Capital Project Request (CPR) Forms, including all attachments	pg. 4-6
•	Design Scoping Documents	pg. 7-12

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILTIES ER 2057 COSTS THROUGH MARCH 15, 2010

ect Total	Project Cost
16,957.81	516,600.00
91,691.30	502,000.00
921.17	375,000.00
-	1,393,600.00
	91,691.30

LIVISTA° Corp.

CAPITAL PROJECT REQUEST FORM

Exhibit No.__(SJK-4), Schedule 14
Request Type PROJECT

Revised 25905001R

	Corp.					Reviseu	2330300111
ER 2057	Budget Cat	SERVICE CODE	PROJECT T DRY CREEK-TAL		(30 CHARS)	Project Chars 29	LOCATION 259
2007	5	ED PROJ	ECT DESCRIPTION (250			29	259
		11.00	201 22001111 11011 (200	01 11	(3)		
		DRY CREE	EK-TALBOT 230kV: N	/lino	r Rebuild		
APPROVED BUDGET X		Description Chars Count 37	ORGANIZATION D53		B/I NUMBER AMT 13	WMS (Y OR N) No	RATE JURISDICTIO
BILLING	1		BILLING CONTACT	4		PROJECT START DAT	F
BILLING			DILLING CONTACT			I ROSEOT START DA	3/1/2010
	•	LONG NAME (INCLI	JDE PURPOSE AND NEC	ESS	ITV - 240 CHAPS)		
Replace (15) "	H" etructurae (1) "M" structure w/downg				on this line is difficul	t and will require
(10)		ne roads and the possib					
	reopening son	ne roads and the possib	ile use of a charle. Th	13 C	i it is being levi	sea for construction.	
Note: The provie	us CDD approve	ed was for \$280,000 on	1/11/2010 This rovio	ion	rofloato un doto d	Soons and	
overhead	• • •	ed was 101 \$200,000 011	1/11/2010. THIS TEVIS	1011	renecis upuaieu	Scope and	Long Name Count 234
CONSTRUCTIO					Total Construct	tion Cost	\$516,600
oonomoono	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT		Total Collettus		φοτο,σσο
	3XXXXX	BY FERC NUMBER	BY FERC NUMBER		NOT RE	QUIRED	
300100	300100	\$24,500	211210101101110211		BUDGET AUTHOR		
107300	355000	\$340,500		1	PREVIOUSLY API		
107300	356000	\$135,600		1	THIS AFE		
.0.000		\$100,000			TOTAL TO DATE		
					BALANCE NOT A	PPROVED	
						APPROVALS	
					SIG	NATURE	DATE
GROSS ADDITIONS		\$500,600					
NET SALVAGE	BY FERC (3XX)	XXX)			Ken Sweigart		
108000	355000	\$11,500			_		
108000	356000	\$4,500			Rick Vermeers		
					Don Kopczynsl	ki	
					Dennis Vermilli	on	
				-	Project Contact	Dan Gregovich	
					Froject Contact	Dan Gregovich	
				1	APPROVAL	SIGNATURE(S) RI	QUIRED
NET SALVAGE		\$16,000		1	To \$99,999 - Direc		
					\$100,000-\$499,99	9 - VP or GM Utility	
					\$500,000-\$1,999,9	999 - Sr Vice President	
					\$2,000,000-\$9,999	9,999 - CEO	
Non Standard W	Vork Breakdow	n Structure needed (O	ptional)		Over \$10,000,000	- Board Chair	
					Out-of-Budget - Ca	apital Budget Committee	
						M SPONSOR IS RESPO	NSIBLE
				-		HIS WORK ORDER.	
				-		PON COMPLETION OF	
				-		, COMPLETE AS BUILT	INFO AND
Data Dramana I	0/4/0040	\neg			FORWARD TO PL	ANT ACCOUNTING.	
Date Prepared:	2/1/2010				Data Wart Or	alata d	
					Date Work Comp	Dietea	
TOTAL COST OF DE	DO IFOT	¢546 600		-	Foreman/		
TOTAL COST OF PR	KUJEU I	\$516,600		J	Supervisor		

VISTA Corp.

CAPITAL PROJECT REQUEST FORM

Exhibit No.___(SJK 4), Schedule 14
Request Type PROJECT
Revised 35005006R

	Corp.					Reviseu	330030001
ER 2057	Budget Cat	SERVICE CODE	PROJECT T		(30 CHARS)	Project Chars 26	LOCATION 350
2057	5	ED PROJE	ECT DESCRIPTION (250			20	330
		111001	201 22001111 11011 (200	01 11	(3)		
		HATWAI-I	MOSCOW 230kV: Mi	nor	Rebuild		
APPROVED BUDGET		Description Chars Count	ORGANIZATION	1	B/I NUMBER	WMS (Y OR N)	RATE JURISDICTIO
X		34	B53]	AMT 13	No	AN
BILLING			BILLING CONTACT			PROJECT START DAT	E 8/17/2010
							0/17/2010
		•	DE PURPOSE AND NEC		,		
This CPR is		Engineering and will be					f work will be
	dete	ermined by reviewing Te	est and Treat notes w	ith s	some follow-up f	ield work.	
		nstruction. We will be re	placing (12) "H" struc	ture	s, (7) 40' crossa	arms and	Long Name Count
installing (26) ste							200
CONSTRUCTION					Total Construc	tion Cost	\$375,000
	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT				
	3XXXXX	BY FERC NUMBER	BY FERC NUMBER			EQUIRED	
300100	300100	\$21,500			BUDGET AUTHOR		
107300	355000	\$262,500			PREVIOUSLY AP	PROVED	
107300	356000	\$75,000			THIS AFE		
					TOTAL TO DATE		
					BALANCE NOT A	PPROVED	
						400000/410	
				-	010	APPROVALS	DATE
ODOGO ADDITIONO		¢250,000		-	SIG	NATURE	DATE
GROSS ADDITIONS NET SALVAGE		\$359,000		-	Kon Swoigart		
108000	355000	\$12,000		-	Ken Sweigart		
108000	356000	\$4,000		-	Rick Vermeers		
100000	330000	Ψ4,000			INICK VEITHEETS		
				-	Don Kopczyns	ki	
				1	Don Ropozyno	· · ·	
				1	Dennis Vermilli	ion	
				1			1
					Project Contact	Dan Gregovich	
					•		
					APPROVAL	. SIGNATURE(S) RI	QUIRED
NET SALVAGE		\$16,000			To \$99,999 - Direc		
						9 - VP or GM Utility	
						999 - Sr Vice President	
N 01 1 11		0, , , , , , , ,	41 11	-	\$2,000,000-\$9,999		
Non Standard W	ork Breakdow	n Structure needed (O	ptional)		Over \$10,000,000		
					Out-of-Budget - Ca	apital Budget Committee	
				-			
				-	THE BUILDOET ITE	M SPONSOR IS RESPO	MCIDI E
						IIS WORK ORDER.	MOIDLE
				1		ON COMPLETION OF	NORK
				1		, COMPLETE AS BUILT	
				1		ANT ACCOUNTING.	• /•
Date Prepared:	2/1/2010	\neg					
	_, ., _ 0 . 0	_			Date Work Comp	oleted	
					Foreman/	· 	
TOTAL COST OF PR	ROJECT	\$375,000		1	Supervisor		
		, , , , , , ,					

VISTA Corp.

CAPITAL PROJECT REQUEST FORM

Exhibit No. (SJK 4), Schedule 14
Request Type PROJECT
Revised 29905060R

	Corp.			_		Keviseu	299030001
ER 2057	Budget Cat 5	SERVICE CODE ED	PROJECT 1 LIND-SHAWNE		(30 CHARS)	Project Chars 25	LOCATION 299
2001	<u> </u>		ECT DESCRIPTION (250			23	233
				_			
		LIND-SF	IAWNEE 115kV: Min	or F	lebuild		
APPROVED BUDGET		Description Chars Count	ORGANIZATION	1	B/I NUMBER	WMS (Y OR N)	RATE JURISDICTIO
X		33	B53	j	AMT 12	No	AN
BILLING			BILLING CONTACT			PROJECT START DAT	E 9/14/2009
	-						9/14/2009
Dania (44) -			DE PURPOSE AND NEC				
Replace (44) s	ructures, reinfor	ce (30) poles and replac	ce (6) 22° crossarms. If Wood Pole Inspect			evised for constructi	on based on the
		analysis 0	ii wood Pole Ilispect	1011	Reports.		
Note: The previou	us CPR approve	ed was for \$325,000 on	7/20/2009 This revis	ion	reflects undated	Scope and	Long Name Count
overhead	• • •	74 Was 101 \$525,000 OIT	7/20/2003. THIS TOVIS	1011	reneets apaatea	Ocope and	173
CONSTRUCTIO					Total Construct	tion Cost	\$502,000
	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT				
	3XXXXX	BY FERC NUMBER	BY FERC NUMBER		NOT RE	QUIRED	
300100	300100	\$21,500]	BUDGET AUTHOR	RIZATION	
107300	355000	\$300,000		<u> </u>	PREVIOUSLY API	PROVED	
107300	356000	\$129,300		<u> </u>	THIS AFE		
				1	TOTAL TO DATE		
				1	BALANCE NOT A	PPROVED	
				1		APPROVALS	
					SIG	NATURE	DATE
GROSS ADDITIONS		\$450,800			5.5		
NET SALVAGE					Ken Sweigart		
108000	355000	\$32,000]			
108000	356000	\$19,200			Rick Vermeers		
				4	Don Kopczynsl	KI .	
				1	Dennis Vermilli	on	
				1	Dennis venniin	OH	
				1	Project Contact	Dan Gregovich	
						-	
]		SIGNATURE(S) RE	QUIRED
NET SALVAGE		\$51,200		4	To \$99,999 - Direc		
				-	\$100,000-\$499,999		
				1	\$2,000,000-\$1,999,9	1999 - Sr Vice President	
Non Standard W	l ∕ork Breakdowi	n Structure needed (O	ntional)	1	Over \$10,000,000		
Tron Grandard I	ork Broakaon.		puona. _/			apital Budget Committee	
					THE BUDGET ITE	M SPONSOR IS RESPO	NSIBLE
						IIS WORK ORDER.	
				4		PON COMPLETION OF V	
				1		, COMPLETE AS BUILT	INFO AND
Date Prepared:	2/1/2010	コーニー コーニー			FORWARD TO PL	ANT ACCOUNTING.	
Date i repared.	2/1/2010	_			Date Work Comp	oleted	
					Foreman/		
TOTAL COST OF PR	ROJECT	\$502,000]	Supervisor		
-				-			

DESIGN SCOPING DOCUMENT

DRY-CREEK-TALBOT 230kV: Minor Rebuild

PROJECT DESCRIPTION:

In accordance with Avista's Reliability Compliance Program, replace structures and structure components identified by ground inspections and aerial patrols. This job will include the following work;

Install (15) steel 2-pole "H" structures

Install (1) steel 3-pole "M" structure with (3) angle guys

Remove (15) wood 2-pole "H" structures

Remove (1) 3-pole "M" structure and (3) downguys

GENERAL RESPONSIBILITIES:

ER: 2057
BI: AMT 13
Project Number: 25905001
Engineering Task Number: 300100
Construction Installation Number: 107300

Project Designer:

System Operations:

Right-of-Way (Customer Contacts):

Operations Construction:

Dan Gregovich

Garth Brandon

Randy Daniels

Tim Olson

PROJECT SCHEDULE:

Scope of work (Design)	
Request Right of Way Notification	December, 2009
Procure Line Materials	December, 2009
Issue Job Package	January, 2010
Receive Line Materials	February, 2010
Line Construction	March, 2010
Scheduled In-Service Date	April, 2010

PROJECT COST ESTIMATE:

Materials: (33) Direct Embed Steel pole and Line Hardware @ \$4,500 each:	\$148,500
(15) 40' steel crossarms @ \$1,600 each :	\$ 24,000
(48) Polymer insulators and clamps @ \$300 each:	\$ 14,400

Construction: Site Preparation: \$ 20,000

Removal @ \$1,000 per structure: \$ 16,000

Construction Labor: (15) days @ \$10,000 each: \$150,000

Exhibit No.	(SJK-4).	Schedule	14
EXHIDIL INO.	(SJN-4),	Scriedule	14

TOTAL (Material and Construction):	\$372,900
TOTAL (Engineering & R/W): TOTAL (Taxes, A&G, and PM): @ 30%	\$ 24,500 \$119,220
TOTAL COST:	<u>\$516,600</u>

DESIGN SCOPING DOCUMENT

HATWAI-MOSCOW 230kV: Minor Rebuild

PROJECT DESCRIPTION:

In accordance with Avista's Reliability Compliance Program, replace structures and structure components identified by ground inspections and aerial patrols. This job will include the following work;

Install (9) steel 2-pole "H" structures

Install (3) steel 2-pole "HS" structures

Install (7) 40' steel crossarms

Install (26) steel stubs

Remove (9) wood 2-pole "H" structures

Remove (3) -pole "HS" structure

Remove (7) 40' wood crossarms

GENERAL RESPONSIBILITIES:

ER: 2057
BI: AMT 13
Project Number: 35005006
Engineering Task Number: 300100
Construction Installation Number: 107300

Project Designer:

System Operations:

Right-of-Way (Customer Contacts):

Operations Construction:

Dan Gregovich

Garth Brandon

Randy Daniels

Tim Olson

PROJECT SCHEDULE:

Scope of work (Design)	March, 2010
Request Right of Way Notification	April, 2010
Procure Line Materials	April, 2010
Issue Job Package	June, 2010
Receive Line Materials	July, 2010
Line Construction	August, 2010
Scheduled In-Service Date	September, 2010

PROJECT COST ESTIMATE:

Materials: (24) Direct Embed Steel pole and Line Hardware @ \$4,500 each:	\$108,000
(19) 40' steel crossarms @ \$1,600 each :	\$ 30,400
(40) Insulators stringsand clamps @ 300 each:	\$ 12,000
(26) Steel stubs @ \$600 each	\$ 15,600

		Exhibit No(SJK-4), Schedule 14
Construction:	Site Preparation:	\$ 10,000
	Removal @ \$1,000 per structure:	\$ 16,000
Construction Labor:	(15) days @ \$5,000 each:	\$ 75,000
TOTAL (Matarial arr	d Construction)	\$267.000
TOTAL (Material an	d Construction):	\$267,000
TOTAL (Engineering	g & R/W):	\$ 21,500
TOTAL (Taxes, A&	G, and PM): @ 30%	\$ 86,550

TOTAL COST:

\$375,050

DESIGN SCOPING DOCUMENT

LIND-SHAWNEE 115kV: Minor Rebuild (Phase 1) (Lind, Wash. to Ewan, Wash.)

PROJECT DESCRIPTION:

In accordance with Avista's Reliability Compliance Program, replace structures and structure components identified by ground inspections and aerial patrols. This job will include the following work;

Install (9) 2-pole wood structures

Install (47) single pole wood structures

Install (20) 7/16" downguys

Install (21) steel stubs

Remove (9) wood 2-pole structures

Remove (47) –single pole wood structures

Remove (7) 40' wood crossarms

Remove (30) downguys

Remove (4.5) miles of Overhead Ground Wire

GENERAL RESPONSIBILITIES:

ER: 2057
BI: AMT 13
Project Number: 29905060
Engineering Task Number: 300100
Construction Installation Number: 107300

Project Designer:

System Operations:

Right-of-Way (Customer Contacts):

Contracts Construction:

Inspector

Dan Gregovich
Garth Brandon
Dave Chambers
Bob Weisbeck
Tom Zimmerer

Operations Support Bill Picket, Tim Olson

PROJECT SCHEDULE:

Scope of work (Design)	July/August, 2009
Request Right of Way Notification	August, 2009
Procure Line Materials	August, 2009
Issue Job Package	October 2009
Receive Line Materials	
Line Construction	January/February, 2010
Scheduled In-Service Date	March, 2010

PROJECT COST ESTIMATE:

Materials: (65) Wood	\$ 97,500	
(13) 21' St	\$ 9,100	
(21) Seel s	stubs @ \$600 each	\$ 12,600
(20) Down	nguys@ \$300 each :	\$ 6,000
(33) Polyr	ner Insulators and clamps @ \$250 each	\$ 8,250
(145) Post	insulators and clamps @ \$200 each	\$ 29,000
Construction:	Site Preparation:	\$ 25,000
	Removal (56) @ \$700 per structure:	\$ 39,200
	Removal of 4.5 miles of Overhead Ground wire	\$ 12,000
Construction Labor:	Structures (28) days @ \$4,500 each:	\$126,000
TOTAL (Material an	d Construction):	\$364,650
TOTAL (Engineering	\$ 21,500	
TOTAL (Taxes, A&G, and PM): @ 30%		
TOTAL COST:		

ER No.: 2001

ER Name: Power Circuit Breaker – Otis Orchards

Pro Forma Amount: \$260,000

Expended to date: \$129

2010 Transfer to Plant Date: May - \$120,000 and September - \$140,000

Project Description:

The Company transfers all circuit breakers to plant upon receiving them. This is an annual System ER specifically for the purchase of Power Circuit Breakers for replacements and new installations throughout our System and does not include any installation costs. Breakers purchased in 2010 will be replacing the breakers at Otis Orchards (WA) Switching Station under ER 2390.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline: These devices are capitalized upon receipt.

Project Start Date Various dates throughout 2010

Project End Date Various dates throughout 2010

Attachment Index:

Listing of Equipment Ordered at 03/15/2010

Pg. 2

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

CONFIDENTIAL per WAC 480-07-160LISTING OF EQUIPMENT ORDERED AT 3/15/2010

ER No.: 2215

ER Name: Power Circuit Breakers

Pro Forma Amount: \$225,000

Expended to date: \$797,928

2010 Transfer to Plant Date: April 2010 (\$100,000) and November 2010 (\$125,000)

Project Description:

Power Circuit Breakers are transferred to plant upon receipt under ER 2001.

The replacement of the three 115 kV Circuit Breakers at Benewah 230 kV Substation was officially completed in Q1 2010 and just recently placed into service and transferred to plant. Engineering for this project began in 2008 and total costs incurred through 2009 construction total \$674,000; these costs were inadvertently omitted from the pro forma plant adjustment.

Breakers purchased in 2010 will be installed at Otis Orchards (WA) Switching Station. Other planned replacements in 2010 include a 115 kV breaker at Stratford (WA) Switching Station and a 230 kV breaker at Noxon Rapids Switchyard. Avista performs breaker maintenance on a 15-year cycle. Neither of these breakers was scheduled for maintenance in the pro forma period, nor during the test period, so there are no cost savings associated with these replacements.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

The Stratford (WA) 115 kV Breaker is presently being replaced and expected to be in service by April 2010. The Noxon 230 kV Breaker is planned for fall replacement. Any other breaker replacements to be charged to this ER would be unplanned.

Additional Information:

•	Cost	pg. 3-4
•	Capital Project Request (CPR) Forms	pg. 5-7
•	Copies of Purchase Orders (Confidential)	pg. 8-14
•	Benewah 115 kV Breaker Work Pictures	pg. 15-20

MOLE.

During the course of Avista's pending general rate case, updated information will be available for audit.

2245				2008	2009	2010
2215 Er	Project Number	Project Desc	Expenditure Category	Transaction Amt SUM	Transaction Amt SUM	Transaction Amt SUM
	02805399	Stratford Replace OCB A48	AFUDC	_	293.96	674.69
	02000000	Citational Replace COB 7140	Contractor	_	16,784.99	800.00
			Employee Expenses	_	-	5,879.35
			Labor	_	1,407.04	41,343.20
			Material	_	-	12,720.73
			Overhead	_	1,212.02	58,791.04
			Transportation	_	-	2,562.60
			Vehicle	_	-	58.73
			Voucher	-	_	15,536.03
		Sum			19,698.01	138,366.37
	03805127	BEN Replace 115kv Breakers	AFUDC	2,324.99	18,659.55	8,131.04
		·	Contractor	-	4,476.00	-
			Contributions	-	(1,544.80)	-
			Employee Expenses	-	960.35	244.52
			Labor	61,026.65	151,567.95	9,991.15
			Material	4,074.69	12,076.07	-
			Overhead	56,426.12	201,662.32	16,650.91
			Transportation	-	11,696.80	628.80
			Vehicle	-	247.30	-
			Voucher	7,713.48	18,537.01	9,109.82
		Sum		131,565.93	418,338.55	44,756.24
	03805189	Ramsey 115kv RepA-666 GCB	AFUDC	-	199.69	-
			Employee Expenses	-	517.63	-
			Labor	-	8,551.23	-
			Overhead	-	9,760.35	-
			Transportation	-	1,141.80	-
			Voucher	-	381.39	-
		Sum			20,552.09	
	03805191	PIN add comm aided tripping	AFUDC	-	177.71	175.58
			Employee Expenses	-	11.17	-
			Labor	-	6,434.55	-
			Overhead	-	5,834.64	-
			Transportation	-	312.00	
		Sum			12,770.07	175.58
	04805006	Noxon Replace OCB R336	AFUDC	-	-	30.68

		Contractor	-		2,974.73
	Sum				3,005.41
09805243	LAT add comm aided trip com	AFUDC	-	26.21	22.92
		Labor	-	331.81 -	
		Material	-	204.00 -	
		Overhead	-	377.52 -	
		Transportation	-	72.75 -	
		Voucher	-	653.60 -	
	Sum			1,665.89	22.92
09805244	PIN Add comm aided tripping co	AFUDC	-	26.62	23.74
		Labor	-	685.87 -	
		Material	-	102.00 -	
		Overhead	-	663.97 -	
		Transportation	-	151.50 -	
		Voucher	-	96.71 -	
	Sum			1,726.67	23.74
09805248	BEN Repl 115kv Brkers comm	AFUDC	-	69.83	62.07
		Contractor	-	2,219.54	573.27
		Labor	-	737.24	119.71
		Material	-	204.00 -	
		Overhead	-	710.36	107.38
		Transportation	-	209.25 -	
		Vehicle	-		52.49
		Voucher	-	197.23 -	
	Sum			4,347.45	914.92
			131,565.93	479,098.73	187,265.18

UTIL ACCTG

PAGE 01/01

VIROPSYR. 03402151 Request Type PROJECT BEN08A Revised

CAPITAL PROJECT REQUEST FORM SISTA Corp. LOCATION Budget Cat PROJECT TITLE (30 CHARS) BEN - Replace 115 kV Breakers 038 ED 1 2215 PROJECT DESCRIPTION (250 CHARS) Benewah 230 kV Substation - Replace and commission three 115 kV breakers RATE JURISDICTION WMS (Y OR N) B/I NUMBER APPROVED BUDGE AN 7 M08 AMS32 X PROJECT START DATE BILLING BILLING CONTACT 02-19-2008 LONG NAME (INCLUDE PURPOSE AND NECESSITY - 240 CHARS) Replace, integrate control and indication, and commission three new 115 kV breakers. This CPR has been revised to accurately reflect construction costs; construction has now finished and only trailing and cleanup costs are expected. \$710,000 Total Construction Cost CONSTRUCTION AS BUILT AMOUNT FERC ESTIMATED AMOUNT BY FERC NUMBER KOTREQUIRED 3XXXXXXX BY FERC NUMBER BUDGET AUTHORIZATION \$20,000 300100 -03805127 PREVIOUSUYARPROVED 353000 -\$655,000 THIS AFE 397000 -\$15,000 09805248 098 TOTALITO DATE: EREE BALLANGE NOT APPROVED APPROVALS DATE SIGNATURE \$690,000 GROSS ADDITIONS 12-21-09 Mike Magruder NET SALVAGE BY FERC (3XXXXX) \$20,000 353000 / 12-22-04 Rick Vermeers Don Kopcz 12/29/09 Dennis Vermillion Project Contact Brian Chain \$20,000 NET SALVAGE APPROVAL SIGNATURE(S) REQUIRED To \$99,999 - Director \$100,000-\$499,999 VP 8 GM Utility \$500,000 \$1,999,999 - Si Vice President Non Standard Work Breakdown Structure needed (Optional) \$2,000,000-\$9,999,999 - CEO Over \$10,000,000 - Board Chair Out of Budget - Capital Budget Committee عالوالعالة بعدارها بمدعا والهديج العمودة والمعادة ifor o cama vala wolacerder. IMMEDIATELY UPON COMPLETION OF WORK, SIGNATHIS FORM, COMPLETE AS BUILT INFO AND FORWARD TO PLANT ACCOUNTING. 02-06-2008 Date Prepared: Date Work Completed 06-16-2009 PEVISED ON Foreman/ 5710,000 Supervisor TOTAL COST OF PROJECT

	STA Corp.	Use Tab Key	PITAL PROJECT F	(CPR)	Request Type New The Project Tile Count	Project(s) 04805006
ER 2215	Budget Category	Service Code		Project Title (30 Characters)	The second of the country of the second of t	
ong Project Name (100 Characters)				self.	'Parent' Code	
	10022	Noxon 23	30 kV Switchyard - R		1/27/10/1	NRS10A
proved Budget X	Will This Project Include	Long Project Name Count	ER Sponsor M08	BI Number AMS32	WMS Job # No	Rate Jurisdiction No. Allocated No.
	Retirement of Materials or	Revenue Type NA- Not Applicable			Location 048-Monta	nal是Dee信使证明
Billing Equipment? Billing Co				ntact	Project Start 01-25-201	
oject Descript	ion (Include Purpos	se and Necessity - 240 Characters	s)		., ., ., ., ., ., ., ., ., ., ., ., ., .	
This CPR i	s for the replaceme	ent of OCB R-336 at the Noxon expected service	230 kV Switchyard. life. A new gas circ	The existing OCB was installed in 1959 and uit breaker will be installed.	has reached the end of its	
	- (CONSTRUCTION		Budget Authorized:		\$75,00
fice Use only		Estimated Amount	As Built Amount			
Task	3XXXXX	By FERC Number	By FERC Number	Office Use On	ly and the second second second	Date
300100/	300100 /	\$25,000		Project Set Up By		1//
107300=	353000 /	\$40,000		Approved By		11/2/11/6
					A STATE OF THE STA	
					THE RESERVE TO THE PERSON OF T	
				The state of the s		Vecause a service serv
CONTRACTOR				AP	PROVALS	
				SIGNATURE		DATE
ROSS ADDIT	IONS	\$65,000		Signature		1
	ral By FERC (3XX)	xeXX)				
1+19050	353000	\$10,000		Print Name William J. C		01-25-2010
				Signature Wich CO Print Name Michael A	10000	1-25-10
				With the same of t		1-23-10
走 化传送				Signature Gin Th		1.
	Total Removal	\$10,000		Print Name Richard L		1-26-10
Ivage By FE	RC (3XXXXX)			Signature	Tollinoolo	
			-	Signature		
	9			Print Name		
erin a remai	Total Salvage		-	Signature		
tal Personal	Less Salvage	\$10,000		1		
ia Kemova	Less ourrege			Print Name		
n Standard	Work Breakdown	Structure Needed (Optional)				
er Task:				Project Contact & Extension	Bill Choma x4444	
APP CASE				monario Carres (1921), 1,77 July 1, 202 E 2200 Provide L	MATUREREPRESENTATION	Service Commission of the Comm
10 FE 25				APPROVAL SIG		
	i			To \$99,999 - Director 3, \$100,000-\$499,999 - VP or GM Utility \$500,000-\$2,999,999 - Sr Vice President/C		
b Task				5 100,000 3493,333 VI GII GIW Builty	ED 3	門的問題
KAN HAY				\$500,000-\$2,999,999 - Sr, vice President/ \$3,000,000-\$9,999;999 - President/CEO/CE Over \$10,000,000 - Board Chair		计算机器
1片型操作所	4			Over \$10 000 000 Board Chair		SERFERS
4700 74				Over \$19,000,000 - Board Chair Out-of-Budget - Capital Budget Committee		最近的现在分 位
的人。 1907年1月1日 1908年1月	-			California Danger Confirmation	Contraction of the Contraction of Contraction Contraction Contraction	X-10-10-10-10-10-10-10-10-10-10-10-10-10-
						12.
te Prepared				THE PROJECT SPONSOR IS RESPONSIBLE FOR	CLOSING THIS JOB'S 4578 S.C.	
ne riebaied		1		IMMEDIATELYADEON COMPLETION OF WORK S	GNITHIS FORMS	
OTAL COST	OF PROJECT	\$75,000		IMMEDIATELY OR ON COMPLETION OF WORK'S COMPLETE AS BUILT INFO AND FORWARD TO	THE TY ACCOUNTINGS	
2175 0001						
		Project and Fixed Asset Account	nting	Date Work Completed		
		-4472 or Howard ext-2936)		Foreman/		
				Supervisor		

411						
	STA	CAPITAL	PROJECT REQU	EST FORM	Request Type	Project(s)
Action is a second seco	Corp.	Use Tab Key		(CPR)	New	DQ\$65299
. ER	Budget Category			t Title (30 Characters)	Projecti Title (Court	
2215		ED Electric Direct	Stratfor	d - Replace OCB A-48	280	
ng Project Na	me (100 Characters	Stratford 115kV Switching	no Station - Replace	OCB A-48	six why	'Parent Code
			200	<i>y</i>	9/3/3/	STR09B
Approved Budget X	Will This Project	Long Projectivame Gount L	ER Sponsor M08	Bi Number	,WMS'Job# No ~	Rate Jurisdiction AN-Allocated North
	Retirement of	Revenue Type			Loc	
	Materials or	NA: Not Applicable	Billing Contact	<u> </u>		Shington
Billing	Equipment?		Dilling Contact			2009
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This wo	ork is part of a syst	ern item to replace obsolete high	voltage circuit brea	kers. OCB A-48 at Stratford is 52	years old.	
	9.2					
				Dudi Authorizade		\$83,200
-		CONSTRUCTION	A. D. W. S	Budget Authorized:		\$03,200
Office Use only	FERC	Estimated Amount	As Built Amount	Office Use On	lu.	Date
Task	3XXXXX	By FERC Number	By FERC Number	Project Set Up By	iy	Date
7000	300100	\$21,000		Approved By		7/3/39
787300	353000 /	\$59,100		Approved by		77-7
				AP	PROVALS	
				SIGNATURE		DATE
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GROSS ADDITI				William /	Chons	-
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Non Standard \	Work Breakdown	Structure Needed (Optional)				1057
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				APPROVALSIG	NATIONESSINEGO	(11) ,
				To \$99,999 - Director		
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Revised January 2009

CONFIDENTIAL per WAC 480-07-160

COPIES OF PURCHASE ORDERS, Pgs. 8-14













ER No.: 2342

ER Name: Pine Creek 230 Substation Replacement Circuit Switch & Relays

Pro Forma Amount: \$570,000

Expended to date: \$320,467

2010 Transfer to Plant Date: October 2010

Project Description:

The project scope and preliminary engineering design work for this project was started in 2008 and included replacing the circuit switcher and one 13 kV recloser due to equipment age. After further investigation the project was expanded to replace the other two 13 kV reclosers, the cap bank, deteriorated station control wiring, and removal of the small panel house including the obsolete RTU. A total of \$0.57 million directly related to Transmission (115 kV circuit switcher, Capacitor Bank, control wiring, Remote Terminal Unit) will be transferred to plant in 2010. No specific maintenance associated with the replaced equipment was performed in the test period. Therefore, no additional offsets are available for this replacement work.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

The original scope of this project increased from 2008. Engineering design is 90% complete and the project will be transmitted for fall construction to coordinate with a Mobile Substation installation in order to eliminate necessary outages.

Attachment Index:

•	Costs	pg. 3
•	Capital Project Request (CPR) Forms	pg. 4-5
•	Detail of projected costs/Budget report	pg. 6-8
•	Work Authorization Forms	pg. 9-16

ER No.: 2390

ER Name: Otis Orchards - 115 kV Breaker and Line Relay Replacements

Pro Forma Amount: \$650,000

Expended to date: \$3,217

2010 Transfer to Plant Date: November 2010

Project Description:

This project will replace the 115 kV breakers and associated 115 kV line relays at the existing Otis Orchards substation. Four of the breakers are over 50 years old and have reached the end of their useful lives. The line relaying must be replaced with new microprocessor relays to provide the high speed tripping required for mandatory reliability standards. The relay replacements are part of the Spokane/Coeur d'Alene area relay upgrade project previously discussed. The breakers that are being replaced were not scheduled for maintenance during the test period. Therefore, no offsets or savings are available for this project in the near term.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

Engineering for this project is underway presently. Construction transmittal is expected by early summer 2010. Construction will begin in summer and last through fall 2010 in coordination with outage scheduling. Project will be staged into plant over the fall as new breakers and relaying are commissioned into service.

Attachment Index:

•	ER Cost Detail	pg. 3
•	Capital Project Request (CPR) Forms	pg. 4
•	Scope of work and other notes-email	pg. 5-6
•	Work authorization	pg. 7
•	HDR Cost Estimate	pg. 8-10
•	Projected Schedule – email	pg. 11
•	Reference Drawings	pg. 12-14

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2390 COSTS THROUGH MARCH 15, 2010

Coord Trincocort Will				2010 Transaction Amt SUM
Er Project Number	Project Desc	Expenditure Category	Expenditure Type	
2390 02805490	Otis Orch 115 replace PCBs	AFUDC	535 AFUDC - Debt	18.42
			540 AFUDC - Equity	23.56
		Contractor	020 Professional Services	22,437.28
		Labor	340 Regular Payroll - NU	1,460.80
		Overhead	505 Capital Overhead - A & G	0.49
			506 Cap Overhead - Functional	0.24
			510 Payroll Benefits loading	836.29
			515 Payroll Tax loading	127.36
			520 Payroll Time Off loading	259.58
		Transportation	560 Road Vehicles	244.50_
	Sum			25,408.52
02805491	Otis Orch 115 repl PCBs comm	AFUDC	535 AFUDC - Debt	7.23
			540 AFUDC - Equity	9.25
		Labor	340 Regular Payroll - NU	2,559.43
		Overhead	510 Payroll Benefits loading	1,535.66
			515 Payroll Tax loading	223.95
			520 Payroll Time Off loading	473.49
	Sum			4,809.01
Sum				30,217.53

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∡118 €						<u> </u>
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ER //	Budget Category	Service Code	al	Project Title (30 Characters)	Fige Froed Title Con	03805 471
2390 ' Long Project Na	:5-Maintenance me (100 Character		OTIS (ORCHARDS 115-Replace PCBs		'Parent' Code
	•	Replace obsolete 115	kV circuit breakers	and line relays at this substation.	5.0505.d Mary	OTI10A
Approved Budget	Will This Project Include	Vone Enject Name Count	ER Sponsor	Bl Number SS604	MW2, JoR #	Rate Jurisdiction
Yes	Retirement of	Revenue Type		35004		N-Allocated Nor ocation אינו)
Billing	Materials or Equipment?	NA Not Applicable	Billing Co	ntact	. Projec	/ashington of Start Date 11/2010
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3					1172010
This project is	for the replaceme	se and Necessity - 240 Character nt of the 115 kV circuit breakers	s) and line relaying at	Otis Orchards substation. The existing	breakers are at the end of the	eir life.
	•					
		CONSTRUCTION		Dodge Autogad		
Office Use only	FERC	Estimated Amount	As Built Amount	Budget Authorized:		\$700,000
Task	3XXXXX	By FERC Number	By FERC Number	Office Us	se Only	-Date
300/00/	300100	\$150,000		Project Set Up By Approved By		A Carl Mark Company of the Company
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1020 38	397000	\$15,000			<u> </u>	<u> </u>
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IARANI Z	353000	\$50,000		Rob Selby		1-7-10
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				Mike Magruder Michael Ci.	Magnile-	1-7-10
		050.000		Signature		
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	Total Salvage			Don Kopczynski 1779	2	1.1 1
Total Removal		\$50,000		Oe bell		1/12/10
N 6111	1	Structure Needed (Ontings)		Dennis Vermillion		
Peer Task	VOIK Bleakdowii	Structure Needed (Optional)		Project Contact & Extension	Shirley Grant	X. 4057
经营销的						
				APPROVAL To:\$99,999 Director	SIGNATURE(S) REQUIRED	
Sub Task				\$100,000-\$499,999 - VP/or GM Utility		
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0	uestions: contact l	Project and Fixed Asset Accoun	itino T	Date Work Completed		
<u> </u>		1472 or Howard ext-2936)	_	Foreman/	•	
			<u>[</u>	Supervisor		. 1

Revised December 2009

Selby, Rob

From:

Selby, Rob

Sent:

Thursday, December 03, 2009 10:03 AM

To:

'James.Anderson@hdrinc.com'

Cc:

Magruder, Mike

Subject:

Otis Orchards GCB, Line Relay & SCADA Upgrades

Hi Jim,

I understand you've graciously volunteered to design the upgrades at Otis Orchards substation for us.

I'll need an estimate so we can get the contract set up.

Here is a copy of the general plan and one lines for the station:







E-29199s007r04.tif E-29199s001r04.tif e-29199s002r07.TI

F

Scope

The scope of work of the project is:

- Remove OCB's A-640, A-641, A-642, A-645, and A-646. OCB A-646 is being removed for the future transformer addition.
- Replace four 115 kV OCB's with new Mitsubishi GCB's. Remove old oil containment liner, and replace foundations. (Use E-10000, Sht 46, Det 178 for new GCB foundations.)
- Replace A-640, A-641, A-642, and A-645 with new Mitsubishi GCB's. (GCB A-646 will be added during the transformer addition, which is not in the scope of your project). Base drawings for these breakers are available. Use Nez Perce or Appleway substation drawings.
- Add four new 115 kV PT's for hot line sensing including associated foundations, steel, secondary cabinet, and control wiring. (Use E-10000, Sht. 41, Det. 166 for foundation)
- Replace existing duplex relay and control panels for four line positions

We're ahead of any of the protection team so I do not have a relay or integration design. The relay and integration design is scheduled to be completed by January, 26, 2010.

Rack Wiring & Prints

The 115 kV line panels will be similar recent jobs using a SEL-421 / SEL-311L combination.

The SCADA rack will be similar to Northeast, which is still under design. (E-36195 Series) It will be a DNP protocol based and use a Cybectec / SEL-2440 combination.

Existing drawings are mainly AutoCAD conversions from CADAM.

Physical Notes:

The station has an MTC and Trenwa which will ease any cabling requirements.

Brian Chain will be replacing the battery bank next year. He will be responsible for the drawings, so you will need to coordinate design with each other.

Construction Outages:

I'm expecting that each line position will be out of service, one at a time. We have not scheduled any outages for the 115 kV lines. Let me know if there is a preferred sequence as a result of the design.

I'm sure there will be more details once we get into the job further. Please email or call if you have some questions regarding the scope for developing an estimate.

Thanks!

Rob Selby Substation Design **Avista Utilities** (509) 495 2560

	:	WORK AUTHOR	IZATION No.	24
	EFFECTIVE DAT	E. December 9, 2009		
	Project/Task: Otis C Requestor/Departm Consultant: HDR I	Drchard Substation Engineering Sc ent: Rob Selby /Substation Design Engineering, Inc.	rvices	Requestor ORG; M08
	Description of Rec	uested Work/Schedule/Delivera	les:	
		incering Services for the Otis Orel of December 7, 2009.	iards Substation Pro	ject as outlined in Consultant's
	Work schedule will	be at the direction of Rob Selby.		•
	Attachments: Cor	sultant's Proposal dated December	7, 2009.	
<u> </u>	Compensation for	This Work Shall Be:	<u> </u>	
	[] For a [X] For a	lump sum price of \$ ctual time and expenses outlined in out the express written consent of A		sal not to exceed \$97,478
		\$	e de la companya de l	
	The above-describ	ed work is authorized herewith:		
***	The above-describ			HDR ENGINEERING, INC.
_	AUTHORIZED B	Y AVISTA:	ACCEPTED BY	HDR ENGINEERING, INC.
	AUTHORIZED B W July July Signature	Y AVISTA:		34D
	AUTHORIZED B Signature Richard L. Vermee Printed Name	Y AVISTA:	ACCEPTED BY Signature Printed Name	E. Bernhartell
	AUTHORIZED B W Y Signature Richard L. Vermee	Y AVISTA:	ACCEPTED BY Signature	E. Bernhartell

REV 4/14/04



ONE COMPANY Many Solutions

December 7, 2009

Mr. Mike Magruder Avista Utilitiës P.O. Box 3727 Spokane, WA 99220-3727

Re: Otis Orchards Substation – Replace four 115 kV OCB breakers A-640, A-641, A-642 and A-645 with 115 kV GCB breakers, remove 115 kV OCB breaker A-646, replace 115 kV Line relaying on breakers A-640, A-641, A-642 and A-645, replace the 115 kV bus panel with new bus meter, 86B lockout and 87B bus relay and install new station integration system SCADA rack:

Dear Mike:

HDR is pleased to provide the following engineering cost estimate for replacing four 115 kV OCB breakers A-640, A-641, A-642 and A-645 with new Mitsubishi 115 kV GCB breakers, remove 115 kV OCB breaker A-646, replace 115 kV line relaying panels for breakers A-640, A-641, A-642 and A-645, replace the existing 115 kV bus panel to provide new bus metering, 86B lockout and 87B bus differential relay and install new Avista standard station integration system (SCADA) rack. HDR will provide engineering services for this project from our Spokane office. The estimate includes providing the drafting work required for these drawings. HDR will collect pertinent data from Avista's files. Our design is based upon using similar station equipment drawings as a base from the previous projects I have recently designed for you.

The design will include modifications to the physical drawings, develop the associated control, schematic and wiring diagrams for the new additions, convert and update the existing paper copy material and cable lists to electronic format, as well as preparation of material requirements for the project. HDR will review the drafted copies and assemble a complete set of preliminary construction drawings for review by Rob Selby.

The cost of providing engineering services for this project will include HDR's labor and direct project expenses. Engineering labor is estimated to be approximately \$85,070 with expenses of approximately \$3,546 and a 10% contingency of \$8,862 for a total of \$97,478. Expenses include a \$3.70 per hour technology charge. We anticipate that Jim Anderson, Dan Scholz, Lacey Browne and Frankie Kipp will be the individuals comprising the design team for this project.



ONE COMPANY Many Sulutions .

We have estimated the following number of hours for the following employees:

Jim 452 hours @ \$120 / hour Dan 304 hours @ \$ 71 / hour Lacy Browne 70 hours @ \$ 63 / hour Frankie Kipp 12 hours @ \$ 63 / hour

We look forward to working with you on this project. Please call if you have any questions.

Sincerely,

William E. Barnhart II, P.E.

Vice President

James N. Anderson Project Engineer

AVISTA UTILITIES REPLACE 4 OCB 115 KV BREAKERS WITH GCB UNITS AND LINE RELAYING ON BREAKERS OTIS ORCHARDS 115 KV SUBSTATION STATION ENGINEERING COST ESTIMATE

TASK DESCRIPTION	PROJ MGR	JIM ENG	SEN CIVIL	CIVIL ENG	CAD DFT	SEO	TOTAL
A FI FOTOION I AVOIT DEGICLE				-			
A ELECTRICAL LAYOUT DESIGN	ء نہ	á.			0.0		terminal
General Plan Updates	1.0	8.0			8.0		17.0
Section View updates	2.0	20.0			20.0		42.0
Ground Plan updates	1.0	8.0			8.0		17.0
Grounding Plan updates	1.0	6.0			6.0		13.0
Cable Location Plan updates	1.0	8.0			8.0:		17.0
Panel House Detail Updates	1.0	6.0			6.0		13.0
Material List Conversion & Updates	ما شد	30.0	mi m	:	200	40.0	70.0
TOTAL HOURS ELECTRICAL LAYOUT DESIGN	7.0	86.0	0,0	0.0	56.0	40.0	189,0
ELECTRICAL CONTROL DESIGN							
Breaker Wiring Diagrams	4.0	40.0			32.0		76.0
CT-PT Schematic Diagrams	4.0	32.0			24.0		60.0
Breaker Control Schematics	4.0	48.0			40.0		92.0
Bus Differential and Lockout Schemilic Updates	2.0	32.0			32.0		66.0
Panel Wiring Diagrams	5.0	50.0			40.0		95.0
Panel Front View Layouts	2.0	30.0			24.0		56.0
Cable List Conversion & Updates	2.0	30.0				30.0	62.0
Station Integration Schematics and Wiring Diagrams	4.0	60.0			40.0		104.0
TOTAL HOURS ELECTRICAL CONTROL DESIGN	27.0	322.0	0.0	0.0	232.0	30.0	611.0
PROJECT MANAGEMENT		6.0				12.0	10.0
Invoice Preparation					40.0	(2.0	18.0
QAQC Review		16.0			16.0		32.0
Review/ Client Meetings TOTAL HOURS PROJECT MANAGEMENT	0.0	16.0 38.0	0.0	ĎΌ	16.0	12.0	18.0 66.0
FIELD TRIP							
Substation Scoping Trip		6.0					6,0
TOTAL HOURS	34.0	452.0	0.0	0.0	304.0	82.0	872.0
				ESTIMATI	ED MANHO	UR COST	\$85,070
DIRECT EXPENSE ESTIMATE D. TRAVEL EXPENSES							
MILEAGE						\$20.00	
		TOTAL Trav	el Expenses			\$20	\$20
COMPUTER SERVICES 1 TECH CHARGES					\$/HR \$3.70	\$3,226	
		TOTAL Tech	Charges		·	•	\$3,226
. Prints and Plots							
1 Prints		TÖTAL Print				300.00 \$300	\$300
						\$500	
		ESTIMATED	DIRECT EXP	ENSES			\$3,546
ROJECT SUMMARY							bär äsa
Estimated Manhour Cost							\$85,070
Estimated Direct Expenses							\$3,546
Engineering Contingencies @ 10%						'	\$8,862
•		TOTAL ES	TIMATED SU	BSTATION	ENGINEER	ING COST	\$97,478

Selby, Rob

From:

Selby, Rob

Sent:

Friday, December 04, 2009 10:03 AM

To:

'James.Anderson@hdrinc.com'

Subject:

Otis Orchards Schedule

Hi Jim,

The schedule for the line relay upgrades centers around the outage windows. System operations would prefer the outages take place during Fall or Winter.

The design should be available for relay rack construction over summer. Outages would start Fall 2010.

Projected Schedule:

Design

June 2010

Rack Construction

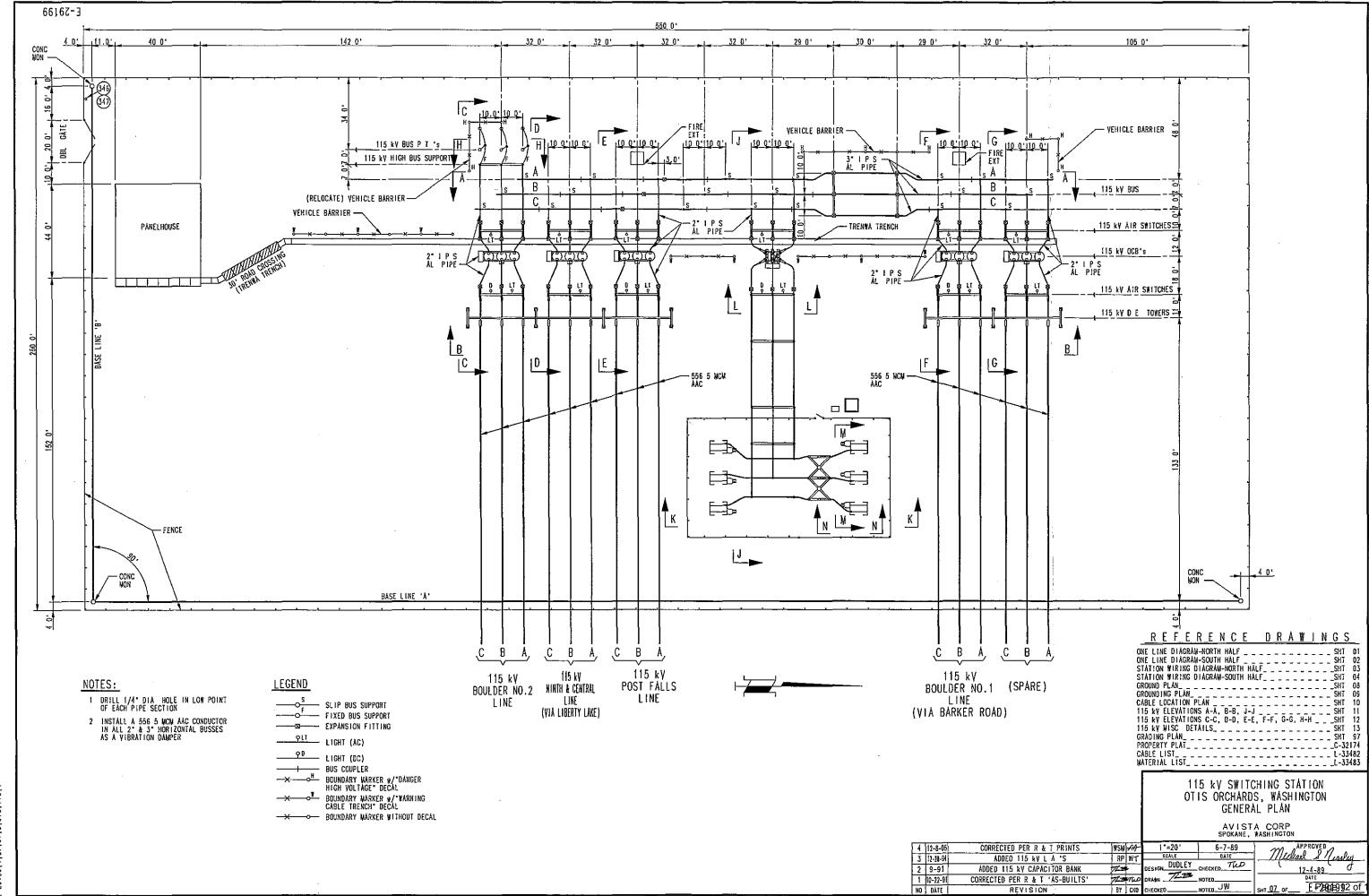
July, Aug, Sept 2010

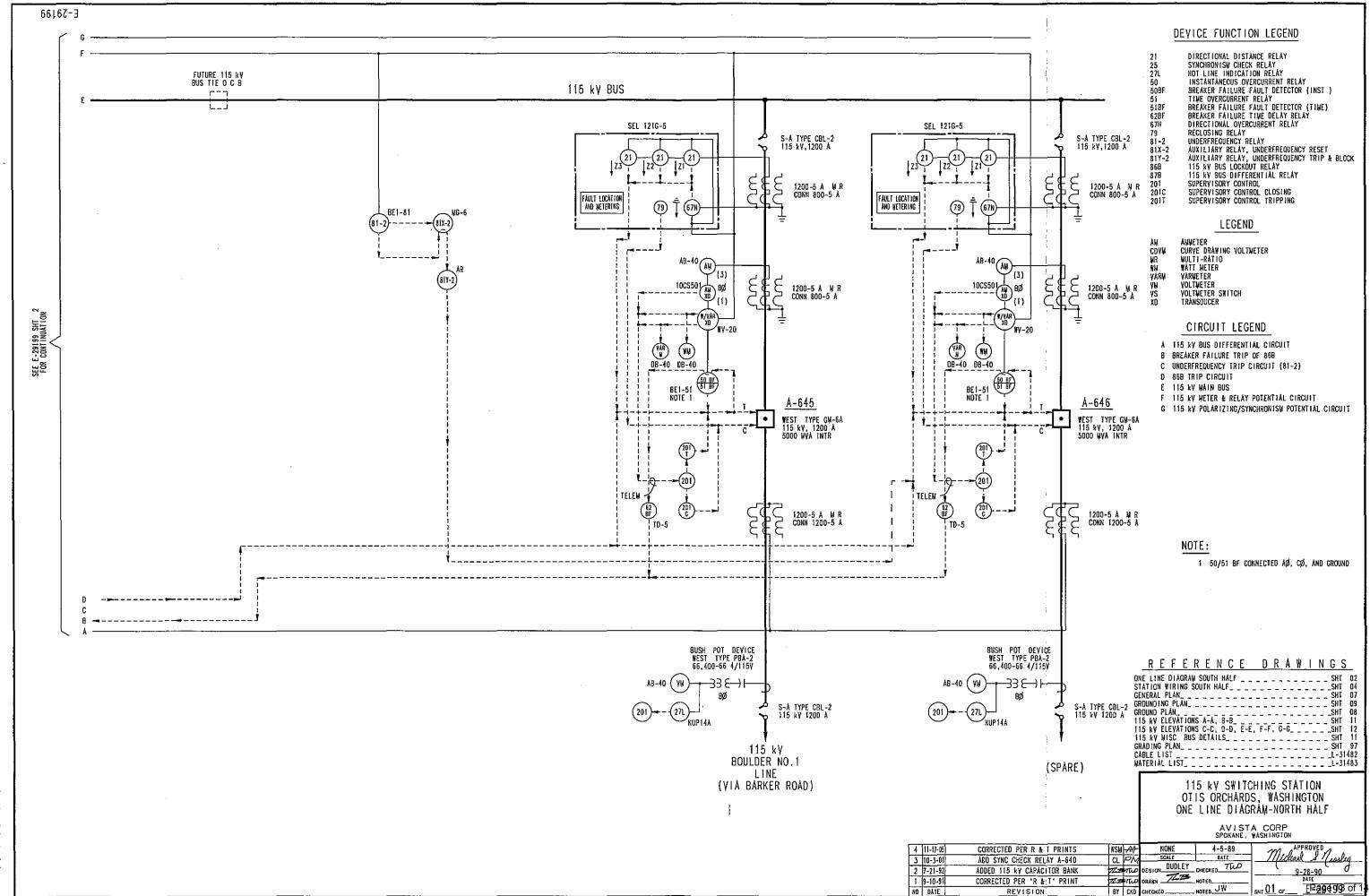
Line Outages

Oct 2010

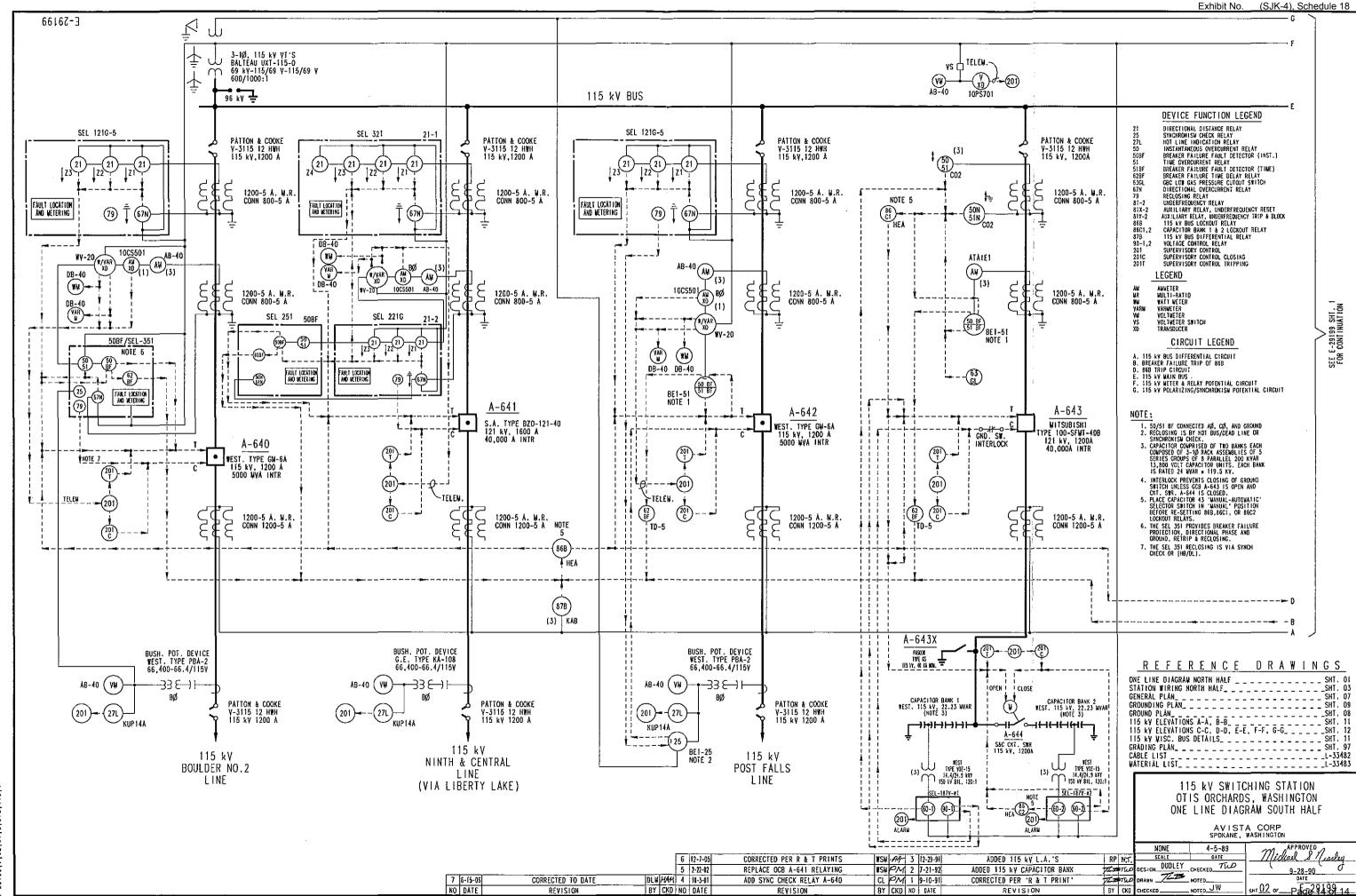
Construction Complete Jan 2011

Rob Selby Substation Design **Avista Utilities** (509) 495 2560





E-29198,4,01,01,S,0TS,115,1



£-29199,7,02,01,S,01S,115,1

ER No.: 2254

ER Name: Replacement Programs – Air Switch Upgrade

Pro Forma Amount: \$165,000

Expended to Date: \$111,306

2010 Transfer to Plant Date: December 2010

Project Description:

Replacement Programs (\$2.044 million - Total):

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission and substation air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, replacement of obsolete circuit switchers, substation battery replacement, interchange meter replacements, high voltage fuse upgrades, replacement of fuses with circuit switchers, and voltage regulator replacements. All of these individual projects improve system reliability and customer service. The equipment under these replacement programs are usually not maintained on a set schedule. The equipment is replaced when useful life has been exceeded. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment.

ER 2254 funds the Transmission Line Air Switch Upgrade Program (TLASUP).

The projects associated with the TLASUP replace aging and malfunctioning air switches. Air switches are utilized to sectionalize the 115kV Transmission System. They are also used to isolate a fault and restore power to customers or to isolate a portion of line when performing maintenance. This program is designed to insure that the air switches operate in a safe and reliable manner.

The specific projects TLASUP projects scheduled for 2010 include:

	CPR	Spent Prior	To be Spent
Project Name	Amount	to 2010	in 2010
Switch A295 on the St. Maries Tap @ Ogara (Benewah – Pine Creek 115kV Line)	\$99,500		\$99,500
Switch A23 on the Spirit Lake Tap (Pine Street – Rathdrum 115kV Line)	\$38,600		\$38,600
Switch A334 on the Cottonwood Tap (Grangeville – Nez Perce #1 115kV Line)	\$98,000	\$107,006	(\$9,006)
Switch A328 on the Colbert Tap (fed from BPA system)	\$38,600		\$38,600
Totals	\$274,700	\$107,006	\$167,694

As noted above, the company has 4 projects that are to be completed during 2010. The requested pro forma amount is the amount to be spent in 2010, amounting to approximately \$165,000, although the total estimated amount to be put into service during 2010 may exceed \$274,700.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:	Start Date	End Date
BI AMT10: Switch A295 on the St. Maries Tap	Fall, 2010	Fall, 2010
BI AMT10: A23 on the Spirit Lake Tap	Fall, 2010	Fall, 2010
BI AMT10: Switch A334 on the Cottonwood Tap	Fall, 2010	Fall, 2010
BI AMT10: Switch A328 on the Colbert Tap	Spring, 2010	Spring, 2010

See attached timeline for further detail.

Attachment Index:

•	ER Costs	pg. 3
•	Capital Project Request (CPR) Forms, including all attachments	pg. 4-7
•	Design Scope Document	pg. 8-9

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILTIES ER 2254 COSTS THROUGH MARCH 15, 2010

	,		2008 Transaction Amt	2009 Transaction Amt	2010 Transaction Amt
Er Project Number	er Project Desc	Expenditure Category			
2254 39905022	Cottonwood Tap Repl Swtchs	AFUDC	2,252.66	6,365.48	1,499.51
		Contractor	-	969.73	1,100.00
		Contributions	(12,299.72)	-	-
		Labor	2,166.45	14,050.23	62.52
		Material	10,586.34	929.26	-
		Overhead	8,351.87	19,534.24	606.31
		Transportation	360.00	7,220.05	1,032.00
		Vehicle	91.22	-	-
		Voucher	57,872.82	(11,444.82)	
	Sum	_	69,381.64	37,624.17	4,300.34
				Total costs	111,306.15

		CADITAI				
	Corp		PROJECT REQU		Request Type	Project(s)
ER	Budget Category		D	(CPR)	Revised	39905060
2254	5-Maintenance		-	ct Title (30 Characters)	Horself in Coin	
	me (100 Character		BEN-PC	115: Inst Scada on A-11		
Long Frojest Na		Benewah-Pine Creek 115kV: In	etall Scada on air a	witch A 11 of Ones		'Parent' Code
		Benevani-i me oreek 115kv. III	Stall Scaua on all Sv	A295		
Approved Budget	Will This Project		ER Sponsor	BI Number	WMS Job#	Deta ludadi di
X	Include	67	Lit oponsor	AMT10	AAIAI2 JOD #	Rate Jurisdiction
	Retirement of	Revenue Type			Lor	ation
Billing	Materials or Equipment?	NA- Not Applicable	Dillian Contact			kv line-ID
Dilling	Yes		Billing Contact			Start Date
	4				9/12	2/2010
Project Descript	ion (Include Purpo	se and Necessity - 240 Character	rs)			Lorer Name Count
BENEWAH-F	PINE CREEK 115	V - Install Scada controls on air which will minimize the ou	r switch A-11 at the stage time on the St.	Ogara Substation. This will allov . Maries Tap.	v remote switching	
						187
		CONSTRUCTION		Budget Authorized:		\$99,500
Office Use only	FERC	Estimated Amount	As Built Amount			
Task	3XXXXX	By FERC Number	By FERC Number	Office Use O	inly	Date
	300100	\$10,000		Project Set Up By		
	355000	\$1,000		Approved By		
	356000	\$87,500				
				A	PPROVALS	
				SIGNATUR		DATE
GROSS ADDITI	ONS	\$98,500		Signature /		DATE
Cost of Remova	al By FERC (3XX)			olginature in the same of the		10/
	355000	\$500		Ken Sweigart		2/3/2010
	356000	\$500		Signature		
		\$300		Signature		
				B		
				Rick Vermeers		
	Total Removal	\$1,000		Signature		
Salvage By FER		\$1,000		,		
Salvage by FER	(SAAAAA)			Don Kopczynski		
				Signature		
	T (10 1					
T-4-15	Total Salvage		***	Signature		-
Total Removal I	Less Salvage	\$1,000				
	Vork Breakdown	Structure Needed (Optional)				
Peer Task				Project Contact & Extension	Dan Gregovich	
				APPROVAL SIG	SNATURE(S) REQUI	RED
				To \$99,999 - Director		
Sub Task				\$100,000-\$499,999 - VP or GM	Utility	
				\$500,000-\$2,999,999 - Sr Vice		
				\$3,000,000-\$9,999,999 - Presid		
				Over \$10,000,000 - Board Chai		
				Out-of-Budget - Capital Budget		10
				C. Daagot - Capital Dudget	Committee	
				THE PROJECT SPONSOR IS RE	Signary Corners	
Date Prepared:	02/02/10	l.				
TOTAL COST OF	F PROJECT	\$99,500		COMMUNICACION DE LA COMP		Backward brille
0001 01		\$55,50U		D-1-W-1-O		
O	uestions: contact I	Project and Fixed Asset Accoun		Date Work Completed		
Q	(Sue ext.	4472 or Howard ext-2936)	١ .	Foreman/		
	(Cuc ext	OI I IOWAIU GAL-2330)	L	Supervisor		

	157 4 °	CAPITA	L PROJECT REQ	UEST FORM	Request Type	Project(s)
ER	Corp Budget Category			(CPR)	Revised	3990505
2254	5-Maintenance		Proje	ct Title (30 Characters)	To Com	- 1 1 0 30 0 ca
	me (100 Character	ED-Electric Direct	Instal	A-23 at Spirit Lk Tap	25	
		STREET-RATHDRUM 115kV	Install air switch A	23 of the Crimit I also Ta		'Parent' Cod
			mistan an Switch A-	23 at the Spirit Lake Tap		
Approved Budget	Will This Project	er de les estades de la mais de l	ER Sponsor	Bl Number	WMS Job #	Data India II (
	Include Retirement of	Revenue Type		AMT10	- TIME 605 #	Rate Jurisdicti
	Materials or	NA- Not Applicable				ation
Billing	Equipment?		Billing Contact		399-115 Project	kv line-ID Start Date
	Yes				9/12	2/2010
Project Descript	ion (Include Purpo	se and Necessity - 240 Characte	rs)			
PINE STREET-	RATHDRUM 115k	:V: Install air switch A-23 south	of the Spirit Lake Ta	p. This will eliminate the need to o	nen iumnoro whee	ong Name Count
		isolating the line between	the Spirit Lake Tap a	and Athol Tap.	pen jumpers when	
		CONCEDUCTION				194
Office Use only	FERC	CONSTRUCTION		Budget Authorized:		\$38,60
Task	3XXXXX	Estimated Amount	As Built Amount			700,00
Task		By FERC Number	By FERC Number			Date
	300100	\$3,500		Project Set Up By		
	355000	\$12,900		Approved By		
	356000	\$21,000				
				APPI	ROVALS	
00000				SIGNATURE		DATE
GROSS ADDITION		\$37,400		Signature 4		DATE
Cost of Remova	al By FERC (3XXX	(XX)		1 ///	60 I	1 /
	355000 \$1,000			Ken Sweigart	1 20	2/3/2010
	356000	\$200		Signature	77	
				Rick Vermeers	′	
				Signature		
	Total Removal	\$1,200				
Salvage By FER	C (3XXXXX)			Don Kopczynski		
				Signature		
	Total Salvage			Signature		
otal Removal L	ess Salvage	\$1,200				
1						
Non Standard W	ork Breakdown S	Structure Needed (Optional)				
Peer Task				Project Contact & Extension D	an Gregovich	
				APPROVAL SIGNA	TURE(S) REQUIR	ED
Sub Task				To \$99,999 - Director		
oup rask				\$100,000-\$499,999 - VP or GM Uti	litv	
				\$500,000-\$2,999,999 - Sr Vice Pre		
				\$3,000,000-\$9,999,999 - President	CEO/COO	
				Over \$10,000,000 - Board Chair	020,000	
				Out-of-Budget - Capital Budget Cor	nmittee	
ate Prepared:	02/02/46			HE PROJECT SPONSOR IS RESPO	NSISTA PERSONA	North Annual Control
are rrepared:	02/02/10			MMEDIATELY UPON COMPLETION		
TAL COST OF	DDO IDOT			SUMPLEME AS BUILT INFO AND FO		
TAL COST OF	PROJECT	\$38,600				
^	antions: =			Date Work Completed		
Qu	estions: contact Pi	roject and Fixed Asset Account	ng F	oreman/		-
	(Sue ext-44	172 or Howard ext-2936)	ls	Supervisor		

Supervisor

		CADITAL DDC	I COT DEALLE			Exhibit No(SJk	(-4), Schedule 19
Alvis:	1/4	CAPITAL PRO	JECT REQUE	SI	FORM	Request Type	PROJECT
	Corp.					Revised	39905022
ER 2254	Budget Cat	SERVICE CODE	PROJECT	TITLE	E (30 CHARS)	1370 EGLOTAIS	LOCATION
2254	5	ED	Cottonwood Tap	o: R	epl. Switches	30	399
		PROJ	ECT DESCRIPTION (250	CHA	ARS)		
	GRANGI	EVILLE MEZ DEDCE #4	1 11514 0-4		D 1 (0) (0)		
	OIVAIVOI	EVILLE-NEZ PERCE #1	1 115KV; Cottonwood	lap	p: Replace (3) Ki	PF air switches	
APPROVED BUDGET		Description Chair Counts 41.	ORGANIZATION	7	B/I NUMBER	WMS (Y OR N)	DATE ILIDIODIOT
X		76	L08		#F335	N N	RATE JURISDICT AN
BILLING			BILLING CONTACT		AMTIN	PROJECT START DAT	
					AMTIO	PROJECT START DAT	2/16/2008
		LONG NAME (INCL)	IDE DUDDOCE AND MED				27.10/2000
			JDE PURPOSE AND NEC				
GRANGEVILLE-	NEZ PERCE #	1 115kV - There are (3)	KPF air switches at t	he (Cottonwood Tap	that have been difici	Ilt to operate an
	will not sta	y in adjustment, replacir	ng these will provide t	for s	afer and more re	liable switching	ait to operate and
			•			mable evitoring.	
							Long Name Count
CONCEDUCTION							222
CONSTRUCTION					Total Construct	ion Cost	\$98,00
-	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT				<u> </u>
200400	3XXXXX	BY FERC NUMBER	BY FERC NUMBER		NOT RE	QUIRED	
300100	300100	\$8,500			BUDGET AUTHOR	IZATION	
107300	355000	\$25,000			PREVIOUSLY APP	ROVED	
107300	356000	\$58,000			THIS AFE		
					TOTAL TO DATE		
					BALANCE NOT AP	PROVED	
						APPROVALS	
SCOOL ADDITIONS					SIGI	NATURE,	DATE
SS ADDITIONS	V EEDO (OVV)	\$91,500					11
108000	Y FERC (3XXX				Ken Sweigart 7	nello Oll	2/3/2010
100000	355000	\$1,500					
	356000	\$5,000					
					Rick Vermeers		
					Don Kopczynski		
				r			
		 		l	Project Contact	Dan Gregovich	
						THE WANTED THE T	
IET SALVAGE		¢c 500		г		SIGNATURE(S) REC	QUIRED
ILI SALVAGE		\$6,500		- 1	To \$99,999 - Directo		
					\$100,000-\$499,999		
		 				9 - Sr Vice President	
Ion Standard Wo	rk Broakdoum	Structure needed (Opt	4: - 2)		\$2,000,000-\$9,999,9		
4011 Otalidalu 440	IN DIEANGOWII	Structure needed (Opt	lional)	1	Over \$10,000,000 - E		
					Out-of-Budget - Capi	tal Budget Committee	
		+					
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						SPONSOR IS RESPON	
				si.			
		 				N COMPLETION OF WO	
						OMPLETE AS BUILT IN	FO AND
Date Prepared:	10/30/2007	7			FORWARD TO PLA	NT ACCOUNTING,	
i chaica.	1010012001	1					

\$98,000

TOTAL COST OF PROJECT

Date Work Completed
Foreman/
Supervisor

	ISTA.	CAPITA	L PROJECT REQ	UEST FORM	Request Type	Project(s)
	Corp			(CPR)	Revised	2990 5083
ER	Budget Category	Service Code	Proie	ct Title (30 Characters)	Neviseu	2770 308.3
2254	5-Maintenance	ED-Electric Direct	Replac	ce A-328 on (NextTap		
Long Project Na	ime (100 Character					'Parent' Code
		115kV Milan Tap:	Replace air switch	A-528		Turchi Code
Approved Budget	Will This Project					
X	Include	Long Project Name Count	ER Sponsor	BI Number	WMS Job #	Rate Jurisdictio
	Retirement of	Revenue Type		AMT10		WA-Washingtor
	Materials or	NA- Not Applicable				ation kv line WA
Billing	Equipment? Yes		Billing Contact		Project	Start Date
	l les					/2010
Project Descript	ion (Include Purpo	se and Necessity - 240 Characte	rs)			
115kV WHOT	ap - Replace air sv	vitch A-328. This is a KPF 600	Amp air switch with	a broken operating rod, replacing i	t with a 1200 amp	Long Name Count
		USCO switch will make for	safer and more relia	able switching.		
		CONSTRUCTION		Dudget Authorized		195
Office Use only	FERC	Estimated Amount	As Built Amount	Budget Authorized:		\$38,600
Task	3XXXXX	By FERC Number				
	300100	\$3,500	By FERC Number	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	y.	Date
	355000			Project Set Up By		
	356000	\$12,900		Approved By		
	330000	\$21,000				
				APP	ROVALS	
GROSS ADDITI	ONG			SIGNATURĘ		DATE
		\$37,400		Signature		
Cost of Remov	al By FERC (3XXX				(20)	//
	355000	\$1,000		Ken Sweigart 7 will &		2/3/2010
	356000	\$200		Signature	77	
				Rick Vermeers	·	
				Signature		
	Total Removal	\$1,200				
Salvage By FEF	RC (3XXXXX)			Don Kopczynski		
				Signature		
	Total Salvage			Signature		
Total Removal I	_ess Salvage	\$1,200				
			1			
Non Standard V	Vork Breakdown S	Structure Needed (Optional)				
Peer Task				Project Contact & Extension	Dan Gregovich	
				Sport of made at Extension	Jan Gregovich	
				APPROVAL SIGNA	TUDE/C) DEQUID	ED
				APPROVAL SIGNA To \$99,999 - Director	ATURE(S) REQUIR	KED
Sub Task						
				\$100,000-\$499,999 - VP or GM Ut		
				\$500,000-\$2,999,999 - Sr Vice Pre	esident/CFO	
				\$3,000,000-\$9,999,999 - Presiden	t/CEO/COO	
				Over \$10,000,000 - Board Chair		
				Out-of-Budget - Capital Budget Co	mmittee	
Date Prepared:	03/03/10			THE PROJECT SPONSOR IS RESPO		ANG THIS JOB, 10
are Licharen:	02/02/10					HS FORM
TAL COST OF	DDO IECT T			COMPLETE IN HULL INFO AND R	A VARP TO TO ST	Y ACCOUNTING
TAL COST OF	- PROJECT	\$38,600				
_			ا	Date Work Completed		
Qi	restions: contact P	roject and Fixed Asset Account	ing	Foreman/		
	(Sue ext-4	472 or Howard ext-2936)];	Supervisor		

DESIGN SCOPING DOCUMENT

115kV AIR SWITCH UPGRADE PROGRAM

PROJECT DESCRIPTION:

Air switches are utilized to sectionalize the 115kV Transmission System. They may be used to isolate a fault and restore power to customers or to isolate a portion of line when performing maintenance. This program is designed to insure that the air switches operate in a safe and reliable manner. The following projects are scheduled in 2010;

A-295 @ OGARA – Install Scada controlled motor operator

Motor Operator	\$10,000
Scada Controls	\$35,000
Engineering	\$10,000
Construction 10 days @ \$2,500	\$25,000
TOTAL (Taxes, A&G, and PM): @ 30%	\$ 21,100

TOTAL COST \$101,000

A-23 @ **SPIRIT LAKE TAP** – Install new air switch on the south side of the Tap. Right now they have to open jumpers to isolate the section of line between the Spirit Lake Tap and Athol Tap.

115kV air switch	\$8,000
Switch Structure	\$7,000
Engineering	\$3,500
Construction 3 days @ \$4,000	\$12,000
TOTAL (Taxes, A&G, and PM): @ 30%	\$ 8,100

TOTAL COST <u>\$38,600</u>

A-334 @ COTTONWOOD TAP – Replace 600 Amp KPF air switch with 1200 Amp USCO air switch...

Materials purchased prior to 2010	\$ 107,006
Materials purchased in 2010	\$ 4,300
Engineering	\$ 1,200
Construction (Incl. Removal) 3 days @ \$4,000	\$ 12,000
TOTAL (Taxes, A&G, and PM): @ 30%	\$ 3,600

TOTAL COST \$128,106

A-328 @ COLBERT TAP – Replace 600 Amp KPF air switch with 1200 Amp USCO air switch.

115kV air switch	\$8,000
Switch Structure	\$7,000
Engineering	\$3,500
Construction (Incl. Removal) 3 days @ \$4,000	\$12,000
TOTAL (Taxes, A&G, and PM): @ 30%	\$ 8,100

TOTAL COST \$38,600

TOTAL COST OF AIR SWITCH PROGRAM FOR 2010 \$306,306

GENERAL RESPONSIBILITIES:

ER: 2254
BI: AMT10
Project Number: Various
Engineering Task Number: 300100
Construction Installation Number: 107300

Project Designer: Dan Gregovich System Operations: Garth Brandon

Right-of-Way (Customer Contacts): N/A
Operations Support Various

PROJECT SCHEDULE:

A-295 Fall/2010 A-23 Fall/2010 A-334 Fall/2010 A-328 Spring/2010

ER No.: 2260

ER Name: Replacement Programs: Upgrade Surge Protection

Pro Forma Amount: \$100,000

Expended to date: \$0

2010 Transfer to Plant Date: April 2010 (\$50,000) and October 2010 (\$50,000)

Project Description:

Replacement Programs (\$2.044 million):

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission and substation air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, replacement of obsolete circuit switchers, substation battery replacement, interchange meter replacements, high voltage fuse upgrades, replacement of fuses with circuit switchers, and voltage regulator replacements. All of these individual projects improve system reliability and customer service. The equipment under these replacement programs are usually not maintained on a set schedule. The equipment is replaced when useful life has been exceeded. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment.

We expect to complete Arrestor installations at Davenport and Marengo Substations in spring 2010. In addition, we expect to install new Arrestors at Palouse or Spangle Substation in the fall.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

Later this spring we will coordinate with transmission line work at Davenport to install Arrestors at Davenport Substation. An outage will be coordinated at Marengo Substation later in the spring/summer. In the fall we intend to install arrestors at either, or both, Palouse and Spangle Substations depending on crew resource and mobile substation availability.

Additional Information:

• Capital Project Request (CPR) Form

pg. 3-4

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

ATVI.		MORN AND WINE	PITAL PROJECT	Color Andrews Application of the Color of th	Request Type	Project(s)
FD	Corp.	Use Tab Key		(CPR)	New	0280551
ER /	Budget Category	P	I.	Project Title (30 Characters)	Project Title Count	
2260	5-Maintenance	ED-Electric Direct	N	larengo - 115 kV Surge Arr	26	
Long Project Na	me (100 Characters		tennelaumen bink sid	e lightning (surge) arrestors.	1284	Parent Code
		Marerigo, iristali	transformer riigh sto	e lightning (surge) arrestors.	2/14/200	MGO10A
Approved Budget	Will This Project	Long Project Name Count	ER Sponsor	BI Number	WMS Job #	Rate_Jurisdiction
Yes	Include	68	M08 /	AMS81		AN-Allocated North
	Retirement of Materials or	Revenue Type NA- Not Applicable			Location	
Billing	Equipment	NA- NOT Applicable	Billing Co	ntact	028-Washing Project Start	
	No /				03-11-201	
Project Descript	on (Include Purpo	se and Necessity - 240 Character	· \			1
Install vol	tage surge suppre	ession (lightning arrestors) on th	e high voltage side o	f transformer. Older style spill gap protection	n will be eliminated with a	Long Name Count
		tra	nsmission air switch	replacement.		
		CONSTRUCTION		Budget Authorized:		193
Office Use only	FERC	Estimated Amount	As Built Amount	Dadget Authorized.		\$9,000
Task	3XXXXX	By FERC Number	By FERC Number	Office Use O	nly	Date
304100/	300100 /	\$1,000	-jno number	Project Set Up By	y	Date
107300/	353000	\$8,000		Approved By	-	2/16/10
, 0 ,0		40,000		Approved by		3/19/10
						/
				Al	PPROVALS	
				SIGNATUR		DATE
GROSS ADDIT	ONS	\$9,000.		Signature / / /		1919
Cost of Remov	al By FERC (3XX)	XXX)		D. What		3/11-10
				Print Name Daniel R. Whicker	ra.	2/15/10
						3/15/10
				Signature Wuchel a Magrider Print Name Michael Magruder Signature		3/15/10
				Print Name Michael Magruder	5	N (5
				Signature		
	Total Removal			potential descriptions (Park		
Salvage By FEI	RC (3XXXXXX)			Print Name		
				Signature		
				1 (A 20 (A 4 20 CA)		
				Print Name		
	Total Salvage			Signature		
Total Removal	Less Salvage			1000 man		
				Print Name		
	Vork Breakdown	Structure Needed (Optional)				
Peer Task				Project Contact & Extension Dan Whick	er Ext 2439	
					NATURE(S) REQUIRED	
No. To a la				To \$99,999 - Director		
Sub Task				\$100,000-\$499,999 - VP or GM Utility	est tav	
				\$500,000-\$2,999,999 - Sr Vice President/C		
				\$3,000,000-\$9,999,999 - President/CEO/C0	00	
				Over \$10,000,000 - Board Chair		
				Out-of-Budget - Capital Budget Committee		
				T		
)ata Premarada	02 14 10			THE PROJECT OF CHARLES IN THE COLUMN TO THE	01.000.00.70.00	
ate Prepared:	03-11-10			THE PROJECT SPONSOR IS RESPONSIBLE FOR		
OTAL COST O	E DDO IECT	20.000		IMMEDIATELY UPON COMPLETION OF WORK, SI	TO 1.5 (1.5 (1.5 (1.5 (1.5 (1.5 (1.5 (1.5	
UTAL COST C	PROJECT	\$9,000		COMPLETE 'AS BUILT' INFO AND FORWARD TO U	THEITY ACCOUNTING.	
0	uestions, contact	Project and Fixed Asset Accour	eting [Date Work Completed		
		4472 or Howard ext-2936)	9	Foreman/		
	1			Supervisor		

Revised December 2009

	STA. Corp.	Use Pab Key	PITAL PROJECT		Request Type	Project(s)
ER	Budget Category			(CPR)	New	0380221
2260			1	Project Title (30 Characters)	Project Title Count	
	5-Maintenance ime (100 Character	A STATE OF THE PARTY OF THE PAR	l Di	avenport - 115 kV Surge Arr	28	
ong Project No	ine (100 Character	•	I transformer high sig	de lightning (surge) arrestors.	sel upo	'Parent' Code
		a a romporta motos	r transformer night sit	/ (surge) arrestors.	3/16/10/1	DVP10A
Approved Budget	Will This Project		ER Sponsor M08	BI Number	WMS Job #	Bate Jurisdictio
Yes	Include Retirement of	70 Revenue Type	M08 /	AMS81		AN-Allocated No.
	Materials or	NA- Not Applicable		Location 028-Washing		
Billing	Equipment?	17	Billing Co	entact	Project Start	
	No /				03-11-201	0
Project Descript	ion (Include Purpo	se and Necessity - 240 Character	s)			Long Name Count
Install vo	Itage surge suppre	ession (lightning arrestors) on th	e high voltage side o	f transformer. Older spill gap style protection	n was eliminated during a	
		tra	nsmission air switch	replacement.		
		CONSTRUCTION		Budget Authorized:		191
Office Use only	FERC	Estimated Amount	As Built Amount	Budget Authorized.		\$9,00
Task	3XXXXX	By FERC Number	By FERC Number	Office Use Or	alse	D-4-
300,00	300100	\$1,000	by reno number	Project Set Up By	lly	Date
187300	353000	\$8,000		Approved By		2/11/10
70.700		40,000		Approved by	- Irai	3/10/10
				- //		, ,
				ΔΕ	PROVALS	
			/	SIGNATUR		DATE
GROSS ADDIT	IONS	\$9,000		Signature / / /		
Cost of Remov	al By FERC (3XX	XXX)		D. Chil	-:	3/15/10
				Print Name Daniel R. Whicker		-17/0
					0/-	3/15/10
				Signature Wishala May	and the	3/15/10
				Print Name Michael Magruder	7	
				Signature		
	Total Removal			CONTROL CONTRO		
alvage By FE	RC (3XXXXXX)			Print Name		
				Signature		
				Print Name		
	Total Salvage			Signature		
otal Removal	Less Salvage					
				Print Name		
	Nork Breakdown	Structure Needed (Optional)				
eer Task				Project Contact & Extension Dan Whick	er Ext 2439	
				APPROVAL SIG	NATURE(S) REQUIRED	
				To \$99,999 - Director		
ub Task				\$100,000-\$499,999 - VP or GM Utility		
				\$500,000-\$2,999,999 - Sr Vice President/CI		
				\$3,000,000-\$9,999,999 - President/CEO/CC	00	
				Over \$10,000,000 - Board Chair		
				Out-of-Budget - Capital Budget Committee		
4. 5.	004110					
ate Prepared:	03-11-10			THE PROJECT SPONSOR IS RESPONSIBLE FOR (CLOSING THIS JOB.	
OTAL COOT S	E DDO IFOT			IMMEDIATELY UPON COMPLETION OF WORK, SIG	B to common to the transfer to the state of	
OTAL COST C	F PROJECT	\$9,000		COMPLETE 'AS BUILT' INFO AND FORWARD TO U	TILITY ACCOUNTING.	
	unntlanes t t	Depleys and Florida	r	Data Walt Committee		
C		Project and Fixed Asset Account 4472 or Howard ext-2936)	400170	Date Work Completed Foreman/		
	lone ext-	THE WITHOUGH CAPESSO)	T I	Supervisor		
			L	oupoi viauli		

Revised December 2009

ER No.: 2275

ER Name: Replacement Programs: System-Rock/Fence Restore

Pro Forma Amount: \$53,000

Expended to date: \$8,271

2010 Transfer to Plant Date: December 2010

Project Description:

Replacement Programs (\$2.044 million-Total):

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission and substation air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, replacement of obsolete circuit switchers, substation battery replacement, interchange meter replacements, high voltage fuse upgrades, replacement of fuses with circuit switchers, and voltage regulator replacements. All of these individual projects improve system reliability and customer service. The equipment under these replacement programs are usually not maintained on a set schedule. The equipment is replaced when useful life has been exceeded. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment.

This is an annual System Budget ER that has projects completed throughout the year. Therefore, the expected completion is 12/31/10.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

All of these projects are likely to be completed over the summer months.

Additional Information:

•	Capital Project Request (CPR) Forms, including all attachments	pg. 3
•	Work Authorization Form	pg. 4
•	Consultant Proposal	pg. 5

MOLE.

During the course of Avista's pending general rate case, updated information will be available for audit.

4 91 -						
	STA		L PROJECT REQU		Request Type	Project(s)
	_ Corp.			(CPR)	#Preliminary #	0280533}
ER /	Budget Category			et Title (30 Characters)	Elope Injurcoun	
2275	5-Maintenance		ROK - Fe	nce, Gravel, Grounding 🗸		
ng Project Nai	ne (100 Characters				set up	'Parent' Code
t	Rockf	ford 115 kV Substation - Upgrade	e fence, spread new	gravel, update grounding	1/19/09/	ROK09A
<u></u>	1			Distribute	7/12	
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Avista Contract No. R-29976

WORK AUTHORIZATION No. 14

EFFECTIVE DATE: February 18, 2010

Project/Task: Third & Hatch Substation Retaining Wall Stability Evaluation

Requestor/Department: Aaron Henson/Substation Design

Consultant: URS Corporation

Description of Requested Work/Schedule/Deliverables:

At the direction of Aaron Henson, provide the geotechnical engineering services as outlined in Consultant's Proposal, No. 1010, dated February 16, 2010.

Attachments (List supplemental documents describing or specifying the work and supporting the requested compensation.):

Consultant's Proposal, No. 1010

Compensation for This Work Shall Be:

For actual time and expenses per Consultant's proposal not to exceed \$11,915 without the express written consent of Avista.

Consultant shall not perform any services or make any expenditures or commitments in connection with this Agreement which will exceed eighty percent (80%) of the compensation limit stated in Section 3.1 above, without the express written advance consent of Avista.

Consultant shall provide Avista with a cost-to-complete estimate and schedule for completion of the Services at the time Consultant applies to Avista for consent to proceed beyond eighty percent (80%) of the compensation limit.

The above-described work is authorized herewith:

AUTHORIZED BY AVISTA:		ACCEPTED BY URS CORPORATION:	
Michaela Maguel	·	Ih an	
Signature		Signature	
Michael A. Magruder		R. David Enos	
Printed Name		Printed Name	
Manager, Substation Design	2/18/10	Branch Manager /VICE PRESIDENT	2/22/10
Title	Date	Title Da	ile

Note: A fully executed copy of this Work Authorization must be filed by Requestor with Avista Contract Services. A copy of this Work Authorization must accompany all invoices submitted for this work.

REV 4/14/04

URS

February 16, 2010

Mr. Aaron Henson Avista Corporation P.O. Box 3727 Spokane, Washington 99220-3727

Subject: Proposal for Retaining Wall Evaluation Third & Hatch Electrical Substation Third Avenue and Hatch Street Spokane, Washington

URS Proposal Number 1010

Dear Mr. Henson:

URS Corporation (URS) is pleased to submit this proposal for the evaluation of the retaining wall stability and mitigation measures at the Third & Hatch Electrical Substation located northwest of the intersections of Third Avenue and Hatch Street in Spokane, Washington.

BACKGROUND INFORMATION

Based on our discussions and our visit to the site on February 11, 2010, it is our understanding that there are concerns for the immediate and future stability of the rock retaining wall at the existing electrical substation facility. The substation is situated on a knoll overlooking Third Avenue north of the site. There are stepped retaining walls of stacked rock/boulder construction to at least 10 feet in height, and are likely underlain by basalt bedrock. The walls are present along all but the south side of the site and were constructed in 1980 during the construction of the electrical substation. Reportedly, about one year after the walls were constructed, an un-reinforced concrete cap was placed at the top of the wall between the substation fence and the edge of the wall to reduce crosion. Some settlement of the wall was observed on the northern side of the middle portion of the wall following installation of the concrete cap. During normal operation and maintenance work in February 2010, Avista Utility (Avista) crews observed that an approximately 30-foot long section along the northern wall had failed and boulders had rolled down the slope to the north.

The failed portion of the wall was observed during our site visit along with other areas that appear to have shifted. Erosion of sand and gravel from the wall, as well as seepage from the wall face was also observed in several areas. It also appeared that the bedrock was falling from a vertical rock cut at the west side of the site. This bedrock fall appears to be undermining the wall at the west side of the site.

URS

Mr. Auron Henson Avista Corporation February 16, 2010 Page 2 of 3

Avista has asked that URS provide a proposal for the evaluation of the stability of the retaining structures and provide alternatives to improve the retaining wall stability and erosion issues.

SCOPE OF SERVICES

In order to evaluate the stability of the retaining structures and provide alternatives to improve the retaining wall stability and mitigate crosion, the following scope of services is proposed:

- TASK 1. Review available records. URS will review the existing grading/drainage/design and as-built civil engineering plans for the project and the preconstruction topography of the site, as well as review readily available geologic/geotechnical reports for the project and general vicinity. A site visit by URS personnel and/or topographical survey will be required. Note that URS has not included a topographic survey in our estimate.
- TASK 2: Hand excavate six shallow test pits near the base of the wall to evaluate the depth to bedrock and the conditions of the wall's foundation. Test pits will be dug to observe the condition of the soils at the base of the wall. URS will use a hand auger and/or posthole digger to dig test pits to a maximum depth of three feet. Some limited field shear strength testing will be performed. The conditions observed will be recorded on logs by an engineer or geologist.
- TASK 3: Perform an engineering evaluation of the stability of the rock retaining wall, retaining wall foundation, and subsurface drainage characteristics. Perform a preliminary assessment of the severity of the problems and what types of mitigation may be appropriate.
- TASK 4: Prepare a summary report of our observations and analysis with recommendations for mitigation concepts and rough order of magnitude costs of the most obvious mitigation alternatives. The description of concepts may include sketches as necessary for proper explanation. The report will indicate whether there is any critical missing information that must be obtained, perhaps by exploration, testing, or further research, before the proper mitigation efforts can be selected. This task will include a discussion of the findings of the evaluation and alternatives for mitigation with Avista.

A second phase of services will be necessary to provide details of the preferred mitigation option(s) such that contractor bids for the work can be obtained. The level of effort for this second phase is dependent on the findings of the activities listed above and the nature of the preferred mitigation. A cost estimate for the second phase of work, which could include assistance with contractor selection and construction monitoring, will be prepared when Avista has identified preferred mitigation alternatives.

Proposal 1010

3.



Mr. Aaron Henson Avista Corporation February 16, 2010 Page 3 of 3

SCHEDULE

The field investigation for this project can be started within approximately one week following your notice to proceed. The summary letter/report will be available approximately three weeks later. The design for mitigation (Phase 2) will be prepared within four weeks of review of the summary report and discussion with Avista.

FEES

URS proposes to perform the services listed above on a time and expense basis. The estimated total cost for the Geotechnical services described above will be approximately \$11.915. Details of the estimate are shown below:

TASKS 1 and 2 - Field Observation & Review of Conditions	\$	4,592
TASK 3 – Evaluation and Data Review	\$	5,340
TASKS 3 & 4 - Evaluation, Analysis, & Reporting		1.983
Total	\$	11,915

CLIENT PROVIDED ITEMS

The Client is to provide the following items prior to initiation of the field evaluation:

- Access to the site.
- Utility clearance.
- As-builts and digital topographic map of the subject site.

Signed authorization.

RDE 2/22/10

29976

This proposal is subject to the terms included in the Avista Contract No. R-T3320. If our proposal is acceptable, you will issue URS a work authorization for this work. Once the agreement is executed, we can begin work.

We appreciate the opportunity to submit this proposal for your consideration and look forward to working with you on this project. Please call me if you have any questions.

Sincerely,

URS CORPORATION

Keith A. O'Connell, PE

Vice President/Project Manager

Proposal 1010

ER No.: 2278

ER Name: Replace Obsolete Reclosers

Pro Forma Amount: \$361,000

Expended to date: \$1,537

2010 Transfer to Plant Date: Periodically throughout 2010

Project Description:

Replacement Programs:

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission and substation air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, replacement of obsolete circuit switchers, substation battery replacement, interchange meter replacements, high voltage fuse upgrades, replacement of fuses with circuit switchers, and voltage regulator replacements. All of these individual projects improve system reliability and customer service. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment. This is an annual System ER as reclosers are replaced over the course of the year on a planned and unplanned basis. Therefore, the completion date for this ER is 12/31/10.

Project	Project Number	\$ Amount
Ford	FOR08A	\$75,000
Long Lake	LL08A	\$50,000
Palouse	PAL08A	\$50,000
Spangle	SPA08A	\$75,000
Other	-	\$111,000
Total	_	361,000

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline

We have projects for planned recloser replacements at Ford, Palouse, Spangle, and Long Lake Substations for 2010. In addition, we will be installing various distribution line reclosers on the system throughout the year. Schedule will be based on crew resource and mobile substation availability.

Additional Information:

• Capital Project Request (CPR) Forms

pg. 3-6

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

				Exhibit 1	No(SJK-4), Sched	ule 22 มรม มห <i>บ 12510 จะ</i> ชุบ
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PROJECT REQUEST FORM

Exhibit No. (SJK-4), Schedule 22

Request Type

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Project Contact Shirley Grant Ext. 4057 APPROVAL SIGNATURE(S) REQUIRED To \$99,999 Director \$100,000 \$499,999 OP or GM Utility \$500,000 \$4,999,999 OFO \$3,009,000 \$4,999,999 OFO \$3,009,000 \$4,999,999 OFO \$3,009,000 \$4,999,999 OFO \$3,009,000 \$4,999,999 OFO Over \$10,000,000 - Board Chair Out of Budget Committee THE BUDGET ITEM SPONSOR IS RESPONSIBLE FOR CLOSING THIS WORK ORDER! IMMEDIATELY UPON COMPLETION OF WORK SIGN THIS FORM COMPLETE AS BUILT INFO AND FORWARD TO PLANT ACCOUNTING. Date Prepared: Date Work Completed Foreman/ Supported:							
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Date Prepared: Date Work Completed Foreman/ Supervisor			-		SIGN THIS FOR	M, COMPLETE AS BUIL	TINFO AND
Foreman/					FORWARD TO	PLANT ACCOUNTING	
Foreman/	Date Prepared:				<u> </u>	leted	1
Supervisor	- Julio 1 10pui 341	1				npieteu	
TOTAL COST OF PROJECT \$50,000 Cupervisor			4=2.000				
	TOTAL COST OF P	ROJECT	\$50,000		1 Capervisor		

AVIST	TA CAPTIE	CAPITAL PRO	JECT REQUE	ST	FORM	Request Type Preliminary	PAL08A
ER 2278	Budget Cat	SERVICE CODE ED		ITLE		Project Grans 28	LOCATION 028
22167	3 /	PROJ	ECT DESCRIPTION (250				. W. 1 . W.
Y.		Palouse 115	kV Substation - Rep	olace	Recloser		12-08
APPROVED BUDGET X		Description Chars Count 44	ORGANIZATION MO8		B/I NUMBER AMS83	WMS (Y OR N) N	RATE JURISDICTION
BILLING		e II	BILLING CONTACT			PROJECT START DATE	06-20-2008
Replace one	recloser at the Pa	alouse 115 kV Substat	IDE PURPOSE AND NECtion. This recloser is anagement budget it	51 y	years old and is t	peing replaced as pa	Long Name Count
CONSTRUCTION				Τ.	Total Construct	fon Cost	\$50,000
	FERC 3XXXXX 300100 / 362000	ESTIMATED AMOUNT BY FERC NUMBER \$10,000	AS BUILT AMOUNT BY FERC NUMBER			QUIRED IZATION	
1011-23/	397000	\$14,000	02805255	co	THIS AFE TOTAL TO DATE BALANCE NOT AP		
			11111111111111111111111111111111111111	05		APPROVALS NATURE	DATE
GROSS ADDITIONS		\$49,000	C CHE	1	W Chores	M. Magnide	6/20/08
T SALVAGE E	362000	(X) \$1,000 /	1.	-	W. Choma / M.		10/20/00
	362000 7	Ψ1,000			R. Vermeers	Rd Venn	6/24/0/
					R. Cloward		
				1	Project Contact	Shirley Grant	Ext. 4057
				1	APPROVAL	SIGNATURE(S) RE	QUIRED
NET SALVAGE		\$1,000			To \$99,999 - Direct \$100,000-\$499,999	or B - VP or GM Utility 99 - Sr Vice President	
				1		,999 President/COO	
Non Standard W	ork Breakdown	Structure needed (O	ptional)		\$5,000,000-\$9,999 Over \$10,000,000 Out-of-Budget - Ca	则等位数的理解的重要。	
				1	FOR CLOSING TH	M SPONSOR IS RESPO	
				1	SIGN THIS FORM.	ON COMPLETION OF W COMPLETE AS BUILT ANT ACCOUNTING.	The state of the s
Date Prepared:]			Date Work Comp	pleted	
. JTAL COST OF PRO	OJECT	\$50,000		1	Foreman/ Supervisor		
1.01/12 0001 01 116				-			

					Exhibit	No(SJK-4), Sched	dule 22
-AVIST	Corp.	CAPITAL PRO	JECT REQUES (CPR)	ST	FORM	Request Type Preliminary	PROJECT SPA08A
ER 2278	Budget Cat	SERVICE COPE ED	Spangle Sub Rep	olac		Project Chais 29	DESCATION 028
	25	PROJ	ECT DESCRIPTION (250 C	CHA	RS)		12-08
		Spangle 115	kV Substation - Repla	ace		/	nii Vi
APPROVED BUDGET X	80	Description Chars Count 45	ORGANIZATION M08		B/I NUMBER AMS83	WMS (Y OR N) N	RATE JURISDICTIO
BILLING			BILLING CONTACT			PROJECT START DAT	04-24-2008
		LONG NAME (INCLU	JDE PURPOSE AND NECE	ESSI	TY - 240 CHARS)	ld and are being real	acod as part of ar
Replace two reclos	sers at the Span	gle 115 kV Substation Asse	. These reclosers are to Management budge	t ite	em.	and are being repr	aceu as part of ar
% c			= = 170 0 1 7		AM Li	1081	
					214,11	Off	Lignij Name Count 163
CONSTRUCTION				7	Total Construc	tion Cost	\$75,000
	FERC	ESTIMATED AMOUNT	AS BUILT AMOUNT		South August Print Designation		
	3XXXXX	BY FERC NUMBER	BY FERC NUMBER		BUDGET AUTHOR	EQUIRED	
3001001	300100	\$10,000 1	02805271W	r l	PREVIOUSLY AP		
1011/02	397000	\$14,000	02805Z74W	9	THIS AFE		
	007000	ψ1.i,000	7		TOTAL TO DATE		
			v ed.		BALANCE NOT A	PPROVED	
			Manget 16th			7,000 0 0	
			Mypail	,		APPROVALS	11 11 11 11 11
			11 3NG			NATURE	DATE
GROSS ADDITIONS		\$74,000 -	, /1		W. Chona / V	n. Magruder	1 31 10
NET SALVAGE BY					W. Choma M.	Magruder	4-21-08
18000001	108000 362 <i>000</i>	\$1,000 -			R. Vermeers 2	Gillbam	4-23-0V
					6	R Cloward	4-25-08
					R. Cloward		<u></u>
					Project Contact	Shirley Grant E	Ext. 4057
						OLONIATURE (C) RE	OUDED
					APPROVAL To \$99,999 - Direc	. SIGNATURE(S) RE	QUIRED
		\$1,000				9 - VP or GM Utility	
NET SALVAGE		\$1,000				99 - Sr Vice President	
					\$2,000,000-\$2,999		
						999 - President/COO	
Non Standard Wo	rk Breakdown	Structure needed (O	ptional)		\$5,000,000-\$9,999	1,999 - CEO	
					Over \$10,000,000		
					Out-of-Budget - Ca	pital Budget Committee	
							portacione de la company
					THE RESIDENCE OF THE PARTY OF T	M SPONSOR IS RESPO HIS WORK ORDER:	NOIPLE:
						ON COMPLETION OF W	IORK
					发现的现在分词是由自由的重要的。	COMPLETE AS BUILT	は無力をはない。例如からは、一般では、一般では、一般である。
					のできることでは、またでは、またいできた。 というでは、これでは、これには、これには、これには、これには、これには、これには、これには、これに	ANT ACCOUNTING.	The state of the s
Date Prepared:					reconcests contess of the San San San San San San San San San San		
		73			Date Work Com	oleted	
		A== 20=			Foreman/		
TAL COST OF PROJ	JECT	\$75,000			Supervisor		

ER No.: 2280

ER Name: Replacement Programs: Replace Obsolete Circuit Switch

Pro Forma Amount: \$215,001

Expended to date: \$45,591

2010 Transfer to Plant Date: Throughout 2010

Project Description:

Replacement Programs:

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission and substation air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, replacement of **obsolete circuit switchers**, substation battery replacement, interchange meter replacements, high voltage fuse upgrades, replacement of fuses with circuit switchers, and voltage regulator replacements. All of these individual projects improve system reliability and customer service. The equipment under these replacement programs are usually not maintained on a set schedule. The equipment is replaced when useful life has been exceeded. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment.

This is an annual System ER for the planned installations and planned/unplanned replacements of 115 kV Circuit Switchers throughout the system. Therefore, this has a completion date of 12/31/10.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

We will be replacing the 115 kV Capacitor Bank Circuit Switcher at North Lewiston 230 kV Substation sometime in Q2 depending on resources. We have also transmitted a project to replace the 115 kV Circuit Switcher at Lee & Reynolds (Othello, WA) which is planned for fall.

Additional Information:

• Cost to 3/15/2010 pg. 3

Capital Project Request (CPR) Forms, including all attachments
 pg. 4-6

Note:	
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During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2280 COSTS THROUGH MARCH 15, 2010

	(3)1 13, 2313		2010
			Transaction Amt
Er Project Number	Project Desc	Expenditure Category	
2280 02805451	Lee Reynolds repl circ swit	AFUDC	76.45
		Contractor	8,903.79
		Labor	2,351.01
		Material	175.95
		Overhead	2,445.47
		Voucher	992.18
	Sum		14,944.85
02805497	Lee Reynolds Repl cir swi comm	AFUDC	35.44
		Contractor	3,000.00
		Labor	355.29
		Material	6,162.83
		Overhead	789.05
	Sum		10,342.61
03805178	N Lewiston Repl Circuit Brkr	AFUDC	1,499.32
		Labor	-
		Overhead	-
		Voucher	18,803.74
	Sum		20,303.06
Sum			45,590.52

	STA	CAPITAL P	ROJECT RE	QUEST FORM	Request Type	Project(s)
	Corp	La de la la la la la la la la la la la la la	-	(CPR)	New	03802178
ER	Budget Category	Service Code	_[(30 Characters)	2 (p 2 m 19 m 1)	
2280	5 Maintenance	ED-Electric Direct	N Lewiston - Repl			10
Long Project Name (lane Obsalete Con Beels Circuit Cod		10	119/00	'Parent' Code
		lace Obsolete Cap Bank Circuit Swi		7		NLW09A
Approved Budget X	Will This Project Include		ER Sponsor M08	Bi Number AMS84	√WMS Job#	Rate Jurisdiction
	Retirement of	Revenue Type			Log	ation AN
Billing	Materials or Equipment?	NA Not Applicable	Billing Contact		038 Project	Idaho Residente Start Date
	Yes /			· · · · · · · · · · · · · · · · · · ·	<u> </u>	·
Project Description (Include Purpose and N	lecessity - 240 Characters)	·			
		Switcher originally installed in 1983 on	the Capacitor Bank I	s wom out and will be replaced.		Profession of temporary process by committees
				•		
				,		
		CONSTRUCTION		Budget Authorized:	_ -	\$100,000
Office Use only	FERC	Estimated Amount	As Built Amount			
Task	3XXXXX	By FERC Number	By FERC Number	Office Use Only		T # AT ASS
700102 (7107363 :	353000	\$20,000 \$75,000		Project Set Up By 5777 Approved By		Date /////
7 (37 300		Ψ10,000		//		CHAILE /// /////
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				· · · · · · · · · · · · · · · · · · ·		
		<u> </u>		APP	ROVALS	_
				SIGNATURE		DATE
GROSS ADDITIONS		\$95,000		Signature July Control	rasin	1-15-09
t of Hemoval	By FERC (3XXXXX) 353000	\$5,000		Paul Mason	-	,
10.500				Simpline	0	
			<u> </u>	Michaelle. Mr.	agusta	1-15-09
				Mike Magruder Signature		
	Total Removal	\$5,000				
Salvage By FERC	(3XXXXX)			Rick Vermeers Out Mun		1-15-09
				Signature		
				Don Kopazynski		
	Total Salvage			Signature		
Fotal Removal Le	ss Salvage	\$5,000+				٠.
	rk Breakdown Stri			L		
eer Task 3 / 4				Project Contact & Extension	Shirley Grant	
						Constant manifestation and the con-
			·	APPROVAL SIGNA To \$99,099 Directory \$1, 144	VIUKE(S) REQUIRE	<u>D</u>
Sub Tasker (*)				COMMON COMMON TO THE PARTY OF T		146
				\$500,000 \$2,999.990 St Vice President/CFO \$1,000,000 \$1,999.999 President/CFO/CO		
				\$3,000,000,59,999,999, President/CEO/COO		
	·			Over \$10,000,000. Board Chains :		
					Commence and Comme	Committee to the second of the Committee of the
				june in der stein der eine gegen der geste gegen der gegen der gegen der gegen der gegen der gegen der gegen d	realité de la constitue de la constitue de la constitue de la constitue de la constitue de la constitue de la c	
Date Prepared:	January 13, 2009			ini da kara ta sa Banda a Sengira da Mala mina kara da mana da mana da Mala mana kara mana da mana da mana da mana da mana da mana da mana da mana da mana da mana da mana da mana da		
OTAL COST OF PROJ	JECT	\$100,000				
·	······································			Date Work Completed		
Q		roject and Fixed Asset Accounting 472 or Howard ext-2936)		Foreman/ Supervisor		
	(One ext-4	The of Horizing Cat-2000)	Į.	0000111001	· 	

Revised Nov. 2001

		v		Exhibit No	(SJK-4), Sch	nedule 23
Carried Annual A		8	*	"/	ST	
	STA.	A construction of the cons	PROJECT REQU		Request Type	Project(s)
1	, Corp.	byse Tab Key		(CPR)	Revised	02:05421
ER //	Budget Category	Service Code		: Title (30 Characters)	Project Title Count	02805457
2280/	5-Maintenance	ED-Electric Direct	Lee & Reynold	s - Replace Circuit Switcher	TIN	'Parent' Code
- roject Nan	ne (100 Characters Le) e & Reynolds 115kV Substation	- Replace leaking A	-681 circuit switcher	1/2016	L&R09B
Approved Budget X	Will This Project	Long Project Name Count 73	ER Sponsor M08	BI Number	WMS Job#	Rate Jurisdiction AN-Allocated North
	Retirement of	Revenue Type			//Loc	
	Materials or	Select	D'II' 011			shington Start Date
Billing	Equipment?/ Yes		Billing Contact			5-2009
This project i	provides for the re-	e and Necessity - 240 Characters placement of the existing Sieme	ns 115kV circuit swit	cher with a new 115kV S&C circui	t switcher. This	Long Name Count
Cicinonia din	elim	inate the outages asssociated w	ith adding SF6 to th	e existing leaking unit.		344
		CONSTRUCTION		Budget Authorized:		\$98,000
Office Use only	FERC	Estimated Amount	As Built Amount			
Task	3XXXXX /	By FERC Number	By FERC Number	Office Use Onl	У	Date
30100	/ 300100 /	\$18,000	/	Project Set Up By	<u> </u>	-
107900-	353000	\$58,000	,	Approved By		
1000281	397000 /	\$10,000				
					PROVALS	DATE
			,	SIGNATURE		DATE
GROSS ADDITI		\$86,000		Signature		
	al By FERC (3XXX		/			
11/00)/	353000	\$10,000		Print Name: S.Wilson		
26D /	397000	\$2,000-		Signature	/ 0	
			3164			
				Print Name: M.Magruder	· · · · · · · · · · · · · · · · · · ·	-
				Signature	THE	
	Total Removal	\$12,000		Bi-t Names B Varman	7.	
Salvage By FEF	RC (3XXXXX)			Print Name: R.Vermeer		
				Signature		
				B. L. N.		
				Print Name Signature		
	Total Salvage	242.000		Signature		
Total Removal	Less Salvage	\$12,000		Print Name		
		Street was Needed (Optional)		Fill Name		
	Vork Breakdown	Structure Needed (Optional)		Project Contact & Extension		
Peer Task				Project Comact & Extension		
				APPROVAL SIGN	NATURE(S) REQU	IRED
				To \$99,999 - Director		Think was
				\$100,000-\$499,999 - VP or GM L	Jtility	and the Market
Sub Task				\$500,000-\$2,999,999 - Sr Vice P		<i>y</i> .
				\$3,000,000-\$9,999,999 - Preside		die
The state of the s				Over \$10,000,000 - Board Chair	建工业税 加加	
1 5 5 5 4 6 7 5 1 5 Rec				Out-of-Budget - Capital Budget C	ommittee	
100 - 20 100				Out of Budget a Suprimi, Budget o		
				THE PROJECT SPONSOR IS RESI	PONSIBLE FOR CLC	SING THIS JOB.
Deta Desa				IMMEDIATELY UPON COMPLETIO		
Date Prepared:]		COMPLETE AS BUILT INFO AND I		
TOTAL COST C	E DDO IECT	\$98,000		Here and the state of the state	7000 0000 0000 0000	
TAL COST C	FROJECT	450,500		Date Work Completed		
	Questions: contact	Project and Fixed Asset Accour	nting	Foreman/		

Supervisor

Questions: contact Project and Fixed Asset Accounting (Sue ext-4472 or Howard ext-2936)

Revised January 2009

	STA.		PROJECT REQU		Request Type	Project(s)
		Use Tab Key		(CPR)	New	09802,221
ER	Budget Category	Service Code		t Title (30 Characters)	Project Title C. int.	
2280	5-Maintenance		Lee & Reynold	is - Replace Circuit Switcher	5245 41 cm	ID
Long Project Nar	me (100 Characters	s) ee & Reynolds 115kV Substation	Denless Isolaina A	CO1 aircuit quitabar		'Parent' Code
	LE	# 15 m	1 - Replace leaking A	-001 Circuit Switcher.		L&R09B
Approved Budget	Will This Project	Long Project Name Count	ER Sponsor	BI Number	WMS Job #	Rate Jurisdiction
X	Include Retirement of	73 Revenue Type	M08 -	AMS84	Loc	AN-Allocated Non
	Materials or	Select		1	028-Wa	shington
Billing	Equipment?		Billing Contact		Project :	Start Date
	Yes /			Cateor, v.	12-1:	5-2009
This project	provides for the re it has been leaking	se and Necessity - 240 Characters placement of the existing Sieme g for a few years and the leak loo ninate the outages asssociated v	ns 115kV circuit swi cation has been und	tcher with a new 115kV S&C circu etectable. Replacement of the circu e existing leaking unit.	uit switcher. This cuit switcher will	Long Name Count
		CONSTRUCTION		Budget Authorized:		\$98,000
Office Use only	FERC	Estimated Amount	As Built Amount			
Task	3XXXXX	By FERC Number	By FERC Number	Office Use On	ly	Date
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	al By FERC (3XXX				1. 1.	110
NGVD/	353000	\$10,000		Print Name: S.Wilson	won	12/8/04
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				m.ma	quale-	12/8/09
				Print Name: M.Magruder	٥	
				Signature	/	
	Total Removal	\$10,000		and	Mhr	12/8/
Salvage By FER				Print Name: R.Vermeers		1 / 9/8
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				Date Work Completed		
Q		Project and Fixed Asset Accoun	ting	Foreman/		
		4472 or Howard ext-2936)		Supervisor		

Revised January 2009

ER No.: 2294

ER Name: Replacement Programs -Batteries

Pro Forma Amount: \$250,001

Expended to date: \$180,856

2010 Transfer to Plant Date: Periodically during 2010

Project Description:

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission and substation air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, replacement of obsolete circuit switchers, **substation battery replacement**, interchange meter replacements, high voltage fuse upgrades, replacement of fuses with circuit switchers, and voltage regulator replacements. All of these individual projects improve system reliability and customer service. The equipment under these replacement programs are usually not maintained on a set schedule. The equipment is replaced when useful life has been exceeded. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment.

The bulk of the substation battery replacement work in 2010 will be at four substations: Lolo, Moscow 230 kV, Otis Orchards, and Burke Substation. In addition, we will also be replacing a smaller battery at Spokane Industrial Park.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

Seven suppliers were queried as part of an RFP for the 125V batteries for Lolo, Moscow 230 kV, Otis Orchards, and Burke Substations. Enersys was chosen to supply these batteries. The batteries (and other accessories, including chargers) have been purchased and received.

Crews are on-site and preparing to install Lolo's battery in March/April. Moscow 230 kV will follow in April. Otis Orchards/Burke will be installed in the May/June timeframe.

The Spokane Industrial Park battery will be energized in March.

Additional Information:

•	Costs	pg. 3-4
•	CPR forms for four projects	pg. 5-8
•	Copies of purchase orders (Confidential)	pg. 9-13
•	Evaluation sheet and quotes from suppliers, detailing total costs from RFP	
	(Confidential)	pg. 14-30

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2294 COSTS THROUGH MARCH 15, 2010

COSTO TIINOGOTIMA	10, 2010		2008 Transaction Amt	2009 Transaction Amt	2010 Transaction Amt
Er Project Number	Project Desc	Expenditure Category			
2294 02805309	South Pullman replace batt	AFUDC	33.07	1,495.84	203.77
		Labor	641.00	4,996.75	-
		Material	103.54	478.10	-
		Overhead	2,098.82	6,543.36	-
		Transportation	-	1,746.80	-
		Voucher	6,834.02	4,669.46	-
	Sum		9,710.45	19,930.31	203.77
02805339	SIP Replace Batt and charger	AFUDC	-	21.89	6.14
		Labor	-	99.33	-
		Overhead	-	141.87	-
		Voucher	-	183.53	-
	Sum			446.62	6.14
02805344	OTI Replace Batt and charger	AFUDC	-	3.11	-
		Labor	-	69.80	1,094.00
		Material	-	-	150.57
		Overhead	-	6,168.20	1,602.18
		Voucher	-	17,730.87	2,249.55
	Sum			23,971.98	5,096.30
03805152	Lolo Replace Batt and chrgr	AFUDC	-	209.94	428.89
		Employee Expenses	-	-	338.67
		Labor	-	2,675.01	1,664.58
		Material	-	103.54	354.57
		Overhead	-	7,293.53	2,342.99
		Transportation	-	115.50	-
		Voucher	-	17,730.87	2,356.94
	Sum			28,128.39	7,486.64
03805156	Burke replace batt and charg	AFUDC	-	2,018.39	722.10
	,	Labor	-	11,370.03	19.23
		Material	-	153.19	150.57
		Overhead	-	19,207.91	960.01
		Voucher		18,665.33	2,676.68
	Sum			51,414.85	4,528.59
03805183	M23 Replace Batt and charger	AFUDC	-	132.75	374.71

AVISTA UTILITIES ER 2294 COSTS THROUGH MARCH 15, 2010

		,		2008 Transaction Amt	2009 Transaction Amt	2010 Transaction Amt
Er	Project Number	Project Desc	Expenditure Category			
	-	-	Labor	-	1,644.50	208.84
			Material	-	-	150.57
			Overhead	-	6,437.70	774.66
			Voucher	-	18,268.17	1,940.03
		Sum			26,483.12	3,448.81
	Sum			9.710.45	150.375.27	20.770.25

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ER	Budget Category			t Title (30 Characters)	/		
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Billing	Equipment?		Billing Contact			Projec	t Start Date
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		battery and charger for Spokar		5 kV Substation. The old	battery 8	charger have	
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		Otis Orchards 115 kV Subs	tation - Replace Bat	ttery & Charger	1/19/09	OT109B
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Purchase & ins	stall new 125V batte	ery & charger for Otis Orchards	115 kV Substation.	The old battery & charger hav	e reached end-of-life.	
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		PROJ	JECT DESCRIPTION (250 C	CHARS)	44	Juliod.
		Lolo 230 kV Substat	ion - Replace 125 VDC	Battery and Charg	er g	129/049
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CONFIDENTIAL per WAC 480-07-160

COPIES OF PURCHASE ORDERS Pgs. 9 - 13

EVALUATION SHEET AND QUOTES FROM SUPPLIERS Pgs. 14 - 30

ER No.: 2425

ER Name: High Voltage Fuse Upgrades

Pro Forma Amount: \$225,000

Expended to date: \$0

2010 Transfer to Plant Date: August 2010 (\$125,000) and September 2010 (\$100,000)

Project Description:

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, <u>replacement of obsolete circuit switchers</u>, substation battery replacement, interchange meter replacements, **high voltage fuse upgrades**, replacement of fuses with circuit switchers, and voltage regulator replacements. All of these individual projects improve system reliability and customer service. The equipment under these replacement programs is usually not maintained on a set schedule. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment.

This is an annual System ER for replacement and upgrades of High Voltage Fuses throughout Avista's system territory. Therefore, this project completion is 12/31/2010.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

We have two projects that we will complete in 2010. We will replace the High Voltage Fuses at both Palouse and Spangle Substations. The timeline/completion of these two projects will depend on crew resource and mobile substation availability. We expect to be completed with these upgrades by the end of the year, 12/31/2010.

Additional Information:

Budget Entry Form

pg. 3-5

During the course of Avista's pending general rate case, updated information will be available for audit.

Save

Budget Line Entry - Capital Projects

						,
ER	2425		ER Title	System - High Voltage Fuse Upgrades	ER Description	Upgrade high voltage transformer fuses to
ВІ	AMS80		BI Title	System - High Voltage Fuse Upgrades	BI Description	A number of substations must have the high
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CIAC		\$0	Retirements	\$0		
AFUDC	N					

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M08	WE	ENGR - Substation	\$401	20	Approved	\$8,020	\$13,242
A08	WE	ENGR - Protection	\$368	10	Approved	\$3,680	\$6,076
N08	WE	ENGR - Drafting	\$200	2	Approved	\$400	\$660
M07	WE	CNST - Structural Crew	\$292	10	Approved	\$2,920	\$4,821
X08	WE	CNST - Relay Crew	\$301	25	Approved	\$7,525	\$12,425
F08	WE	CNST - Electric Crew	\$292	120	Approved	\$35,040	\$57,855
				Labor Sub	total	\$57,585	\$95,079
	Transportation % (Up to 2 decimals) 5		Transport	ation Load	\$2,879	\$4,753	
				Labor Tota	al	\$60,464	\$99,832
				Approved Requests	Labor	\$57,585	\$95,079
				Pending La Requests	abor	\$0	\$0
				Denied La	bor Requests	\$0	\$0

		OTHER EX	(PENSES	
Org	Exp Type	Load Factor Unio	oaded Amount Loa	aded Amount
F08	EE	0%	\$15,035	\$15,035

Page 2 of 2

M08	MT	7%	\$56,929	\$60,914
		Subtotal	\$71.964	\$75,949

TOTAL LABOR	AND OTHER EXPENSES	
	Unloaded Amount	Loaded Amount
Subtotal	\$132,428	\$175,781
Job Type Overheads		\$49,218
Total Labor and Other Expenses		\$225,000

This may not be the ER total. Click on Next to calculate AFUDC and determine monthly spreads.

	Capital Proj	ects		***************************************	***************************************									Print
YEAR 201	0													
ER 242	5 1	ER Title	Sys	stem - High	Voltage Fus	se Upgrades	5							
BI AMS	S80 I	BI Title	Sys	stem - High	Voltage Fus	se Upgrade:	5							
	10,000					7								
BI End Date (MM/Y	Manual	***************************************	V	Set BI Er		J								
ead Method		***************************************	Y C			May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Reconc
ead Method	Manual			Apply Spi	read	May \$0	Jun \$0	Jul \$0	Aug \$125,000	Sep \$100,000	Oct \$0	Nov \$0	Dec \$0	
ead Method Iross Additions *	Manual Budget Total	Jan	Feb	Apply Spi	read Apr									\$
ead Method iross Additions * FUDC	Manual Budget Total \$225,000	Jan \$0	Feb \$0	Apply Spo Mar \$0	Apr \$0	\$0	\$0	\$0	\$125,000	\$100,000	\$0	\$0	\$0	\$
ead Method Gross Additions * IFUDC IAC *	Manual Budget Total \$225,000 \$0	Jan \$0 \$0	Feb \$0 \$0	Apply Spo Mar \$0 \$0	Apr \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$125,000 \$0	\$100,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	4
ead Method iross Additions * IFUDC IAC * otal Gross Adds	Manual Budget Total \$225,000 \$0 \$0	Jan \$0 \$0 \$0	Feb \$0 \$0 \$0 \$0	Mar \$0 \$0 \$0	Apr \$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$125,000 \$0 \$0	\$100,000 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$ \$ \$
ead Method Gross Additions * IFUDC ITAC * Total Gross Adds temoval *	Manual Budget Total \$225,000 \$0 \$225,000	Jan \$0 \$0 \$0 \$0	Feb \$0 \$0 \$0 \$0	Mar \$0 \$0 \$0 \$0 \$0	### ### ### ### #### #################	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$125,000 \$0 \$0 \$125,000	\$100,000 \$0 \$0 \$100,000	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$ \$ \$ \$
ead Method Gross Additions * FUDC GIAC * Total Gross Adds Gemoval * Galvage *	Manual Budget Total \$225,000 \$0 \$0 \$225,000 \$0	Jan \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	Mar \$0 \$0 \$0 \$0 \$0 \$0 \$0	Apr \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$125,000 \$0 \$0 \$0 \$125,000 \$0	\$100,000 \$0 \$0 \$0 \$100,000 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ \$
ead Method Gross Additions * GFUDC GTAC * Total Gross Adds Gemoval * Galvage * Total Const Costs	Manual Budget Total \$225,000 \$0 \$0 \$225,000 \$0 \$225,000 \$0 \$0	Jan \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	Mar \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Apr \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$125,000 \$0 \$0 \$125,000 \$0 \$0	\$100,000 \$0 \$0 \$100,000 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ \$
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ER No.: 2449

ER Name: Replace Substation Air Switches

Pro Forma Amount: \$165,000

Expended to date: \$97,494

2010 Transfer to Plant Date: Throughout 2010

Project Description:

Replacement Programs:

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission and substation air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, replacement of obsolete circuit switchers, substation battery replacement, interchange meter replacements, high voltage fuse upgrades, <u>substation air switch replacements</u>, replacement of fuses with circuit switchers, and voltage regulator replacements. All of these individual projects improve system reliability and customer service. The equipment under these replacement programs are usually not maintained on a set schedule. The equipment is replaced when useful life has been exceeded. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

This annual System ER includes planned and unplanned Substation Air Switch Replacements over the course of every year. Replacements occur upon receipt of new Air Switches (if not already in stock) and the scheduling of both Electric Shop crew resource availability and line or bus outage windows.

Additional Information:

•	Cost	pg. 3-4
•	Capital Project Request (CPR) Forms	pg. 5-7
•	Substation Infrared Inspection and Substation Design correspondence	pg. 8-9

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2449 COSTS TRHOUGH MARCH 15, 2010

				2008	2009	2010
E. Bartari Namelan	Day to at Days	5	Forman Plant Torre	Transaction Amt	Transaction Amt	Transaction Amt
Er Project Number	-	Expenditure Category	• • • • • • • • • • • • • • • • • • • •	450.54	045.40	400.50
2449 03805128	Ben Replace 115kv Switches	AFUDC	535 AFUDC - Debt	158.54	615.16	130.58
		Labar	540 AFUDC - Equity	194.70	758.92	167.01
		Labor	340 Regular Payroll - NU	2,692.20	1,372.88	
			345 Regular Payroll - Union	-	179.20	
		Material	405 Inventory Returns	-	(739.81)	
			415 Material Issues	-	1,022.03	
			420 Salvage	-	(8,945.08)	(516.93)
		Overhead	505 Capital Overhead - A & G	20.59	14.81	0.15
			506 Cap Overhead - Functional	934.17	469.49	5.11
			510 Payroll Benefits loading	1,171.75	952.79	
			515 Payroll Tax loading	229.93	135.81	
			520 Payroll Time Off loading	467.29	271.62	
			525 Small Tools loading	-	8.96	-
			530 Stores/Material Loading	675.40	133.60	1.16
			532 Materials Tax/Fght Loading	-	2.82	-
		Transportation	560 Road Vehicles	-	717.00	4,224.00
			565 Small Vehicles	-	-	568.20
			570 Work Vehicles	-	2,121.50	-
		Voucher	880 Materials & Equipment	8,679.65	1,624.50	19.28
	Sum		• •	6,544.57	(908.30)	4,579.28
03805172	NLW R 413 AIR SW UPGRD	AFUDC	535 AFUDC - Debt	-	2,089.00	-
			540 AFUDC - Equity	-	2,577.15	-
		Employee Expenses	215 Employee Business Meals	-	1,388.48	-
			220 Employee Car Rental	-	16.41	-
			230 Employee Lodging	-	2,395.84	-
		Labor	325 Overtime Pay - Union	-	753.56	-
			340 Regular Payroll - NU	-	3,650.91	
			345 Regular Payroll - Union	_	15,358.09	
		Material	405 Inventory Returns	-	(74.05)	
		Overhead	505 Capital Overhead - A & G	_	254.66	
			506 Cap Overhead - Functional	_	10,717.42	
			508 Cap Overhd - Safety Clthng	-	8.54	
			510 Payroll Benefits loading	-	10,660.75	
			515 Payroll Tax loading	-	1,729.26	
			520 Payroll Time Off loading	-	3,141.45	
			525 Small Tools loading	_	1,066.94	
			530 Stores/Material Loading	_	2,348.89	
			532 Materials Tax/Fght Loading	_	(1.49)	
		Transportation	560 Road Vehicles	_	1,140.00	
		Παποροπατίοπ	565 Small Vehicles	_	1,014.30	
			JUJ JIIIAII VEIIIUES	-	1,014.30	-

AVISTA UTILITIES ER 2449 COSTS TRHOUGH MARCH 15, 2010

					2008 Transaction Amt	2009 Transaction Amt	2010 Transaction Amt
Er	Project Number	Project Desc	Expenditure Category	Expenditure Type			
				570 Work Vehicles	-	675.00	-
			Vehicle	710 Rental Expense - Vehicle	-	47.40	-
			Voucher	880 Materials & Equipment	-	20,280.65	(36.00)
		Sum			-	81,239.16	(36.00)
	03805212	Rathdrum 115kv A502 Sw rep	AFUDC	535 AFUDC - Debt	-	1.84	7.28
				540 AFUDC - Equity	-	2.27	9.30
			Labor	325 Overtime Pay - Union	-	418.33	-
				345 Regular Payroll - Union	-	1,207.80	-
			Overhead	505 Capital Overhead - A & G	-	7.16	-
				506 Cap Overhead - Functional	-	238.98	-
				510 Payroll Benefits loading	-	700.53	-
				515 Payroll Tax loading	-	142.28	-
				520 Payroll Time Off loading	-	211.36	-
				525 Small Tools loading	-	90.59	-
		Sum				3,021.14	16.58
	Sum					6,042.28	33.16
Total					6,544.57	86,373.14	4,576.44
					Costs Through Marc	ch 15, 2010	97,494.15

	STA. Corp.	CAI Use Tab Key	PITAL PROJECT F	REQUEST FORM (CFR)	Request Type New	Project(s)
ER /	Budget Category	Service Code	i	Project Title (30 Characters)	Project Title Count	C/00/0-3-2 / 3
2449	5-Maintenance	ED-Electric Direct	1	ncis&Cedar-Inst Vac Bottles	30	
	ne (100 Characters		I Fiai	(CISACEGAI-INST VAC DOTTIES	La Strug	Parent Code
Franc	is and Cedar: Inst	all vacuum bottles on the 13 kV	transformer discont	nect switches and install surge protection on	13 kV bus tie cables.	F&C10A
Approved Budget	Will This Project	Long Project Name Count	ER Sponsor M08	Bl Number AMS85	WM\$ Job# /	Rate Jurisdictio WA-Washington
Yes	include Retirement of	141 Revenue Type	IVIVO	AMOOD	Location	
	Materials or	NA- Not Applicable			028-Washing	
Billing	Equipment?		Billing Co	ntact	Project Start	Date
	No /				03-11-201	10
		e and Necessity - 240 Character ded to simplify switching proces		o isolate the transformers. The existing disc		Long Name Count
switching of a		the arcing homs was burnt who	en remaking parallel	former magnetizing current using non-vacuu through existing non-vacuum bottle disconn second end of UG bus tle cables.		503
		CONSTRUCTION	odd to be meteried on	Budget Authorized:		300.98
Office Use only	FERC	Estimated Amount	As Built Amount	T T T G T T T T T T T T T T T T T T T	<u> </u>	00,000
Task	3XXXXX	By FERC Number	By FERC Number	Office Use O	rahr.	Date
300/00	300100	\$1,000	DY LEKO MUINDEL		,	Date
107/14	362000			Project Set Up By		1 2/11/10
10/11+2	362000 /	\$8,000		Approved By		3/16/10
					1	<u> </u>
		1				
				·	PPROVALS	T
	22.72		/	SIGNATUR	<u> </u>	DATE
GROSS ADDIT	<u> </u>	\$9,000]	Signature /	į	3/15/15
Cost of Remov	al By FERC (3XX)	XXX)		N. 42 242	_	3/15/10
				Print Name Daniel R. Whicker		
				Signature Whicher Ca. N	. 0	3/15/10
				Muchant Cr. 19	Tagan Non	3/13/10
			j .	Print Name Michael Magruder		ļ
				Signature	İ	
	Total Removal				į	
Şalvage By F£l	RC (3XXXXX)			Print Name	j	
		•	, ,	Signature		
				Print Name		
	Total Salvage			Signature		
Total Removal	Less Salvage		,			1
				Print Name		1
Non Standard	Vork Breakdown	Structure Needed (Optional)				
Pegr Task				Project Contact & Extension Dan Which	ter Ext 2439	
				APPROVAL SIG	NATURE(S) REQUIRED	
				Ta \$99,999 - Director		
Sub Task				\$100,000-\$499,999 - VP or GM Utility	į	
				\$500,000-\$2,999,999 - Sr Vice President/C	FO	
				\$3,000,000-\$9,999,999 - President/CEO/C		
				Over \$10,000,000 - Board Chair		
				Out-of-Budget - Capital Budget Committee		
				1		
Date Prepared:	03-11-10			THE PROJECT SPONSOR IS RESPONSIBLE FOR	CLOSING THIS IOD	
	VO-11410	ı		<u> </u>		
TOTAL COST OF PROJECT \$9,000				IMMEDIATELY UPON COMPLETION OF WORK, SIGN THIS FORM,		
TOTAL GOST C	AT PROJECT	\$9,000		COMPLETE AS BUILT INFO AND FORWARD TO	UTILITY ACCOUNTING.	
,	Questions: contact	Project and Fixed Asset Accou	ntina	Date Work Completed		······································
,		4472 or Howard ext-2936)	ining.	Date Work Completed Foremen/		
	(AMO DA)	at Horato onezoooy		Supervisor		

-8

	57A	CAPITAL	PROJECT REQU		Request Type	Project(s)
	Corp.	الأردين المرواح علقان وتعلق	(CPR)			<u>() 28055/7</u>
ER	Budget Category	Sérvice Code	Project	Title (30 Characters)	Tiranjesk sille Stedak	
2449	54/Amberiance	ED ENECTIC DITEST	Warden -	2010 Switch Upgrade		Parent Code
ong Project Na	ne (100 Characters)			. Janet	Let ut a	۲.
		Warden 115 kV - Re	eplace A-253 Line St	witch.	3/10/20	WAR10A
			- FD C	Bl Number /	WMS Job #	Rate suristiction
Approved Budget	Will This Project	Sing Project Name Count	ER Sponsor M08	AMS85	No /	4N-Allocated North
x	Retirement of	Revenue Type			Loc	
	Materials or 🗸	NA NOT Applicable			Droiect.	Start Date
Billing	Equipment?		Billing Contact			/2010
	ves /es	<u> </u>				
Project Descript This project cov	ion (Include Purpos vers the replacmen	e and Necessity - 240 Characters t of the A-253 line switch (115 k\ ls not i	i) / Lind Line). The exi πaintainable.		he infared survey and	183
		CONSTRUCTION		Budget Authorized:		\$26,500
Office Use only	FERG	Estimated Amount	As Built Amount			
Task	3XXXXXX	By FERC Number	By FERC Number	Office Use 0	Only	Date
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16730>	353000	\$25,000		Approved By		3/10/10
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	353000	\$500		Rob Selby Total Signature Wicharl C	reg	3/11/10
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	self					T
	Total Removal	\$500				2/10/
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	Total Salvage	\$500		T-3		
Total Remova	il Less Salvage					
Non-Chandard	1 Mark Braskdovsk	Structure Needed (Optional)				
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Sub Task					ce President/CEO	Nagyan alaka
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			 	Over \$10,000,000 - Boattl Cl		
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Date Prepare	d: 03/09/10	_			ing to produce the second transfer of the sec	<u>ปราช 4 เกลโซโ และกามี 2</u>
		\$26,500	· · · · · · · · · · · · · · · · · · ·			والمرابع المرابع والمرابع المستراه والمستوان والمستود والمستود والمستود والمستود
TOTAL COST	OF PROJECT	\$26,500	<u> </u>	Date Work Completed	<u></u>	11-1
	O	at Brainst and Ewad Assat Assat	untina	Foreman/		
	Questions: conta	ct Project and Fixed Asset Accor xt-4472 or Howard ext-2936)	onang	Supervisor		
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	STA Corp	Libratian Kan	PROJECT REQU	JEST FORM (CPR)	Request Type	Project(s)
ER	Budget Category	Service Code		ct Title (30 Characters)	Parish Tirk Salik	<u> </u>
2449	5-Maintenance ne (100 Character		Rathdrum	n - 2010 Switch Upgrade	hurida kai Obarai ira	
Cong Project Na	me (100 Character	Rathdrum 230 kV - Rep	olace 115 kV A-501 i	line switch.	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Parent Cede RAT10A
Approved Budget X	Will This Project Include	litary: Project Mains Obliga 51	ER Sponsor M08	Bl Number AMS85	WMS Job#	Rate Jurisdiction
	Retirement of	Revenue Type	1000 /	MINIOGO *	No Mo	AN Allocated Nort ation
Billing	Materials or Equipment?	NA-Not Applicable	Billing Contact		A30 + 1088	Jaano Janes Villa
	Yes		Binnig Contact	<u> </u>		Start Date 5/2010
Project Descripti This project cov	on (include Purpo ers the replaceme	se and Necessity - 240 Characters ent of the A-501 line switch (115 i and is no	s) kV Boulder Line). Th ot maintainable.	e existing switch has a hot spot o	n the infared survey	
		CONSTRUCTION		Budget Authorized:		\$26,500
Office Use only	FERC	Estimated Amount	As Built Amount			
Task	3XXXXX	By FERC Number	By FERC Number	19 19 19 19 19 19 19 19 19 19 19 19 19 1	ly in the second	Date
30×00 *	300100	\$1,000		Project Set Up By		10,000
_/ <u>८७३</u> % ∠	353000	\$25,000		Approved By	. No. 30, 45	3/16/10
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	,				3030	Bridge St.
k Barkozala z				AP	PROVALS	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				SIGNATURE		DATE
GROSS ADDITI		\$26,000~		Signature		
	By FERC (3XX)				_	
_ G0082 <u>~</u>	353000	\$500	1000	Rob Selby 1600 Co. Men	7	3/11/10
ari z Ze O≥Us tes	"			Rob Selby Tiger G. There Signature Michael A. Magruder	0	3/11/10
				Michael A Manada	d'anne	37.17.12
A 80	 -			Signature		
i kala	Total Removal	\$500	• 111 • 1	Signature 24 M		3/11/12
Salvage By FER	C (3XXXXX)			Rick Vermeers		3/1/ //3
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2001 Jan 1980 Jan 198	Total Saturage					
Total Removal I	Total Salvage	\$500 ,		Signature		
. ********	ess Jaivage	\$500		Į		
Non Standard V	ork Breakdown	Structure Needed (Optional)			"	
Peer Task		<u> </u>		Project Contact & Extension	Shirley Grant x	4057
				-		7001
				APPROVAL SIGI	YATURE(S) REQUI	RED (
Sub Task	· .			To \$99,999 - Director		
SUD ISSK	 			\$100,000-\$499,999 - VP 61 GM (医癫痫 新乳腺
BEG				\$500,000-\$2,999,999 - St Vice P		
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and the state of t				various paddet.	ommittee	
Xin Yu Phathage						
Date Prepared:	03/09/10			PRE PROPERTY SESTIVER IS RESI BALLED ATTELY SESTIVE SCAFFETY O COMPOSITE AS EAST THAT SAND		Pale Lecteral
PATAL ARATA	BB 0			Comfuere as electricas anio		ni adageinide d
TOTAL COST OF	PROJECT	\$26,500				
0	uestions: contact	Project and Fixed Asset Account	ina.	Date Work Completed		
•	(Sue ext-	4472 or Howard ext-2936)	_	Foreman/ Supervisor		
			L	aupul visçi		1



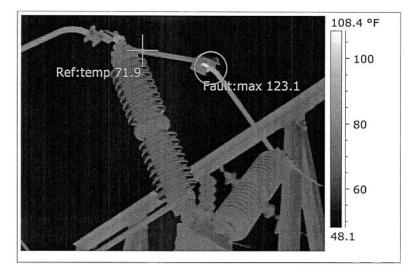
Substation Infrared Inspection

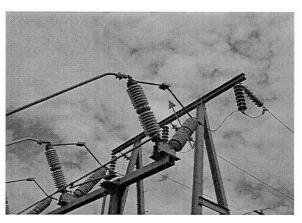
Exhibit No.____(SJK-4), Schedule 26

6/19/2009

WARDEN 115KV A-253 LINE DISC SWITCH

Circuit	Fault	Phase Amps	Delta	Recommendation
A-253 LIND LINE	CONTACT	185	51	SCHEDULE





Atmospheric Temperature	65.2 °F
Object Distance	21.0 ft
Ref Temperature	71.9 °F
Fault Max. Temperature	123.1 °F

Phase	EAST
Fault	CONTACT
Photo Direction	NW
Wind Speed	8 MPH

Identification:		Comment:
Delta:	51	Contact should be replaced. Hinge is showing
A Phase Amps:	180	a slight amount of heating and should be
B Phase Amps:	185	replaced also.
C Phase Amps:	185	
Current Rating:	1200	
Manufacturer:	MORGAN	

Inspected by: Syd Wade

Repaired by: Comments:

Date:

Selby, Rob

From:

Koeff, Sara B

Sent:

Friday, March 05, 2010 3:15 PM

To:

Selby, Rob

Subject:

RE: Rathdrum Switch Replacements / Infrared

Rob,

I spoke with Syd Wade this afternoon and he recently was out at Rathdrum doing a quick IR to see how things are looking that have been fixed. Here is what he suggested. The A-500 switch was fixed recently during the bus shutdown, so that one no longer needs to be replaced. A-501 Line side was identified in 2008 and also when Syd went out and looked recently so this one we would like to see replaced. As for the other switch hot spots at Rathdrum I think we can wait on those. However, the R-403 CCVT should be changed out if possible.

The other switch that we would like to see replaced this year is the Warden A-253 line switch.

I hope this answers all your questions. If not please let me know. And thank you for checking with me.

Sara

From: Selby, Rob

Sent: Thursday, March 04, 2010 9:14 AM

To: Koeff, Sara B

Subject: Rathdrum Switch Replacements / Infrared

Hey Sara,

I was going to open a new CPR for the air switch replacements for Rathdrum sub. The switch list I have has the A-501 Line side switch listed, but I can't find an associated infrared report. Does it need to be changed or is that a typo? It looks like the A-503, A-505, and A-506 switches have hot spots.

I also noticed that Syd had a shot of the R-403 CCVT which looks like it has an internal hot spot. Should we be working on changing it out?

Rob Selby Substation Design **Avista Utilities** (509) 495 2560

ER No.: 2482

ER Name: Replacement Programs: SIP Sub Replace HP fuses with Circuit Switcher

Pro Forma Amount: \$285,000

Expended to date: \$156,832

2010 Transfer to Plant Date: November 2010

Project Description:

Replacement Programs (\$2.044 million):

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission and substation air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, replacement of obsolete circuit switchers, substation battery replacement, interchange meter replacements, high voltage fuse upgrades, replacement of fuses with circuit switchers, and voltage regulator replacements. All of these individual projects improve system reliability and customer service. The equipment under these replacement programs are usually not maintained on a set schedule. The equipment is replaced when useful life has been exceeded. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

Project should be completed by November 2010. All materials were ordered in 2009 and have been received as of 1/13/2010. Construction should begin Summer 2010 with completion by November 2010 Project construction must be coordinated with large industrial customer's operating schedule

Additional Information:

ER Cost Detail
 pg. 3

Capital Project Request (CPR) Forms, including all attachments
 pg. 4

Scoping Document pg. 5-6
 Copies of Purchase Orders (Confidential) pg. 7-10

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILITIES ER 2482 COSTS THROUGH MARCH 15, 2010

				2009 Transaction Amt	2010 Transaction Amt
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2482 02805336	SIP Repl HV fuses w cir swit	AFUDC	535 AFUDC - Debt	2,175.10	903.61
			540 AFUDC - Equity	2,683.44	1,155.73
		Labor	320 Overtime Pay - NU	804.78	-
			340 Regular Payroll - NU	13,962.47	-
			345 Regular Payroll - Union	307.91	-
		Material	415 Material Issues	9,329.29	-
		Overhead	505 Capital Overhead - A & G	409.35	119.43
			506 Cap Overhead - Functional	16,363.73	3,978.87
			510 Payroll Benefits loading	8,370.28	-
			515 Payroll Tax loading	1,319.06	-
			520 Payroll Time Off loading	2,473.44	-
			525 Small Tools loading	15.40	-
			530 Stores/Material Loading	7,516.12	1,030.06
			532 Materials Tax/Fght Loading	93.29	-
		Vehicle	710 Rental Expense - Vehicle	49.71	-
		Voucher	880 Materials & Equipment	68,885.61	14,885.38
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Interoffice Memorandum Engineering & System Operations Substation Design

DATE:

July 21, 2009

TO:

Distribution

FROM:

Paul Mason

SUBJECT:

Spokane Industrial Park 115 kV Substation

Replace 115 kV Fuses on Transf. # 3 (Steel Foundry) w/ Circuit Switcher

Scoping Meeting

The purpose of this meeting is to discuss the work for adding the new Circuit Switcher at the Spokane Industrial Park Substation.

Distribution:

Mike Magruder	Randy Pierce	Garth Brandon	Rich Hydzik
Andy Vickers	Jeff Marsh	Pat Clevenger	Joe Braebeck
Greg Lancaster	Randy Spacek	Line Crew Supv.	

Meeting Info:

Date:

July 21, 2009

Time:

10:30 - 11:30 AM

Location:

Avista HQ, CR-140 (HP&C Conference Room)

If you are unable to attend, please provide any comments before the meeting.

Overview:

The 115 kV G.E. Type EG-1 Fuses protecting Transformer #3 at the S.I.P. Substation are over rated by 1527% and will be replaced with a new 115 kV S&C Model 2010 Circuit Switcher. Because of the nature of the load served (Steel Foundry Arc Furnaces), the Mobile Substation cannot be used to serve the load during construction.

The Spokane Steel Foundry currently runs the arc furnaces Monday thru Thursday. Thursday night thru Sunday night (would be the only opportunity to have Transformer # 3 & associated 115 kV & 13 kV out of service.

Scope:

Removal / New Construction - 1st Planned Shutdown

Transformer #3 OOS, A-362 & 12F1 VCB Open

Friday thru Sunday, must be returned to service by Monday

- Remove existing wooden Fuse Platform and associated wooden ladder.
- Install two new poles and new circuit switcher support timbers on 115 kV Structure.
- Install new Circuit Switcher interconnecting steel, motor operator and control piping. (Circuit Switcher single pole assemblies installed during final planned shutdown)

New Construction after 1st Planned Shutdown

- Install new circuit switcher motor operator support foundation and steel.
- Cut-in and Install new egress door in south wall of Panel House.
- Assemble, wire & test new control Panel # 4 in the Electric Shop/Relay Shop (new Transformer #3 Relaying & existing U.F. Load Shedding).
- Install new substation grounding associated with new Circuit Switcher.
- Trench in new control cables to Circuit Switcher Motor Operator, Transformer # 3 and 13 kV Bus #3 PTs.
- Remove existing Panel # 4, install & wire new Panel # 4 in panel house.
- Relocate existing SEL-2030 onto Panel # 2.
- Wire new SCADA circuits.
- Wire new Circuit Switcher Motor Operator and test operation.
- Testing & Relay Settings

New Construction – Final Planned Shutdown

Transformer #3 OOS, A-362 & 12F1 VCB Open

Friday thru Sunday, must be returned to service by Monday

- Remove existing 115 kV Air Switch A-362 (115 kV jumpers removed hot).
- Remove existing 115 kV Fuses.
- · Remove existing obsolete poles and associated timbers.
- Relocate 115 kV Spill Gaps.
- Install new Circuit Switcher single pole assemblies.
- Install conductor & 115 kV jumpers (hot tap).
- Install jumpers to Spill Gaps (hot tap).
- Install and wire new external bushing CTs on Transformer # 3.
- In-Service Testing & SCADA checkout.

Planned In-Service Date

September 2009

Design Work

Substation Design - Paul Mason

Major Equipment

Substation Circuit Switcher:

S&C Type 2010 (delivered June 09)

Transformer External Bushing Current Transformers;

Kuhlman 1200-5A multi ratio

13 kV Bus # 3 PT

G.E. Type JVW-5, 15kV, 70:1 Ratio

CONFIDENTIAL per WAC 480-07-160

COPIES OF PURCHASE ORDERS Pg.7 - 10

ER No.: 2493

ER Name: Replacement Program: Voltage Regulators

Pro Forma Amount: \$100,001

Expended to date: \$216,576 worth of regulators is on order, but has not been received or

invoiced as of yet

2010 Transfer to Plant Date: Periodically during 2010

Project Description:

Replacement Programs (\$2.044 million):

Avista has several different equipment replacement programs to improve reliability by replacing aged equipment that is beyond its useful life. These programs include transmission and substation air switch upgrades, arrestor upgrades, restoration of substation rock and fencing, recloser replacements, replacement of obsolete circuit switchers, substation battery replacement, interchange meter replacements, high voltage fuse upgrades, replacement of fuses with circuit switchers, and **voltage regulator replacements**. All of these individual projects improve system reliability and customer service. The equipment under these replacement programs are usually not maintained on a set schedule. The equipment is replaced when useful life has been exceeded. Maintenance is not conducted on this equipment on an annual basis. The equipment did not fail during the test period and there was no specific identifiable maintenance on this equipment during the test period. Therefore there are no specific O&M offsets related to this investment. This work will be completed in the second and third guarters of 2010.

Please note that we are doing about four times as many regulator replacements as our annual budgeted block estimate is meant to take into account. All replacements are justifiable based on regulator condition, age, PCB content, historical operations, hot-spot surveys, known failed components, etc.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

An RFP (36500) was issued in late December 2009 for the 18 single-phase step-voltage regulators required for the six feeder regulator replacements noted in the attached CPR forms. Cooper was awarded the RFP based on cost and quality of product. PO 73913 was issued on 1/19/2010. Delivery is expected in early May. These regulators will be installed throughout the months of June, July, and August.

Additional Information:

•	Capital Project Request (CPR) Form attached	pg. 4-8
•	Purchase Order Number 73913 (Confidential)	pg. 9

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

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		ED-Electric Direct	C&W - Upg	rade 12F1,3,4 Regulators /	33.00	
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CONFIDENTIAL per WAC 480-07-160

PURCHASE ORDER NUMBER 73913 Pg. 8

ER No.: 2397

ER Name: System-Install Metering Ancillary Services

Pro Forma Amount: \$125,000

Expended to date: \$1,067 as of 3/15/2010

2010 Transfer to Plant Date:

February 2010: \$60,000

November 2010: \$65,000

Project Description:

This project is to upgrade the metering at the Mead 115kV substation to move Avista loads into Avista balancing area. In accordance with the agreement contract (o7TX-12603), we are obligated to upgrade metering at Mead to meet with Avista's and BPA's specification. The next substation we intend to complete is Noxon 230-13 kV Substation in the fall.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

Expected timeline is summer and fall as resources become available. The Mead project will be transmitted late spring.

Attachment Index:

• Capital Project Request (CPR) Form pg. 2

• BPA Agreement pg. 3-8

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

1"	^ .ل.) ·			SJK-4	Schedule 29
AWIS		CAPITAL PRO	JECT REQUE	ST FORM	Request Type	PROJECT
	Corp.	7	(CPR)		Preliminary	<u>(MEA07)</u>
ER	Budget Cat	SERVICE CODE		TITLE (30 CHARS)	Project Chars	VOCATION
_ 2397	35	1 ED 🗸		rade Metering //	28	028
		PROJ	JECT DESCRIPTION (250	CHARS)		July 27
	Upgrade the me	etering at the Mead 11	5kV Substation to m	ove AVA loads into A	VA balancing area.	Marila
					•	343
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				Project Contact	Michael Busby	
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BPA F 4220.31e (05-97)

U.S. DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION

Electronic Version
Approved by CGIR - 05/28/97

AGREEMENT

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1. AGREEMENT NUMBER	2. AGREEMENT EFFECTIVE FROM DATE IN BLOCK 4 UNTIL	3. MOD	FICATION NO.	4. EFFECTIVE DATE	5. PROCUREMENT REQUEST NUMBER
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6. ORGANIZATION AND ADDI	RESS (Include 9-Digit ZIP Code):		9. ORGANIZATION	AND ADDRESS	
Avista Corporation			U.S. Departmen	nt of Energy	
ATTN: Warren Clark			Bonneville Pow	er Administration	
P.O. Box 3727			ATTN: Kelly	G. Johnson – TPC/TF	PP-4
Spokane, WA 99220-31	727		P.O. Box 61409		
,			Vancouver, WA	A 98666-1409	
7. TECHNICAL CONTACT	PHONE NUME	ER	10. BPA TECHNICA	L CONTACT	PHONE NUMBER
Michael Busby	509-495-25	41	Joelle Brown		360-619-6212
8. ADMINISTRATIVE CONTAC	T PHONE NUMB	ER	11. BPA ADMINISTE	RATIVE CONTACT	PHONE NUMBER
Warren Clark	509-495-41	86	Steve Shink		509-358-7424

^{12.} TITLE/BRIEF DESCRIPTION OF WORK TO BE PERFORMED UNDER THIS AGREEMENT

MOVE AVISTA LOADS TO AVISTA BALANCING AREA

The Bonneville Power Administration (Bonneville) and Avista Corporation (Avista) have developed a plan of service to electronically move Avista loads that are physically located in Bonneville's balancing authority area into Avista's balancing authority area.

Under this Reimbursable Agreement (Agreement), Bonneville and Avista hereby agree to install revenue metering and telemetry equipment, and make computer software and database changes required to electronically move Avista's load from BPA's balancing authority area to Avista's balancing authority area. Details of Avista's and Bonneville's responsibilities are provided in the attached Division of Responsibilities Statement.

Bonneville and Avista shall make their best effort to complete the work associated with this Agreement by June 30, 2009.

The following document is attached to and becomes part of this Agreement:

• Division of Responsibilities Statement

15. AMOUNT TO BE PAID BY BPA		16. AMOUNT TO BE PAID TO BPA		
		\$117,200 (estimated)		
17. SUBMIT SIGNED AGREEMENT TO		18. ACCOUNTING INFORMATION (For BPA Use Only)		
U.S. Department of Energy				
Bonneville Power Administration				
ATTN: Kelly G. Johnson - TPC/	Γ Ρ Ρ-4	19. SUBMIT INVOICE TO (Name and Address)		
8100 NE Parkway Drive, Suite 50		Avista Corporation, ATTN: Warren Clark		
Vancouver, WA 98662		P.O. Box 3727		
·		Spokane, WA 99220-3727		
PARTICIPANT	AND AND THE	BPA Days to BPA		
20. APPROVED BY (Signature)	DATE (MM/DD/YY)	21. APPROVED BY (Signature) DATE (MM/DD/YY)		
Dennis I. Howey	6/27/07	Toni L. Timberman June 25, 200	7	
NAME AND TITLE		NAME AND TITLE	•	
Dennis Howey		Toni L. Timberman		
Chief Electrical Engineer		Senior Transmission Account Executive		

The Bonneville Power Administration (Bonneville) and Avista Corporation (Avista) have developed a joint plan to install revenue metering and telemetry equipment required to electronically move Avista's load from Bonneville's balancing authority area to Avista's balancing authority area. This Reimbursable Agreement (Agreement) documents the duties and responsibilities of Avista and Bonneville related to the design, construction, ownership, operations and maintenance of the revenue metering, telemetry equipment and communication equipment associated with this project.

I. GENERAL PROVISIONS AGREED TO BY BONNEVILLE AND AVISTA

- A. Bonneville will develop a design that will electronically move Avista's loads at each of the 10 Points of Delivery (POD) provided in Table 1 below, from BPA's balancing authority area to Avista's balancing authority area.
- B. Avista's loads at each POD will be moved in the order shown in Table 1. The order of moves may be changed upon written mutual agreement. Such agreement shall not be unreasonably withheld.
- C. Avista and Bonneville will coordinate and agree on the dates to complete the moves. Bonneville and Avista will use good faith efforts to adhere to the move dates agreed to by the parties. Initially, the revenue metering, telemetry equipment, software and databases will be installed or modified to move the load at the Dover POD from Bonneville's balancing authority area to Avista's balancing authority area by October 1, 2007. Thereafter, the revenue metering, telemetry equipment, software and databases will be installed or modified to move the load at the next POD listed in Table 1 no sooner than two months following the preceding POD. The Parties may, upon written mutual agreement, combine the moves of loads at multiple PODs that the Parties agree can be completed by the same date.
- D. At any time during this project Avista may notify Bonneville of its intent to stop moving the loads at the PODs shown in Table 1.to Avista's balancing authority area. Upon receipt of such notice, Bonneville will stop work on the project and proceed with final invoicing for all work completed through the date of the notice, as described in Section V below.
- E. Avista will provide Bonneville with the equipment specified in Section II.A.2 of this Agreement. All equipment supplied to Bonneville by Avista shall meet Bonneville requirements.

	<u>T</u> 2	ABLE 1		
Order of Move	Point of Delivery	Order of Move	Point of Delivery	
1	Dover	6	Deer Park	
2	Milan	7	Loon Lake	
3	Colbert	8	Spirit	
4	Mead	9	Noxon	
5	Priest River	10	Wilbur	

II. CONSTRUCTION RESPONSIBILITIES

A. Bonneville, at Avista's expense, shall:

- 1. Develop designs for all Bonneville owned facilities that will require new equipment or equipment modifications to facilitate the move of Avista's loads at the PODs shown in Table 1 from Bonneville's balancing authority area to Avista's balancing authority area.
- At Bonneville's Bell Substation, install one RFL telemetry shelf, one 25 watt, 48 Vdc power supply, ten RFL 9845 cards, and two 4 wire E&M cards provided by Avista in accordance with Section to II.B.5.
- 3. Provide and install additional analog and digital input cards and reconfigure Bonneville's Bell Substation SCADA RTU to send the interchange signals received from Avista to Bonneville's Dittmer and Munro Control Centers.
- 4. Make computer software and database changes at Bonneville's Dittmer and Munro Control Centers needed to move the loads at each of the PODs shown in Table 1 from Bonneville's balancing authority area to Avista's balancing authority area. The software and database changes will be made at each POD after Avista and Bonneville have agreed on the date to move the load at the POD.
- 5. Amend Network Integration Transmission Service Agreement 05TX-12101 (Network Agreement) to reflect the balancing authority area change for each POD. The Network Agreement shall be amended prior to the effective date of the move of the load at each of the PODs, as appropriate.
- 6. Perform joint testing with Avista of the revenue meters, telemetry, communication equipment and data exchange for each of the PODs that move Avista's load from Bonneville's balancing authority area to Avista's balancing authority area.

B. Avista, at its expense, shall:

- Develop designs for all Avista owned facilities that will require new
 equipment or equipment modifications to facilitate the move of Avista's
 loads at the PODs shown in Table 1 from Bonneville's balancing authority
 area to Avista's balancing authority area.
- 2. Provide and install revenue meters, RFL telemetry equipment and communications equipment at each of the PODs shown in Table 1 and at Avista's Control Center needed to move load at each of the PODs to Avista's Control Center. The MW signal that represents the real-time MW interchange quantity will be Frequency Shift Keying (FSK) signal scaled from 10-30 Hz.
- 3. Ensure that all of the PODs shown in Table 1 have meter accuracy current transformers (CT) and potential transformers (PT). The CTs will be designed for a 0.3 % accuracy at burdens B-0.1 through B-2. The PTs will be designed for a 0.3 % accuracy class at burdens W, X, Y, and Z inclusive. The revenue meter will be capable of telephone access and be compatible with MV-90 software.
- 4. Provide a 2-wire telephone circuit at all of the PODs shown in Table 1 to permit Avista and Bonneville to access and retrieve the hourly revenue metering data at each PODs shown in Table 1.
- 5. Provide Bonneville with one complete RFL telemetry shelf, one 25 watt 48 Vdc power supply, ten RFL 9845 cards and two 4 wire E&M cards for installation at Bonneville's Bell Substation.
- Determine the circuit configuration for the MW signals at each of the ten PODs, and provide Bonneville with documentation needed for the circuit configurations.
- Design, provide and install SCADA RTU and communications circuits to
 collect and send the Loss of Meter Potential (LOMP), kV, MW, MVAR
 and MWH data from each of the ten PODs shown in Table 1 to Avista's
 Control Center.
- 8. Design, provide and install SCADA, communications and telemetry equipment at Avista's Control Center needed to collect LOMP, kV, MW, MVAR and MWH data from each of the ten PODs shown in Table 1.
- 9. Design, provide and install telemetry and communications equipment at Avista's Control Center and Avista's Northeast Substation needed to make the 10 - 30 Hz interchange MW signals available to Bonneville over the existing OC-3 fiber connection between Bonneville and Avista.
- 10. Make software changes to computer systems at Avista's Control Center that are needed to move Avista's load from each of the ten PODs shown in Table 1 from Bonneville's balancing authority area to Avista's balancing authority area.
- 11. Provide Bonneville with kV, MW and MVAR data through Inter-Control Center Communications Protocol (ICCP), and provide MWH data through Electric Industry Data Exchange (EIDE) system; except MWH data shall

be provided through CASSO until EIDE is available directly between Avista and Bonneville.

III. OWNERSHIP, OPERATION AND MAINTENANCE

- A. Avista will own, operate and maintain all of the revenue metering, telemetry and communications equipment installed under Section II.B above, except the RFL telemetry shelf, 48 Vdc power supply, RFL 9845 cards and 4 wire E&M cards provided to Bonneville for installation at Bell Substation under Sections II.A2, and B.5, which Bonneville shall own, operate and maintain.
 - Avista shall provide the Bonneville SPC district engineer at Bell
 Substation at least one week prior notice of Avista's calibration of the
 revenue meters. Avista shall calibrate the revenue meters thereafter at
 two-year intervals and provide Bonneville with copies of the test records.
 - 2. Avista is responsible for assuring the accuracy of the revenue meters at each POD in accordance with Bonneville's "Technical Requirements for Interconnection to the Bonneville Transmission Grid" or its successor. Avista shall notify the Bonneville SPC district engineer at Bell Substation of any meter trouble, and in a timely fashion shall replace or repair any metering component found to be defective or responsible for inaccurate metering.
 - 3. Avista shall permit Bonneville direct, unrestricted, read-only access to the revenue meter without charge.
- B. Bonneville shall own, operate and maintain all of the equipment installed under Section II.A. The Bonneville SPC district engineer shall witness and/or participate in Avista's calibration of the revenue meters, provided under III.A.1, at his discretion.

IV. PROJECT SCHEDULE

Avista and Bonneville will use good faith efforts to start the work to move Avista's loads at the Dover POD to Avista's balancing authority area by October 1, 2007, as specified in Section I.C of this Agreement, and complete the moves of Avista's loads at the remaining PODs shown in Table 1 by June 30, 2009.

V. FINANCIAL TERMS AND CONDITIONS

Bonneville's cost of performing the work specified in Section II.A above shall be Bonneville's actual cost, plus an overhead rate of 55% for labor and 26% for materials. The overhead rate recovers indirect costs for Bonneville's project office plus Bonneville's contractual support costs, including contract negotiation, billing and accounting functions, and contract management.

The estimated cost of the project is \$117,200, which Avista shall advance to Bonneville to be held in an account established for this Agreement.

Bonneville may request additional funds to be advanced for deposit in the account to complete the work at any time during performance of the project. The request shall be in writing, and Avista shall advance such additional funds within 30 days of Bonneville's written request. Bonneville may temporarily stop work until Avista supplies the requested additional funds. If Avista does not advance such additional funds by the due date or, if at any time before completion of the project Avista elects to stop work under this Agreement, Bonneville will cease all work and restore, at Avista's expense, government facilities and/or records (1) to their condition prior to work under this Agreement, or (2) to some other mutually agreeable condition.

Within a reasonable time after completion of the project, Bonneville shall make a full accounting to Avista showing the actual costs plus overhead rate charged against the account. Bonneville shall either remit any unexpended balance in the account to Avista or bill Avista for any costs in excess of the deposits in the account. Avista shall pay any excess costs within 30 days of the billing.

Payments not received within 30 days of the invoice date will accrue interest on the amount due from the invoice date to the date paid, at a rate of 12% per annum.

ER No.: 2492

Project Name: Other Small Transmission Projects: System Install Autotransformer

Diagnostic Monitor

Pro Forma Amount: \$102,000

Expended to date: \$31,555

2010 Transfer to Plant Date: June 2010 (\$50,000) and November 2010 (\$52,000)

Project Description:

This project provides for the installation of a Serveron dissolved gas analysis monitor on autotransformer #1 at Beacon 230kV Substation. Dissolved gas analysis is a key tool in evaluating the health of the transformer. This monitor allows for gas sampling to be made multiple times per day and the data is a key tool in evaluating the health of the transformer. In addition, alarms are provided for set points which permit a high degree of protection before a failure typically occurs. The recent CS2 transformer replacement is an example of this technology application.

Offsets:

This transmission plant investment is included in the production property adjustment, which adjusts rate year costs to match test year loads. There are no other identifiable O&M cost reductions for 2010 investments.

Timeline:

The monitor has been purchased and has been received. The engineering and installation is expected to be completed by July 2010.

Additional Information:

•	Costs	pg. 2
•	Capital Project Request (CPR) Form	pg. 3
•	Purchase Orders (Confidential) and remaining costs	pg. 4-7

Note:

During the course of Avista's pending general rate case, updated information will be available for audit.

AVISTA UTILTIES ER 2492 COSTS THROUGH MARCH 15, 2010

Fr	Project Number	Project Desc	Expenditure Category	Expenditure Type	2010 Transaction Amt SUM
	02805432	Bea instl auto xfmr DGA monit	AFUDC	535 AFUDC - Debt	293.70
	02000 .02		, 323	540 AFUDC - Equity	375.64
			Overhead	505 Capital Overhead - A & G	387.11
				506 Cap Overhead - Functional	12,903.71
				530 Stores/Material Loading	2,921.59
			Voucher	880 Materials & Equipment	14,673.25
		Sum		, ,	31,555.00

Care Control of the C						•
	STA	CAPITAL	PROJECT REQU	JEST FORM	Request Type	Project(s)
	Corp.	Use Tab Key			New	02805432
ER //	Budget Category			t Title (30 Characters)	Project Title Count	09805292
2492//	5-Maintenance	ED-Electric Direct	Beacon - Inst	all AutoXFMR DGA Monitor	37325	
Long Project Nar	ne (100 Characters				T IN I	'Parent' Code
(50,000) Saper 2	Beacon 230k	V substation - install Serveron D	issolved Gas Analys	is Montor on autotransformer#1.	10 14/01/	BEA09B
Approved Budget X	Will This Project Include	Long Project Name Count = 94	ER Sponsor M08	Bl Number XS903		Rate Jurisdiction AN-Allocated Nor
	Retirement of Materials or	Revenue Type Select				ation shington
Billing	Equipment?//	·	Billing Contact			Start Date
This project pro key tool in evalu	ovides for the insta uating the health o o the user. In addi occurs. The	f the transformer. This montor a tion, alarms are provided for set recent CS2 transformer replace	gas analysis monitor llows for gas samplir points which permits	1000	ay and the data is	Eorg Name Bount
		CONSTRUCTION		Budget Authorized		\$62,000
Office Use only	FERC	Estimated Amount	As Built Amount			
Task	3XXXXX	By FERC Number	By FERC Number		/	Date
360100/	300100	\$2,000	. / !	Project Set Up By		
101345	353000 /	\$55,000	028054325T	Approved By		
107628/	397000		09805292			
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			11			
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			CAPP A Jitil	ADD	ROVALS	
			10/1/1/	SIGNATURE	ROVALS	DATE
		200 000	1			DATE
GROSS ADDITION		\$62,000		Signature A / / / / / / / / / / / / / / / / / /		10/12/29
Cost of Remova	al By FERC (3XXX	OXX)		- Julion	1	1913/01
				Print Name: S'Wilson		1/
				Signature 7/)	
				W. Magned	ا س	10/13/09
				Print Name: M.Magruder	,	
				Signature >- / Jul		11
	Total Removal			Print Name Pick Vermocos 10		10/13/09
Salvage By FER	C (3XXXXX)			Print Name Rick Vern	20003	
	,			Signature		
				Print Name		
	Total Calvaga			Signature		
T-4-! Damaria!	Total Salvage			Olghatar C		
Total Removal I	Less Salvage			Print Name		
N 01 1 1N	V. J. D I. J	Structure Nandad (Ortional)		Fillit Name		
	vork Breakdown	Structure Needed (Optional)		Desirat Contact & Futurella		
Peer Task				Project Contact & Extension		
				Let a this be put the three to prove a state of the first of the least to provide a final of the		Telescophysia September Committee Control of the Co
				APPROVAL SIGN	ATURE(S) REQUIF	<u>RED</u>
				To \$99,999 - Director.		
Sub Task				\$100,000-\$499,999 - VP or GM U	tility	
网络美国特别				\$500,000-\$2,999,999 - Sr Vice Pri	esident/CFO	
Policy Park Park Park				\$3,000,000-\$9,999,999 - Presiden	t/CEO/COO -	
Participalities (Co.)				Over \$10,000,000 - Board Chair		
DESERVE AND A SECOND				Out-of-Budget - Capital Budget Co	mmittee	
TERM ALCOHOLOGICAL					The second second	
所には、無行が予告的が が自然が、行うに対する。				THE PROJECT SPONSOR IS RESP	ONE IDI E FOR CLOC	INC THE TOP
Harreton Albania 1996				IMMEDIATELY UPON COMPLETION		
Date Prepared:				[20] [20] [20] [20] [20] [20] [20] [20]	and of the property of the pr	THE STREET SHOW AND THE REAL PROPERTY OF THE PARTY OF THE
				COMPLETE AS BUILT INFO AND F	UKWARD TO UTILIT	Y ACCOUNTING
TOTAL COST O	F PROJECT	\$62,000				
			120m-1122	Date Work Completed		
C		Project and Fixed Asset Accoun	- 3	Foreman/		
	(Sue ext-	4472 or Howard ext-2936)		Supervisor		

CONFIDENTIAL per WAC 480-07-160

PURCHASE ORDERS AND REMAINING COSTS Pgs. 4 - 7.