

DAVID J. MEYER
VICE PRESIDENT AND CHIEF COUNSEL FOR
REGULATORY & GOVERNMENTAL AFFAIRS
AVISTA CORPORATION
P.O. BOX 3727
1411 EAST MISSION AVENUE
SPOKANE, WASHINGTON 99220-3727
TELEPHONE: (509) 495-4316
FACSIMILE: (509) 495-8851
DAVID.MEYER@AVISTACORP.COM

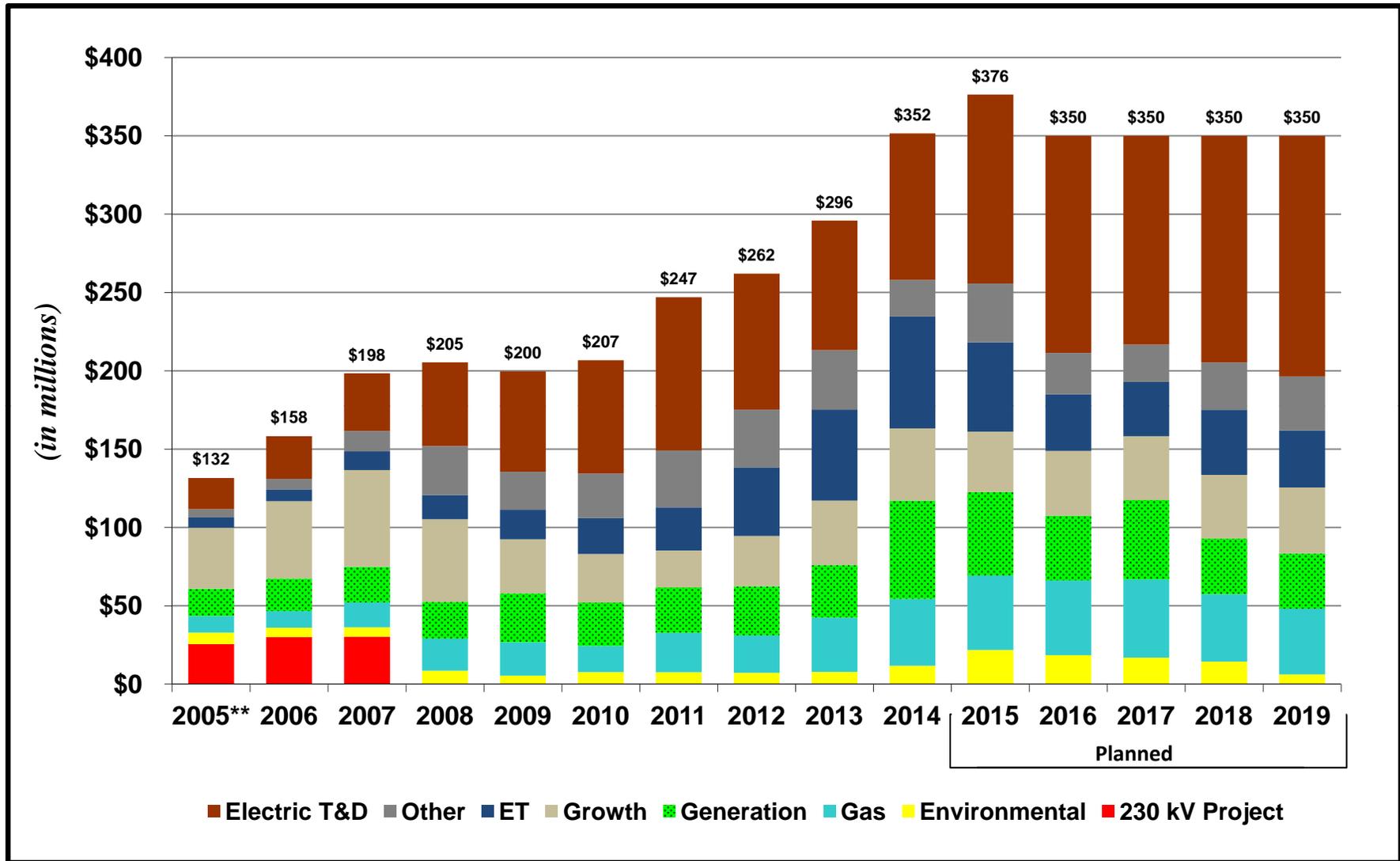
BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION)	CASE NO. AVU-E-15-05
OF AVISTA CORPORATION FOR THE)	CASE NO. AVU-G-15-01
AUTHORITY TO INCREASE ITS RATES)	
AND CHARGES FOR ELECTRIC AND)	
NATURAL GAS SERVICE TO ELECTRIC)	EXHIBIT NO. 11
AND NATURAL GAS CUSTOMERS IN THE)	
STATE OF IDAHO)	KAREN K. SCHUH
)	

FOR AVISTA CORPORATION

(ELECTRIC AND NATURAL GAS)

Capital Expenditures

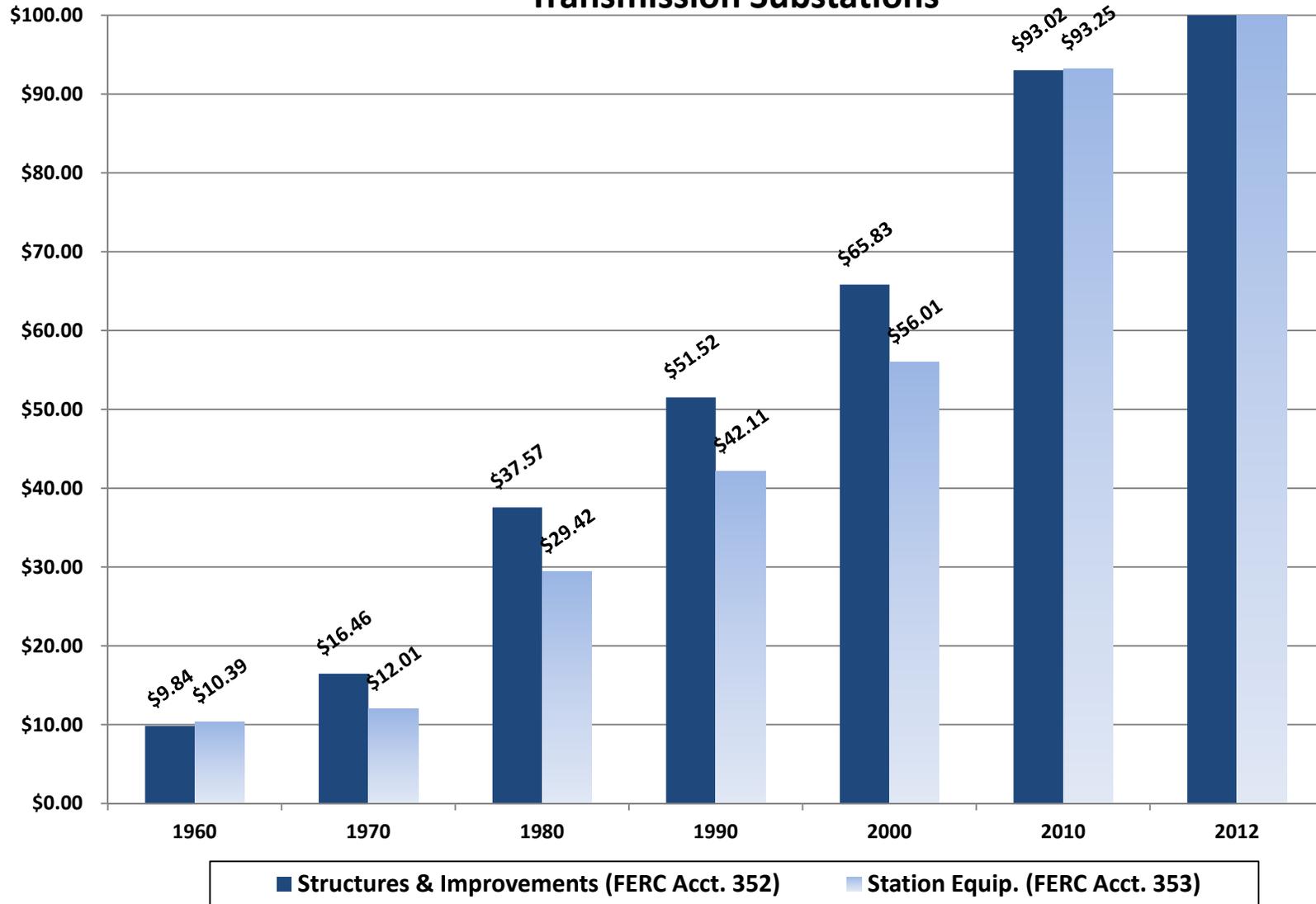


** 2005 excludes \$57.5 for the purchase of the second half of Coyote Springs 2 and \$17.8 for the office building purchase.

Handy Whitman Cost Index

(Published May 2013)

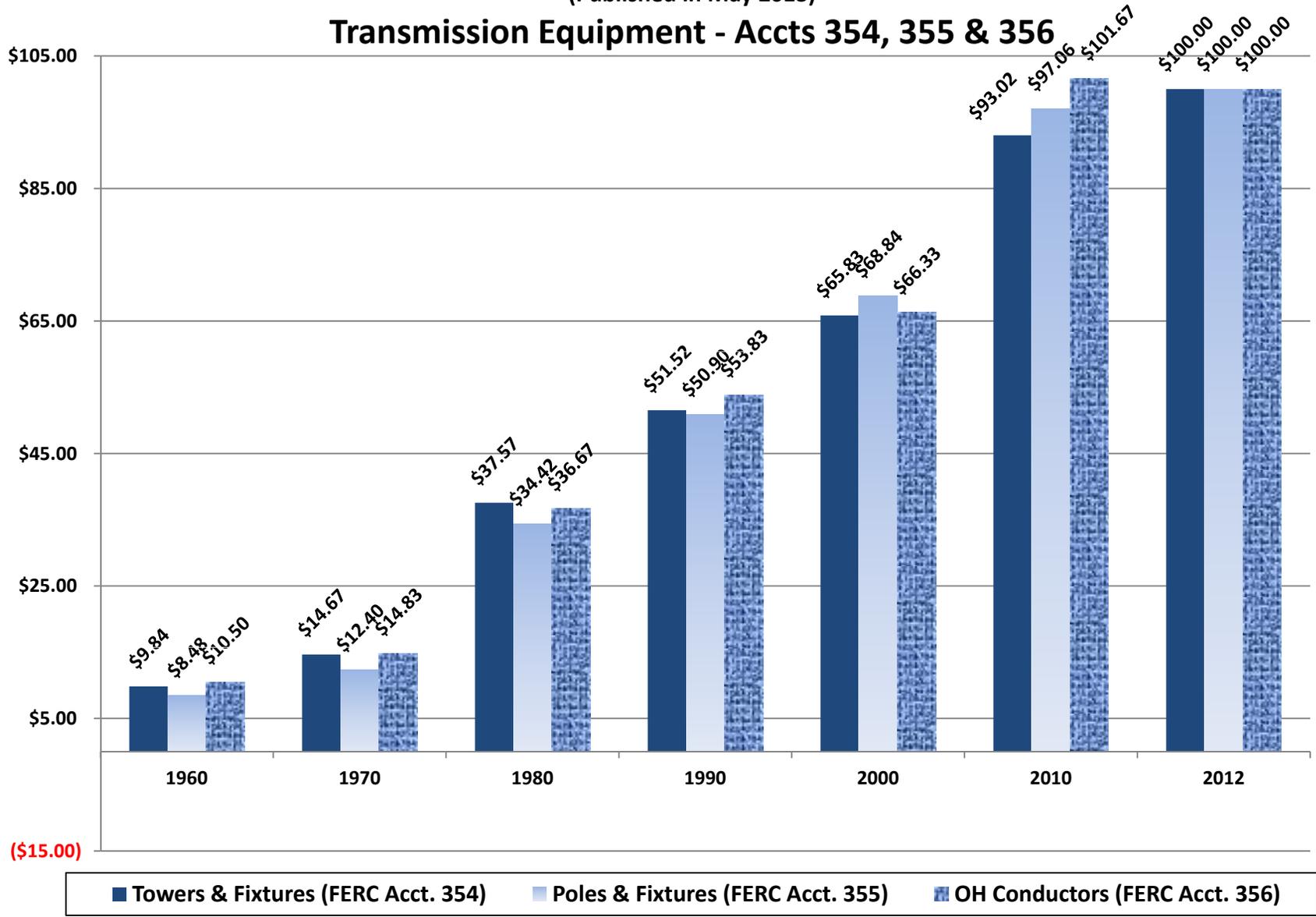
Transmission Substations



Handy Whitman Cost Index

(Published in May 2013)

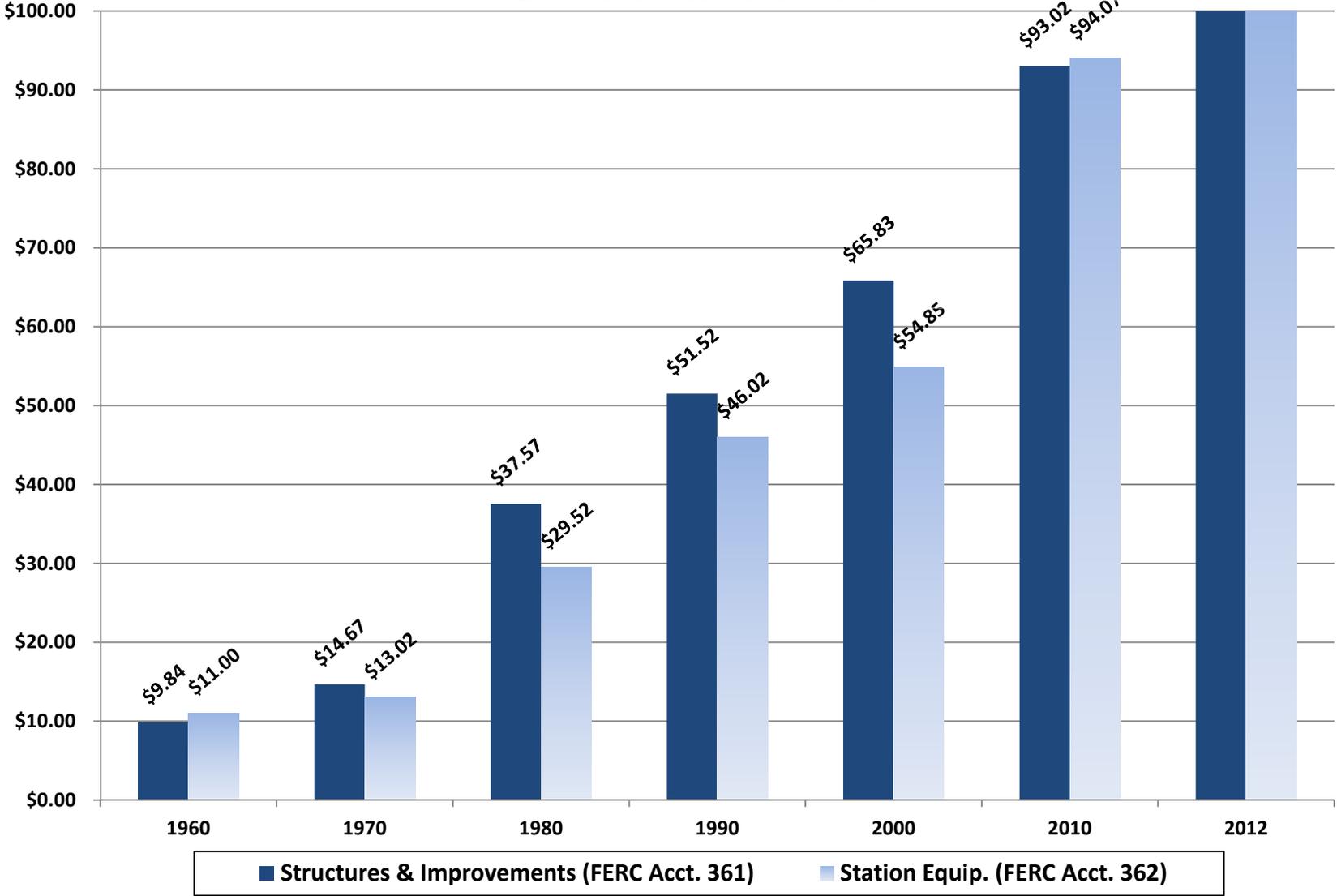
Transmission Equipment - Accts 354, 355 & 356



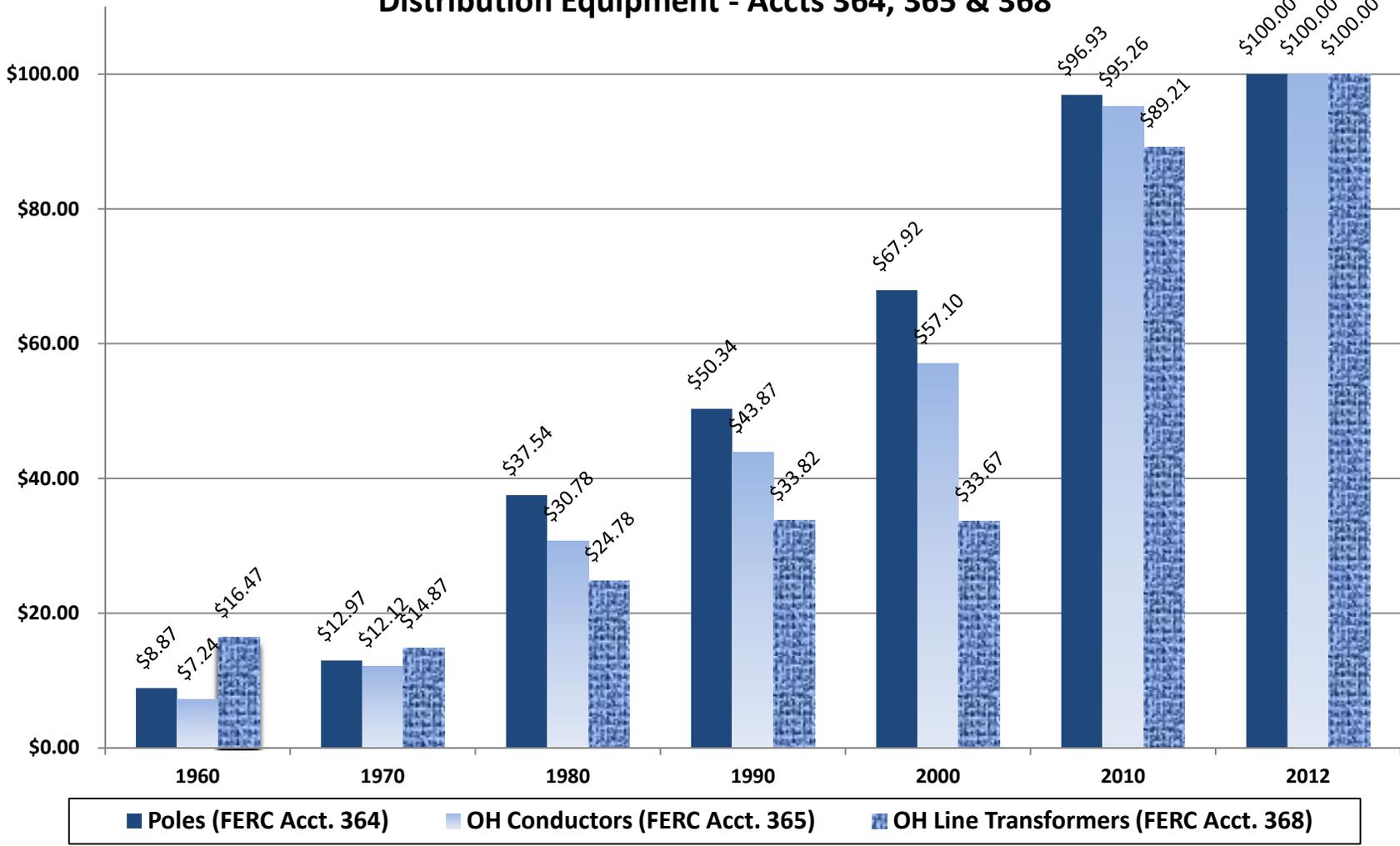
Handy Whitman Cost Index

(Published in May 2013)

Distribution Substations



Handy Whitman Cost Index
(Published in May 2013)
Distribution Equipment - Accts 364, 365 & 368



Avista 2015 Capital Additions Detail (System)
(Transfers to Plant)

Exhibit No. 11 (K. Schuh, Avista)

Schedule No. 4, Page #

\$ (000's)

Generation / Production:

7	Hydro - Base Load Hydro	\$ 1,974
12	Hydro - Clark Fork Settlement Agreement	13,988
17	Hydro - Generation Battery Replacement	434
20	Hydro - Hydro Safety Minor Blanket	151
24	Hydro - Little Falls Plant Upgrade	14,300
27	Hydro - Nine Mile Rehab	56,567
31	Hydro - Regulating Hydro	5,186
34	Hydro - Spokane River License Implementation	1,266
39	Other - Base Load Thermal Plant	2,200
42	Other - Peaking Generation	501
47	Kettle Falls Water Supply	1,529
50	Thermal - Colstrip Thermal Capital	2,497
58	Hydro - Noxon Spare Coils	1,350
61	Hydro - Post Falls South Channel Replacement	9,309
64	Hydro - Cabinet Gorge Unit 1 Refurbishment	11,687
		\$ 122,939

General:

77	Capital Tools & Stores Equipment	\$ 2,348
80	COF Long-Term Restructuring Plan	7,500
83	Structures and Improvements/Furniture	6,030
86	Apprentice Training	121
89	HVAC Renovation Project	9,520
92	COF Long-term Restructure Ph2	2,723
95	Sandpoint Renovation	500
		\$ 28,742

Natural Gas Distribution:

102	Aldyl A Replacement	\$ 16,817
106	Cathodic Protection	1,292
109	Gas Non-Revenue Program	7,592
112	Gas Reinforcement	1,000
115	Gas Replacement Street & Highway	5,035
118	Gas Telemetry	416
121	Isolated Steel Replacement	3,458
124	Overbuilt Pipe Replacement	900
127	Regulator Station Reliability Replacement	812
130	Replace Deteriorating Steel Gas Systems	1,000
138	Gas PMC Program - Capital Replacements	1,030
144	Chase Road Gate Station	5,987
147	ERTs Replacement Program	402
		\$ 45,741

Gas Underground Storage:

150	Jackson Prairie Storage	\$ 1,356
		\$ 1,356

Transportation:

153	Fleet Budget	\$ 10,184
		\$ 10,184

Avista 2015 Capital Additions Detail (System)
(Transfers to Plant)

Exhibit No. 11 (K. Schuh, Avista)

Schedule No. 4, Page #

\$ (000's)

Enterprise Technology:		
158	AvistaUtilities.com and AvaNet Redesign	\$ 5,145
161	Enterprise Business Continuity Plan	1,043
164	Mobility in the Field	420
167	Technology Refresh to Sustain Business Process	21,379
170	Customer Information and Work & Asset Management System	96,685
171	Enterprise Security	5,400
174	Technology Expansion to Enable Business Process	7,431
180	High Voltage Protection Upgrade	1,252
183	Next Generation Radio Refresh	4,007
186	Microwave Refresh	2,755
		<u>\$ 145,517</u>

Electric Transmission / Distribution:		Transmission	Distribution	Total Transmission & Distribution
190	Colstrip Transmission/PNACI	\$ 491	\$ -	\$ 491
195	Distribution Grid Modernization		14,081	14,081
200	Distribution Line Protection		125	125
203	Distribution Minor Rebuild		8,300	8,300
206	Distribution Transformer Change-Out Program		4,700	4,700
209	Distribution Wood Pole Management		11,000	11,000
214	Meter Minor Blanket		5,806	5,806
218	Electric Replacement/Relocation		2,403	2,403
221	Environmental Compliance	434	150	584
225	Primary URD Cable Replacement		1,000	1,000
228	Reconductors and Rebuilds	11,776	2,892	14,668
231	Segment Reconductor and FDR Tie Program		3,894	3,894
234	Lewiston Mill Rd. 115 kV Substation	684		684
237	Storms	1,000	2,000	3,000
240	Substation - 115 kV Line Relay Upgrades	1,230		1,230
243	Substation - Asset Mgmt. Capital Maintenance	1,647	2,679	4,326
246	Substation - Capital Spares	3,250	1,200	4,450
249	Substation - Distribution Station Rebuilds	250	2,297	2,547
252	Substation - New Distribution Stations		1,995	1,995
255	Tribal Permits and Settlements	1,430		1,430
258	Worst Feeders		2,435	2,435
261	Spokane Valley Transmission Reinforcement	3,468		3,468
264	Clearwater Sub Upgrades	500		500
267	Street Light Management		1,500	1,500
272	Noxon Switchyard Rebuild	9,906		9,906
275	Transmission - Asset Management	1,813		1,813
278	Transmission - NERC Low Priority Mitigation	500		500
281	Transmission - NERC Medium Priority Mitigation	3,306		3,306
284	SCADA - SOO & BUCC	1,061		1,061
		<u>\$ 42,746</u>	<u>\$ 68,457</u>	<u>\$ 111,203</u>

Total Non-Revenue Capital \$ 465,682

Growth/Revenue - Producing \$ 33,279

Total Washington/Oregon Direct Capital Additions 2015 \$ 21,067

Total Capital Additions in 2015 \$ 520,028

Avista 2016 Capital Additions Detail (System)
(Transfers to Plant)

Exhibit No. 11 (K. Schuh, Avista)		\$ (000's)
Schedule No. 4, Page #		
Generation / Production:		
7	Hydro - Base Load Hydro	\$ 1,149
12	Hydro - Clark Fork Settlement Agreement	6,054
17	Hydro - Generation Battery Replacement	250
20	Hydro - Hydro Safety Minor Blanket	75
24	Hydro - Little Falls Plant Upgrade	9,000
27	Hydro - Nine Mile Rehab	9,871
31	Hydro - Regulating Hydro	3,533
34	Hydro - Spokane River License Implementation	397
39	Other - Base Load Thermal Plant	2,200
42	Other - Peaking Generation	500
50	Thermal - Colstrip Thermal Capital	10,480
55	Other - Coyote Springs LTSA	2,000
		<u>\$ 45,509</u>
 General:		
77	Capital Tools & Stores Equipment	\$ 2,400
80	COF Long-Term Restructuring Plan	4,000
83	Structures and Improvements/Furniture	3,600
86	Apprentice Training	60
		<u>\$ 10,060</u>
 Natural Gas Distribution:		
102	Aldyl A Replacement	\$ 17,385
106	Cathodic Protection	1,000
109	Gas Non-Revenue Program	8,595
112	Gas Reinforcement	1,000
115	Gas Replacement Street & Highway	4,500
118	Gas Telemetry	400
121	Isolated Steel Replacement	3,550
124	Overbuilt Pipe Replacement	900
127	Regulator Station Reliability Replacement	800
130	Replace Deteriorating Steel Gas Systems	1,000
133	Gas HP Pipeline Remediation Program	3,000
138	Gas PMC Program - Capital Replacements	1,061
141	Gas Rathdrum Prairie HP Main Reinforcement	5,000
147	ERTs Replacement Program	444
		<u>\$ 48,635</u>
 Gas Underground Storage:		
150	Jackson Prairie Storage	\$ 1,175
		<u>\$ 1,175</u>
 Transportation:		
153	Fleet Budget	\$ 7,700
		<u>\$ 7,700</u>

Avista 2016 Capital Additions Detail (System)
(Transfers to Plant)

Exhibit No. 11 (K. Schuh, Avista)				
Schedule No. 4, Page #		\$ (000's)		
Enterprise Technology:				
158	AvistaUtilities.com Redesign			\$ 2,000
161	Enterprise Business Continuity Plan			450
164	Mobility in the Field			320
167	Technology Refresh to Sustain Business Process			16,095
171	Enterprise Security			3,200
174	Technology Expansion to Enable Business Process			5,552
180	High Voltage Protection Upgrade			415
186	Microwave Refresh			3,050
				\$ 31,082
Electric Transmission / Distribution:				
		Transmission	Distribution	Total Transmission & Distribution
190	Colstrip Transmission/PNACI	\$ 497	\$ -	\$ 497
195	Distribution Grid Modernization		11,000	11,000
200	Distribution Line Protection		125	125
203	Distribution Minor Rebuild		8,300	8,300
206	Distribution Transformer Change-Out Program		4,700	4,700
209	Distribution Wood Pole Management		11,000	11,000
214	Meter Minor Blanket		5,806	5,806
218	Electric Replacement/Relocation		2,500	2,500
221	Environmental Compliance	350	150	500
228	Reconductors and Rebuilds	21,161	2,500	23,661
231	Segment Reconductor and FDR Tie Program		3,809	3,809
237	Storms	890	1,900	2,790
243	Substation - Asset Mgmt. Capital Maintenance	3,300	1,519	4,819
246	Substation - Capital Spares	4,915	1,200	6,115
249	Substation - Distribution Station Rebuilds	3,565	2,284	5,849
252	Substation - New Distribution Stations		75	75
255	Tribal Permits and Settlements	316		316
258	Worst Feeders		2,000	2,000
261	Spokane Valley Transmission Reinforcement	7,440		7,440
264	Clearwater Sub Upgrades	500		500
267	Street Light Management		1,500	1,500
272	Noxon Switchyard Rebuild	500		500
275	Transmission - Asset Management	1,772		1,772
278	Transmission - NERC Low Priority Mitigation	2,000		2,000
281	Transmission - NERC Medium Priority Mitigation	2,251		2,251
284	SCADA - SOO & BUCC	1,002		1,002
289	South Region Voltage Control	4,900		4,900
292	Westside Rebuild Phase One	1,780		1,780
		\$ 57,139	\$ 60,368	\$ 117,507
Total Non-Revenue Capital				\$ 261,668
Growth/Revenue - Producing				\$ 33,334
Total Washington/Oregon Direct Capital Additions 2016				\$ 45,195
Total Capital Additions in 2016				\$ 340,197

Avista 2017 Capital Additions Detail (System)
(Transfers to Plant)

Exhibit No. 11 (K. Schuh, Avista)		
Schedule No. 4, Page #		\$ (000's)
Generation / Production:		
7	Hydro - Base Load Hydr	\$ 1,149
12	Hydro - Clark Fork Settlement Agreement	22,836
17	Hydro - Generation Battery Replacement	250
20	Hydro - Hydro Safety Minor Blanke	80
24	Hydro - Little Falls Plant Upgrade	10,000
27	Hydro - Nine Mile Rehab	858
31	Hydro - Regulating Hydro	3,533
34	Hydro - Spokane River License Implementation	17,018
39	Other - Base Load Thermal Plant	2,201
42	Other - Peaking Generation	500
50	Thermal - Colstrip Thermal Capital	9,617
55	Other - Coyote Springs LTSA	730
67	Cabinet Gorge Automation Replacement	2,842
70	Kettle Falls Stator Rewind	7,930
74	Long Lake Replace Field Windings	4,172
		\$ 83,716
General:		
77	Capital Tools & Stores Equipment	\$ 2,400
83	Structures and Improvements/Furniture	3,600
86	Apprentice Training	60
92	COF Long-term Restructure Ph2	5,000
99	New Airport Hangar	1,500
		\$ 12,560
Natural Gas Distribution:		
102	Aldyl A Replacement	\$ 18,263
106	Cathodic Protection	1,250
109	Gas Non-Revenue Program	8,680
112	Gas Reinforcement	800
115	Gas Replacement Street & Highway	4,500
118	Gas Telemetry	400
121	Isolated Steel Replacement	3,320
124	Overbuilt Pipe Replacement	900
127	Regulator Station Reliability Replacement	800
130	Replace Deteriorating Steel Gas Systems	1,000
133	Gas HP Pipeline Remediation Program	3,000
138	Gas PMC Program - Capital Replacements	1,093
141	Rathdrum Prairie HP Gas Reinforcement	5,000
147	ERTs Replacement Program	494
		\$ 49,500
Gas Underground Storage:		
150	Jackson Prairie Storage	\$ 1,356
		\$ 1,356
Transportation:		
153	Fleet Budget	\$ 7,700
		\$ 7,700

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Base Load Hydro

ER No: 4147 **ER Name:** Base Hydro

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 3,447 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	1,974	-	-	-	-	-	-	-	-	-	-	-	1,149	825
2016	1,149	-	-	-	-	-	-	-	-	-	-	-	1,149	
2017	1,149	-	-	-	-	-	-	-	-	-	-	-	1,149	

Business Case Description:

This program is to cover the capital maintenance expenditures required to keep these plants operating within 90% of their current performance. The program will focus on ways to maintain compliance while maintaining reasonable unit availability. These plants are the Upper Spokane River plants, including Post Falls, Upper Falls, Monroe Street and Nine Mile.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Base Load Hydro
Requested Amount	\$ 800,000
Duration/Timeframe	10 Year Program
Dept., Area:	GPSS
Owner:	Andy Vickers
Sponsor:	Jason Thackston
Category:	Program
Mandate/Reg. Reference:	n/a

Assessments:
 Financial: 14.19%
 Strategic: Generating plant performance
 Business Risk: Business Risk Reduction >5 and <= 10
 Program Risk: Moderate certainty around cost, schedule and resources

Assessment Score: 88

Recommend Program Description:

This program is to cover the capital maintenance expenditures required to keep these plants operating within 90% of their current performance (this assumes some degradation of performance over time.) The program will focus on ways to maintain compliance and reduce overall O&M expenses while maintaining a reasonable unit availability. These plants are the Upper Spokane River Plants. These include PF, UF, MS, NM

Alternatives:	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Capital Cost	O&M Cost	Other Costs	
Unfunded Program:	\$ 450,000	\$ -	\$ -	16
<i>Alternative 1: Brief name of alternative (if applicable)</i>	\$ 650,000	\$ -	\$ -	6
<i>Alternative 2: Brief name of alternative (if applicable)</i>	\$ -	\$ -	\$ -	0
<i>Alternative 3 Name: Brief name of alternative (if applicable)</i>	\$ -	\$ -	\$ -	0

Program Cash Flows

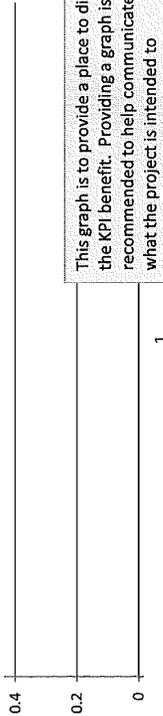
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 1,200,000	\$ -	\$ -	\$ 1,149,000
2015	\$ 800,000	\$ -	\$ -	\$ 1,149,000
2016	\$ 800,000	\$ -	\$ -	\$ 1,149,000
2017	\$ 800,000	\$ -	\$ -	\$ 1,149,000
2018	\$ 800,000	\$ -	\$ -	\$ 1,149,000
2019	\$ 800,000	\$ -	\$ -	\$ 1,149,000

Associated Ers (list all applicable):

4000	4106
4003	4109
4004	4117
4104	



Capital Program Business Case



This graph is to provide a place to direct the KPI benefit. Providing a graph is recommended to help communicate what the project is intended to

1

(if necessary)

Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision

Review Cycles
2012-2016



Capital Program Business Case

Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Clark Fork Settlement Agreement

ER No: ER Name:

6100 Clark Fork License/Compliance

6103 Clark Fork Implement PME Agreement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 40,057 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	13,988	768	864	912	977	1,010	1,028	932	911	977	1,010	1,202	3,395
2016	6,054	178	208	223	243	393	403	403	403	363	323	288	2,631
2017	22,836	100	100	115	195	195	280	280	295	295	215	110	20,656

Business Case Description:

Implementation of Protection, Mitigation and Enhancement (PM&E) programs. License is issued to Avista Corporation for a period of 45 years, effective March 1, 2001, to operate and maintain the Clark Fork Project No. 2058. The License includes hundreds of specific legal requirements, many of which are reflected in License Articles 404-430. These Articles derived from a comprehensive settlement agreement between Avista and over 20 other parties, including the States of Idaho and Montana, various federal agencies, five Native American tribes, and numerous Non Governmental Organizations. We are required to develop, in consultation with the Management Committee, a yearly work plan and report, addressing all PM&E measures of the License. In addition, implementation of these measures is intended to address ongoing compliance with Montana and Idaho Clean Water Act requirements, the Endangered Species Act (fish passage), and state, federal and tribal water quality standards as applicable. License articles also describe our operational requirements for items such as minimum flows, ramping rates and reservoir levels, as well as dam safety and public safety requirements.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Clark Fork Settlement Agreement	Assessments:				
Requested Amount	\$12,569,817	Financial:	High - Exceeds 12% CIRR			
Duration/Timeframe	45 Year Program	Strategic:	Other			
Dept., Area:	Environmental	Operational:	Operations require execution to perform at current levels			
Owner:	Tim Swant (Mgr), Bruce Howard (Dir)	Business Risk:	ERM Reduction >10 and <= 15			
Sponsor:	Marian Durkin	Program Risk:	Moderate certainty around cost, schedule and resources			
Category:	Mandatory	Assessment Score:	174			
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)				
Recommend Program Description:	Implementation of Protection, Mitigation and Enhancement (PM&E) programs. License is issued to Avista Corporation for a period of 45 years, effective March 1, 2001, to operate and maintain the Clark Fork Project No. 2058. The License includes hundreds of specific legal requirements, many of which are reflected in License Articles 404-430. These Articles derived from a comprehensive settlement agreement between Avista and over 20 other parties, including the States of Idaho and Montana, various federal agencies, five Native American tribes, and numerous Non Governmental Organizations. We are required to develop, in consultation with the Management Committee, a yearly work plan and report, addressing all PM&E measures of the License. In addition, implementation of these measures is intended to address ongoing compliance with Montana and Idaho Clean Water Act requirements, the Endangered Species Act (fish passage), and state, federal and tribal water quality standards as applicable. License articles also describe our operational requirements for items such as minimum flows, ramping rates and reservoir levels, as well as dam safety and public safety requirements.	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
			\$ 12,569,817	\$ -	\$ -	4

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	If the PM&E are not funded, there is potential for penalties/fines, new license requirements or alternative enforcement and higher mitigation costs, and/or loss of operational flexibility of the hydro facilities; in addition, we are subject to direct enforcement or lawsuits regarding the settlement.	n/a	\$ -	\$ -	From Moderate to Extreme	20
			\$ -	\$ -	\$ -	0
			\$ -	\$ -	\$ -	0
			\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):	
5 years of costs					6103	6100
	Capital Cost	O&M Cost	Other Costs	Approved		
Previous	\$ -	\$ -	\$ -	\$ -		
2012	\$ -	\$ -	\$ -	\$ 5,728,500		
2013	\$ 5,348,751	\$ -	\$ -	\$ 4,655,220		
2014	\$ 12,569,817	\$ -	\$ -	\$ 9,341,817		
2015	\$ 18,760,951	\$ -	\$ -	\$ 9,927,956		
2016	\$ 13,410,790	\$ -	\$ -	\$ 14,293,795		
2017	\$ 15,056,504	\$ -	\$ -	\$ 15,835,510		
2018	\$ 5,139,269	\$ -	\$ -	\$ 13,302,275		
2019	\$ -	\$ -	\$ -	\$ 5,052,843		
Total	\$ 70,286,082	\$ -	\$ -	\$ 78,137,916		

Mandate Excerpt (if applicable):
 Article 401. The licensee shall comply with the terms and conditions of this license in accordance with the Clark Fork Settlement Agreement (CFSA) (License Application Volume III) Entered into January 28, 1999, in addition to the articles set forth within the FERC project 2058-014

Additional Justifications:
 The CFSA establishes processes and includes measures for resolving a wide range of complex and conflicting areas of interest to 27 various parties. Under this agreement, Avista will work with a Management Committee comprised of one representative of each of the parties to implement the PM&E measures.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided



Capital Program Business Case

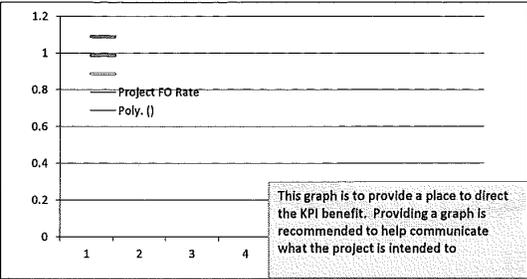
Fleet: YES - attach form
 YES - attach form NO or Not Required (this does not require a firm commitment)



Capital Program Business Case

Key Performance Indicator(s)
Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here
Fill in the name of the KPI here



Prepared signature

Reviewed signature Director/Manager

Other Party Review signature Marilyn Stevens
 (if necessary) Director/Manager

Capital Budget Projections

	2014	2015	2016	2017	2018	
ER 6103	3,687,817	3,827,951	4,023,790	4,225,504	4,352,269	Core PMEs: assumes 3% labor change, 3% ave GDP and int adjustment (10 year historical review)
Guy	1,317,000	2,103,000	2,322,000	2,566,000	12,000	Spillway Crest modifications for TDG- assumes repairs to Bay 2 are complete in 2013 and revised design are completed in late 2013 early 2104. Modify 1 bay in 2014, 2 bays in 2015, 2 bays in 2016, and 2 bays in 2017
Bruce	225,000	340,000	425,000	245,000	375,000	Tributary traps for downstream passage: assumes feasibility study and design 2014 - 2015, with construction anticipated in 2016
	4,900,000	9,900,000	2,500,000	-	-	Cabnet Gorge fishway: assumed to be started post spill 2014 and completed by the start of Q3 2016
Min Flow	390,000	590,000	3,920,000	7,620,000	-	Nixon Rapids fishway: assumes project on hold at 30% level with construction to begin 2016. Some background project work would continue.
	250,000	200,000	100,000	100,000	100,000	
Clark Fork Delta	1,500,000	1,500,000	-	-	-	erosion remediation with Avista contributing 15-25% to the erosion loss. Project to begin in the fall of 2014 through 2015.
Permitting & Additional Labor	200,000	200,000	20,000	200,000	200,000	permitting needs on all construction: Fishway Projects & GSCP change in management of Spillway Crest and additional anticipated labor expenses
ER 6100	100,000	100,000	100,000	100,000	100,000	Ongoing non-PME capital for facilities maintenance.
B04	12,569,817	18,760,951	13,410,790	15,056,504	5,139,269	

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template



Capital Program Business Case

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Generation Battery Replacement

ER No: 4108
ER Name: System Battery Replacement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 750 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	434	-	-	63	-	-	63	-	-	63	-	-	63	184
2016	250	-	-	63	-	-	63	-	-	63	-	-	63	
2017	250	-	-	63	-	-	63	-	-	63	-	-	63	

Business Case Description:

This program is set up around an asset management plan for the station batteries in all generating stations. This is the same as the current battery replacement item. This item will also have some minor fluctuations as the number and size of batteries in any one year can change.

Offsets:

There are no anticipated offsets with this business case.

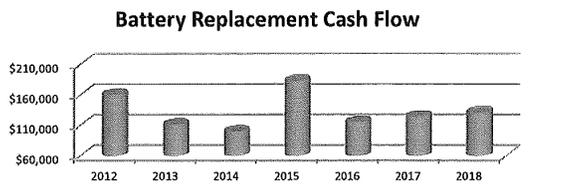
¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Generation Battery Replacement					
Requested Amount	\$160,000					
Duration/Timeframe	20 Year Program					
Dept., Area:	GPSS					
Owner:	Andy Vickers					
Sponsor:	Jason Thackston					
Category:	Program					
Mandate/Reg. Reference:	n/a					
Assessments:	Financial: Low - >0% and < 5% CIRR					
	Strategic: Life Cycle Programs					
	Operational: Operations somewhat impacted by execution					
	Business Risk: ERM Reduction >5 and <= 10					
	Program Risk: High certainty around cost, schedule and resources					
Assessment Score:	72	Annual Cost Summary - Increase/(Decrease)				
Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score	
This program is set up around an asset management plan for the station batteries in all generating stations. This is the same as the current Battery replacement item. This item will also have some minor fluctuations as the number and size of batteries in any one year can change.	Forced outages from battery failures	\$ 160,000	\$ -	\$ -	0	
Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score	
Status Quo :	We currently have a battery replacement program in place	n/a	\$ 120,000	\$ -	\$ -	0
Alternative 1: Brief name of alternative (if applicable)	Failure to replace batteries on a planned basis will result in system failures of a battery and subsequently place an entire generating asset and public at risk due to loss of protection and control of the systems.	possible outages and equipment failures	\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
2012-2016					4108				
	Capital Cost	O&M Cost	Other Costs	Approved					
Previous	\$ 10,000	\$ -	\$ -	\$ 10,000					
2012	\$ 160,000	\$ -	\$ -	\$ 160,000					
2013	\$ 111,000	\$ -	\$ -	\$ 111,000					
2014	\$ 100,000	\$ -	\$ -	\$ 100,000					
2015	\$ 183,000	\$ -	\$ -	\$ 250,000					
2016	\$ 115,000	\$ -	\$ -	\$ 250,000					
2017	\$ 124,000	\$ -	\$ -	\$ 250,000					
2018	\$ 131,000	\$ -	\$ -	\$ 250,000					
2019	\$ -	\$ -	\$ -	\$ 250,000					
Future	\$ 201,000	\$ -	\$ -	\$ -					
Total	\$ 1,135,000	\$ -	\$ -	\$ 1,631,000					



Mandate Excerpt (if applicable):
n/a

Additional Justifications:
This is part of a life cycle program for battery replacement. While there is little to measure the benefits from this program, failure to execute this program results in unplanned system battery failures. We have experienced these failures in the recent past and had been fortunate that we did not lose control of the plant. When a battery fails, there is a risk of loss of control, loss of protection, and the possibility of extensive damage to powerhouse equipment due to the excess low voltage or loss of control. The DC system is the one system that must be near fail safe in order to protect both property and personnel.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO
 Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required



Capital Investment Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here

No graph is available

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Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stevens* _____
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Hydro Safety Minor Blanket

ER No: ER Name:

6001 Hydro Generation Minor Blanket

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 225 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	151	-	-	18	-	-	18	-	-	18	-	-	18	81
2016	75	-	-	19	-	-	19	-	-	19	-	-	19	
2017	80	-	-	20	-	-	20	-	-	20	-	-	20	

Business Case Description:

Funds periodic capital purchases and projects to ensure public safety at hydro facilities, on and off water, in context of FERC regulatory and license requirements. Hydro Public Safety measures as described in the Federal Energy Regulation Commission (FERC) publication “Guidelines for Public Safety at Hydropower Projects” and as documented in Avista’s Hydro Public Safety Plans for each of its hydro facilities.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Hydro Safety Minor Blanket		Assessments:			
Requested Amount	\$65,000		Financial:	MH - >= 9% & <12% CIRR		
Duration/Timeframe	Lifetime Year Program		Strategic:	Other		
Dept., Area:	Environmental		Operational:	Operations require execution to perform at current levels		
Owner:	Michele Drake (Coor); Bruce Howard (Dir)		Business Risk:	ERM Reduction >10 and <= 15		
Sponsor:	Marian Durkin		Program Risk:	Moderate certainty around cost, schedule and resources		
Category:	Mandatory		Assessment Score:	160		
Mandate/Reg. Reference:	FERC Hydro Public Safety Guidelines		Annual Cost Summary - Increase/(Decrease)			
Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score	
Funds periodic capital purchases and projects to ensure public safety at hydro facilities, on and off water, in context of FERC regulatory and license requirements	n/a	\$ 65,000	\$ -	\$ -	4	
Annual Cost Summary - Increase/(Decrease)						
Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score	
Alternative 1: Funded	n/a	\$ 65,000	\$ -	\$ -	20	
Funding of this program reduces liability risk and improves public safety on and near the Hydro Facilities. These requirements come from Federal Law and are referenced as part of our hydro licenses from FERC.						
Alternative 2: Unfunded		\$ -	\$ -	from moderate to extreme	4	
Potential compliance issues and possible fines imposed. Potential for loss of life or injury and increased legal litigation associated with recreational liability.						

Program Cash Flows					Associated ERS (list all applicable):			
5 years of costs					Current ER	6001		
	Capital Cost	O&M Cost	Other Costs	Approved				
Previous	\$ -	\$ -	\$ -	\$ -				
2012		\$ -	\$ -	\$ 35,000				
2013		\$ -	\$ -	\$ 5,000				
2014	\$ 65,000	\$ -	\$ -	\$ 88,000				
2015	\$ 70,000	\$ -	\$ -	\$ 70,000				
2016	\$ 75,000	\$ -	\$ -	\$ 75,000				
2017	\$ 80,000	\$ -	\$ -	\$ 80,000				
2018	\$ 80,000	\$ -	\$ -	\$ 80,000				
2019	\$ -	\$ -	\$ -	\$ 80,000				
Total	\$ 370,000	\$ -	\$ -	\$ 513,000				

Mandate Excerpt (if applicable):
 Section 10© of the Federal Power Act authorizes the FERC to establish regulations requiring owners of hydro projects under its jurisdiction to operate and properly maintain such projects for the protection of life, health and property. Title 18, Part 12, Section 42 of the Code of Federal Regulations states that, "To the satisfaction of, and within a time specified by the Regional Engineer an applicant, or licensee must install, operate and maintain any signs, lights, sirens, barriers or other safety devices that may reasonably be necessary."

Additional Justifications:
 Hydro Public Safety measures as described in the Federal Energy Regulation Commission (FERC) publication "Guidelines for Public Safety at Hydropower Projects" and as documented in Avista's Hydro Public Safety Plans for each of its hydro facilities.

Resources Requirements: (request forms and approvals attached)

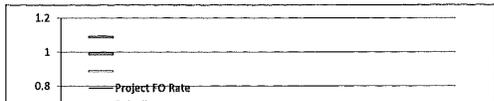
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	

Key Performance Indicator(s)
 Expected Performance Improvements

KPI Measure: FERC's Annual Dam Safety Inspections, Public Use Inspection (conducted approximately once every five years) and review & approval of Avista's submittals.

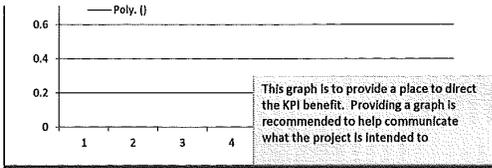
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Capital Program Business Case



Director/Manager

Other Party Review signature (if necessary) *Margi Stevens* Director/Manager

Capital Budget Projections

	2014	2015	2016	2017	2018	
ER 6001	65,000	70,000	75,000	80,000	80,000	Dam Safety anticipated need for safety equipment
H04	65,000	70,000	75,000	80,000	80,000	
ER 7108	265,000	195,000	125,000	125,000	125,000	Franchising / Permit Renewals assume 40 year Railroad permit renewals on existing substations & equipment on the John Wayne Pioneer Trail

HED	Year	Description	Est Cost
Cabinet Gorge	2014	K-rated gate at main entrance, S. entrance, and overlook entrance (all equipped with intercom, card swipe, and CCTV)	\$65,000
Noxon Rapids	2015	K-rated gate at main entrance, S. entrance, and near substation (all equipped with intercom, card swipe, and CCTV)	\$70,000
Long Lake	2016	K-rated gate at main entrance (equipped with intercom, card swipe, and CCTV)	\$25,000
Nine Mile	2016	K-rated gate at main entrance (equipped with intercom, card swipe, and CCTV)	\$25,000
Post Falls	2016	K-rated gate at main entrance (equipped with intercom, card swipe, and CCTV)	\$25,000
Long Lake	2017	Down Stream Warning System	\$80,000
Nine Mile	2018	Down Stream Warning System	\$80,000

To be completed by Capital Planning Group	
Rationale for decision	Review Cycles 2012-2016



Capital Program Business Case

	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Little Falls Plant Upgrade

ER No: ER Name:

4152 Little Falls Powerhouse Redevelopment

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 27,000 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	14,300	-	-	3,800	-	-	-	10,500	-	-	-	-	-
2016	9,000	-	-	-	9,000	-	-	-	-	-	-	-	-
2017	10,000	-	-	-	10,000	-	-	-	-	-	-	-	-

Business Case Description:

The existing Little Falls equipment ranges in age from 60 to more than 100 years old. The Company has experienced an increase in forced outages at Little Falls over the past six years has significantly increased (from approximately 20 hours in 2004 to several hundred hours in the past three to four years) due to equipment failures on a number of different pieces of equipment. This project will replace nearly all of the old, unreliable equipment with new. This includes replacing two of the turbines, all four generators, all generator breakers, three of the four governors, all of the automatic voltage regulators, removing all four generator exciters, replacing the unit controls, changing the switchyard configuration, replacing the unit protection system, and replacing and modernizing the station service.

Offsets:

The attached business case shows O&M Offsets of \$20,000. It was determined that these savings are related to employee labor that will be redistributed to other projects and does not result in an overall labor savings.

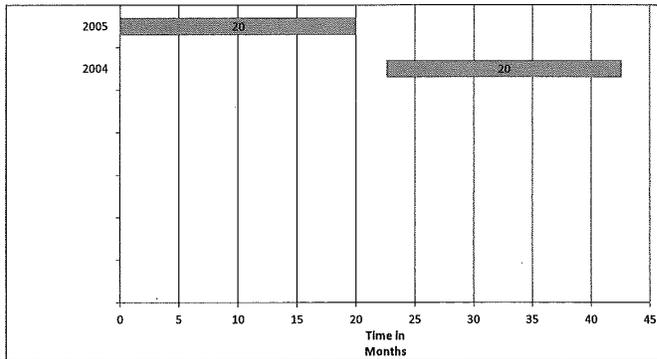
¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Little Falls Plant Upgrade (Revised)	Assessments:				
Requested Amount	\$56,100,000	Financial:	MH - >= 9% & <12% CIRR			
Duration/Timeframe	8 Year Project	Strategic:	Generating Fleet Modernization			
Dept., Area:	GPSS	Operational:	Operations improved beyond current levels			
Owner:	Andy Vickers	Business Risk:	ERM Reduction >5 and <= 10			
Sponsor:	Jason Thackston	Project/Program Risk:	High certainty around cost, schedule and resources			
Category:	Project	Assessment Score:	104.5			
Mandate/Reg. Reference:	n/a	Cost Summary - Increase/(Decrease)				
Recommend Project Description:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
The existing Little Falls equipment ranges in age from 60 to more than 100 years old. We have experienced an increase in forced outages at Little Falls over the past six years has significantly increased (from ~20 hours in 2004 to several hundred hours in the past three to four years) due to equipment failures on a number of different pieces of equipment. This project will nearly all of the old, unreliable equipment with new. This includes replacing two of the turbines, all four generators, all generator breakers, three of the four governors, all of the AVR's, removing all four generator excitors, replacing the unit controls, changing the switchyard configuration, replacing the unit protection system, and replace		there would be some performance improvement	\$ 56,100,000	\$ (20,000)	\$ -	3
		Cost Summary - Increase/(Decrease)				
Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo :	Forced outages and emergency repairs would continue to increase, reducing the reliability of the plant. At some point, personnel may need to be placed back in the plant.	n/a	\$ -	\$ 20,000	\$ 150,000	12
Alternative 1: Brief name of alternative (if applicable)	This would replace the two items that are currently in the worst condition, and then continue to use the older equipment. This continues to rely on this older equipment for reliability purposes. This would only minimally improve Force Outage rate for the plant.	Major personnel safety would be addressed	\$ 5,000,000	\$ 20,000	\$ -	9
Alternative 2: Brief name of alternative (if applicable)	This would replace the major cost items, but the station service reliability would continue to cause an increasing unplanned outages. However, the replacement and down time costs would be much less	Would reduce the outage times	\$ 51,000,000	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Timeline



Construction Cash Flows (CWIP)

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 1,800,000	\$ -	\$ -	\$ 1,800,000
2012	\$ 3,200,000	\$ -	\$ -	\$ 2,000,000
2013	\$ 6,500,000	\$ -	\$ -	\$ 5,000,000
2014	\$ 9,400,000	\$ -	\$ -	\$ 9,500,000
2015	\$ 8,800,000	\$ -	\$ -	\$ 8,800,000
2016	\$ 9,400,000	\$ -	\$ -	\$ 9,400,000
2017	\$ 8,800,000	\$ -	\$ -	\$ 8,800,000
2018	\$ 6,200,000	\$ -	\$ -	\$ 6,200,000
2019	\$ -	\$ -	\$ -	\$ -
Future	\$ 2,000,000	\$ -	\$ -	\$ -
Total	\$ 56,100,000	\$ -	\$ -	\$ 51,500,000

Milestones (high level targets)						
October-10	Project Started	March-14	Control Room Installed	July-15	Second Unit OOS	
July-12	AVR/Breaker Replacement	June-14	Control Panels Installed	March-16	Second Unit RTS	
February-12	AVR/Breaker Work Complete	June-14	Switchyard Work Complete	July-16	Third Unit OOS	
July-13	Demolition Complete	July-14	First Unit Out of Service (OOS)	March-17	Third Unit RTS	
January-14	Station Service Complete	March-15	First Unit Returned to Service (R)	7/1/17	Fourth Unit OOS	

Associated Ers (list all applicable):	4102					
	4103					
Mandate Excerpt (if applicable):	This is not a mandated item.					

Additional Justifications:
 Because of the age and condition of all of the equipment of the plant, all of the equipment has been qualified as obsolete in accordance with the obsolescence criteria tool. The Asset Management tool has been applied to Little Falls and also supports this project. The Asset Management studies that have been done to date are still subject to further refinements, but the general conclusions support this project. There are many items in this 100 year old facility which do not meet modern design standards, codes, and expectations. This project will bring Little Falls to a place where it can be relied on for another 50 to 100 years. Finally, this project will need to be worked in coordination with our Indian Relations group as the Little Falls project is part of a settlement agreement with the Spokane Tribe.

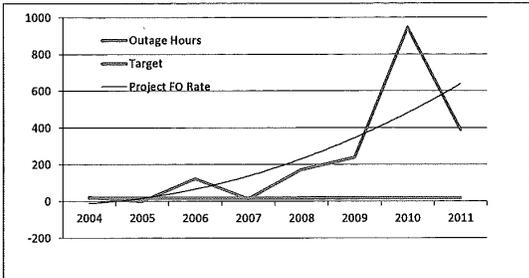


Capital Investment Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

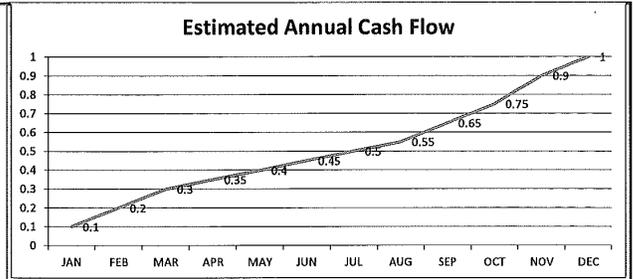
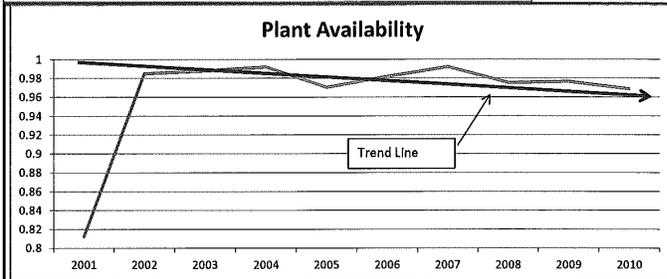
Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure: Forced Outage Hours



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Reviewed signature Director/Manager

Other Party Review signature Director/Manager
 (if necessary) *Margie Stearns*



Revision: 2013 Business Case: This project business case is being revised and is requesting additional amounts for the 2013 budget year. The reason for this request is that originally some of the station service and switchyard work was contemplated to be done in future years but with better project planning, we have now determined that we must get a new station service and panel room installed before we start work on the generating units themselves. This results in shifting the unit upgrade work an additional year.

Another consideration is that some of the major cost components (i.e. turbine runners, generator stators, governors) will not be bid and procured for a year or so. The actual expected costs could change considerably as we begin to pin down costs of these major items and better determine a more comprehensive scope of work.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Nine Mile Hydroelectric Development Rehabilitation & Modernization

ER No: 4140 **ER Name:** Nine Mile Redevelopment

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 34,502¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	56,567	-	-	-	-	2,000	-	-	-	1,000	-	-	48,323	5,244
2016	9,871	519	79	83	76	79	1	-	34	-	-	-	9,000	
2017	858	-	-	-	-	-	-	-	-	-	-	-	858	

Business Case Description:

This program is to rehabilitate and modernize the 4 unit Nine Mile Hydroelectric Development. This program includes projects to replace Units 1 and 2, which are more than 100 years old. In addition, a new warehouse will be constructed, new tail race gate system will be added, new grounding and communications will be added, a barge landing will be added, a cottage will be removed and another remodeled, a new panel room will be added, Units 3 & 4 will be overhauled and modernized, the powerhouse will be restored, a new access gates and controls will be added and other improvements will be made.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	Nine Mile Rehab Program	Assessments:	
Requested Amount	\$90,913,000	Financial:	14.00%
Duration/Timeframe	8 Year Project	Strategic:	Generating Plant Modernization
Dept., Area:	GPSS	Business Risk:	Business Risk Reduction >10 and <= 15
Owner:	Andy Vickers	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Jason Thackston		
Category:	Project		
Mandate/Reg. Reference:	n/a	Assessment Score:	112

Recommend Project Description: This program is to rehabilitate and modernize the 4 unit Nine Mile HED. This program includes projects to replace Units 1 and 2 which are more than 100 years old and are wore out. In addition, a new warehouse will be constructed, new tail race gate system will be added, new grounding and communications will be added, a barge landing will be added, a cottage will be removed and another remodeled, a new panel room will be added, Units 3 & 4 will be overhauled and modernized, the powerhouse will be restored, a new access gates and controls will be added and other improvements will be made.	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
	increase capacity, energy, and renewable credits. (REC's)	\$ 90,913,000	\$ -	\$ -	4

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	Currently both Units 1 and 2 are tagged out of service due to them being mechanically wore out. A FERC license amendment has been received to replace these units.	n/a	\$ -	\$ -	\$ -	16
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):
	Capital Cost	O&M Cost	Other Costs	Approved	
Previous	\$ 10,612,838	\$ -	\$ -	\$ 10,612,838	
2013	\$ 15,379,000	\$ -	\$ -	\$ 11,399,000	
2014	\$ 21,505,000	\$ -	\$ -	\$ 26,700,000	
2015	\$ 10,193,000	\$ -	\$ -	\$ 21,076,917	
2016	\$ 6,000,000	\$ -	\$ -	\$ 8,523,178	
2017	\$ 13,315,000	\$ -	\$ -	\$ 4,901,639	
2018				\$ 5,348,169	
2019				\$ 998,590	
Total	\$ 66,392,000	\$ -	\$ -	\$ 78,947,493	

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
4140	\$ 15,379,000	\$ 21,505,000	\$ 10,193,000	\$ 6,000,000	\$ 13,315,000	\$ 66,392,000	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Additional Justifications: Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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Total	\$ 15,379,000	\$ 21,505,000	\$ 10,193,000	\$ 6,000,000	\$ 13,315,000	\$ 66,392,000	

Milestones (high level targets)						
January-00	open	January-00	open	January-00	open	Milestones should be general. Use your judgement on project progress so that progress can
January-00	open	January-00	open	January-00	open	
January-00	open	January-00	open	January-00	open	
January-00	open	January-00	open	January-00	open	
January-00	open	January-00	open	January-00	open	
January-00	open	January-00	open	January-00	open	

Resources Requirements: (request forms and approvals attached)



Capital Project Business Case

Contract Labor:

YES

NO

Facilities:

YES - attach form

YES - attach form

NO or Not Required

Fleet:

YES - attach form

NO or Not Required



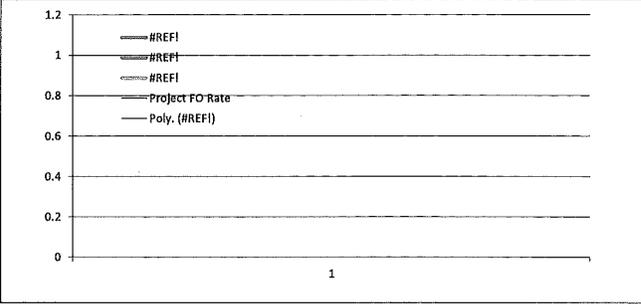
Capital Project Business Case

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here

Fill in the name of the KPI here



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Reviewed signature _____
Director/Manager

Other Party Review signature *Marnie Stevens* _____
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Project

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Regulating Hydro

ER No: 4148
ER Name: Regulating Hydro

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 10,599 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	5,186	-	-	-	-	-	-	-	-	-	-	-	4,136	1,050
2016	3,533	-	-	-	-	-	-	-	-	-	-	-	3,533	
2017	3,533	-	-	-	-	-	-	-	-	-	-	-	3,533	

Business Case Description:

This program is to cover the capital maintenance expenditures required to keep these plants operating at their current performance. The program will work to improve the reliability of these plants so that their value can be maximized in both the energy and ancillary markets. These plants are Long Lake, Little Falls, Noxon Rapids and Cabinet Gorge.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



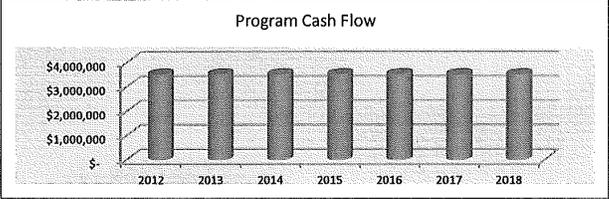
Capital Investment Business Case

Investment Name:	Regulating Hydro	Assessments:	
Requested Amount	\$3,500,000	Financial:	High - Exceeds 12% CIRR
Duration/Timeframe	20 Year Program	Strategic:	Generating Fleet Modernization
Dept., Area:	GPSS	Operational:	Operations improved beyond current levels
Owner:	Andy Vickers	Business Risk:	Business Risk Reduction >0 and <= 5
Sponsor:	Jason Thackston	Program Risk:	High certainty around cost, schedule and resources
Category:	Program	Assessment Score:	88
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:		Performance	Capital Cost
This program is to cover the capital maintenance expenditures required to keep these plants operating at their current performance. The program will work to improve the reliability of these plants so that their value can be maximized in both the energy and ancillary markets. These plants are LL, LF, NR, CG.		describe any incremental changes that this Program would benefit present operations	\$ 3,500,000
			O&M Cost
			\$ -
			Other Costs
			\$ -
			Business Risk Score
			10

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo :	Current work has been done to achieve a relatively high availability rate for this group of assets. Work has been prioritized according to equipment needs.	n/a	\$ 1,890,000	\$ -	\$ -	15
Alternative 1: Brief name of alternative (if applicable)	We could reduce spending to reduced levels for small decrease in overall availability but reducing ancillary services from plant (i.e. no Cabinet reserves, load following services, etc.)	describe any incremental changes in operations	\$ 2,200,000	\$ -	\$ -	15
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows				
2012-2016				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 1,890,000	\$ -	\$ -	\$ 1,890,000
2012	\$ 3,500,000	\$ -	\$ -	\$ 2,533,000
2013	\$ 3,500,000	\$ -	\$ -	\$ 2,233,000
2014	\$ 3,500,000	\$ -	\$ -	\$ 2,833,000
2015	\$ 3,500,000	\$ -	\$ -	\$ 3,533,000
2016	\$ 3,500,000	\$ -	\$ -	\$ 3,533,000
2017	\$ 3,500,000	\$ -	\$ -	\$ 3,533,000
2018	\$ 3,500,000	\$ -	\$ -	\$ 3,533,000
2019	\$ -	\$ -	\$ -	\$ 3,533,000
Future	\$ 3,500,000	\$ -	\$ -	\$ -
Total	\$ 29,890,000	\$ -	\$ -	\$ 27,154,000

Associated Ers (list all applicable):	
4000	4102
4003	4103
4004	4105
4100	



Mandate Excerpt (if applicable):
 Within this program, there are some FERC and NERC mandated items that are included. These are expected to be managed as part of the overall program and are not considered as individual items here.

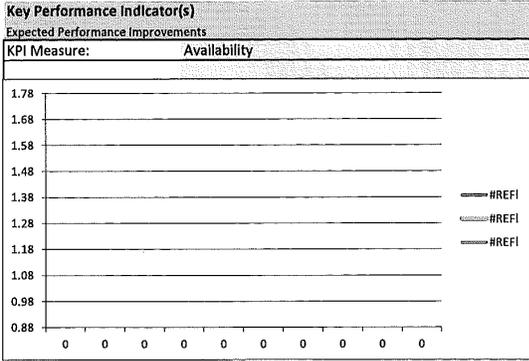
Additional Justifications:
 The magnitude of the value of this program is not evident with the scoring system used. The CIRR calculated for this program is 54.07% for each reduction of 1% in availability. Sustaining this program is very important for this class of assets. While the purpose of this program is to sustain our current level of unit availability for these plants, individually, we have been experiencing a decline in the availability of Little Falls due to aging equipment and failures of that equipment. This is being addressed in a separate project request. Additionally, efforts will be made within this program to improve what is commonly referred to as the ancillary services from these generating assets. This include installing blow down systems to allow for spinning reserves, moving load following demands to all of these plants, voltage regulating needs, etc. This will also include some elements of hydro license compliance as related to plant operations and equipment.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required



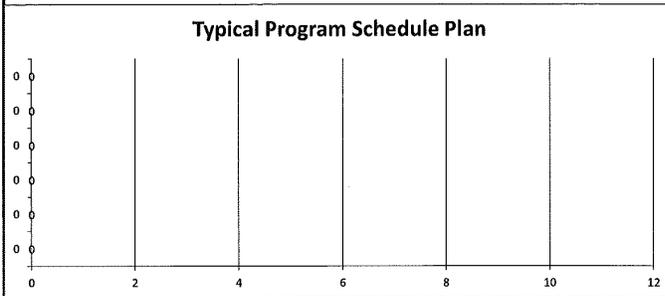
Capital Investment Business Case



Prepared signature _____

Reviewed signature _____
 Director/Manager

Other Party Review signature *Margi Stevens* _____
 (if necessary) Director/Manager



To be completed by Capital Planning Group		Review Cycles 2012-2016	
Rationale for decision	Date	Template	

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Spokane River License Implementation

ER No: ER Name:

6107 Spokane River Implementation (PM&E)

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 15,477 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	1,266	39	39	39	39	39	39	39	39	39	39	39	38	805
2016	397	36	36	36	36	36	36	36	36	36	36	37	-	
2017	17,018	43	43	43	43	43	43	43	43	43	43	43	16,544	

Business Case Description:

The Spokane River Project capital projects fulfill FERC’s license requirements related to wetlands, water quality, recreation, and land use improvements that will lead to improvements located at Nine Mile, and Lake Spokane (the Long Lake Dam reservoir). The water quality improvements and wetland acquisition and/or enhancements are mandatory conditions included in the License as part of the Washington and Idaho 401 Water Quality Certifications, whereas the recreation and land use projects are FERC’s License requirements. This year we will continue modeling a number of potential total dissolved gas remedies for Long Lake Dam, and monitoring low dissolved oxygen (DO) in the tailrace below the dam to determine if the aeration equipment we installed in previous years will sufficiently meet the State’s water quality standards. We are also installing additional aeration equipment in the Long Lake Powerhouse to further improve DO in the tailrace. We completed the channel modifications at Upper Falls last fall, which were approved by the Washington Department of Ecology. We will work to complete the required Nine Mile and Lake Spokane recreation projects during this year’s construction season.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name: Spokane River License Implementation		Assessments:			
Requested Amount: \$2,902,000		Financial: 12.00%			
Duration/Timeframe: 50 Year Program		Strategic: Community vitality			
Dept., Area: Environmental		Business Risk: Business Risk Reduction >10 and <= 15			
Owner: Elvin "Speed" Fitzhugh (Mgr); Bruce Howard (Dir)		Program Risk: Moderate certainty around cost, schedule and resources			
Sponsor: Marian Durkin		Assessment Score: 179			
Mandate/Reg. Reference: FERC Project No 2545-091		Annual Cost Summary - Increase/(Decrease)			
Recommend Program Description:		Capital Cost	O&M Cost	Other Costs	Business Risk Score
Implementation of Protection, Mitigation and Enhancement (PM&E) programs related to the FERC License for Project 2545. Includes items enforceable by FERC, mandatory conditioning agencies, and through settlement agreements		\$ 2,902,000	\$ -	\$ -	8
Alternatives:		Annual Cost Summary - Increase/(Decrease)			Business Risk Score
Unfunded Program:		Capital Cost	O&M Cost	Other Costs	Business Risk Score
We are subject to License enforcement directly from the Federal Energy Regulatory Commission, independent enforcement of certain measures by federal and state agencies under their delegated authorities, and third-party claims by those with whom we entered settlement agreements. We are also subject to citizen lawsuits in certain settings for non-compliance. If the license conditions are not funded, there is the potential for penalties, extensive legal costs, alternative mitigation costs, and/or loss of operation flexibility of the hydro facilities, or the loss of a license to operate in extreme cases.		\$ -	\$ -	\$ -	20
		\$ -	\$ -	\$ -	8
		\$ -	\$ -	\$ -	0
		\$ -	\$ -	\$ -	0

Associated Ers (list all applicable):

6107

Program Cash Flows				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 3,192,000	\$ -		\$ 3,192,000
2014	\$ 2,902,000	\$ 4,315,492		\$ 2,232,000



Capital Program Business Case

Internal Labor Availability: Low Probability YES
Contract Labor: Medium Probability High Probability NO

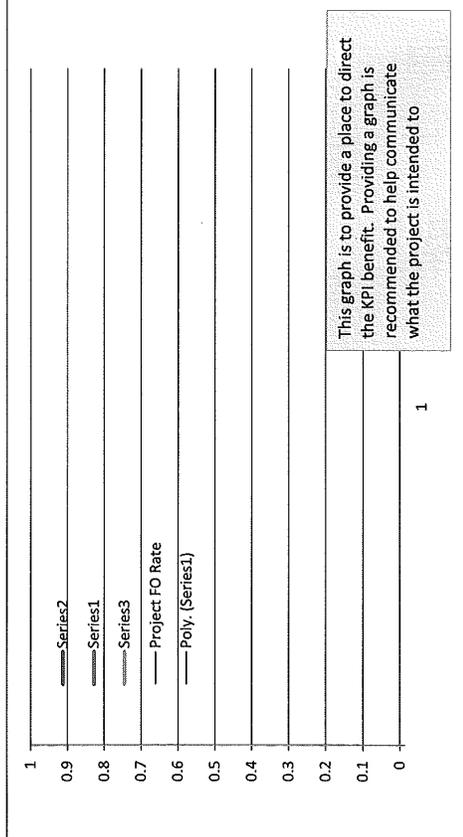
Enterprise Tech: YES - attach form NO or Not Required
Facilities: YES - attach form NO or Not Required
Capital Tools: YES - attach form NO or Not Required
Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internet and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here
Fill in the name of the KPI here



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Reviewed signature Director/Manager

Other Party Review signature Director/Manager
(if necessary) *Margi Stevens*

The Spokane River License is also subject to specified protection, mitigation and enhancement activities and mandatory conditions by the Idaho Department of Environmental Quality (401 Water Quality Certification, issued June 5, 2008), the Washington Department of Ecology (401 Certification, issued on May 8, 2009), the US Forest Service (Federal Power Act 4(e), issued May 4, 2007), the US Department of Interior (Federal Power Act 4(e), issued January 27, 2009), and articles set forth in Form L-1 (entitled "Terms and Conditions of License for Constructed Major Project Affecting Lands of the United States").

To be completed by Capital Planning Group
Rationale for decision

Review Cycles

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Base Load Thermal Plant

ER No: 4149 **ER Name:** Base Load Thermal

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 6,600 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	2,200	-	-	-	-	-	-	2,200	-	-	-	-	-
2016	2,200	-	-	-	-	-	-	2,200	-	-	-	-	-
2017	2,201	-	-	-	-	-	-	2,201	-	-	-	-	-

Business Case Description:

This program is necessary to sustain or improve the existing operating costs of Coyote Springs 2, Colstrip, and Kettle Falls. Work includes replacement of items identified through asset management decisions and programs necessary to maintain reliable and low operating costs of these plants. As this program proceeds, it is expected that forced outage rates and forced de-rates of these facilities will decrease to a level one standard deviation less than current average.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Base Load Thermal Plant	Assessments:	
Requested Amount	\$6,500,000	Financial:	High - Exceeds 12% CIRR
Duration/Timeframe	Ongoing Year Program	Strategic:	Generating Fleet Modernization
Dept., Area:	GPSS / Power Supply	Operational:	Operations require execution to perform at current levels
Owner:	Andy Vickers	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Jason Thackston	Program Risk:	High certainty around cost, schedule and resources
Category:	Program	Assessment Score:	94
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:		Performance	Capital Cost
This program is necessary to sustain or improve the existing operating costs of these major Base Load generating stations. This program is specifically for Coyote Springs 2, Colstrip, Kettle Falls, and Lancaster. Work includes replacement of items identified through asset management decisions and programs necessary to maintain reliable and low operating costs of these plants. As this program proceeds, it is expected that forced outage rates and forced derates of these facilities will decrease to a level one standard deviation less than current average resulting in more economic benefits of the project.		This will improve the forced outage rate for these plants by an overall 0.1%	\$ 2,200,000
			O&M Cost
			Other Costs
			Business Risk Score
			8

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo :	These plants continue to age and their economic performance has degraded over time. These degrades have been offset with work that is included in a program like this. Currently, each plant is managed independent of the other,	n/a	\$ -	\$ -	\$ -	15
Alternative 1: Brief name of alternative (if applicable)	The program can be reduced in amount and effectiveness in accomplishing the goal	current trend would be reduced.	\$ 5,500,000	\$ -	\$ -	10
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
2012-2016					Current ER	4148			
	Capital Cost	O&M Cost	Other Costs	Approved					
Previous	\$ 6,520,910	\$ -	\$ -	\$ 6,520,910					
2012	\$ 6,500,000	\$ -	\$ -	\$ 6,877,000					
2013	\$ 6,500,000	\$ -	\$ -	\$ 7,500,000					
2014	\$ 6,500,000	\$ -	\$ -	\$ 2,300,000					
2015	\$ 6,500,000	\$ -	\$ -	\$ 2,200,000					
2016	\$ 6,500,000	\$ -	\$ -	\$ 2,200,000					
2017	\$ 6,500,000	\$ -	\$ -	\$ 2,200,000					
2018	\$ 6,500,000	\$ -	\$ -	\$ 2,200,000					
2019	\$ -	\$ -	\$ -	\$ 2,200,000					
Future	\$ 6,500,000	\$ -	\$ -	\$ -					
Total	\$ 58,520,910	\$ -	\$ -	\$ 34,197,910					

Mandate Excerpt (if applicable):
 Within the program there are a number of regulatory mandates for air emissions and monitoring that must be complied with. In addition there numerous NERC requirements that must be met. These mandates are included within the amount listed above.

Additional Justifications:
 As these plants degrade, we expose ourselves to an increasing forced outage rates and must acquire replacement energy and capacity from the market. This can leave use with significant exposure for shareholders in a particular year.

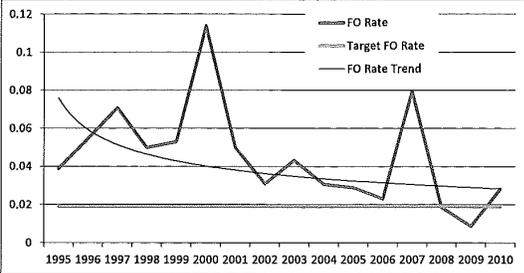
Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability Enterprise Tech: YES - attach form NO or Not Required
 Contract Labor: YES NO Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required



Capital Investment Business Case

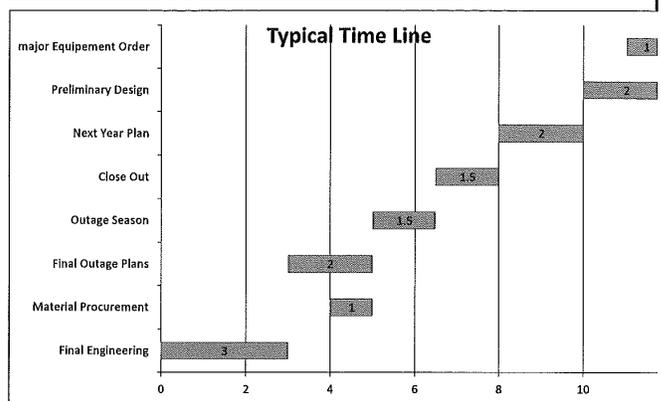
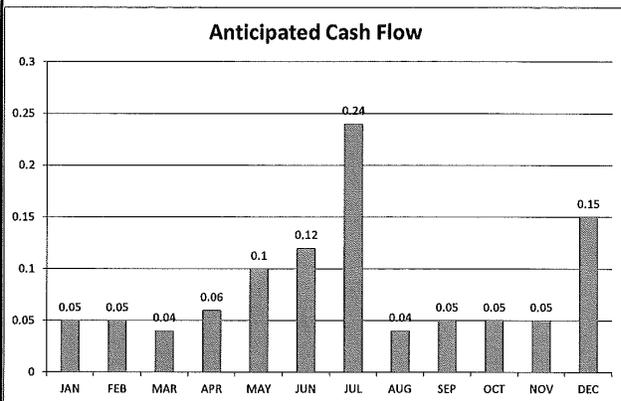
Key Performance Indicator(s)
Expected Performance Improvements
KPI Measure: Forced Outage Rate



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Reviewed signature Director/Manager

Other Party Review signature *Margi Stevens* Director/Manager
 (if necessary)



To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Peaking Generation

ER No: 4150
ER Name: Peaking Generation

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,500 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	501	-	-	-	-	-	-	500	-	-	-	-	-	1
2016	500	-	-	-	-	-	-	500	-	-	-	-	-	
2017	500	-	-	-	-	-	-	500	-	-	-	-	-	

Business Case Description:

This program is to cover the capital maintenance expenditures required to keep the gas fired peaking units (Boulder Park, Rathdrum and Northeast Combustion Turbine) operating at or above their current performance. The program will focus on maximizing ability of these units to start and run when demanded (starting reliability).

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Peaking Generation
Requested Amount	\$ 500,000
Duration/Timeframe	10 Year Program
Dept., Area:	GPSS
Owner:	Andy Vickers
Sponsor:	Jason Thackston
Category:	Program
Mandate/Reg. Reference:	n/a

Assessments:
 Financial: 12.53%
 Strategic: Generating plant performance
 Business Risk: Business Risk Reduction >5 and <= 10
 Program Risk: High certainty around cost, schedule and resources

Assessment Score: 93

Recommend Program Description:

This program is to cover the capital maintenance expenditures required to keep the gas fired peaking units operating at or above their current performance. The program will focus on maximizing ability of these units to start and run when demanded (starting reliability). These plants include BP, RCT, NECT.

	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Capital Cost	O&M Cost	Other Costs	
Performance	\$ 500,000	\$ -	\$ -	6
Performance	By expending these funds, the start reliability for these assets will be improved.			
Alternatives:				
Unfunded Program:	Capital Cost	O&M Cost	Other Costs	Business Risk Score
The overall reliability of all of these assets will decline, resulting in non-starts, non-compliant emissions, and inoperable resources	\$ -	\$ -	\$ -	16
<i>Alternative 1: Brief name of alternative (if applicable)</i>	\$ -	\$ -	\$ -	6
<i>Alternative 2: Brief name of alternative (if applicable)</i>	\$ -	\$ -	\$ -	0
<i>Alternative 3 Name : Brief name of alternative (if applicable)</i>	\$ -	\$ -	\$ -	0

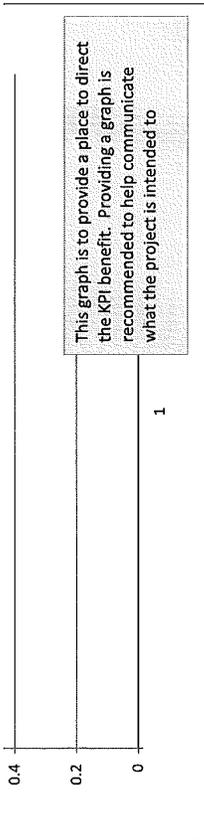
Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 500,000	\$ -	\$ -	\$ 200,000
2015	\$ 500,000	\$ -	\$ -	\$ 500,000
2016	\$ 500,000	\$ -	\$ -	\$ 500,000
2017	\$ 500,000	\$ -	\$ -	\$ 500,000
2018	\$ 500,000	\$ -	\$ -	\$ 500,000
2019	\$ 500,000	\$ -	\$ -	\$ 500,000

Associated Ers (list all applicable):



Capital Program Business Case



(if necessary) _____ Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision

Review Cycles

2012-2016



Capital Program Business Case

Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Kettle Falls Generating Facility (“KFGS”) Water Supply

ER No: ER Name:

4151 Kettle Falls Develop New River Wells

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 0 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	1,529	-	-	-	-	-	-	-	-	-	-	-	-	1,529
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	
2017	-	-	-	-	-	-	-	-	-	-	-	-	-	

Business Case Description:

KFGS receives its water from the City of Kettle Falls from an agreement that dates back to the construction of the plant in the early 1980's. That agreement will expire next year and future rates will be higher, affecting the costs of the plant. This effort is to secure necessary water rights and a long-term water supply for the plant that is controlled by the Company.

Offsets:

From the time the plant went into service, water supply for the plant has come from the City of Kettle Falls. When completed, this project will allow us to move off the City water system as we will have our own water supply. This will reduce the amount we pay for water, resulting in an offset. We estimate that the net savings in 2015 will be \$19,000 on a total system basis, with \$6,705 allocated to Idaho.

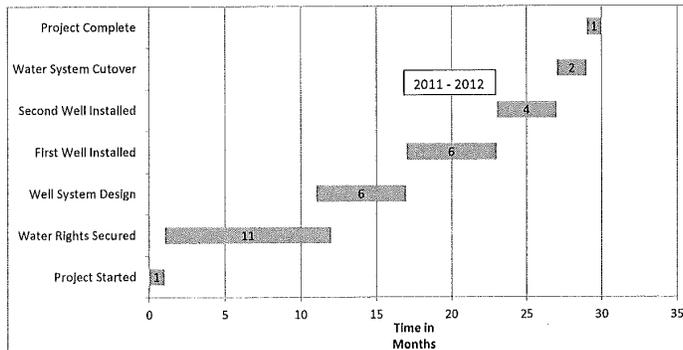
¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Kettle Falls Water Supply	Assessments:				
Requested Amount	\$1,500,000	Financial:	Medium - >= 5% & <9% CIRR			
Duration/Timeframe	1 Year Project	Strategic:	Reliability & Capacity			
Dept., Area:	GPSS	Operational:	Operations require execution to perform at current levels			
Owner:	Andy Vickers	Business Risk:	ERM Reduction >5 and <= 10			
Sponsor:	Jason Thackston	Project/Program Risk:	High certainty around cost, schedule and resources			
Category:	Project	Assessment Score:	84	Cost Summary - Increase/(Decrease)		
Mandate/Reg. Reference:	n/a	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Recommend Project Description:	KFGS receives its water from the City of Kettle Falls from an agreement that dates back to the construction of the plant in the early 1980's. That agreement will expire next year and future rates will be higher - impacting the costs of the plant. This effort is to secure necessary water rights and a long term water supply for the plant that is controlled by the company.	This will not affect current plant performance	\$ 850,000	\$ (18,750)	\$ -	0
Alternatives:			Cost Summary - Increase/(Decrease)			
Status Quo :	This is not an option, the agreement will expire next year so either a higher rate will result or a new source will need to be developed.	n/a	\$ -	\$ 18,750	\$ -	0
Alternative 1: Brief name of alternative (if applicable)	This project is to develop a two pump system so that if a pump fails, we would still have water to operate the plant. We could eliminate this pump and risk a forced outage on a water pump failure.	increases risk of a forced outage	\$ 1,700,000	\$ (18,750)	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Timeline



Construction Cash Flows (CWIP)

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 151,837	\$ -	\$ -	\$ 151,837
2012	\$ 1,500,000	\$ -	\$ -	\$ 1,500,000
2013	\$ 600,000	\$ -	\$ -	\$ 460,000
2014	\$ -	\$ -	\$ -	\$ 1,050,000
2015	\$ -	\$ -	\$ -	\$ -
2016	\$ -	\$ -	\$ -	\$ -
2017	\$ -	\$ -	\$ -	\$ -
2018	\$ -	\$ -	\$ -	\$ -
Future	\$ -	\$ -	\$ -	\$ -
Total	\$ 2,251,837	\$ -	\$ -	\$ 3,161,837

Milestones (high level targets)

September-09	Project Started	July-12	Water System Cutover
October-10	Water Rights Secured	August-12	Project Complete
June-11	Well System Design		
March-12	First Well Installed		
June-12	Second Well Installed		

Associated Ers (list all applicable):

4151					
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Mandate Excerpt (if applicable):

n/a

Additional Justifications:

Water rights have been procured but are currently being carried in suspense on this project. \$800,000 of the \$1,500,000 are in this account. Work to develop the first well was begun in 2011 and continues through the first quarter of 2012. In addition, this item includes an estimated \$300,000 to procure additional water rights to guarantee adequate water for the future. Actual cash expected for 2012 is \$700,000

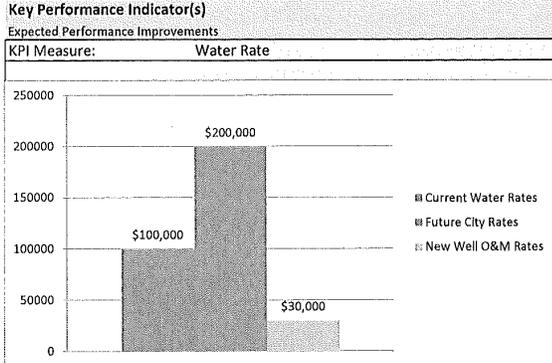


Capital Investment Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required



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Reviewed signature _____
 Director/Manager

Other Party Review signature *Margie Stevens* _____
 (if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the project

To be completed by Capital Planning Group		Review Cycles		
Rationale for decision	2012-2016			
	Date	Template		

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Colstrip Thermal Capital

ER No: 4116
ER Name: Colstrip Capital Additions

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 22,594 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	2,497	40	40	60	70	80	120	120	110	110	90	80	1,580
2016	10,480	352	352	529	617	2,373	1,057	1,057	969	969	793	705	705
2017	9,617	385	385	577	673	769	1,154	1,154	1,058	1,058	866	769	769

Business Case Description:

This program is for ongoing capital expenditures associated with normal outage activities on Units 3 & 4 at Colstrip. Every 2 out of 3 years we have outages at Colstrip with higher capital program activities. For non-outage years, the program activities are reduced. Avista votes its 15% share of Unit's 3 & 4 and its approximate 10% share of common facilities to approve or disapprove of the budget proposed by PPLM on behalf of all the owners. Individual projects are reviewed for appropriate rates of return and necessity.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Colstrip 3&4 Capital
Requested Amount	Estimated Total Capital Expenditure
Duration/Timeframe	5+ Year Program
Dept., Area:	Power Supply
Owner:	Scott Kinney
Sponsor:	Jason Thackston
Category:	Program
Mandate/Reg. Reference:	n/a

Assessments:
 Financial: 10.00%
 Strategic: None
 Business Risk: Business Risk Reduction - None
 Program Risk: Low certainty around cost, schedule and resources

Recommend Program Description:
 This program is for ongoing capital expenditures associated with normal outage activities on Units 3 & 4 at Colstrip. Every 2 out of 3 years we have outages at Colstrip with higher capital program activities. For non-outage years, the program activities are reduced. Avista votes its 15% share of Unit's 3 & 4 and its approximate 10% share of common facilities to approve or disapprove of the budget proposed by PPLM on behalf of all the owners. Individual projects are reviewed for appropriate rates of return and necessity.

29	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
	These programs are required for continued operation of units 3&4	\$ 7,420,000	\$ -	\$ -	0

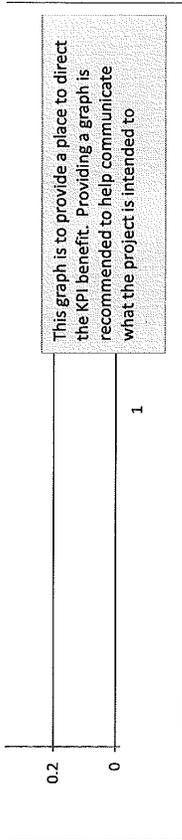
Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	n/a	\$ -	\$ -	\$ 50,000,000	0
Alternative 1: Brief name of alternative (if applicable)	Generally speaking, we can only vote our small share. We do not have the option of unilaterally rejecting the proposed capital projects. We would have to sell our portion of the plant to escape funding these projects.	\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0

Program Cash Flows	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 7,414,223	\$ -	\$ -	\$ 7,376,833
2015	\$ 3,176,850	\$ -	\$ -	\$ 4,121,100
2016	\$ 6,054,849	\$ -	\$ -	\$ 8,856,000
2017	\$ 7,486,699	\$ -	\$ -	\$ 9,616,800
2018	\$ 2,232,750	\$ -	\$ -	\$ 3,669,750
2019	\$ -	\$ -	\$ -	\$ 14,173,800

Associated Eris (list all applicable):	Capital Cost	O&M Cost	Other Costs
	4,116		
	7,130		



Capital Program Business Case



This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group
Rationale for decision

Review Cycles
2012-2016



Capital Program Business Case

Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Coyote Springs Long-Term Service Agreement (“LTSA”)

ER No: ER Name:

4143 CS2 LTSA Cash Accrual

4142 CS2 LTSA Cash Add

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 2,200¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	2,000	-	-	500	-	-	500	-	-	500	-	-	500
2017	730	-	-	183	-	-	183	-	-	183	-	-	183

Business Case Description:

This program is to cover the capital accruals required to execute our Long-Term Service Agreement (LTSA) with General Electric for Coyote Springs Unit 2. This is the same as the current LTSA item. This program will have fluctuations in expenditure to account for the variable operating hours and operating conditions that feed into the LTSA formula.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

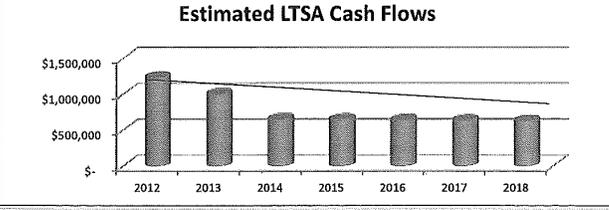


Capital Investment Business Case

Investment Name:	Coyote Springs LTSA	Assessments:	
Requested Amount	\$650,000	Financial:	High - Exceeds 12% CIRR
Duration/Timeframe	5+ Year Program	Strategic:	Life Cycle Programs
Dept., Area:	Power Supply	Operational:	Operations require execution to perform at current levels
Owner:	Thomas Dempsey/Scott Kinney	Business Risk:	ERM Reduction >0 and <= 5
Sponsor:	Jason Thackston	Program Risk:	High certainty around cost, schedule and resources
Category:	Program	Assessment Score:	89
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:		Performance	Capital Cost
This program is to cover the capital accruals required to execute our LTSA with GE for Coyote Springs Unit 2. This is the same as the current LTSA item. This program will have fluctuations to account for the variable operating hours and operating conditions that feed into the LTSA formula.		\$ 650,000	O&M Cost
			Other Costs
			Business Risk Score
			10

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo:	This is a contract with GE to provide the necessary services, parts, and labor to maintain the Frame 7EA gas turbine. This is the major component of the Coyote Springs Unit 2 combined cycle plant (CCCT).	n/a	\$ 650,000	\$ -	\$ -	15
Alternative 1: Brief name of alternative (if applicable)	none	n/a	\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
2012-2016					4143				
	Capital Cost	O&M Cost	Other Costs	Approved					
Previous	\$ 10,000	\$ -	\$ -	\$ 10,000					
2012	\$ 1,232,735	\$ -	\$ -	\$ 2,231,043					
2013	\$ 998,299	\$ -	\$ -	\$ 1,000,000					
2014	\$ 649,943	\$ -	\$ -	\$ 711,000					
2015	\$ 644,712	\$ -	\$ -	\$ 740,000					
2016	\$ 639,324	\$ -	\$ -	\$ 730,000					
2017	\$ 633,775	\$ -	\$ -	\$ 730,000					
2018	\$ 628,058	\$ -	\$ -	\$ 720,000					
2019	\$ -	\$ -	\$ -	\$ 710,000					
Future	\$ 2,451,565	\$ -	\$ -	\$ -					
Total	\$ 7,888,412	\$ -	\$ -	\$ 7,582,043					



Mandate Excerpt (if applicable):
n/a

Additional Justifications:
This LTSA is a contractual agreement between Avista and GE.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required



Capital Investment Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Unit Availability

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Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stevens* _____
(if necessary) Director/Manager

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Hydro – Noxon Spare Coils

ER No: ER Name:

4166 Noxon Rapids HED Spare Coils

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 660 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,350	-	-	-	-	1,350	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

This project is to replace the spare coils that were used last spring to repair the stator winding that failed for Unit 4. This item will procure 100 spare coils. These spares cover Units 1 through 4 (Unit 5 is different). Because we had spares on hand, we were able to return Unit 4 to normal service within 11 weeks. Without these spares, the unit would have been out for 9 months or more. Prices for coils supplied under emergency conditions would likely carry a 30% premium. This project does not include any installation, only replacing stock that we had previously.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

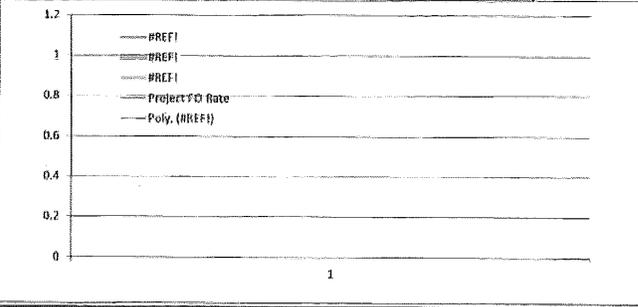


Capital Project Business Case

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



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Director/Manager

Reviewed signature [Signature]
Director/Manager

Other Party Review signature [Signature]
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Project

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Post Falls South Channel Gate Replacement

ER No: ER Name:

4162 PF S Channel Gate Replacement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,570 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	9,309	-	-	-	-	11,008	-	-	-	-	-	-	-	(1,699)
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	
2017	-	-	-	-	-	-	-	-	-	-	-	-	-	

Business Case Description:

Avista had planned to maintain the south channel gates to comply with FERC Dam Safety directives. When a pre-construction underwater investigation was done, it was discovered that the condition of the concrete structure was very poor and would not handle the planned work. This project includes an engineering investigation into options and project estimates. It is anticipated that much of the existing concrete structure will be removed and replaced with a new concrete structure, new gates and hoist systems to automate the operation.

Offsets:

The attached business case shows O&M Offsets of \$5,000 in 2015. After further discussion, it was determined that these savings are related to employee labor that will be redistributed to other projects and do not result in a reduction to overall labor expense.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Post Fall South Channel Replacement	Assessments:	
Requested Amount	Estimated Total Capital Expenditure	Financial:	0.00%
Duration/Timeframe	3 Year Project	Strategic:	Generating Plant Modernization
Dept., Area:	GPSS	Business Risk:	Business Risk Reduction >0 and <= 5
Owner:	Andy Vickers	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Jason Thackston		
Category:	Mandatory		
Mandate/Reg. Reference:	CFR Title 18, Chapter I, Subchapter B, Part 12	Assessment Score:	55
Recommend Project Description:	<p>Avista had planned to maintain the south channel gates to comply with FERC Dam Safety directives. When a pre-construction underwater investigation was done, it was discovered that the condition of the concrete structure was very poor and would not handle the planned work. This has resulted in an effort to evaluate options. This item includes an engineering investigation into options and project estimates. It is anticipated that much of the existing concrete structure will be removed and replaced with a new concrete structure, new gates and hoist systems to automate the operation.</p>		
	Performance	Capital Cost	O&M Cost
	Gate operations would be automated.	\$ 11,008,000	\$ (5,000)
			Other Costs
			Business Risk Score
			5

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	We are currently under a FERC Dam Safety directive to correct problems on the existing gates and structure. We have deferred these costs for several years and are in the process of requesting additional delays of mandated work.	n/a	\$ -	\$ -	\$ -	20
Alternative 1: Brief name of alternative (if applicable)	At the time this case is being submitted, no alternatives are known.	describe any incremental changes in operations	\$ -	\$ -	\$ -	5
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 63,830	\$ -	\$ -	\$ 63,830
2013	\$ 950,000	\$ -	\$ -	\$ 1,119,000
2014	\$ 1,920,000	\$ -	\$ -	\$ 6,444,000
2015	\$ -	\$ -	\$ -	\$ 1,570,000
2016	\$ -	\$ -	\$ -	\$ -
2017	\$ -	\$ -	\$ -	\$ -
Total	\$ 2,870,000	\$ -	\$ -	\$ 9,133,000

Associated Ers (list all applicable):

new			

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
new	\$ 960,000	\$ 1,950,000	\$ -	\$ -	\$ -	\$ 2,910,000	CFR 18.1.B.Part 12; 2007 FERC Inspection Report, July 10, 2007 Letter to FERC with Plan and Schedule; 2011 FERC Inspection Report and Part 12 Report Recommendation and August 13, 2012 letter to FERC requesting extension
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 960,000	\$ 1,950,000	\$ -	\$ -	\$ -	\$ 2,910,000	Additional Justifications: The sequence of correspondence described above presents the highlights of discussions. This project has also been discussed at numerous meetings and inspections with FERC Dam Safety Inspectors and the FERC Regional Engineer. Expectation of addressing gate structural concerns on this structure are well understood.

Milestones (high level targets)

September-12	Project Kick-Off	December-14	Construction Complete	January-13	open	Milestones should be general. Use your judgement on project progress so that progress can be measured. Provide at least three milestones per year
March-13	Design Basis Complete	March-12	Project Closed Out	January-13	open	
July-13	Gate Supply Bids Out	January-13	open	January-13	open	
September-13	Gate Supply Awarded	January-13	open	January-13	open	
January-14	Issue Construction RFP	January-13	open	January-13	open	
May-14	Installation Contract Awarded	January-13	open	January-13	open	

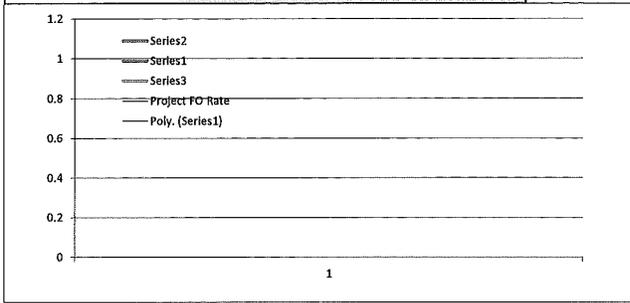
Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input checked="" type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	FERC Mandate



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Reviewed signature

Director/Manager

Other Party Review signature
(if necessary)

Margie Stevens
Director/Manager

Because of the timing of the discovery of the concrete condition, the initial budget estimate was made very quickly within a two week time period which did not allow for much investigation of what would be needed for the project. As a result, the original request has been increased as we have learned about the needed work to address this issue.

Additional Information: The original plan had contemplated a single spillgate in place of the current six gates, expecting to reduce construction costs. However, upon further scoping work, it was determined that going to a single gate design would require removal of six post tension anchors that were installed in the 1990's for dam stability. This forced a change in scope to include six gates, increasing the cost.

Also, the project will now require a cofferdam to facilitate the necessary construction. That along with the access improvements needed to perform the site construction have also increased the cost over the original estimate.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Cabinet Gorge Unit 1 Refurbishment

ER No: 4161 **ER Name:** CG HED U#1 Refurbishment

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 4,900 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	11,687	-	-	-	-	-	11,400	-	-	-	-	-	-	287
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	
2017	-	-	-	-	-	-	-	-	-	-	-	-	-	

Business Case Description:

This is the Capital portion of a major overhaul project planned for Cabinet Gorge Unit 1. The runner hub has significant issues, and will need to be upgraded to allow for frequent cycling with integration of intermittent resources. The present automatic voltage regulator has relatively slow response due to its hybrid design. It also has no limiters for generator protection. A new system will improve both of these. The machine monitoring will allow for better analysis of the machine condition for this critical unit. New protective relays will be installed and new controls will be integrated with the project to replace the failing Bailey NET90 system. Rehab of this unit will also allow flexibility around minimum flow for fish habitat.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Cabinet Gorge Unit 1 Refurbishment_Rehab	Assessments:	
Requested Amount	Estimated Total Capital Expenditure	Financial:	9.24%
Duration/Timeframe	3 Year Project	Strategic:	Generating Plant Modernization
Dept., Area:	GPSS	Business Risk:	Business Risk Reduction >5 and <= 10
Owner:	Andy Vickers	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Jason Thackston		
Category:	Project		
Mandate/Reg. Reference:	n/a	Assessment Score:	98
Recommend Project Description:		Annual Cost Summary - Increase/(Decrease)	
This is the Capital portion of a major overhaul project planned for Cabinet Gorge Unit 1. The runner hub has significant issues, and will need to be upgraded to allow for frequent cycling with integration of intermittent resources. The present AVR is relatively slow response due to its hybrid design. It also has no limiters for generator protection. A new system will improve both of these. The machine monitoring is to allow for better analysis of machine condition for this critical unit. New protective relays are to be installed and new controls will be integrated with the project to replace the failing Bailey NET90 system. Rehab of this unit will also allow flexibility around minimum flow for fish habitat.		Performance	Better voltage control and response for blackstart (NERC), predictable rewind timing
		Capital Cost	\$ 11,400,000
		O&M Cost	\$ -
		Other Costs	\$ -
		Business Risk Score	4
		Annual Cost Summary - Increase/(Decrease)	
Alternatives:		Performance	
Unfunded Project:	The unit will continue to deteriorate, and we will miss the opportunity of being able to run the plant at 3,000cfs, losing considerable flexibility	n/a	
		Capital Cost	\$ -
		O&M Cost	\$ 1,550,027
		Other Costs	\$ -
		Business Risk Score	12
Alternative 1: Install IRIS Monitoring System Only	Most critical is to install a Partial Discharge Monitoring system to better assess the condition of the generator winding to assist in rewind timing. The unit is also in need of rewedge & re-insulation of the field windings	none	
		Capital Cost	\$ 949,000
		O&M Cost	\$ 868,026
		Other Costs	\$ -
		Business Risk Score	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	
		Capital Cost	\$ -
		O&M Cost	\$ -
		Other Costs	\$ -
		Business Risk Score	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	
		Capital Cost	\$ -
		O&M Cost	\$ -
		Other Costs	\$ -
		Business Risk Score	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 330,000	\$ -	\$ -	\$ -
2013	\$ 5,172,658	\$ -	\$ -	\$ 1,300,000
2014	\$ 3,394,638	\$ -	\$ -	\$ 5,500,000
2015	\$ -	\$ -	\$ -	\$ 4,900,000
2016	\$ -	\$ -	\$ -	\$ -
2017	\$ -	\$ -	\$ -	\$ -
Total	\$ 8,567,296	\$ -	\$ -	\$ 11,700,000

Associated Ers (list all applicable):

none			

ER	2013	2014	2015	2016	2017	Total
none	\$ 5,172,658	\$ 3,394,638	\$ -	\$ -	\$ -	\$ 8,567,296
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 5,172,658	\$ 3,394,638	\$ -	\$ -	\$ -	\$ 8,567,296

Mandate Excerpt (if applicable):
not applicable

Additional Justifications:
The present AVR is a hybrid design that utilized the rotating exciter equipment. When we perform blackstart testing, the relatively slow response of the AVR system does not allow the unit to maintain a stable voltage output to energize transmission lines and other loads. A new fast response system will remedy this dilemma. New Relays, Unit Control System, and other equipment replacements will be performed to update this machine to modern standards.

Milestones (high level targets)

Date	Activity	Status	Notes
October-12	Project Start	open	
November-12	Basis of Design	open	
December-12	AVR Ordered	open	
March-13	Monitoring Equipment Ordered	open	
July-13	Final Design	open	
September-13	Equipment Delivered to Site	open	
September-13	Discharge Ring installation	open	
October-13	Runner delivered to site	open	
November-14	Runner installation	open	
January-14	Installation Completion	open	
March-14	Machine in Service	open	
September-14	open	open	
January-14	open	open	
November-14	open	open	
January-15	open	open	
April-15	open	open	
April-15	open	open	
January-13	open	open	

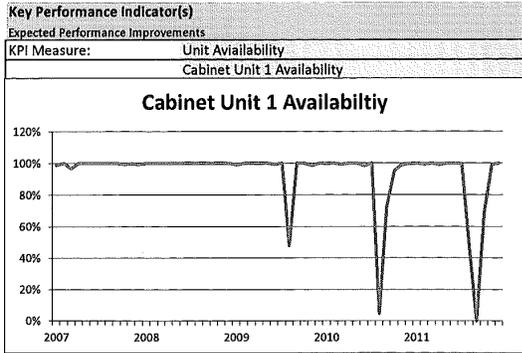
Milestones should be general. Use your judgement on project progress so that progress can be measured. Provide at least three milestones per year

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required



Capital Program Business Case



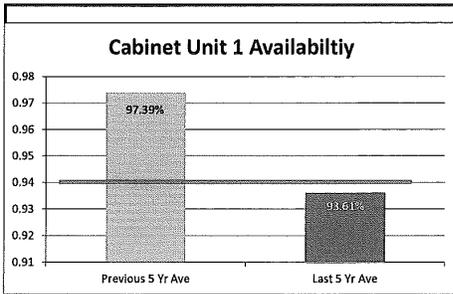
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Reviewed signature _____

Director/Manager

Other Party Review signature
 (if necessary)

Marnie Stevens
 Director/Manager



Some other explanation of the chart included above is that you can see that we are experiencing increasing outages over time to address the problems with the unit. These outages are generally increasing over time.

The monitoring system is intended to help us capture when a major outage is likely to occur and then plan accordingly. An asset management study has shown the benefits of a monitoring system that we can use to predict when we should plan for major events rather than perform the work after failure.

The chart at the left shows the decreasing availability that has been experienced over the past ten years due to mechanical problems with the unit. Doing this capital project at the same time as the major maintenance will improve future availability as this will not be needed again.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Cabinet Gorge Automation Replacement

ER No: 4163 **ER Name:** CG HED Automation Replacement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 2,842 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	2,842	-	-	-	-	-	-	-	-	-	-	-	2,842

Business Case Description:

This project is to replace the unit and station service control equipment at Cabinet Gorge with a system compatible with Avista’s current standards. The Bailey Net 90 equipment that is installed currently is obsolete because replacement of the system can only be done through secondary and salvage markets. In addition, the current system does not provide enough inputs and outputs that allow implementation of standard unit control and monitoring schemes. This work will replace the existing panel and control systems with a new system. The scope of work has expanded to include replacement governors, voltage regulators, and protective relays.

Offsets:

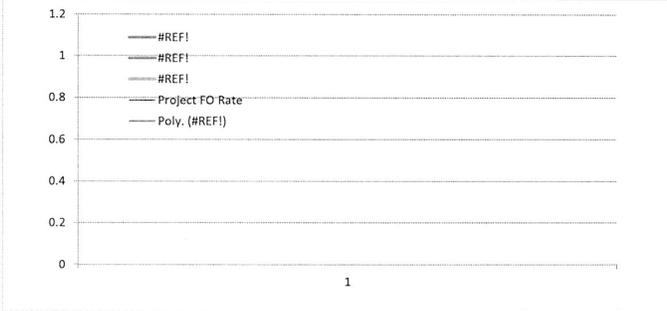
There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Unit Availability
Fill in the name of the KPI here	



Prepared signature

Reviewed signature Director/Manager

Other Party Review signature *Margie Stevens* Director/Manager
(if necessary)

Six Year Project Cash Flow		
	Base	Alternative
2014	\$99,000	\$99,000
2015	\$500,000	\$500,000
2016	\$616,000	\$966,000
2017	\$616,000	\$966,000
2018	\$570,000	\$920,000
2019	\$540,000	\$890,000
	\$2,941,000	\$4,341,000

To be completed by Capital Planning Group	
Rationale for decision	Review Cycles 2012-2016
	Date
	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Kettle Falls Stator Rewind

ER No: ER Name:
4172 Kettle Falls Stator Rewind

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 7,930 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	7,930	-	-	-	-	-	-	-	-	7,930	-	-	-

Business Case Description:

The Kettle Falls generator is over 32 years old and is at the end of its expected life. This project consists of monitoring the existing machine, developing rewind contract, manufacturing replacement coils, disassembly, coil removal, new coil installation, reassembly, startup, testing and commissioning. Consequences of failure include an unscheduled outage with lost generation, loss of renewable energy credits, long term interruption of fuel supply, collateral damage to core and hydrogen cooling with resulting safety hazards.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	Kettle Falls Stator Rewind	Assessments:	
Requested Amount:	\$7,930,000	Financial:	15.04%
Duration/Timeframe:	30 Year Project	Strategic:	Life-cycle asset management
Dept., Area:	Generation & Production	Business Risk:	Business Risk Reduction >0 and <= 5
Owner:	Andy Vickers	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Jason Thackston	Assessment Score:	106
Category:	Project	Annual Cost Summary - Increase/(Decrease)	
Mandate/Reg. Reference:	n/a	Performance	Capital Cost

Recommend Project Description:	Kettle Falls Stator Rewind - The KF generator is 32 yrs old and is at the end of its expected life. The stator can be rewound on scheduled basis during the spring outage of 2016. Project consists of monitoring the exg. machine, developing rewind contract, manufacturing replacement coils, disassembly, coil removal, new coil installation, reassembly, startup, testing & commissioning. Consequences of failure include an unscheduled outage with lost generation, loss of renewable energy credits, long term interruption of fuel supply, colateral damage to core and hydrogen cooling with resulting safety hazards. The estimated CIRR is 15.04%.	Scheduled work during spring outage, rather than an unscheduled response to an serious outage	\$ 7,930,000	\$ -	\$ 200	Business Risk Score	3
		Annual Cost Summary - Increase/(Decrease)					

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	Run-to-Fail - Continue operation with the existing stator on a run-to-fail basis. A CIRR of 3.12% has been estimated for the capital expenditures, when the stator fails and is replaced as a corrective measure.	n/a	\$ 376,000	\$ -	\$ 1,945,000	9
Stator rewind	The KF stator is at the end of its expected life. The actual rewind would be planned and scheduled to occur during the spring outage of 2016. The estimated CIRR is 15.04%.	Scheduled outage, rather than an extensive,	\$ 7,930,000	\$ -	\$ 200	3
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous		\$ -	\$ -	\$ -
2015	\$ 2,000,000	\$ 20,000	\$ -	\$ -
2016	\$ 5,930,000	\$ -	\$ -	\$ 2,000,000
2017	\$ -	\$ -	\$ -	\$ 5,930,000
2018	\$ -	\$ -	\$ -	\$ -
2019	\$ -	\$ -	\$ -	\$ -
2020+	\$ -	\$ -	\$ -	\$ -
Total	\$ 7,930,000	\$ 20,000	\$ -	\$ 7,930,000

Associated Ers (list all applicable):

ER	2015	2016	2017	2018	2019	Total	Mandate Excerpt (if applicable):
0	\$ 2,000,000	\$ 5,930,000	\$ -	\$ -	\$ -	\$ 7,930,000	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 2,000,000	\$ 5,930,000	\$ -	\$ -	\$ -	\$ 7,930,000	

Additional Justifications:
The resent incident at Colstrip demonstrated the extensive consequences of a stator failure. Colateral damage was extensive, requiring replacement of the core and hydrogen cooling system, and resurfacing of the rotor. The outage was 8 months, even with a rewind kit on site. Damage to the hydrogen cooling system presents an elevated safety risk.

Milestones (high level targets)

April-15	Machine monitoring	June-16	Re-assemble - install rotor, misc. ele	January-00	open
July-14	Rewind contract - Prep rewinds spe	June-16	Startup testing & commissioning	January-00	open
January-16	Manufacturing - coils, coil delivery	June-16	Return to service	January-00	open
May-16	Disassembly - Mark unit alignment,	October-16	Project Close Out	January-00	open
June-16	Coil removal - visual inspection, El	January-00	open	January-00	open
June-16	Install coils & ckt ring, monitoring se	January-00	open	January-00	open

Milestones should be general. Use your judgement on project progress so that progress can

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required



Capital Project Business Case

YES

YES - attach form

NO or Not Required

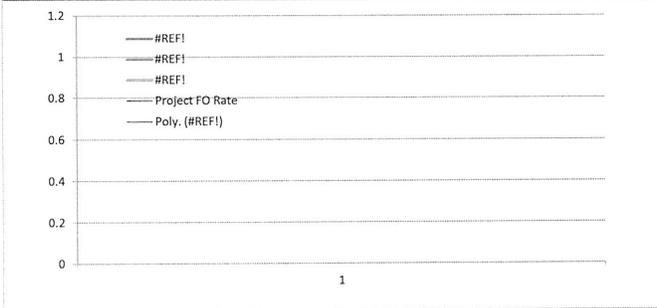
YES - attach form

NO or Not Required



Capital Project Business Case

Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure: Fill in the name of the KPI here
 Fill in the name of the KPI here

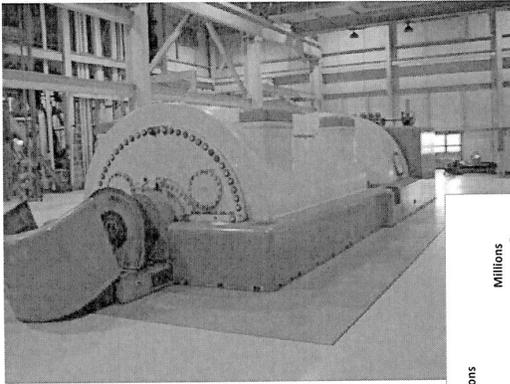


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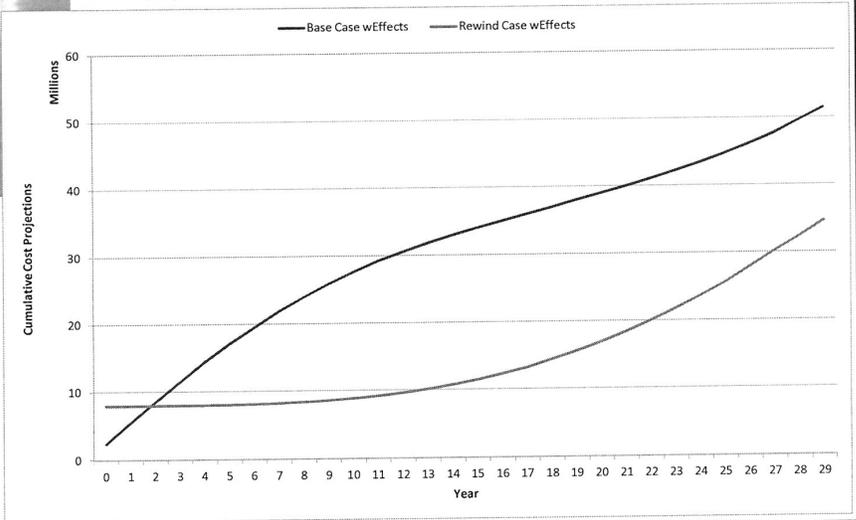
Reviewed signature _____
 Director/Manager

Other Party Review signature *Martin Stevens* _____
 (if necessary) Director/Manager

Kettle Falls Steam Turbine and Generator



Lifetime (30 yr) Cumulative Cost Comparison of Run-to-Fail (Base) & Stator Rewind Cases



To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Generation / Production

Business Case Name: Long Lake Replace Field Windings

ER No: ER Name:

4169 Long Lake HED Replace Field Windings

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 3,400 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	4,172	-	4,172	-	-	-	-	-	-	-	-	-	-

Business Case Description:

Over the past 10 years, the Company has observed a continuing decline in the insulation level on the generators at Long Lake as measured using Megger test instruments. Long Lake has experienced an increasing amount of forced outages and down time due to the deteriorating condition of these units.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	LLRepl Field Wndgs	Assessments:	
Requested Amount	\$3,400,000	Financial:	9.62%
Duration/Timeframe	no. years 3	Strategic:	Reliability & Capacity
Dept., Area:	GPSS	Business Risk:	Business Risk Reduction >5 and <= 10
Owner:	Andy Vickers	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Jason Thackston	Assessment Score:	99
Category:	Project	Annual Cost Summary - Increase/(Decrease)	
Mandate/Reg. Reference:	n/a		

Recommend Project Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Long Lake Replace Generator Field Windings - over the past 10 years, we have observed a continuing decline in the insulation level on the generators at Long Lake. This decline is measured using Megger test instruments. We have experienced an increasing amount of forced outages and down time due to the poor condition of these units. We had planned to address this as part of the Long Lake redevelopment project however that was delayed due to problems at Little Falls. It is the opinion of engineering that the generators at Long Lake will not run reliably for the six years or more to when this would be address as part of that project.	This would reduced plant forced outages	\$ 3,400,000	\$ 100,000	\$ -	2

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	n/a	\$ -	\$ 265,000	\$ 1,152,000	12
Alternative 1: Brief name of alternative (if applicable)	Replace one or two sets of field poles rather than rewind them. This would allow the work to get done more quickly and reduce second and third year budget impacts. The incremental cost is reflective of one set of poles.	\$ 3,700,000	\$ -	\$ -	2
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ -	\$ -	\$ -	\$ -
2014	\$ 1,572,000	\$ 50,000	\$ -	\$ -
2015	\$ 1,658,000	\$ 50,000	\$ -	\$ 1,572,000
2016	\$ 170,000	\$ -	\$ -	\$ 1,658,000
2017+	\$ -	\$ -	\$ -	\$ 170,000
Total	\$ 3,400,000	\$ 100,000	\$ -	\$ 3,400,000

ER	2013	2014	2015	2016	2017+	Total	Mandate Excerpt (if applicable):
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	Additional Justifications: Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.					

Date	Target	Actual	Status	Start	End
April-14	Contracts in Place	October-15	3rd Unit Completed	January-00	open
July-14	1st Unit Started	October-15	4th Unit Started	January-00	open
October-14	1st Unit Completed	December-15	4th Unit Completed	January-00	open
October-14	2nd Unit Started	March-16	Project Complete	January-00	open
December-14	2nd Unit Completed	January-00	open	January-00	open
July-15	3rd Unit Started	January-00	open	January-00	open

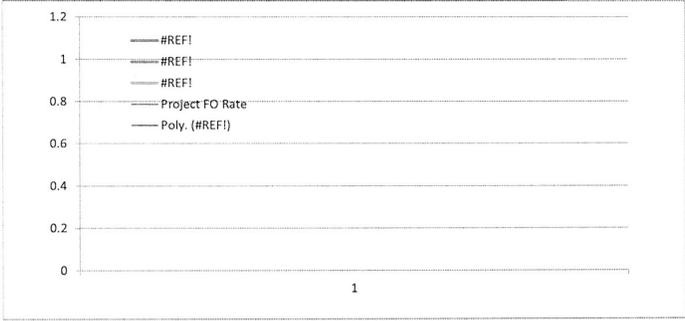
Milestones should be general. Use your judgement on project progress so that progress can

Resources Requirements: (request forms and approvals attached)			
Internal Labor Availability:	<input checked="" type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	
Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	
Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	
Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	



Capital Project Business Case

Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure: Fill in the name of the KPI here
Fill in the name of the KPI here



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Reviewed signature
 Director/Manager

Other Party Review signature
 (if necessary) *Margie Stevens* Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Project

To be completed by Capital Planning Group	
Rationale for decision	Review Cycles 2012-2016
	Date
	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: General

Business Case Name: Capital Tools & Stores Equipment

ER No: ER Name:

7005 Stores Equip

7006 Tools Lab & Shop Equipment

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$7,148¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	2,348	337	337	337	54	54	54	54	54	54	337	337	337
2016	2,400	344	344	344	56	56	56	56	56	56	344	344	344
2017	2,400	344	344	344	56	56	56	56	56	56	344	344	344

Business Case Description:

This business case is for the purchase and repair of tool and facility material handling equipment. This includes equipment such as forklifts, manlifts, shelving, cutting/binding machines, etc. These funds are used for capital Stores equipment company-wide. The ER's included in this business case are blanket projects that occur year over year.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Capital Tools and Stores				
Requested Amount	\$	1,821,500	Assessments:		
Duration/Timeframe	Ongoing	Year Program	Financial:	MH - >= 9% & <12% CIRR	
Dept., Area:	Supply Chain		Strategic:	Life Cycle Programs	
Owner:	Cody Krogh		Operational:	Operations require execution to perform at current levels	
Sponsor:	Don Kopcynski		Business Risk:	ERM Reduction >0 and <= 5	
Category:	Program		Program Risk:	High certainty around cost, schedule and resources	
Mandate/Reg. Reference:	n/a		Assessment Score:	84	Annual Cost Summary - Increase/(Decrease)
Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Purchase and repair of tool and facility material handling equipment	Enhances crew efficiency	\$ 1,500,000	\$ -	\$ -	0
Alternatives:					
Status Quo:	Describe the current condition of the asset(s) and problems that need to be corrected	n/a	\$ -	\$ -	0
Alternative 1: Repair all tools	Increased labor to repair failed tools, increased cost to have outside repairs performed (not all tools can be repaired), delayed response by crews, reduced crew efficiency, increased labor to find/rent tools and equipment, safety concerns for not having appropriate equipment to perform craft work (meter testing, metering equipment, specialized cable splicing, leak detection, utility locating equipment, reduction of safety related equipment, etc.)	n/a	\$ -	\$ 1,141,606	0
Alternative 1: Rent Forklifts	Increased rental expense & labor to "Other" budget shifting 95% of costs to CAP loading, 5% to O&M		\$ 665,000	\$ 35,000	0

Program Cash Flows					Associated Ers (list all applicable):				
5 years of costs									
	Capital Cost	O&M Cost	Other Costs	Approved	2013	2014	2015	2016	2017
					7006	1500000		7006	\$ 1,307,007
								7005	514493
2013	\$ 1,500,000	\$ -	\$ -	\$ 775,000					
2014	\$ 1,575,000	\$ -	\$ -	\$ 1,821,500					
2015	\$ 1,653,750	\$ -	\$ -	\$ 2,348,325					
2016	\$ 1,736,438	\$ -	\$ -	\$ 2,400,000					
2017	\$ 1,823,259	\$ -	\$ -	\$ 2,400,000					
2018	\$ -	\$ -	\$ -	\$ 2,400,000					
2019	\$ -	\$ -	\$ -	\$ 2,400,000					
Total	\$ 8,288,447	\$ -	\$ -	\$ 14,544,825					

Mandate Excerpt (if applicable):
N/A

Additional Justifications:
Increased budget 2014-2017 amount by 5% to account for inflation

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: <input type="checkbox"/> Low Probability <input type="checkbox"/> Medium Probability <input checked="" type="checkbox"/> High Probability Contract Labor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Enterprise Tech: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required Facilities: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required Capital Tools: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required Fleet: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).
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Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Tool Repair as a percentage of tool purchases
	Fill in the name of the KPI here

Prepared signature _____

Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stevens* _____
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group	
Rationale for decision	Review Cycles 2012-2016
	Date
	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: General

Business Case Name: Central Operating Facility (Mission Campus) Long-Term Restructuring Plan

ER No: ER Name:

7126 Long term Campus Re-Structuring Plan

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$11,500¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	7,500	-	-	-	-	-	-	-	-	-	-	-	8,500	(1,000)
2016	4,000	-	-	-	-	-	-	-	-	-	-	-	4,000	
2017	-	-	-	-	-	-	-	-	-	-	-	-	-	

Business Case Description:

Construct a new warehouse in 2012 and remodel the old warehouse in the Service Bldg to accommodate 110 work stations in 2013. The project also adds 125 employee parking spaces. The new warehouse shall utilize current material handling technologies to increase employee efficiencies, and its height will allow more material to be stored per square foot, thus allowing the Company to use limited square space more efficiently. The facility will provide IS/IT infrastructure and networking in north half of the Mission campus where it is currently non-existent, in anticipation of future projects. This project will also allow the HVAC renovation of the north-building wing to be accomplished in one year rather than a staged process, which results in a one-time \$1.2M reduction in capital costs for that project.

Offsets:

There are no anticipated offsets with this business case.

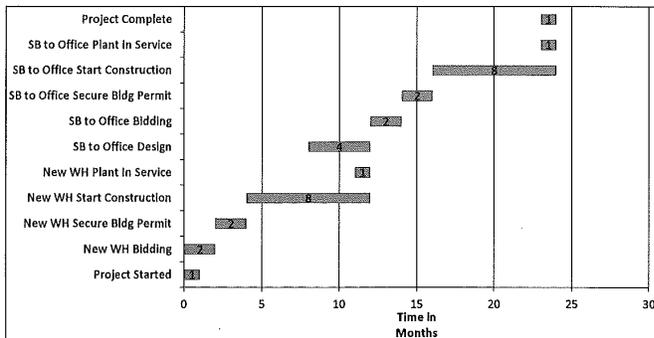
¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	COF Long-Term Restructuring Plan	Assessments:				
Requested Amount	\$23,450,000	Financial:	High - Exceeds 12% CIRR			
Duration/Timeframe	5 Year Project	Strategic:	Other			
Dept., Area:	Facilities	Operational:	Operations improved beyond current levels			
Owner:	Mike Broemling & Eric Bowles	Business Risk:	ERM Reduction >0 and <= 5			
Sponsor:	Don Kopczyński	Project/Program Risk:	High certainty around cost, schedule and resources			
Category:	Project	Assessment Score:	100.5			
Mandate/Reg. Reference:	n/a	Cost Summary - Increase/(Decrease)				
Recommend Project Description:	Construct a new warehouse in 2012 and remodel the old warehouse in the Service Bldg to accommodate 110 work stations in 2013. Also add 125 parking spaces. New warehouse shall utilize current material handling technologies to increase employee efficiencies, and its height will allow for more material to be stored per SF, thus using our limited SF here at the COF more efficiently. Provide IS/IT infrastructure and networking in north half of the COF where it is currently non-existent, in anticipation of future projects. This project will also allow the HVAC renovation of the north building wing to be accomplished in one year rather than a staged process, which results in a one-time \$1.2M reduction in capital costs for that project. PLEASE SEE ADDITIONAL EFFICIENCIES UNDER "ADDITIONAL JUSTIFICATIONS" BELOW. The CIRR is 12.5%-16.0% excluding the HVAC savings and any other facility sales or cessation of rentals.	Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
		Alleviates current space issues by creating on-site office space and parking to house employees and contractors	\$ 23,450,000	\$ -	\$ (1,200,000)	3
Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
Status Quo :	COF will continue to not have enough office space and parking to accommodate demand. Continue to obtain more leases, buy buildings, or buy land and construct buildings to house our employees.	n/a	\$ -	\$ -	\$ -	6
Alternative 1: Construct a new warehouse (recommended option)	See Project Description above.	Alleviates current space issues & new warehouse	\$ 9,500,000	\$ -	\$ (1,200,000)	3
Alternative 2: General Office Building 'wing' addition and parking garage	Construct a parking garage and an addition to the existing building on the west end (156 workstations and 120 parking spaces). No new warehouse bldg or warehouse efficiency gains.	Alleviates current space issues	\$ 30,000,000	\$ -	\$ -	3
Alternative 3 Name : Ross Court Office Building and Parking Lot	Construct a new office building at the Ross Court location in addition to parking spaces (240 workstations and 151 parking spaces). No new warehouse bldg or warehouse efficiency gains.	Alleviates current space issues	\$ 15,000,000	\$ -	\$ -	3

Timeline



Construction Cash Flows (CWIP)

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2012	\$ 3,050,000	\$ -	\$ -	\$ 3,050,000
2013	\$ 7,900,000	\$ -	\$ -	\$ 7,900,000
2014	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
2015	\$ 7,500,000	\$ -	\$ -	\$ 7,500,000
2016	\$ 4,000,000	\$ -	\$ -	\$ 4,000,000
2017	\$ -	\$ -	\$ -	\$ -
2018	\$ -	\$ -	\$ -	\$ -
Future	\$ -	\$ -	\$ -	\$ -
Total	\$ 23,450,000	\$ -	\$ -	\$ 23,450,000

Milestones (high level targets)

August-12	New WH Start Construction	February-15	Rotor Bldg and Inv Rec Start	February-16	WH Yard #2 & Wash Bay Start Const
April-13	New WH Plant In Service	June-15	Rotor Bldg In Service	October-16	WH Yard #2 & Wash Bay In Service
May-13	SB to Office Start Construction	June-15	WH Yard #1 Start Const		
October-13	SB to Office Plant in Service	August-15	WH Yard #1 and Inv Rec in service		
October-14	Waste & Asset Rec Bldg Start Con	July-15	GPSS & Spo Const. Remodel: Start Const		
May-15	Waste & Asset Rec Bldg In Service	March-16	GPSS & Spo Const. Remodel: In Service		

Associated Ers (list all applicable):	7126						
Mandate Excerpt (if applicable):	n/a						

Additional Justifications:

Sept 2013 changes: \$2.4 M for new IR / Haz Mat area in 2014, \$1.5M for WH Yard and Wash Bay in 2015, \$1.5M in 2015 and \$2M in 2016 for G&P/Spo Construct Remodel. New IR and Hazmat Bldgs will result in time efficiencies for linemen trucks and drop off processes. Increasing the WH storage yard will also result in time efficiencies for WH personnel due to closer material, more level asphalted area (rather than gravel), and controlled (fenced) inventory and stocking. Wash bay will save time from washing vehicles off site and will prevent frequent freezing/breakdown of current wash bay. Office renovations of Spokane Construction and GPSS will replace a 30 year old HVAC system and increase number of cubicles on campus to accommodate for growth. JULY 2014 CHANGES: (2014 - \$1M) (2015 - \$7.5M) (2016 - \$4M). Hazmat Bldg cost more than expected, and a GPSS storage bldg must be replaced to do the WH storage yard increase.

Resources Requirements: (request forms and approvals attached)

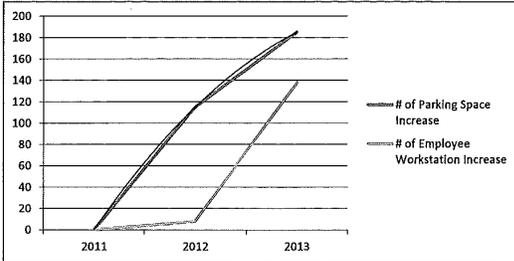
Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Key Performance Indicator(s)

Expected Performance Improvements

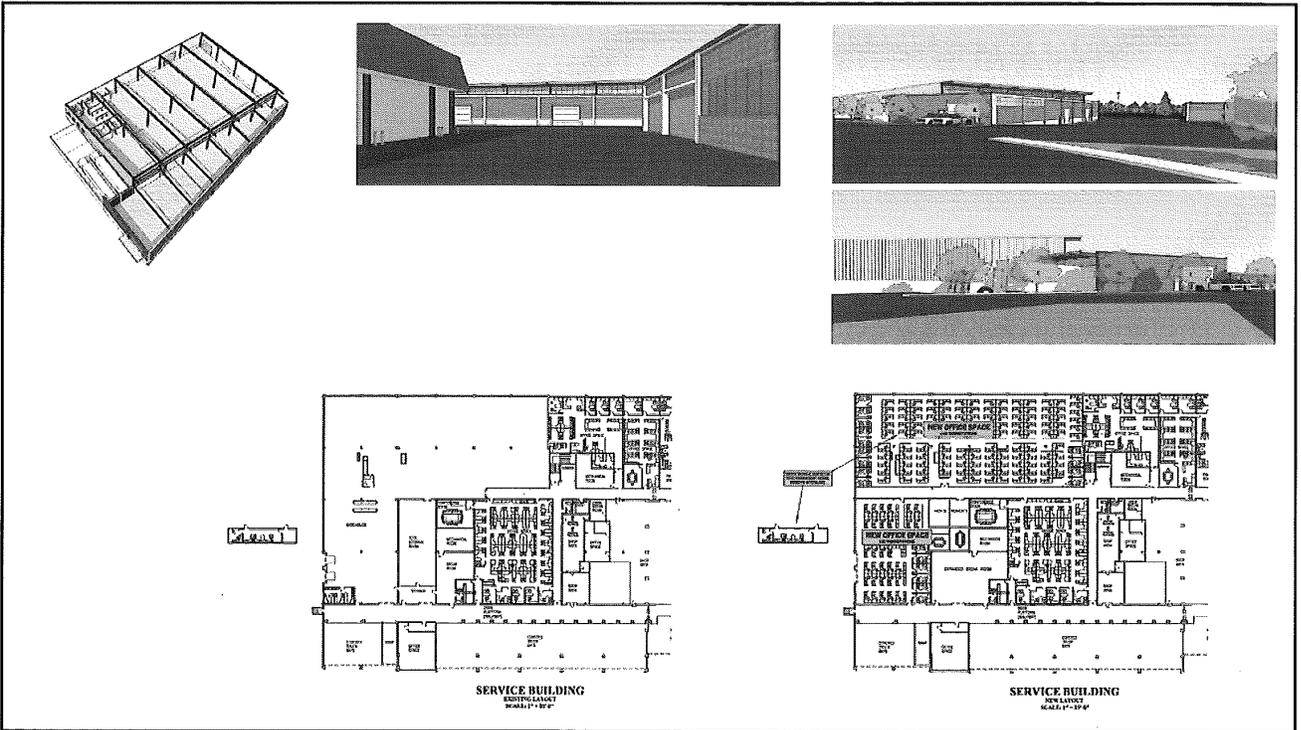
KPI Measure: **Total Net Increase of Parking Spaces and Employee Workstations vs. 2011 total**



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Reviewed signature _____
 Director/Manager

Other Party Review signature *Margie Stevens*
 (if necessary) Director/Manager



To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: General

Business Case Name: Structures and Improvements/Furniture

ER No: ER Name:

7001 Structures & Improvements

7003 Office Furniture

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$11,800¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	6,030	390	383	381	382	383	381	391	381	381	383	383	381	1,430
2016	3,600	307	299	298	299	300	298	307	297	298	299	300	297	
2017	3,600	307	299	298	299	300	298	307	297	298	299	300	297	

Business Case Description:

This program is for the Capital Maintenance, Improvements, and Furniture budgets at 50 plus Avista offices and service centers (over 700,000 square feet in total). Many of the included service centers were built in the 1950's and 1960's and are starting to show signs of severe aging. The program includes capital projects in all construction disciplines (Roofing, Asphalt, Electrical, Plumbing, HVAC, Energy efficiency projects etc.). This program is driven mainly from the results of an objective building survey completed at each service center. The survey assigns a rating to each building category based on condition. This will help us create capital project lists for each service center and make decisions on continued maintenance vs. future replacement.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Structures and Improvements and Furniture	Assessments:	
Requested Amount	\$25,773,300	Financial:	MH - >= 9% & <12% CIRR
Duration/Timeframe	7 Year Program	Strategic:	Life Cycle Programs
Dept., Area:	Facilities	Operational:	Operations require execution to perform at current levels
Owner:	Mike Broemling & Eric Bowles	Business Risk:	ERM Reduction >0 and <= 5
Sponsor:	Don Kopczynski	Program Risk:	High certainty around cost, schedule and resources
Category:	Program	Assessment Score:	84
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	

Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
This program would be responsible for the Capital Maintenance, Improvements, and Furniture budgets at 50 plus Avista Offices and Service Centers (over 700,000 sf total). Many of the included Service Centers were built in the 50's and 60's and are starting to show signs of severe aging. The program would include Capital projects in all construction disciplines (Roofing, Asphalt, Electrical, Plumbing, HVAC, Energy efficiency projects etc.). This program would be driven mainly from the results of an objective building survey completed at each Service Center. The survey assigns a rating to each building category based on condition. This will help us create capital project lists for each Service Center and make decisions on continued maintenance vs future replacement.	Improve operating functionality, increased safety, increased energy efficiency.	\$ 25,773,300		\$ -	0

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo :	We are experiencing severe issues with Asphalt Parking, Roof leaking, Energy loss due to inefficient HVAC systems, Low E glass, lack of building insulation, etc... Failure to maintain or replace these system can result in excessive Utility bills, increased damage to other adjacent systems, (example roof leak), as well as increased safety liability (sidewalk heaving and potholes) etc...	n/a	\$ -	\$ -	\$ -	0
Alternative 1: Brief name of alternative (if applicable)	Reducing Capital repair and replacements would drive up O & M costs respectively. This would also increase the risk for unplanned major failures which could also incur additional productivity costs for other departments affected (example major HVAC shutdown).	lower capital would drive up O&M and risk major failure	\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
5 years of costs					Current ER	7001	7003		
	Capital Cost	O&M Cost	Other Costs	Approved					
2012	\$ 4,820,000	\$ -	\$ -	\$ 4,420,000					
2013	\$ 4,000,000	\$ -	\$ -	\$ 3,600,000					
2014	\$ 4,000,000	\$ -	\$ -	\$ 3,433,300					
2015	\$ 4,000,000	\$ -	\$ -	\$ 4,600,000					
2016	\$ 4,000,000	\$ -	\$ -	\$ 3,600,000					
2017	\$ -	\$ -	\$ -	\$ 3,600,000					
2018	\$ -	\$ -	\$ -	\$ 3,600,000					
2019	\$ -	\$ -	\$ -	\$ 3,600,000					
Total	\$ 20,820,000	\$ -	\$ -	\$ 30,453,300					

Mandate Excerpt (if applicable):
provide brief citation of the law or regulation and a reference number if possible

Additional Justifications:
With the completion of the Facilities Survey in May 2011, we now have the ability to rate the condition of each of our service centers which in turn helps us allocate money to where it is needed most. We are also working on creating a long range lifecycle plan to identify when continued maintenance is no longer prudent and replacement is a more cost effective solution. In addition, the office furniture budget is included in this program and can support various office remodels, chair and furniture replacements, furniture layout remodels, modular wall systems, and new furniture for misc. projects.

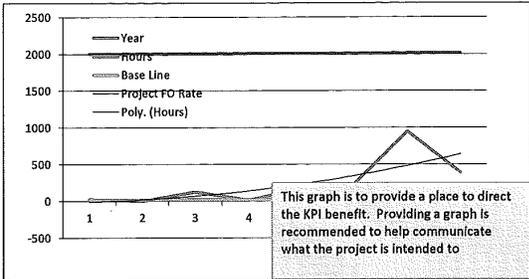
Resources Requirements: (request forms and approvals attached)

- | | | | | | | |
|------------------------------|--|--|---|------------------|---|--|
| Internal Labor Availability: | <input type="checkbox"/> Low Probability | <input checked="" type="checkbox"/> Medium Probability | <input type="checkbox"/> High Probability | Enterprise Tech: | <input checked="" type="checkbox"/> YES - attach form | <input checked="" type="checkbox"/> NO or Not Required |
| Contract Labor: | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | | Facilities: | <input checked="" type="checkbox"/> YES - attach form | <input type="checkbox"/> NO or Not Required |
| | | | | Capital Tools: | <input type="checkbox"/> YES - attach form | <input checked="" type="checkbox"/> NO or Not Required |
| | | | | Fleet: | <input type="checkbox"/> YES - attach form | <input checked="" type="checkbox"/> NO or Not Required |



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



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Reviewed signature Director/Manager

Other Party Review signature *Margie Skewes* Director/Manager
(if necessary)



To be completed by Capital Planning Group	
Rationale for decision	Review Cycles 2012-2016
	Date
	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: General

Business Case Name: Apprentice & Craft Training

ER No: 7200 **ER Name:** Apprentice Craft Train

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$180¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	121	5	5	5	5	5	5	5	5	5	5	5	5	61
2016	60	5	5	5	5	5	5	5	5	5	5	5	5	
2017	60	5	5	5	5	5	5	5	5	5	5	5	5	

Business Case Description:

This program is for on-going capital improvements to support the essential skills needed for journeyman workers, apprentices and pre-apprentices now and for the future. It is important to provide the types of training scenarios that employees face in the field. Capital expenditures under this program include items such as building new facilities or expanding existing facilities, purchase of equipment needed, or build out of realistic utility field infrastructure used to train employees. Examples include: new or expanded shops, truck canopies, classrooms, backhoes and other equipment, build out of “Safe City” located at the Company’s Jack Stewart training facility in Spokane, which could include commercial and residential building replicas, and distribution, transmission, smart grid, metering, gas and substation infrastructure.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Apprentice/Craft Trng	Assessments:	
Requested Amount	\$60,000	Financial:	7.00%
Duration/Timeframe	10 Year Program	Strategic:	Performance Excellence
Dept., Area:	Apprentice/Craft Training	Business Risk:	Business Risk Reduction >0 and <= 5
Owner:	Linda Jones	Program Risk:	High certainty around cost, schedule and resources
Sponsor:	Karen Feltes		
Category:	Mandatory		
Mandate/Reg. Reference:	296-05 WAC & Chpt 49 04 RCW	Assessment Score:	102
Recommend Program Description:	<p>"This program is for on-going capital improvements to support the essential skills needed for journey workers, apprentices and pre-apprentices now and for the future. It is important to provide the types of training scenarios that employees face in the field. The program is for capital infrastructure needed to create an effective set-up for training craft employees. Capital expenditures under this program could include items such as building new facilities or expanding existing facilities, purchase of equipment needed, or build out of realistic utility field infrastructure used to train employees. Examples include: new or expanded shops, truck canopy, classrooms, backhoes and other equipment, build out of "Safe City"- commercial and residential building replicas, and distribution, transmission, smart grid, metering, gas and substation infrastructure."</p>		
	Performance	Annual Cost Summary - Increase/(Decrease)	
		Capital Cost	O&M Cost
	describe any incremental changes that this Program would benefit present operations	\$ 60,000	\$ -
		Other Costs	Business Risk Score
		\$ -	2

Alternatives:		Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
			Capital Cost	O&M Cost	Other Costs	
Unfunded Program:	Without ability to train in-house, critical craft positions would be difficult to fill. Also, regulating bodies may de-certify our Apprentice program. Inability to train in-house may require extensive travel to fulfill our training obligations to maintain required skillsets.	n/a	\$ -	\$ 20,000	\$ -	6
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	2
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ 60,000	\$ -	\$ -	\$ 60,000
2014	\$ 60,000	\$ -	\$ -	\$ 60,000
2015	\$ 60,000	\$ -	\$ -	\$ 60,000
2016	\$ 60,000	\$ -	\$ -	\$ 60,000
2017	\$ 60,000	\$ -	\$ -	\$ 60,000
2018				\$ 60,000
2019	\$ -	\$ -	\$ -	\$ 60,000
Total	\$ 300,000	\$ -	\$ -	\$ 420,000

ER	2013	2014	2015	2016	2017	Total

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
7200	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 300,000	See Below
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Additional Justifications: The proper training of apprentices is governed by the Washington State Apprenticeship Rules and Act (Chpt 296-05 WAC & Chpt 49 04 RCW) as well as numerous other Washington State Labor and Industries WAC/RCW regulations. And by the Federal Department of Labor under Apprentice Labor Standards 29 CFR Part 29 and the Fitzgerald Act-National Apprenticeship Act and other DOL regulations and rules. Compliance/safety training for journey workers is mandated by multiple rules/regulations at the federal level via OSHA and at the state level by WISHA.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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Total	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 300,000	

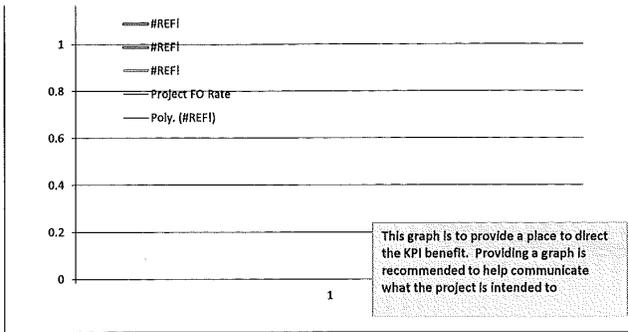
Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: <input type="checkbox"/> Low Probability <input type="checkbox"/> Medium Probability <input checked="" type="checkbox"/> High Probability Contract Labor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Enterprise Tech: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required Facilities: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required Capital Tools: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required Fleet: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).
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Expected Performance Improvements
KPI Measure: Fill in the name of the KPI here
Fill in the name of the KPI here



Capital Program Business Case



Reviewed signature Director/Manager

Other Party Review signature *Marnie Stevens*
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group		
Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: General

Business Case Name: HVAC Renovation Project at Mission Campus Headquarters

ER No: 7101 **ER Name:** COF HVAC Improvement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$5,750¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	9,520	-	-	-	-	-	-	-	-	-	-	-	9,250	270
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

The HVAC Renovation Project began in 2007 and 2008. The HVAC Project is a systematic replacement of the original 1956 Heating, Ventilation and Air Conditioning System for the Service Building, Cafeteria/Auditorium and General Office Building. The original HVAC equipment has been operating 24/7 since original construction in 1956. The Project entails a floor by floor evacuation and relocation of employees and a complete demolition of each floor; including a massive Asbestos Abatement component, and removing the original fire proofing on the basic steel structure. The Project requires exhaustive demolition and reconstruction of each floor. Sustainable energy savings and conservation are built into the Project as we apply for LEED certification for each floor. The 5th, 4th, and 3rd floor has obtained LEED-CI Gold status recognizing all of the renewable strategies we employed during the design and construction phases. The goal of this project is to re-purpose and recycle the entire Facility for the next generation of Avista employees to use for 50 more years. Life cycle costs weighed heavily on our Construction Specifications and equipment choices during the design phase. The design team chose energy efficient equipment that was designed for 30 to 50 year life cycles.

Offsets:

The attached business case does not show reductions in O&M costs. However, after further discussion it was determined that offsets do exist for the HVAC Renovation Project. This project will result in a reduction to energy costs of \$66,000 in 2015 and an incremental reduction to energy costs of \$10,000 in 2016. The allocations to Idaho are \$21,190 Electric / \$3,830 Gas in 2015 and additional reduced energy costs of \$3,210 ID Electric / \$580 Gas in 2016.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



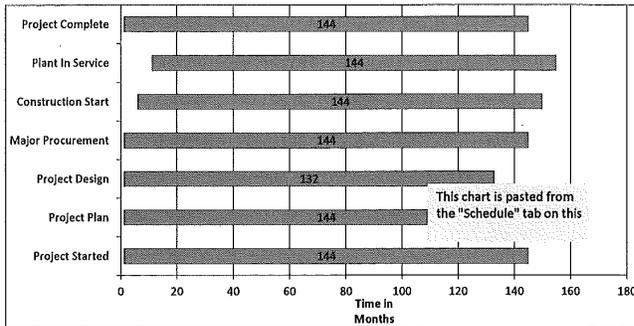
Capital Investment Business Case

Investment Name:	HVAC Renovation Project	Assessments:	
Requested Amount	\$39,804,485	Financial:	MH - >= 9% & <12% CIRRR
Duration/Timeframe	8 Year Project	Strategic:	Life Cycle Programs
Dept., Area:	Facilities Mangement	Operational:	Operations Improved beyond current levels
Owner:	Mike Broemling & Eric Bowles	Business Risk:	ERM Reduction >0 and <= 5
Sponsor:	Don Kopczynski	Project/Program Risk:	High certainty around cost, schedule and resources
Category:	Project	Assessment Score:	105
Mandate/Reg. Reference:	n/a	Cost Summary - Increase/(Decrease)	
Recommend Project Description:	Performance	Capital Cost	O&M Cost
The HVAC Renovation Project began in 2007 and 2008. The HVAC Project is a systematic replacement of the original 1956 Heating, Ventilation and Air Conditioning System for the Service Building, Cafeteria/Auditorium and General Office Building. The original HVAC equipment has been operating 24/7 since original construction in 1956. The Project entails a floor by floor evacuation and relocation of employees and a complete demolition of each floor; including a massive Asbestos Abatement component, and removing the original fire proofing on the basic steel structure. The Project requires exhaustive demolition and reconstruction of each floor. Sustainable energy savings and conservation are built into the Project as we apply for LEED certification for each floor. The 5th, 4th, and 3rd floor has obtained LEED-CI Gold status recognizing all of the renewable strategies we employed during the design and construction phases. The goal of this project is to re-purpose and recycle the entire Facility for the next generation of Avista employees to use for 50 more years. Life cycle costs weighed heavily on our Construction Specifications and equipment choices during the design phase. The design team chose energy efficient equipment that was designed for 30 to 50 year life cycles.	This Project greatly improves air quality in the Facility and saves tremendous amounts of energy going forward.	\$ 39,804,485	\$ -
			Other Costs
			\$ -
			Business Risk Score
			0

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo :	The current condition of the HVAC system is very poor. It is 60 years old and our newest equipment was installed in the new addition of the General Office Building in 1978. 75% of our equipment was installed in 1956. Parts are no longer available for our equipment and replacement parts have to be manufactured.	n/a	Varies, but in the hundreds of thousands as equip. breaks down.	\$ 25,000	\$ -	0
Alternative 1: Brief name of alternative (if applicable)	During the Design Phase which occurred in 2008, several different types of HVAC delivery systems were compared and analyzed for distinct characteristics. Initial cost and life cycle cost were evaluated for the Project. By Value engineering our choices we were able to settle on our current system. Analysis is attached.	Updated municipal codes required us to increase air flow in the	\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	The only option that was discussed was to do "nothing", and maintain our 60 year old equipment. This scenario had been in place for the last 20 years, and time finally expired on the equipment. It is simply impractical to try to keep antiquated equipment up and running 24 hours a day when the replacement parts are no longer available.	describe any incremental changes in operations	Varies, but in the hundreds of thousands as equip. breaks down.	\$ 25,000	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in	\$ -	\$ -	\$ -	0

Timeline

Construction Cash Flows (CWIP)



	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 18,121,485	\$ -	\$ -	\$ 18,121,485
2012	\$ 4,300,000	\$ -	\$ -	\$ 4,300,000
2013	\$ 6,500,000	\$ -	\$ -	\$ 8,053,000
2014	\$ 10,000,000	\$ -	\$ -	\$ 6,550,000
2015	\$ -	\$ -	\$ -	\$ 5,750,000
2016	\$ -	\$ -	\$ -	\$ -
2017	\$ -	\$ -	\$ -	\$ -
2018	\$ -	\$ -	\$ -	\$ -
Future	\$ -	\$ -	\$ -	\$ -
Total	\$ 38,921,485	\$ -	\$ -	\$ 42,774,485

Milestones (high level targets)

October-07	5th Flr Start Const.	Jun-11	2nd Flr Start Const.
December-08	5th Flr In Service	Oct-12	2nd Flr In Service
March-09	4th Flr Start Const.	Jan-13	1st Flr/Bsmt Start Const.
February-10	4th Flr In Service	Mar-14	1st Flr/Bsmt In Service
May-10	3rd Flr Start Const.	Apr-14	70's Addition Start Const.
Mar-11	3rd Flr In Service	Jun-15	70's Addition In Service

Associated Ers (list all applicable):	Current ER	7101	7001	7003	7050
Mandate Excerpt (if applicable):	ASHRAE - When upgrading HVAC Systems, all design has to conform to ASHRAE standards, and air flows are regulated by the Washington Administrative code (WACS).				

Additional Justifications:



Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

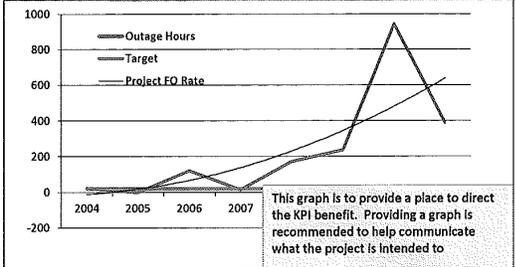
Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here
Fill in the name of the KPI here



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Reviewed signature Director/Manager

Other Party Review signature Director/Manager
 (if necessary) *Margie Stevens*

OVERVIEW

Avista Corp. needs to renovate the HVAC system that serves the five story general office building on their Spokane corporate campus. The need to renovate the system is due to the age of the current mechanical system which is approaching 50 years in the original portion of the office building and in excess of 30 years in the office building addition. While Avista has maintained the system exceptionally over the years, extending the expected life and performance, the current system is prone to failure, does not provide good flexibility, includes media energy that today's more efficient systems, and spare parts are difficult to locate.

As a result, Avista Corp. hired McKinstry to provide a design/build approach to the HVAC renovation. The first step in the process entailed determining the most appropriate HVAC system for the project. This was completed by generating various options for consideration, then developing information for each option that would allow McKinstry to recommend a solution to Avista, with Avista ultimately approving the recommended solution. In order to generate a list of potential HVAC system options, McKinstry completed on-site building reviews, met with facility personnel, and reviewed the building mechanical drawings. Based on these tasks, McKinstry developed the following options for review:

RENOVATION OPTIONS

- Existing System:** The existing system utilizes a single multizone air handling unit on each floor that serves a dual duct VAV system for the original office building portion. A multizone air handling unit located in a roof top penthouse serves all five floors of the new addition. The new addition also utilizes dual duct technology. Chilled water and heating water are provided to all air handling units via the central plant located in the Service Building. The duct distribution system throughout the building is a high velocity system, which creates noise levels and requires additional energy to distribute the air.
- Renovation Option #1:** This option replaces the existing air handling equipment with similar equipment in both size and function. The replacement of the dual duct distribution system, VAV boxes, controls, and other miscellaneous work are provided under this option.
- Renovation Option #2:** This option replaces the existing air handling equipment with a new heating unit and new cooling unit per floor (original building) and new heating unit and new cooling unit to serve the office addition. This option was developed as a way to increase energy performance over option #1. The replacement of the dual duct distribution system, VAV boxes, controls, and other miscellaneous work are provided under this option.
- Renovation Option #2a:** This option is the same as Option #2, however, it utilizes a lower discharge air temperature at the air handling units on each floor. By using a lower discharge air temperature, it is possible for the new air handling units on each floor to also serve the respective portion of the office addition for that floor. This eliminates the need for a penthouse mechanical system that serves the office addition. The replacement of the dual duct distribution system, VAV boxes, controls, and other miscellaneous work are provided under this option.
- Renovation Option #3:** This option provides alternating heating and cooling air handling units per floor in the original office building and new air handling units in the penthouse that serves the office addition. The replacement of the dual duct distribution system, VAV boxes, controls, and other miscellaneous work are provided under this option.

EVALUATION

In order to evaluate each option, McKinstry created a mechanical system selection matrix that included key information needed to select the proper system. This matrix is included as Attachment A - Mechanical System Option Evaluation. The primary factors that were evaluated on a qualitative basis included first costs and operational costs. Additional factors were also reviewed on a qualitative basis.

In order to develop the first cost budget, McKinstry created preliminary mechanical schematics that provided equipment information and layout, as well as duct distribution on floors. McKinstry's estimating group then developed mechanical first costs based on the available information. Mechanical first costs make up the majority of the overall first cost, however, there were other miscellaneous costs to consider for each option including electrical work and other miscellaneous work. For these items, McKinstry relied on consultants and past experience to develop the budgets.

In order to develop operational costs, McKinstry developed an energy model for each system to predict energy use and cost. The energy model simulates the energy use of the HVAC system over the course of an entire year. It is a custom model built around the existing building conditions, the weather data specific to Spokane, and the type of HVAC system modeled. Also, McKinstry's service group evaluated the specifics of each option and provided annual service costs (preventive maintenance, corrective maintenance costs) and service costs were combined to reach the overall operational cost for each option.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	Date	Template
		2012-2016

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: General

Business Case Name: Central Office Facility – Mission Campus (“COF”) Long-term Restriction Phase 2

ER No: ER Name:
7131 COF Long Term Restructuring Plan Phase 2

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$14,000¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	2,723	-	-	-	-	-	-	-	-	-	-	-	2,000	723
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	5,000	-	-	-	-	-	-	-	-	-	-	-	5,000	-

Business Case Description:

COF Long Term Restructuring Plan, Phase 2. This project involves the construction of a new Fleet Vehicle Garage and 4-story parking structure. By the end of 2015, Facilities projects will add approx. 183 new cubicles. Our parking lots will be beyond max capacity. The Fleet Garage is over 50 yrs old and is constrained. New garage will allow for maintenance of Compressed Natural Gas vehicles as the current bldg does not allow for this. Once Fleet is relocated there will be a distinct separation between operational/service vehicles and employee vehicle. This separation will increase safety by eliminating intermingling of pedestrians in work areas. Office building & parking garage is projected to allow Call Center and any leased facilities to come back to Mission campus. Ross Park conversion to office will secure any future employee expansion that will occur.

Offsets:

There are no offsets presented on the attached Business Case, however we anticipate increases in O&M costs in both 2015 and 2016 related to this project, as a result of the need for additional parking at our Mission Campus. We have included an increase in O&M costs of \$11,000 in 2015 and an incremental increase in O&M costs of \$11,000 in 2016 (a total of \$22,000). The allocation of these costs to Idaho in each year is \$3,530 Electric and \$640 Gas (\$7,060 Electric and \$1,280 Gas, total).

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	COF Lng Trm Restruct Ph2	Assessments:	
Requested Amount	\$43,500,000	Financial:	7.00%
Duration/Timeframe	5 Year Project	Strategic:	Other
Dept., Area:	Facilities	Business Risk:	Business Risk Reduction >10 and <= 15
Owner:	Mike Broemling and Eric Bowles	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski		
Category:	Project		
Mandate/Reg. Reference:	n/a	Assessment Score:	86

Recommend Project Description:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
COF Long Term Restructuring Plan, Phase 2. Increase Mission campus size by purchasing and developing adjacent lots, reroute Crescent Ave. to make one contiguous lot, construct new Fleet / Service Shops Building, convert all of 1950's Service Bldg to Office Space, and increase parking lot size and build 2-story parking structure. By end of 2015 Facilities projects will add approx. 183 new cubicles. Our parking lots will be beyond max capacity. The Fleet Garage is over 50 yrs old and is constrained by its dims from our ever enlarging vehicles and line trucks. New garage will allow for maintenance of CNG vehicles, current bldg does not allow this. Once Fleet is moved, a distinct separation b/n Operations / Service vehicles and Administrative Employees and vehicles. Separation will increase safety by eliminating intermingling of pedestrians in work areas. Office building & parking garage is projected to allow Call Center and any leased facilities to	State of the art fleet building. Service vehicles contained to north campus. Employee vehicles near main GOB.	\$ 47,500,000	\$ -	\$ -	2

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score	
		Capital Cost	O&M Cost	Other Costs		
Unfunded Project:	Employee parking shall overflow into Logan neighborhood. City of Spokane will probably enforce parking regulations if this occurs. Added 5-to-10 minutes walk time from employee cars to desks. All CNG vehicles will have to be maintained at Dollar Road Fleet Bldg, with its extra 15 minute travel time. Continued rental or purchased facilities off site of COF for Avista departments (i.e. call center).	n/a	\$ -	\$ -	\$ -	15
Alternative 1: Brief name of alternative (if applicable)	Build extra parking lot on Ross Court ONLY. Approx. 220 add'l spaces req'd. to offset new employee load. Inconvenient and increased walk times for employees.	describe any incremental changes in operations	\$ 2,000,000	\$ 20,000	\$ -	2
Alternative 2: Brief name of alternative (if applicable)	Build new fleet building off-site. Purchase new lot for construction. Travel times and inefficiencies greatly increased.	describe any incremental changes in operations	\$ 7,000,000	\$ 20,000	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ -	\$ -	\$ -	\$ -
2014	\$ 500,000	\$ -	\$ -	\$ 590,000
2015	\$ 2,000,000	\$ -	\$ -	\$ 1,410,000
2016	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000
2017	\$ 9,000,000	\$ -	\$ -	\$ 9,000,000
2018	\$ 14,000,000	\$ -	\$ -	\$ 14,000,000
2019	\$ 15,000,000	\$ -	\$ -	\$ 15,000,000
Total	\$ 43,500,000	\$ -	\$ -	\$ 43,000,000

Associated Ers (list all applicable):			
7126			

see note under add'l justification

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
7126	\$ -	\$ 500,000	\$ 2,000,000	\$ 3,000,000	\$ 38,000,000	\$ 43,500,000	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	SEE NOTE	\$ -	
0	\$ -	\$ -	\$ -	\$ -	UNDER ADD'L	\$ -	
0	\$ -	\$ -	\$ -	\$ -	JUSTIFICATIONS	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	\$ 500,000	\$ 2,000,000	\$ 3,000,000	\$ 38,000,000	\$ 43,500,000	

Additional Justifications:
PLEASE NOTE: Request \$500K in 2014 (start purchase adjacent lots), \$2M in 2015 (finish purchase adjacent lots), \$3M in 2016 (start N. Crescent Ave. reroute), \$9M in 2017 (finish N. Crescent reroute, start New Service Shops and Fleet Bldg), \$14M in 2018 (finish New Service Shops and Fleet Bldg), and \$15M in 2019 (Convert Old S. Bldg to Office and new parking garage/lot).

Milestones (high level targets)

April-16	Ross Court parking start construction	Aug-18	Ross Park convert to office start construction
September-16	Ross Court parking in service	May-19	Ross Park convert to office in service
January-16	Fleet Bldg Start Construction		
December-16	fleet bldg in service		
April-17	Park garage & office start const.		
May-18	Park garage & office in service		

Milestones should be general. Use your judgement on project progress so that progress can be measured.

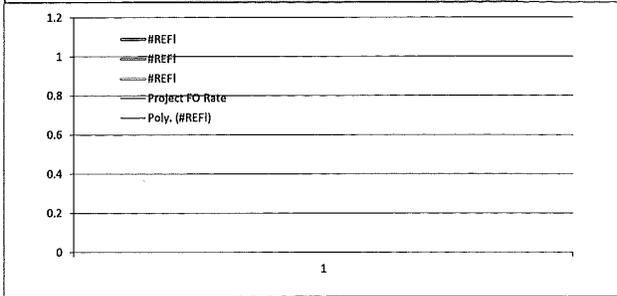
Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input checked="" type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required	Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required	Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required



Capital Project Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



Prepared Vance Ruppert

Reviewed Eric Bowles
Director/Manager

Other Party Review signature Margie Stevens
(if necessary) Director/Manager

PLEASE SEE DRAWINGS ATTACHED TO SHAREPOINT SITE FOR MORE INFO

COF LngTrm Restruct Ph2 REV JULY-14.pdf

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: General

Business Case Name: Sandpoint Renovation

ER No: 7137 **ER Name:** Sandpoint Service Center

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 500 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	500	-	-	-	-	-	-	-	-	-	-	-	500
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

This project will prepare the Sandpoint service center, which was originally built in the mid-1900s, for the next 50 years of service by redesigning and modernizing the building. The renovation will include the construction of a new linedock facility, covered storage buildings to protect equipment, modernization of office spaces and meeting rooms, and the construction of a small warehouse. This project will address current long-standing material and equipment storage issues and will result in increased efficiency of Avista’s operations in the service area.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	Sandpoint Renovation	Assessments:	
Requested Amount	\$5,500,000	Financial:	7.00%
Duration/Timeframe	2 Year Project	Strategic:	Value & Growth
Dept., Area:	Facilities Management	Business Risk:	Business Risk Reduction >0 and <= 5
Owner:	Mike Broemling & Eric Bowles	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopcznski		
Category:	Project		
Mandate/Reg. Reference:		Assessment Score:	88

Recommend Project Description:	Sandpoint Renovation	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<p>The purpose of this project is to build a new Sandpoint Service Center on a new lot. The Service Center was purchased in 1995 for \$181,483. Since that time Avista has invested \$514,423 in capital improvements to the Facility. In order to prepare the area for the next 50 years of service, we are asking to invest \$5,500,000 for a new lot and building. We propose constructing a new linedock facility, covered storage buildings for expensive equipment. Provide modernized offices, meeting rooms, and mini warehouse. The entire Facility will be fenced and card reader access gates installed. The HVAC systems will be modernized and this should result in significant energy savings. 2015: purchase property and design, 2016: construction.</p>			\$ 5,500,000	\$ 7,500	\$ -	0
Annual Cost Summary - Increase/(Decrease)						

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo	The Facility was constructed in the late 40's or early 50's and is a typical masonry building with several additions through the years. The layout is designed for a 1950's utility. Modernization and redesign will solve many long term material storage problems and equipment storage issues. Resulting in	n/a	Varies as items age. Could be in the tens, or hundreds of thousands.	\$ 20,000	\$ -	0
Alternative 1: Brief name of alternative (if applicable)	Continue to upgrade the Facility by doing small remodels and re-designs, trying to improve efficiencies.		Varies as items age. Could be in the tens, or hundreds of thousands.	\$ 20,000	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered		\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered		\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):			
	Capital Cost	O&M Cost	Other Costs	Approved				
Previous	\$ -	\$ -	\$ -	\$ -				
2013	\$ -	\$ -	\$ -	\$ -				
2014	\$ -	\$ -	\$ -	\$ -				
2015	\$ 500,000	\$ -	\$ -	\$ 500,000				
2016	\$ 5,000,000	\$ -	\$ -	\$ -				
2017	\$ -	\$ -	\$ -	\$ -				
2018	\$ -	\$ -	\$ -	\$ 3,000,000				
2019	\$ -	\$ -	\$ -	\$ 2,000,000				
Total	\$ 5,500,000	\$ -	\$ -	\$ 5,500,000				

ER	2013	2014	2015	2016	2019	Total	Mandate Excerpt (if applicable):
7001	\$ -	\$ -	\$ 500,000	\$ 5,000,000	\$ -	\$ 5,500,000	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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Total	\$ -	\$ -	\$ 500,000	\$ 5,000,000	\$ -	\$ 5,500,000	

Milestones (high level targets)	
March-15	Purchase new lot & start design docs
March-16	Start Construction
November-16	Plant in service

Resources Requirements: (request forms and approvals attached)			
Internal Labor Availability:	<input checked="" type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability
Enterprise Tech:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required	Capital Tools:
	<input checked="" type="checkbox"/> YES		<input type="checkbox"/> YES - attach form
			<input type="checkbox"/> NO or Not Required



Capital Project Business Case

Contract Labor: Low Probability Medium Probability High Probability YES NO
Facilities: YES - attach form NO or Not Required YES NO
Fleet: YES - attach form NO or Not Required YES - attach form NO or Not Required

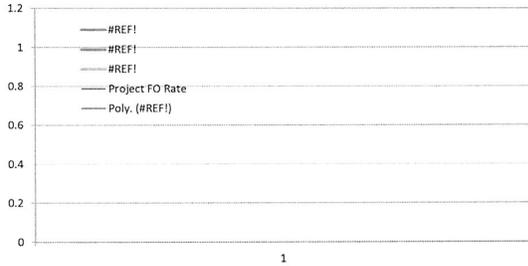


Capital Project Business Case

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



Prepared signature Rod Staton

Reviewed signature Eric Bowles
Director/Manager

Other Party Review signature Maggi Stevens
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Project

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: General

Business Case Name: New Airport Hangar

ER No: 7136
ER Name: New Airport Hangar

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,500¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	1,500	-	-	-	-	-	-	-	-	-	-	-	1,500

Business Case Description:

Avista's existing airport hangar will no longer be available to Avista in 2017, as the owner's lease will expire and the hangar will be demolished. This project will address the need for a hangar to secure the corporate airplane.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

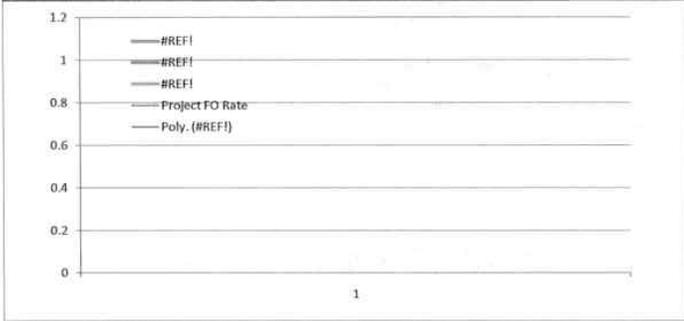


Capital Project Business Case

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here
Fill in the name of the KPI here



Prepared signature _____

Reviewed signature _____

Director/Manager

Other Party Review signature (if necessary) _____
Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Project

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Aldyl A Replacement

ER No: ER Name:

3008 Aldyl -A Pipe Replacement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 52,466 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	16,817	967	906	1,043	1,197	1,497	1,485	1,409	1,625	1,630	1,642	1,203	2,213
2016	17,385	1,000	937	1,078	1,238	1,548	1,535	1,456	1,680	1,685	1,697	1,244	2,288
2017	18,263	1,044	981	1,131	1,299	1,627	1,614	1,527	1,768	1,772	1,785	1,305	2,410

Business Case Description:

This program covers the replacement of 730 miles of pre-1987 Aldyl A mains and the remediation of 16,000 bending stress sites on services tapped from steel main. Due to the tendency for this material to suffer brittle-like cracking leak failures, Aldyl A will eventually reach a level of unreliability that is not acceptable. Please also see Company witness Labolle for further details regarding this program.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Aldyl A Replacement mains and bending stress	Assessments:				
Requested Amount	\$16.5MM	Financial:	Medium - >= 5% & <9% CIRR			
Duration/Timeframe	20 Year Program	Strategic:	Life Cycle Programs			
Dept., Area:	Gas Delivery	Operational:	Operations require execution to perform at current levels			
Owner:	Mike Faulkenberry	Business Risk:	ERM Reduction >5 and <= 10			
Sponsor:	Don Kopczynski	Program Risk:	High certainty around cost, schedule and resources			
Category:	Program	Assessment Score:	89			
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)				
Recommend Program Description:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
This program covers the replacement of 730 miles of pre-1987 Aldyl A mains and the remediation of 16,000 bending stress sites on services tapped from steel main. Due to the tendency for this material to suffer brittle-like cracking leak failures, Aldyl A will eventually reach a level of unreliability that is not acceptable. There is a potential harm to the public through damage to life and property and there is a high likelihood of increasing regulatory scrutiny from increasing failures.		As Aldyl A is removed, O&M expense associated with repairing the increasing leaks will be eliminated in proportion	\$ 10,250,000	\$ -	\$ -	5

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	If unfunded, the increasing failures of mains and services is modeled to result in more than 13 catastrophic events in Washington alone. Extended to Idaho and Oregon, the cost of the effects (at a 10% escalation) and increasing expenses for O&M leak repair could total more than \$60MM over a 20 year period, an average of \$3MM annually.	n/a			\$ 3,000,000	15
Alternative 1: Brief name of alternative (if applicable)	20 year replacement program: Replace 37 miles of main and remediate 800 service taps each year, prioritized by DIMP risk modeling. Modeling suggests that if pipe is removed on a first in-first out basis up to 3 catastrophic events could occur over 20 years, however, using a DIMP based approach to remove highest risk facilities first without regard to age only it may be possible to avoid any incidents.	As Aldyl A is removed, O&M expense associated with repairing the increasing leaks will be eliminated in proportion	\$ 17,552,196	\$ (60,000)	\$ -	5
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):			
5 years of costs					Current ER			
	Capital Cost	O&M Cost	Other Costs	Approved				
2012	\$ 5,000,000	\$ -	\$ -	\$ 5,000,000				
2013	\$ 10,250,000	\$ -	\$ -	\$ 12,710,904				
2014	\$ 17,552,196	\$ -	\$ -	\$ 16,702,196				
2015	\$ 17,817,429	\$ -	\$ -	\$ 16,817,429				
2016	\$ 18,885,272	\$ -	\$ -	\$ 17,385,272				
2017	\$ -	\$ -	\$ -	\$ 18,262,977				
2018	\$ -	\$ -	\$ -	\$ 18,648,237				
2019	\$ -	\$ -	\$ -	\$ 19,062,221				
Total	\$ 69,504,897	\$ -	\$ -	\$ 124,589,236				

2% inflation included in above numbers

Mandate Excerpt (if applicable):
provide brief citation of the law or regulation and a reference number if possible

Additional Justifications:
Avista has experienced 2 Injury and property damage events due to falling Aldyl A since 2005 and is currently bound by a settlement agreement with the Washing Utility and Transportation Commission. Further events of this nature will most likely result in some sort of mandatory pipe replacement program with a timeline we cannot control. Taking a proactive and priority-justified approach is critical at this time to protect life and property for the public as well as reduce Avista's exposure to the risks of liability and regulatory scrutiny.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided.



Capital Program Business Case

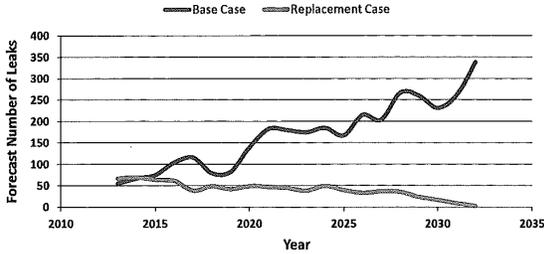
Fleet: YES - attach form
 YES - attach form NO or Not Required (this does not require a firm commitment).



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Prevention of leaks and their consequences
	Fill in the name of the KPI here

Prepared signature



Reviewed signature Director/Manager

Third Party Review signature Director/Manager
(if necessary) *Margi Stevens*

Business Case	ERM Risk Reduction	Unfunded Raw Score	Revised Risk Raw Score	Unfunded Project/Program Risk (no funding if a project, cease funding if an existing program)					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
Aldyl A Replacement (mains & bending stress tees)	15	20	5	3 - \$2MM - \$4MM	< Once / year	4 - Potential for regulators to impose onerous restrictions or Board or management to make leadership change	< Once / year		
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood
						5 - Potential for multiple loss of lives Wide spread damage on property or business Public health infrastructure impact up to 72 hours	< Once / year	2 - Potential for minimal or minor injury Lost Time Incident and Severity Rate Increases year over year	< Once / 5 years
				Revised Risk If funded/completed					
				3 - \$2MM - \$4MM	< Once / 50 years	3 - Could result in a sustained negative impact to local, online, or industrial relationships and / or national / global media coverage	< Once / 50 years		
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood
		5 - Potential for multiple loss of lives Wide spread damage on property or business Public health infrastructure impact up to 72 hours	< Once / 50 years	2 - Potential for minimal or minor injury Lost Time Incident and Severity Rate Increases year over year	< Once / 50 years				

Budget request for 2014, 2015, and 2016 were revised with updated budget projections based on new models and information.

WA UTC Docket UG-120715 Commission Policy on Accelerated Replacement of Pipeline with Elevated Risk was issued on December 31, 2012. The new policy will include a Cost Recovery Mechanism (CRM) based generally on the mechanism used in Oregon with NWNIG.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Cathodic Protection

ER No: 3004 **ER Name:** Cathodic Protection-Minor Blanket

Approved Business Case Spend Amount 2015-2017 (\$000s - System): **\$ 3,200¹**

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	1,292	44	43	58	67	80	102	100	100	100	89	73	97	342
2016	1,000	47	45	61	70	84	106	104	105	105	94	76	104	
2017	1,250	57	56	76	88	105	135	132	132	132	117	96	127	

Business Case Description:

This program will replace existing and install new cathodic protection systems to ensure compliance with 49 CFR 192, Subpart I - "Requirements for Corrosion Control" that requires pipelines be protected against external corrosion by means of a cathodic protection system. This program will ensure appropriate cathodic protection levels are maintained, reduce corrosion related failures, help prevent leaks within steel pipeline systems and enhance public safety.

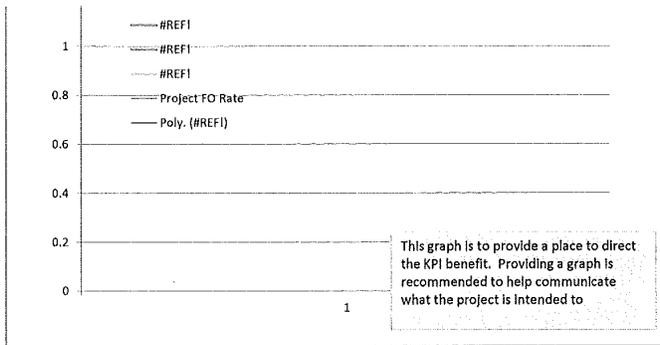
Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

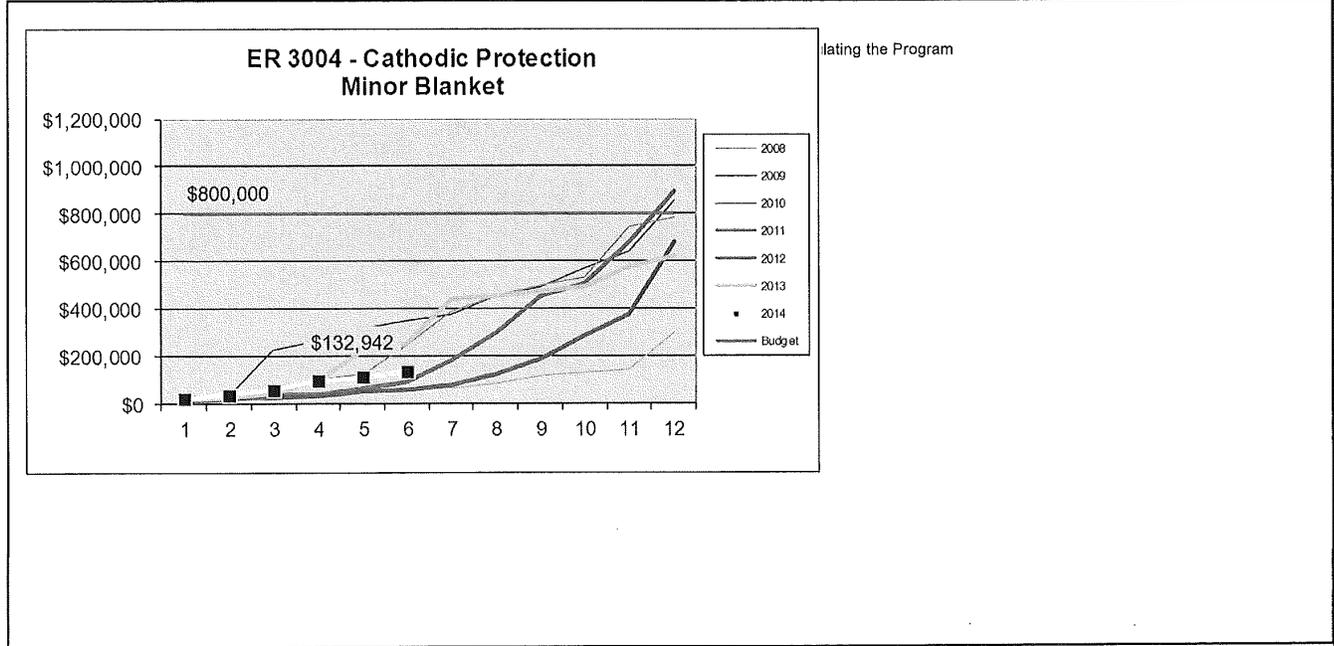


Capital Program Business Case



Reviewed signature Director/Manager

Other Party Review signature Director/Manager
 (if necessary) *Mandi Stevens*



To be completed by Capital Planning Group		Review Cycles	
Rationale for decision	2012-2016		
	Date	Template	

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Gas Non-Revenue Program

ER No: ER Name:

3005 Gas Distribution Non-Revenue Blanket

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 18,000¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	5,928	417	369	403	445	517	530	555	550	553	551	456	654	(72)
2016	6,000	424	373	405	446	517	525	553	546	549	551	456	655	
2017	6,000	425	373	405	446	517	525	554	545	549	550	456	654	

Business Case Description:

This annual program will replace sections of existing natural gas piping that require replacement to improve the operation of the gas system but are not directly linked to new revenue. The program includes replacement of pipe and facilities that are at the end of their useful life or have failed. It includes improvements in equipment and/or technology to enhance system operation and/or maintenance, replacement of obsolete facilities, replacement of main to improve cathodic performance, and projects to improve public safety and/or improve system reliability. Starting in 2014, costs associated with the labor and minor materials to complete the Planned Meter Change-out ("PMC") program will no longer be captured in this Business Case, they will be on the "Gas PMC Program".

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Gas Non-Revenue Program	Assessments:	
Requested Amount	\$5,600,000	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	On-Going Year Program	Strategic:	Reliability & Capacity
Dept., Area:	Gas Operations	Operational:	Operations require execution to perform at current levels
Owner:	Mike Faulkenberry	Business Risk:	ERM Reduction >10 and <= 15
Sponsor:	Don Kopczynski	Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Program	Assessment Score:	89
Mandate/Reg. Reference:		Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:	Performance	Capital Cost	O&M Cost
This annual program will replace sections of existing gas piping that require replacement to improve the operation of the gas system but are not directly linked to new revenue. The program includes replacement of pipe and facilities that are at the end of their useful life or have failed. It includes improvements in equipment and/or technology to enhance system operation and/or maintenance, replacement of obsolete facilities, replacement of main to improve cathodic performance, and projects to improve public safety and/or improve system reliability. Starting in 2014, costs associated with the labor and minor materials to complete the PMC program will no longer be captured in this Business Case, they will be on the "Gas PMC Program". This results in a \$1M reduction in the 2014 budget request; however the historical spend has been high in this category, so the resultant 2014 request is \$6,000,000 (total).	describe any incremental changes that this Program would benefit present operations	\$ 5,600,000	\$ -
			Other Costs
			Business Risk Score
			8

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Avista will be unable to complete capital non-revenue system enhancements	n/a	\$ -	\$ -	\$ -	8
Alternative 1: Brief name of alternative (if applicable)	Complete installation and/or upgrade of non-revenue assets.	n/a	\$ 5,600,000	\$ -	\$ -	2
Alternative 2: Brief name of alternative (if applicable)		n/a	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)		describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):			
5 years of costs					Current ER			
	Capital Cost	O&M Cost	Other Costs	Approved	3005			
Previous	\$ -	\$ -	\$ -	\$ -				
2012	\$ 4,223,000	\$ -	\$ -	\$ 3,823,000				
2013	\$ 4,349,690	\$ -	\$ -	\$ 7,949,690				
2014	\$ 5,600,000	\$ -	\$ -	\$ 6,600,000				
2015	\$ 6,000,000	\$ -	\$ -	\$ 6,000,000				
2016	\$ 6,000,000	\$ -	\$ -	\$ 6,000,000				
2017	\$ -	\$ -	\$ -	\$ 6,000,000				
2018	\$ -	\$ -	\$ -	\$ 6,000,000				
2019	\$ -	\$ -	\$ -	\$ 6,000,000				
Total	\$ 26,172,690	\$ -	\$ -	\$ 48,372,690				

Mandate Excerpt (if applicable):

Additional Justifications:
 The program addresses a number of mandatory projects, at the direction of the commission and/or projects that enhance public safety and system reliability. (Example: Incremental pipe enhancements, replacement of odorization equipment, installation of steel pipe to enhance system cathodic protection, etc.)

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).



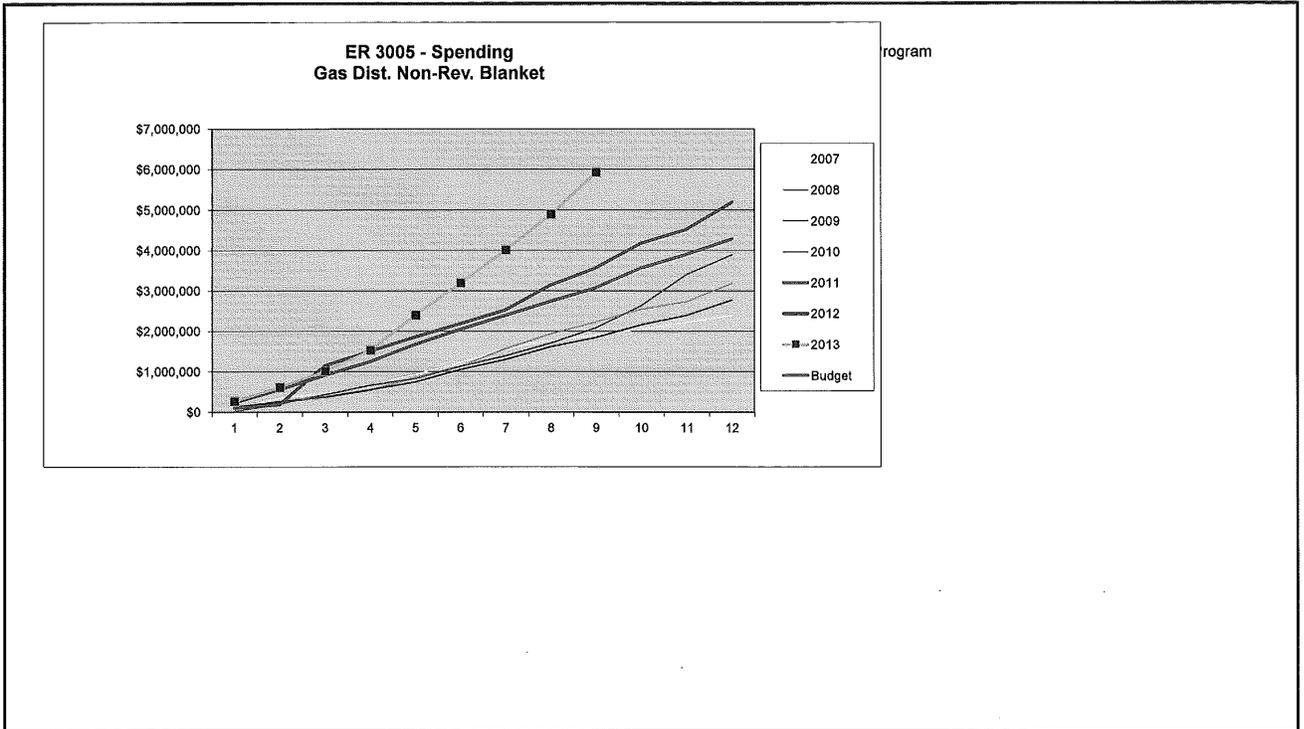
Capital Program Business Case

Key Performance Indicator(s)
Expected Performance Improvements
KPI Measure:

Prepared signature _____

Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stevens* _____
(if necessary) Director/Manager



To be completed by Capital Planning Group		Review Cycles	
Rationale for decision	2012-2016		
	Date	Template	

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Gas Reinforcement

ER No: ER Name:

3000 Gas Reinforce-Minor Blanket

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 2,800¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,000	68	56	66	74	81	103	116	95	96	87	81	77
2016	1,000	68	56	66	74	81	103	116	95	96	87	81	77
2017	800	60	48	54	60	65	79	92	73	74	69	65	61

Business Case Description:

This annual program will provide for necessary reinforcements and reliability looping of the existing gas distribution system in WA, ID, and OR. Avista has an obligation to provide reliable service that is of adequate pressure and capacity. Periodic reinforcement of the system is required to reliably serve due to increased demand at existing service locations and new customers. Execution of this program on an annual basis will ensure the continuation of reliable gas service that is of adequate pressure and capacity.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Gas Reinforcement	Assessments:	
Requested Amount	\$1,000,000	Financial:	MH - >= 9% & <12% CIRR
Duration/Timeframe	On-Going 2012+	Strategic:	Reliability & Capacity
Dept., Area:	Gas Operations	Operational:	Operations not impacted by execution
Owner:	Mike Faulkenberry	Business Risk:	ERM Reduction >10 and <= 15
Sponsor:	Don Kopczynski	Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Mandatory	Assessment Score:	143
Mandate/Reg. Reference:	WAC 480-90-148(2)(d), IDAPA 31.31.01.151, OR	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:		Performance	Capital Cost
This annual program will provide for necessary reinforcements and reliability looping of the existing gas distribution system in WA, ID, and OR. Avista has an obligation to provide reliable service that is of adequate pressure and capacity. Periodic reinforcement of the system is required to reliably serve due to increased demand at existing service locations and new customers. Execution of this program on an annual basis will ensure the continuation of reliable gas service that is of adequate pressure and capacity. The 2013 budget was cut and needs to be increased for 2014+ (to \$1,000,000) to ensure adequate capacity that will meet a design day load. Specific ER's may be added to this Business Case as they are defined as Reinforcement Projects.		describe any incremental changes that this Program would benefit present operations	\$ 1,050,000
		O&M Cost	Other Costs
		\$ -	\$ -
		Business Risk Score	4

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo :	Gas distribution reinforcements are identified on an on-going basis and need to be completed when identified to ensure continuation of reliable service.	n/a		\$ -	\$ -	16
Alternative 1: Pipe Installation	Capital Pipe Installations - Install additional pipe to reinforce and loop existing gas distribution system to increase system reliability.	Reduced system monitoring during cold	\$ 1,000,000		\$ -	4
Alternative 2: Uprate Alternative	Distribution System Uprates - Increase the operating pressure of existing gas distribution system to a 60 PSIG MAOP. Uprating gas distribution system will increase the delivery capacity in addition to increases operating efficiency by tying existing distribution system together with similar operating pressures.	Reduction in regulator station maintenance.	\$ 50,000	\$ 100,000	\$ -	4
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated ERs (list all applicable):				
2012-2016					Current ER				
	Capital Cost	O&M Cost	Other Costs	Approved Capital					
					3000				
2012	\$ 1,050,000	\$ -	\$ -	\$ 800,000					
2013	\$ 1,050,000	\$ -	\$ -	\$ 1,120,000					
2014	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000					
2015	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000					
2016	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000					
2017	\$ 800,000	\$ -	\$ -	\$ 800,000					
2018	\$ 600,000	\$ -	\$ -	\$ 600,000					
2019	\$ -	\$ -	\$ -	\$ 600,000					
Total	\$ 6,500,000	\$ -	\$ -	\$ 6,920,000					

Mandate Excerpt (if applicable):
WAC 480-90-148(2)(d), "Each gas utility must maintain its gas system in a condition that enables it to furnish safe, adequate, and efficient service." IDAPA 31.31.01.151, "Service to the customer shall assure the customer of adequate pressure, a definite heat content, and the accurate measurement of gas.", OR Tariff - Rule 14(A)(2), "The Company will exercise reasonable diligence and care to furnish and deliver a continuous and sufficient quantity of gas to its customers but does not guarantee continuity or sufficiency of quantity."

Additional Justifications:
Program required to reliably serve customers



Capital Investment Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

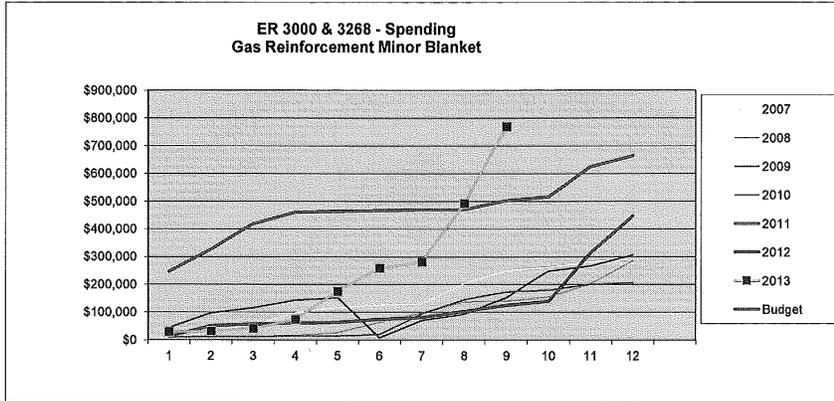
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Cold Weather Related Outages
	Fill in the name of the KPI here

Prepared signature

Reviewed signature Director/Manager

Other Party Review signature Director/Manager
 (if necessary) *Margie Stevens*



Business Case	ERM Risk Reduction	Status Quo Raw Score	Risk on Completion Raw Score	Status Quo Risk					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
Gas Reinforcement	12	16	4	2 - \$200k - \$2MM	< Once / year	4 - Potential for regulators to impose onerous restrictions or Board of management to make leadership change	< Once / year	5 -> 120,000 Customer-hours	< Once / 5 years
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood
						1 - Potential for Injury (Public health infrastructure impact up to 8 hours)	< Once / 10 years	1 - Potential for Injury	< Once / 50 years
				Risk upon Completion					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
				1 - < \$200k	< Once / 10 years	3 - Could result in a moderate negative impact to local, online, or industrial relationships and/or regional media coverage	< Once / 10 years	1 - < 1,500 Customer-hours	< Once / 10 years
Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood				
		1 - Potential for Injury (Public health infrastructure impact up to 8 hours)	< Once / 50 years	1 - Potential for Injury	< Once / 50 years				

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Gas Replacement Street & Highway

ER No: ER Name:

3003 Gas Replace-St&Hwy

3302 HWY 62 - HP & IP Main Relocation & SSFT #1316

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 13,500¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	5,035	266	244	283	322	395	408	401	434	436	431	329	552	535
2016	4,500	266	244	283	322	395	408	401	434	436	431	329	552	
2017	4,500	266	244	283	322	395	408	401	434	436	431	329	552	

Business Case Description:

This annual program will replace sections of existing gas piping that require replacement due to relocation or improvement of streets or highways in areas where natural gas piping is installed. Avista installs many of its facilities in public right-of-way under established franchise agreements. Avista is required under the franchise agreements, in most cases, to relocate its facilities when they are in conflict with road or highway improvements.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

Capital Investment Business Case



Investment Name:	Gas Replacement Street and Highway	Assessments:	
Requested Amount	\$4,500,000	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	On-Going	Strategic:	Other
Dept., Area:	Gas Operations	Operational:	Operations require execution to perform at current levels
Owner:	Mike Faulkenberry	Business Risk:	ERM Reduction >10 and <= 15
Sponsor:	Don Kopczynski	Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Mandatory	Assessment Score:	140
Mandate/Reg. Reference:	Franchise Agreements and Permits	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:		Performance	Capital Cost
This annual program will replace sections of existing gas piping that require replacement due to relocation or improvement of streets or highways in areas where gas piping is installed. Avista installs many of its facilities in public right-of-way under established franchise agreements. Avista is required under the franchise agreements, in most cases, to relocate its facilities when they are in conflict with road or highway improvements.			O&M Cost
			Other Costs
			Business Risk Score

			Annual Cost Summary - Increase/(Decrease)			
Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo :	Avista would be out of compliance with established franchise agreements and/or permits if work is not completed.	n/a	\$ -	\$ -	\$ -	16
Alternative 1:	Relocate facilities in conflict with street and highway projects where established franchise agreements and/or permits exist.	n/a	\$ 4,500,000	\$ -	\$ -	2
Alternative 2:		n/a	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)		describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
2012-2016					Current ER				
	Capital Cost	O&M Cost	Other Costs	Approved					
2012	\$ 2,200,000	\$ -	\$ -	\$ 2,200,000	3003				
2013	\$ 4,500,000	\$ -	\$ -	\$ 4,500,000	3302				
2014	\$ 4,500,000	\$ -	\$ -	\$ 4,300,000	3297				
2015	\$ 4,500,000	\$ -	\$ -	\$ 4,500,000					
2016	\$ 4,500,000	\$ -	\$ -	\$ 4,500,000					
2017	\$ 4,500,000	\$ -	\$ -	\$ 4,500,000					
2018	\$ 4,500,000	\$ -	\$ -	\$ 4,500,000					
2019	\$ -	\$ -	\$ -	\$ 4,500,000					
Total	\$ 29,200,000	\$ -	\$ -	\$ 33,550,000					

Mandate Excerpt (if applicable):
 Franchise agreements and typical state highway and R/R permits prescribe that the utility will relocate at their expense when in conflict with entity activities.

Additional Justifications:
 Mandatory work to maintain compliance with existing franchise and operating permits with state highway districts and rail roads.



Capital Investment Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

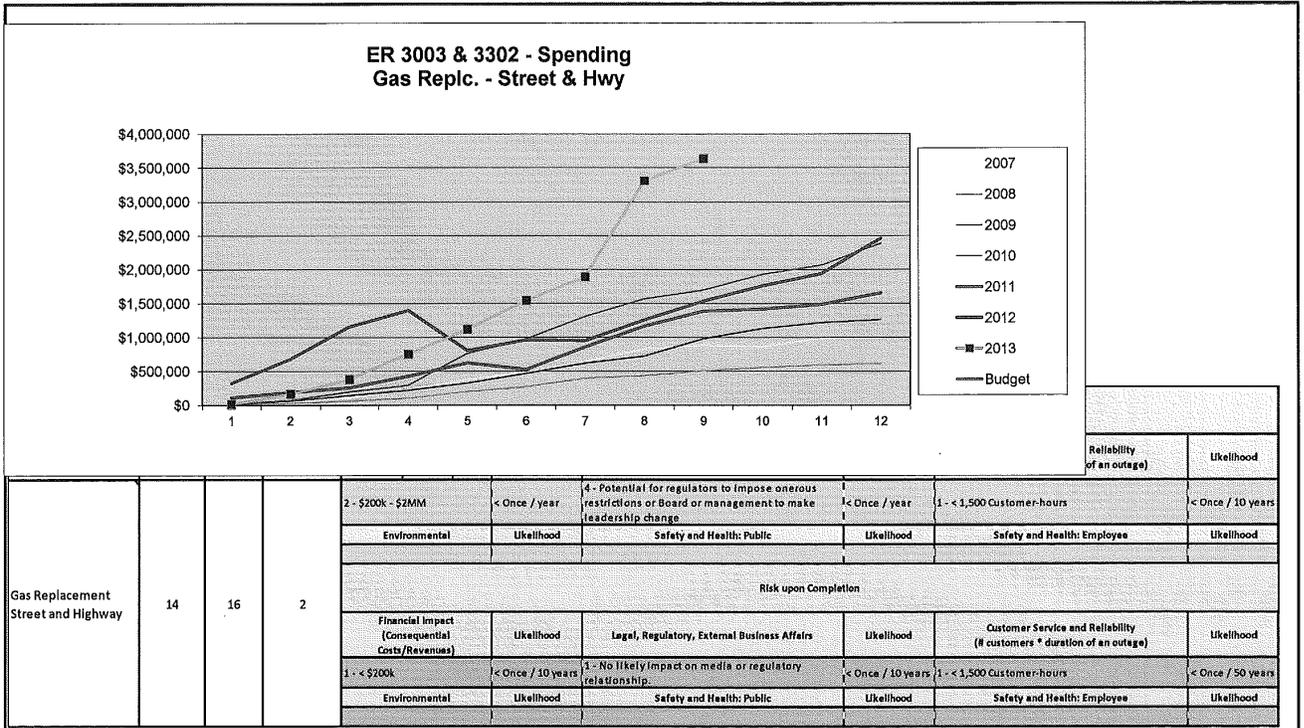
Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure:

Prepared signature _____

Reviewed signature _____
 Director/Manager

Other Party Review signature _____
 (if necessary) Director/Manager

Margie Stevens



To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Gas Telemetry Deployment

ER No: 3117
ER Name: Gas Telemetry

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,200¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	416	32	26	27	30	34	33	38	35	35	36	30	43	16
2016	400	32	26	27	30	34	33	38	35	35	36	30	43	
2017	400	32	26	27	30	34	33	38	35	35	36	30	43	

Business Case Description:

This program will continue the installations of gas telemetry throughout Avista's natural gas service territory. Further enhancing the telemetry sites will increase the visibility of the gas system to help analyze operational concerns and cold weather performance. This program will also replace the current mechanical pressure recording charts with electronic pressure recording devices. These types of projects also enhance our disaster recovery efforts by updating existing telemetry and adding new sites. Gas Scheduling benefits from this data also by having independent measurement points to check the pipelines values and to receive more timely information from the field.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Gas Telemetry	Assessments:	
Requested Amount	\$400,000	Financial:	7.00%
Duration/Timeframe	Year Program	Strategic:	Reliability & Capacity
Dept., Area:	Gas Engineering	Business Risk:	Business Risk Reduction >5 and <= 10
Owner:	Mike Faulkenberry	Program Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski		
Category:	Program		
Mandate/Reg. Reference:	CFR 192.741 192.631	Assessment Score:	81

Recommend Program Description: This program will continue the installations of gas telemetry throughout Avista's gas service territory. Further enhancing the telemetry sites will increase the visibility of the gas system to help analyze operational concerns and cold weather performance. This program will also replace the current mechanical pressure recording charts with electronic pressure recording devices. These types of projects also enhance our Disaster Recovery efforts by updating existing telemetry and adding new sites. Gas Scheduling benefits from this data also by having independent measurement points to check the pipelines values and to receive more timely information from the field.	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	describe any incremental changes that this Program would benefit present operations	Capital Cost	O&M Cost	Other Costs	
		\$ 400,000	\$ -	\$ -	1

Alternatives:		Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
Unfunded Program:	No further enhancements or maintenance of the existing telemetry system. Existing mechanical pressure recorders are expensive to fix and replace.	n/a	Capital Cost	O&M Cost	Other Costs	
			\$ -	\$ 50,000	\$ -	8
Alternative 1: Brief name of alternative (if applicable)	Increase the number of gas telemetry sites and maintain or upgrade existing facilities. This funding level was previously approved as part of the Gas PMC Business Case. We are now requesting to separate it out as it does not align well with the PMC program.	describe any incremental changes in operations	\$ 400,000	\$ -	\$ -	1
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 370,000	\$ -	\$ -	\$ 315,000
2015	\$ 370,000	\$ -	\$ -	\$ 400,000
2016	\$ 370,000	\$ -	\$ -	\$ 400,000
2017	\$ 370,000	\$ -	\$ -	\$ 400,000
2018	\$ 370,000	\$ -	\$ -	\$ 400,000
2019	\$ -	\$ -	\$ -	\$ 400,000
Total	\$ 1,850,000	\$ -	\$ -	\$ 2,315,000

Associated Ers (list all applicable):			
3117			

ER	2014	2015	2016	2017	2018	Total	Mandate Excerpt (if applicable):
3117	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 2,000,000	CFR 192.741 - Each distribution system supplied by more than one source must be equipped with telemetering or recording pressure gauges to indicate the gas pressure in the district.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	CFR 192.631 - Control Room Mgmt
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 400,000	\$ 2,000,000	Additional Justifications: Increased gas telemetry sites will also aide in the installation and monitoring of Automatic Shut Off or Remote Control Valves (ASO/RCV). Disaster Recovery - new telemetry sites are IP addressable to help in the event the primary dispatch center (Mission) is not available.				

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Isolated Steel Replacement

ER No: 3007
ER Name: Isolated Steel Replacement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 10,320¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	3,458	245	210	227	253	301	294	313	312	315	322	256	401	8
2016	3,550	250	215	233	260	310	303	321	322	325	332	263	415	
2017	3,320	207	187	210	239	293	290	286	314	315	319	241	419	

Business Case Description:

This annual program will replace sections of cathodically isolated steel pipe. Isolated portions of pipe including risers, service pipe and main will be replaced as required to meet the requirements of 49 CFR 192.455 & 157 and in accordance with WUTC Docket PG-100049. This program will be conducted in ID and OR also to assure cathodically isolated steel is identified and replaced as needed.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Isolated Steel Replacement	Assessments:	
Requested Amount	\$2,598,333	Financial:	High - Exceeds 12% CIRR
Duration/Timeframe	On-Going	Strategic:	Reliability & Capacity
Dept., Area:	Gas Operations	Operational:	Operations somewhat impacted by execution
Owner:	Mike Faulkenberry	Business Risk:	ERM Reduction >0 and <= 5
Sponsor:	Don Kopczynski	Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Mandatory	Assessment Score:	117
Mandate/Reg. Reference:	WAC Docket PG-100049, 49CFR192.455&157	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:		Performance	Capital Cost
This annual program will replace sections of cathodically isolated steel pipe. Isolated portions of pipe including risers, service pipe and main will be replaced as required to meet the requirements of 49 CFR 192.455 & 157 and in accordance with WAC Docket PG-100049. This program will be conducted in ID and OR also to assure cathodically isolated steel is identified and replaced as needed.		describe any incremental changes that this Program would benefit present operations	\$ 2,598,333
			\$ -
			\$ -
			12

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo :	Avista would be out of compliance with Docket PG-100049 and 49 CFR 192.455 & 457.	n/a	\$ -	\$ -	\$ -	12
Alternative 1:	Complete programmatic replacement of isolated steel pipe	n/a	\$ 2,598,333	\$ -	\$ -	9
Alternative 2:		n/a	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)		describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
2012-2016					Current ER				
	Capital Cost	O&M Cost	Other Costs	Approved Capital	3007				
2012	\$ 2,321,433	\$ -	\$ -	\$ 1,095,000					
2013	\$ 2,348,337	\$ -	\$ -	\$ 2,248,333					
2014	\$ 2,598,333	\$ -	\$ -	\$ 1,758,333					
2015	\$ 3,450,000	\$ -	\$ -	\$ 3,450,000					
2016	\$ 3,550,000	\$ -	\$ -	\$ 3,550,000					
2017	\$ 3,320,000	\$ -	\$ -	\$ 3,320,000					
2018	\$ 2,750,000	\$ -	\$ -	\$ 2,750,000					
2019	\$ 2,750,000	\$ -	\$ -	\$ 2,750,000					
Total	\$ 23,088,103	\$ -	\$ -	\$ 20,921,666					

Mandate Excerpt (if applicable):
 Docket PG-100049 (II) - "Agreement"(2) - Avista agrees to survey its entire Washington State pipeline system to find isolated steel and complete all remedial action set forth in this Agreement within five years of the effective date of this Agreement.

Additional Justifications:



Capital Investment Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

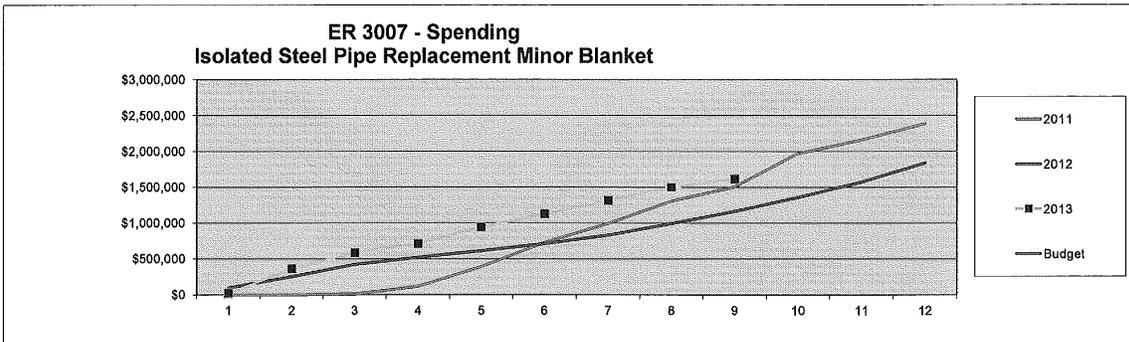
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)				
Expected Performance Improvements				
KPI Measure:				
B	U	Z	AA	
Department	YTD October 2013	Minimum to Complete 2013	Percent Complete	
1				
2	Spokane Gas Construction	586	650	90%
3	Roseburg	113	107	106%
4	Medford Construction	5	222	2%
6	Clarkston Electric & Gas	6	34	18%
7	La Grande	25	28	89%
8	Sandpoint / Bonners Ferry	4	7	57%
9	CDA Gas	38	31	123%
10	Klamath Falls	24	43	56%
11	Pullman Electric & Gas	14	98	14%
12	Total YTD 2013	815	1220	67%

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Reviewed signature _____
 Director/Manager

Other Party Review signature *Margie Stevens* _____
 (if necessary) Director/Manager



Business Case	ERM Risk Reduction	Status Quo Raw Score	Risk on Completion Raw Score	Status Quo Risk					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
Isolated Steel Replacement	3	12	9	3 - \$2MM - \$4MM	< Once / 5 years	4 - Potential for regulators to impose onerous restrictions or board or management to make leadership change	< Once / 5 years	1 - < 1,500 Customer-hours	< Once / 10 years
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood
				Risk upon Completion					
				3 - \$2MM - \$4MM	< Once / 5 years	2 - Could result in a moderate negative impact to local, online, or industrial relationships and / or regional media coverage	< Once / 10 years	1 - < 1,500 Customer-hours	< Once / 50 years
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Overbuilt Pipe Replacement

ER No: 3006 **ER Name:** Overbuilt Pipe Replacement Blanket

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 2,700 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	900	83	73	72	73	75	73	84	72	73	75	74	73
2016	900	83	73	72	73	75	73	84	72	73	75	74	73
2017	900	83	73	72	73	75	73	84	72	73	75	74	73

Business Case Description:

This program will replace sections of existing natural gas distribution piping that has either experienced encroachment or have been built over/covered by customer-constructed improvements (i.e. decks, driveways, etc.). These types of situations restrict the Company’s access to pipe. The project will address the replacement of sections of gas main and services that no longer can be operated safely. The replacements will be completed to enhance public safety. All types of overbuilds will be addressed with the primary focus of the project being overbuilds in manufactured/mobile home developments.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Overbuilt Pipe Replacement	Assessments:									
Requested Amount	\$900,000	Financial:	7.00%								
Duration/Timeframe	On Going Year Program	Strategic:	Reliability & Capacity								
Dept., Area:	Gas Operations	Business Risk:	Business Risk Reduction >5 and <= 10								
Owner:	Mike Faulkenberry	Program Risk:	High certainty around cost, schedule and resources								
Sponsor:	Don Kopczynski										
Category:	Mandatory										
Mandate/Reg. Reference:	49 CFR 192.361(f)	Assessment Score:	131								
Recommend Program Description:		Performance	Annual Cost Summary - Increase/(Decrease)								
This program will replace sections of existing gas piping that have experienced encroachment or have been overbuilt by customer constructed improvements (i.e. decks, driveways, etc.) that restricts the Company's access to pipe. It will address the replacement of sections of gas main and services that no longer can be operated safely. The replacements will be completed to enhance public safety. All types of overbuilds will be addressed with the primary focus of the project being overbuilds in manufactured/mobile home developments.		describe any incremental changes that this Program would benefit present operations	<table border="1"> <tr> <th>Capital Cost</th> <th>O&M Cost</th> <th>Other Costs</th> <th>Business Risk Score</th> </tr> <tr> <td>\$ 900,000</td> <td>\$ -</td> <td>\$ -</td> <td>4</td> </tr> </table>	Capital Cost	O&M Cost	Other Costs	Business Risk Score	\$ 900,000	\$ -	\$ -	4
Capital Cost	O&M Cost	Other Costs	Business Risk Score								
\$ 900,000	\$ -	\$ -	4								

Alternatives:		Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
Unfunded Program:			Capital Cost	O&M Cost	Other Costs	
	Avista will continue operating with increased risk due to overbuilds	n/a	\$ -	\$ -	\$ -	12
<i>Alternative 1: Brief name of alternative (if applicable)</i>	Complete programmatic replacement of overbuilt pipe.	describe any incremental changes in operations	\$ 900,000	\$ -	\$ -	4
<i>Alternative 2: Brief name of alternative (if applicable)</i>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<i>Alternative 3 Name : Brief name of alternative (if applicable)</i>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 500,000	\$ -	\$ -	\$ 500,000
2013	\$ 900,000	\$ -	\$ -	\$ 470,000
2014	\$ 900,000	\$ -	\$ -	\$ 700,000
2015	\$ 900,000	\$ -	\$ -	\$ 900,000
2016	\$ 900,000	\$ -	\$ -	\$ 900,000
2017	\$ 900,000	\$ -	\$ -	\$ 900,000
2018	\$ 900,000	\$ -	\$ -	\$ 900,000
2019	\$ -	\$ -	\$ -	\$ 900,000
Total	\$ 5,400,000	\$ -	\$ -	\$ 5,670,000

Associated Ers (list all applicable):			
3006			

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
3006	\$ 900,000	\$ 900,000	\$ 900,000	\$ 900,000	\$ 900,000	\$ 4,500,000	49 CFR 192.361(f) "Installation of service lines under buildings. Where an underground service line is installed under a building:" [Not allowed w/o conduit]
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 900,000	\$ 4,500,000	Additional Justifications: Avista operates with an increase risk to its customers and the general public when operating pipeline facilities that exist under structures.				

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).



Capital Program Business Case

Key Performance Indicator(s)
Expected Performance Improvements
KPI Measure:

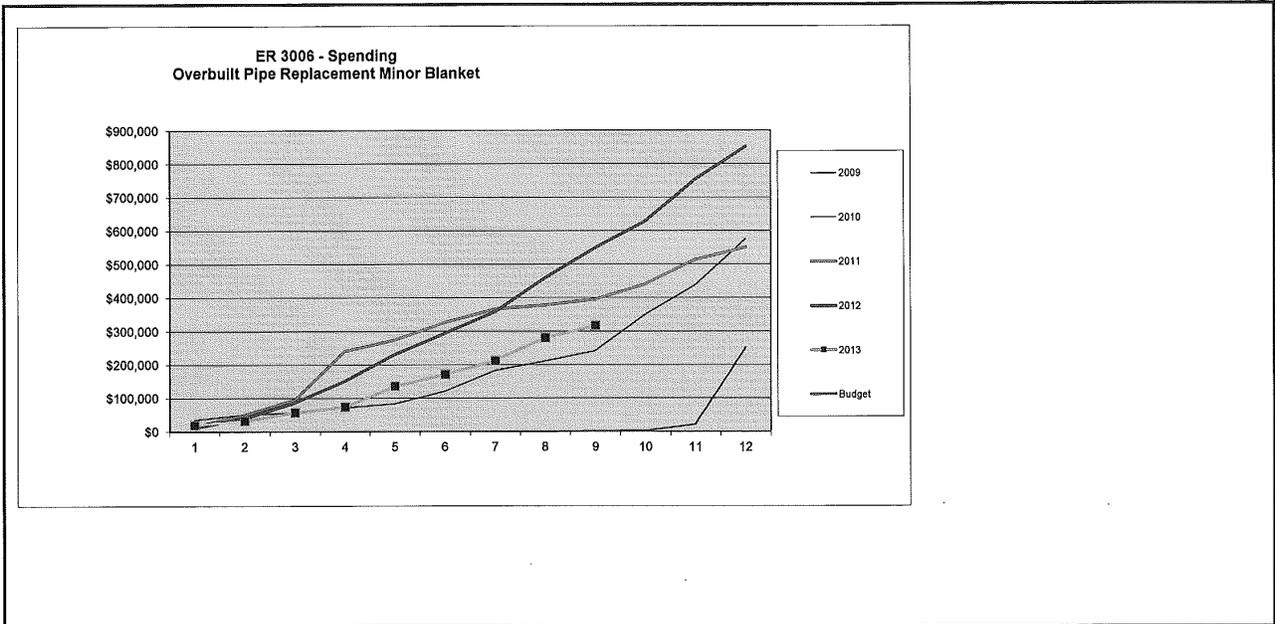
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Director/Manager

Other Party Review signature
(if necessary)

Marc Stuenkel
Director/Manager



To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Regulator Station Reliability Replacement

ER No: 3002 **ER Name:** Regulator Reliable - Blanket

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 2,400 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	812	45	39	51	58	64	88	94	81	82	70	64	63	12
2016	800	45	39	51	58	64	88	94	81	82	70	64	63	
2017	800	45	39	51	58	64	88	94	81	82	70	64	63	

Business Case Description:

This annual project upgraded or replaced various regulator stations within the natural gas distribution system, improving station reliability and reducing operation and maintenance costs. Existing stations required upgrades due to many factors, such as replacement of obsolete equipment and improvement in regulation technology.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Regulator Station Reliability Replacement		
Requested Amount	\$800,000		
Duration/Timeframe	On-Going Year Program		
Dept., Area:	Gas Operations		
Owner:	Typically Director		
Sponsor:	Typically Executive Officer		
Category:	Program		
Mandate/Reg. Reference:	PHMSA CFR 192.739		
Assessments:	Financial: 7.00%		
	Strategic: Life-cycle asset management		
	Business Risk: Business Risk Reduction >0 and <= 5		
	Program Risk: High certainty around cost, schedule and resources		
Assessment Score:	75	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:	Performance	Capital Cost	O&M Cost
This annual program will replace or upgrade existing regulator stations and meter stations to current Avista standards. This program will address enhancements that will improve system operating performance, safety, replacement of inadequate or antiquated equipment that is no longer supported, and ensure the reliable operation of metering and regulating equipment.	describe any incremental changes that this Program would benefit present operations	\$ 600,000	\$ -
			Other Costs
			\$ -
			Business Risk Score
			1

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Maintenance may not be able to be completed properly due to antiquated equipment. This could result in fines from PUC, leaks on stations, and higher rates of equipment failure.	n/a	\$ -	\$ -	\$ -	4
Alternative 1: Complete as described above.	Stations that require upgrade or replacement are identified on an on-going basis to ensure continued reliable operations. Stations that are not upgraded may pose a greater risk to leaks or affect system reliability.	Reduction in Reg Stn maintenance.	\$ 600,000	\$ -	\$ -	1
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 600,000	\$ -	\$ -	\$ 725,000
2015	\$ 800,000	\$ -	\$ -	\$ 800,000
2016	\$ 800,000	\$ -	\$ -	\$ 800,000
2017	\$ 800,000	\$ -	\$ -	\$ 800,000
2018	\$ 800,000	\$ -	\$ -	\$ 800,000
2019	\$ 800,000	\$ -	\$ -	\$ 800,000
2020+	\$ 800,000	\$ -	\$ -	\$ -
Total	\$ 5,400,000	\$ -	\$ -	\$ 4,725,000

Associated Ers (list all applicable):

3002		

ER	2014	2015	2016	2017	2019	Total	Mandate Excerpt (if applicable):
3002	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 4,000,000	CFR § 192.739 - Pressure-limiting and regulating stations: inspection and testing. Mandates that Regulating Stations must be inspected annually. If older components are not repairable, then maintenance might not be completed appropriately. Additional Justifications: Approximately 50% of the spending is required to satisfy the replacement of antiquated equipment or have an elevated safety risk. Approximately 50% of the spending is strategic and provides enhancements that facilitate operation and maintenance.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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Total	\$ 800,000	\$ 4,000,000					

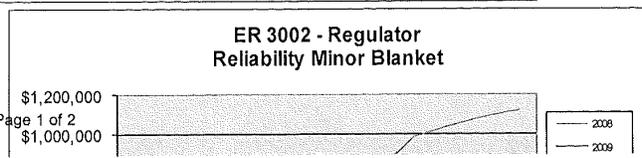
Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

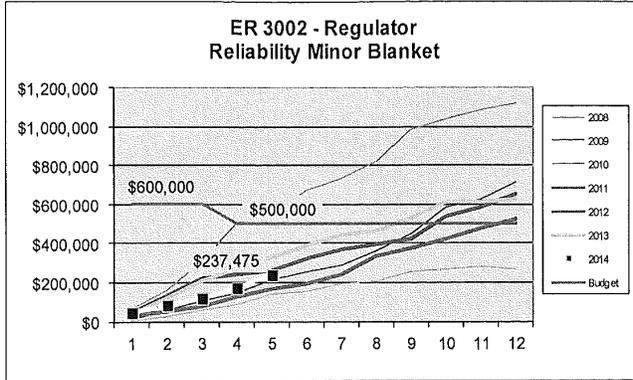
Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure:



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Capital Program Business Case



Reviewed signature Director/Manager

Other Party Review signature Director/Manager
(if necessary)

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

Business Case	ERM Risk Reduction	Status Quo Raw Score	Risk on Completion Raw Score	Status Quo Risk					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
Regulator Station Reliability Replacement	2	4	2	1 - < \$200k	< Once / 10 years	2 - Could result in a moderate negative impact to local, online, or industrial relationships and /or regional media coverage	< Once / 10 years	1 - < 1,500 Customer-hours	< Once / 10 years
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood
				1 - isolated spill with 0 to low level PCBs, no migration, air emission minor exceedence, standard clean-up	< Once / 10 years	1 - Potential for injury Public health infrastructure impact up to 8 hours	< Once / 10 years	1 - Potential for injury	< Once / 10 years
				Risk upon Completion					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
				1 - < \$200k	< Once / 10 years	1 - No likely impact on media or regulatory relationship	< Once / 50 years	1 - < 1,500 Customer-hours	< Once / 50 years
Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood				
1 - isolated spill with 0 to low level PCBs, no migration, air emission minor exceedence, standard clean-up	< Once / 50 years	1 - Potential for injury Public health infrastructure impact up to 8 hours	< Once / 50 years	1 - Potential for injury	< Once / 50 years				

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Replace Deteriorating Steel Gas Systems

ER No: ER Name:

3001 Replace Deteriorating Gas System

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 3,000¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,000	40	40	60	70	80	120	120	110	110	90	80	80
2016	1,000	40	40	60	70	80	120	120	110	110	90	80	80
2017	1,000	40	40	60	70	80	120	120	110	110	90	80	80

Business Case Description:

This annual program will replace sections of existing steel gas piping that are suspect for failure or are showing signs of deterioration within the gas system. This program will address the replacement of sections of gas main with corrosion related issues that no longer operate reliably and/or safely. Sections of the gas system require replacement due to many factors including material failures, environmental impact, increased leak frequency, or coating problems. This program will identify and replace sections of steel pipe to improve public safety and system reliability. The projects primary focus is to address corrosion related pipe issues.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Repl. Deteriorating Steel Gas Systems	Assessments:	
Requested Amount	\$800,000	Financial:	<= 0% CIRR
Duration/Timeframe	On-Going	Strategic:	Life Cycle Programs
Dept., Area:	Gas Operations	Operational:	Operations improved beyond current levels
Owner:	Mike Faulkenberry	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Don Kopczynski	Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Program	Assessment Score:	79
Mandate/Reg. Reference:		Annual Cost Summary - Increase/(Decrease)	

Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
This annual program will replace sections of existing steel gas piping that are suspect for failure or are showing signs of deterioration within the gas system. This program will address the replacement of sections of gas main with corrosion related issues that no longer operate reliably and/or safely. Sections of the gas system require replacement due to many factors including material failures, environmental impact, increased leak frequency, or coating problems. This program will identify and replace sections of steel pipe to improve public safety and system reliability; it's primary focus is to address corrosion related pipe issues.	describe any incremental changes that this Program would benefit present operations	\$ 800,000	\$ -	\$ -	1

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo: A number of locations have been identified in Medford, Klamath Falls, Roseburg, and La Grande OR that have older main at a higher operating risk related to leaks.	n/a	\$ -	\$ -	\$ -	6
Alternative 1: Pipe Installation Strategically replace sections of at-risk steel piping.	Reduced risk of system leaks	\$ 800,000	\$ -	\$ -	1
Alternative 2:	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
2012-2016					Current ER				
	Capital Cost	O&M Cost	Other Costs	Approved	3001				
2012	\$ 800,000	\$ -	\$ -	\$ 800,000					
2013	\$ 600,000	\$ -	\$ -	\$ 665,000					
2014	\$ 800,000	\$ -	\$ -	\$ 1,280,000					
2015	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000					
2016	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000					
2017	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000					
2018	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000					
2019	\$ -	\$ -	\$ -	\$ 1,000,000					
Total	\$ 6,200,000	\$ -	\$ -	\$ 7,745,000					

Mandate Excerpt (if applicable):
N/A

Additional Justifications:
This program has been executed historically using a qualitative assessment method at the district level.



Capital Investment Business Case

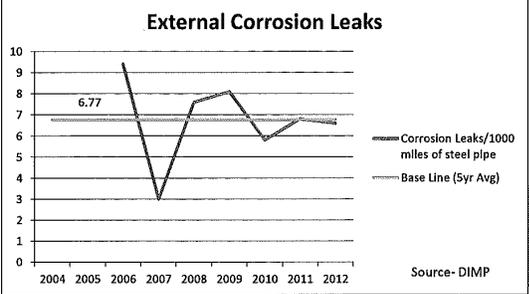
Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure: Leak Rate/ 1000 miles of steel pipe

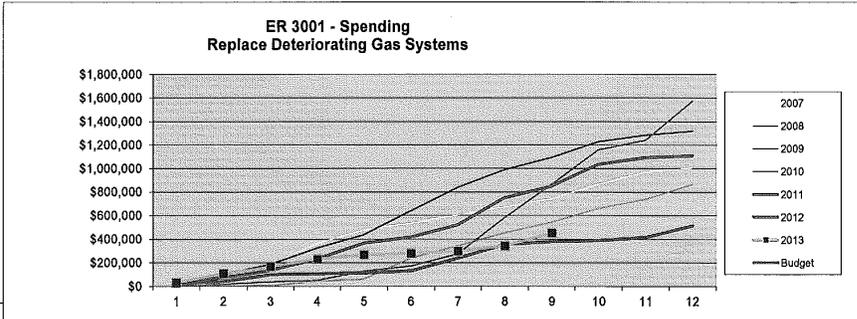


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Other Party Review signature (if necessary) Director/Manager

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Business Case	Reduction	Impact Score	Compliance Raw Score	Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
Repl. Deteriorating Steel Gas Systems	7	8	1	3 - \$2MM - \$4MM	< Once / 10 years	4 - Potential for regulators to impose onerous restrictions or Board or management to make leadership change	< Once / 10 years	< 1,500 Customer-hours	< Once / 10 years
				Environmental	Likelihood	Safety and Health Public	Likelihood	Safety and Health Employee	Likelihood
				1 - Isolated spill with 0 to low level PCBs, no migration, air emission minor exceedance, standard clean-up	< Once / year	3 - Potential for serious injury Significant damage to equipment, property or business	< Once / 10 years	1 - Potential for injury	< Once / 10 years
				Risk upon Completion					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
				1 - < \$200K	< Once / 50 years	1 - No likely impact on media or regulatory relationship	< Once / 50 years	< 1,500 Customer-hours	< Once / 50 years
				Environmental	Likelihood	Safety and Health Public	Likelihood	Safety and Health Employee	Likelihood
				1 - Isolated spill with 0 to low level PCBs, no migration, air emission minor exceedance, standard clean-up	< Once / 50 years	1 - Potential for injury Public health infrastructure impact up to 8 hours	< Once / 50 years	1 - Potential for injury	< Once / 50 years

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: HP Pipeline Remediation Program

ER No: ER Name:

3057 Gas HP Pipeline Remediation Program

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 6,000¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	3,000	-	-	-	-	-	-	-	-	-	-	-	3,000
2017	3,000	-	-	-	-	-	-	-	-	-	-	-	3,000

Business Case Description:

The intent of this program is to replace segments of high pressure pipelines as determined by Avista's TIMP, DIMP, and Asset Management programs. Additionally, high pressure pipelines without Traceable, Verifiable, and Complete MAOP records will be replaced within this program.

The "Federal Mega-Rule" is expected to become final in 2015 that will make this work mandatory. Depending on the language of the rule, the annual spending levels may need to be increased.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

Capital Program Business Case



Investment Name:	High Pressure Pipeline Remediation Prog
Requested Amount	\$5,000,000
Duration/Timeframe	5+ Year Program
Dept., Area:	Gas Engineering
Owner:	Mike Faulkenberry
Sponsor:	Don Kopczynski
Category:	Program
Mandate/Reg. Reference:	DOT-PHMSA 192.7xx

Assessments:
 Financial: 7.00%
 Strategic: Life-cycle asset management
 Business Risk: Business Risk Reduction >5 and <= 10
 Program Risk: High certainty around cost, schedule and resources

Recommend Program Description:	Assessment Score: 91
The intent of this program is to replace segments of high pressure pipelines as determined by Avista's TIMP, DIMP, and Asset Management programs. Additionally, high pressure pipelines without Traceable, Verifiable, and Complete MAOP records will be replaced within this program.	Performance: Ensure the MAOP records are Traceable, Verifiable, and Complete.
The "Federal Mega-Rule" is expected to become final in 2015 that will make this work mandatory. Depending on the language of the rule, the annual spending levels may need to be increased.	Annual Cost Summary - Increase/(Decrease) Capital Cost \$ 3,000,000 O&M Cost \$ - Other Costs \$ -

Alternatives:	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Capital Cost	O&M Cost	Other Costs	
Unfunded Program: Left unfunded, Avista is at risk of being non-compliant with Federal Codes and Standards, especially when the rule making becomes final.	\$ -	\$ -	\$ -	8
Alternative 1: Program as described above Replace high pressure gas pipelines	\$ 3,000,000	\$ -	\$ -	1
Alternative 2: Brief name of alternative (if applicable) Describe other options that were considered	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable) Describe other options that were considered	\$ -	\$ -	\$ -	0

Program Cash Flows	Associated Ers (list all applicable):		
	Capital Cost	O&M Cost	Other Costs
Previous	\$ -	\$ -	\$ -
2015	\$ 3,000,000	\$ -	\$ -
2016	\$ 5,000,000	\$ -	\$ -
2017	\$ 5,000,000	\$ -	\$ 3,000,000
2018	\$ 5,000,000	\$ -	\$ 3,000,000
2019	\$ 5,000,000	\$ -	\$ 3,000,000
2020+	\$ 5,000,000	\$ -	\$ -
Total	\$ 28,000,000	\$ -	\$ 12,000,000



Capital Program Business Case

This graph is to provide a place to direct the KPI benefit. Providing a graph is recommended to help communicate what the project is intended to

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group
Rationale for decision

Review Cycles
2012-2016

Date

Template

Capital Program Business Case



**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Gas Planned Meter Change-out (“PMC”) Program - Capital Replacements

ER No: 3055 **ER Name:** Gas Meter Replacement Non-Revenue

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 3,184 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,030	80	64	70	77	85	97	113	92	93	89	82	86
2016	1,061	81	66	72	79	87	100	117	96	97	92	85	89
2017	1,093	82	67	74	82	90	104	120	99	100	95	87	92

Business Case Description:

This annual program will provide for replacement of gas meters and associated measurement equipment that are completed in association with the Gas Planned Meter Change-out (PMC) program. Avista is required by commission rules and an approved Tariff in WA, ID, and OR to test meters for accuracy and ensure proper metering performance. Execution of this program on an annual basis will ensure the continuation of reliable gas measurement. This program will include the labor and minor materials associated with the PMC program. Major materials (meters, regulators, and ERTs) will be charged to the appropriate growth ERs.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	# of meter changed out vs. # required (this changes annually)

Prepared signature

Reviewed signature

Director/Manager

Other Party Review signature
(if necessary)

Margie Stevens
Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

MANDATE EXCERPT: OAR 860-023-0015(3) - "Each energy utility shall adopt schedules for periodic tests and repairs of meters. The length of time meters shall be allowed to remain in service before receiving periodic tests and repairs is to be determined from periodic analysis of the accuracy of meters tested. The schedules adopted shall be subject to the Commission's approval."

ADDITIONAL COMMENTS: Program required to reliably serve customers, ensure accurate measurement, and properly bill gas revenue. These charges had historically gone into ER3005, the Business Case for ER3005 will be adjusted to show the change starting in 2014. Historically ER3117 had been combined with this program, as of 1-1-14, it will be on its own Business Case.

Previous Scoring:

Business Case	Business Risk Reduction	Unfunded Raw Score	Revised Risk Raw Score	Unfunded Project/Program Risk (no funding if a project, cease funding if an existing program)					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
Gas PMC Program_Capital Replacements	12	16	4	2- \$200k - \$250M	< Once / year	4- Potential for regulators to impose onerous restrictions or Board for management to make leadership change	< Once / year	1- < 1000 Customer-hours	< Once / 10 years
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood
						1- Potential for injury	< Once / 10 years	1- Potential for injury	< Once / 50 years
						Public health infrastructure impact up to 8 hours	< Once / 10 years		
				Revised Risk if funded/completed					
				1- < \$200k	< Once / year	1- No likely impact on media or regulatory relationships	< Once / 50 years	1- < 1000 Customer-hours	< Once / 50 years
Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood				
		1- Potential for injury	< Once / 50 years	1- Potential for injury	< Once / 50 years				
		Public health infrastructure impact up to 8 hours	< Once / 50 years						

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Rathdrum Prairie HP Main Reinforcement Project

ER No: 3301 **ER Name:** Rathdrum Prairie HP Gas Reinforcement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 10,000 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	5,000	-	-	-	-	-	-	-	-	-	5,000	-	-
2017	5,000	-	-	-	-	-	-	-	-	-	5,000	-	-

Business Case Description:

Based on recent load studies, load growth on NWP’s Coeur d’Alene lateral will exceed both Avista’s contractual delivery amounts as well as the physical capacity of Northwest Pipeline. This project includes the expansion of a gate station at Chase Road off the GTN pipeline to support a phased-in high-pressure pipeline reinforcement to meet projected capacity requirements in Post Falls and Coeur d’Alene, which are currently fed from Northwest Pipeline.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Chase Road Gate Station

ER No: ER Name:

3246 Construct Chase Rd Gate Stn Post Falls ID

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 0¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	5,987	-	-	-	-	-	-	-	-	-	-	-	-	5,987
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	
2017	-	-	-	-	-	-	-	-	-	-	-	-	-	

Business Case Description:

This project reinforces gas service to the Rathdrum and greater Coeur d'Alene area by installing a new gate station near Chase Road and extending high pressure main to reinforce the existing Rathdrum/Couer d'Alene high pressure distribution system.

Offsets:

There are no anticipated offsets with this business case.

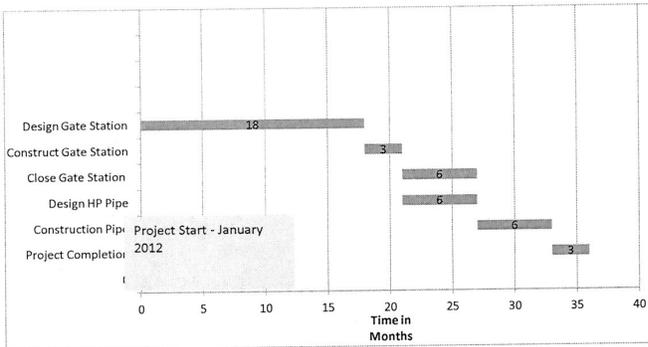
¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Chase Rd. Gate Station Installation	Assessments:				
Requested Amount	\$5,400,000	Financial:	MH - >= 9% & <12% CIRR			
Duration/Timeframe	no. years: 2 Year Project: 2013/2014	Strategic:	Reliability & Capacity			
Dept., Area:	Gas Engineering	Operational:	Operations require execution to perform at current levels			
Owner:	Mike Faulkenberry	Business Risk:	ERM Reduction >0 and <= 5			
Sponsor:	Don Kopczyński	Project/Program Risk:	Moderate certainty around cost, schedule and resources			
Category:	Project	Assessment Score:	76	Cost Summary - Increase/(Decrease)		
Mandate/Reg. Reference:	IDAPA 31.31.01.151					
Recommend Project Description:		Performance	Capital Cost	O&M Cost	Other Costs	
This project will reinforce the Rathdrum and greater Coeur d'Alene area by installing a new gate station near Chase Rd and extending high pressure main to reinforce the existing Rathdrum/CDA high pressure distribution system. The CDA area gas demand exceeds the existing Rathdrum gate station capacity on a design day. Reinforcement of the system is required to continue to provide reliable service to the Rathdrum and greater CDA area. Furthermore, the addition of the new gate station will provide for future growth opportunities in the, Post Falls area.		describe any incremental changes that this project would benefit present operations	\$ 4,300,000	\$ -	\$ -	Business Risk Score 2
		Cost Summary - Increase/(Decrease)				
Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	
Status Quo:	The existing Rathdrum Gate station is near capacity on a design day. Avista will be challenged to serve customers as the CDA area grows.	n/a	\$ -	\$ -	\$ -	Business Risk Score 6
Alternative 1:	Install new gate station near Chase Road and loop the existing HP distribution piping. This option allows for additional system reliability over upgrading the existing Rathdrum gate station due to looping of the HP distribution piping and accommodate future growth in the Post Falls area.	looped HP system is a benefit	\$ 5,400,000	\$ -	\$ -	2
Alternative 2:	Upgrade existing Rathdrum Gate Station to accommodate increase flows and loop existing high pressure gas main.	describe any incremental changes in operations	\$ 4,000,000	\$ -	\$ -	2
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered.	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Timeline



Construction Cash Flows (CWIP)

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2012	\$ -	\$ -	\$ -	\$ -
2013	\$ 1,100,000	\$ -	\$ -	\$ 1,200,000
2014	\$ 5,400,000	\$ -	\$ -	\$ 4,670,000
2015	\$ -	\$ -	\$ -	\$ -
2016	\$ -	\$ -	\$ -	\$ -
2017	\$ -	\$ -	\$ -	\$ -
2018	\$ -	\$ -	\$ -	\$ -
Future	\$ -	\$ -	\$ -	\$ -
Total	\$ 6,500,000	\$ -	\$ -	\$ 5,870,000

Milestones should be general. In some cases it may be as simple as project start, project complete. Use your judgement on project progress so that progress can be measured.

Milestones (high level targets)

January-12	Project Started	April-14	HP Pipe Designed
April-13	Gate - Major Procurement Complete, Initiate Intern:	October-14	HP Pipe Construct
June-13	Gate Station Plan/Design	December-14	Close Project
July-13	Construction Start		
October-14	Gate - In Service		

Associated Ers (list all applicable):

Current ER	3246					
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Mandate Excerpt (if applicable):

IDAPA 31.31.01.151, "Service to the customer shall assure the customer of adequate pressure, a definite heat content, and the accurate measurement of gas."

Additional Justifications:

Engineering studies support the need for reinforcement of the Rathdrum Gate Station. (See Attached Graph). Currently the Chase Rd, Post Falls area does not need reinforced but the addition of a gate station at Chase Road is the most strategic location for a gate station and will result in gate station locations that are balance across Spokane Valley and the Rathdrum Prairie.



Capital Investment Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO
 Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure:

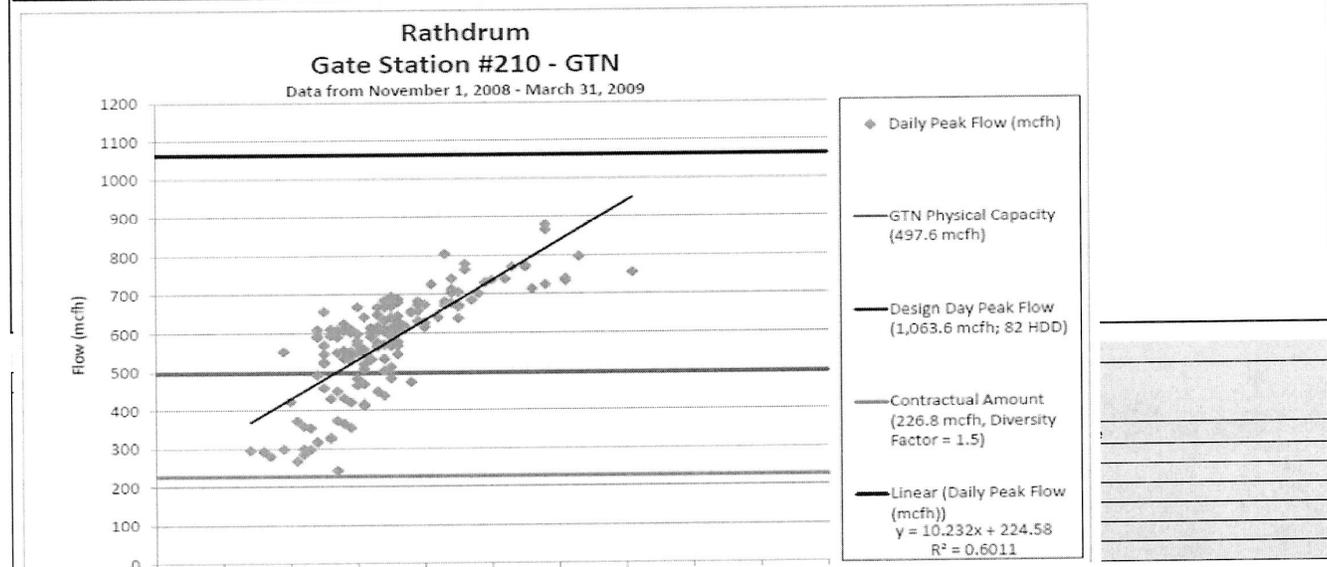
Prepared signature

Reviewed signature Director/Manager

Other Party Review signature *Margie Stevens* Director/Manager
 (if necessary)

This space is to be used for photographs, charts, or other data that may be useful in evaluating the project

Business Case	ERM Risk Reduction	Status Quo Raw Score	Risk on Completion Raw Score	Status Quo Risk					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
Chase Rd. Gate Station Installation	4	6	2	2 - \$200k - \$2MM	< Once / 10 years	2 - Could result in a moderate negative impact to local, online, or industrial relationships and/or regional media coverage	< Once / 10 years	3 - >7,500 Customer-hours	< Once / 10 years
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood
				Risk upon Completion					
				1 - < \$200k	< Once / 10 years	1 - No likely impact on media or regulatory relationship.	< Once / 50 years	1 - < 1,500 Customer-hours	< Once / 10 years
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood



**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Natural Gas Distribution

Business Case Name: Encoder Receiver Transmitter (“ERT”) Replacement Program

ER No: ER Name:

3054 Gas ERT Replacement Program

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,340¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	402	31	25	27	30	33	37	43	36	36	35	32	36
2016	444	33	27	30	33	37	41	47	41	41	39	35	41
2017	494	35	29	33	36	41	47	52	46	46	44	39	46

Business Case Description:

This program covers labor required for the consistent replacement of 19,500 gas ERTs annually for a 12-year cycle, beginning in the year 2015. Analyses has identified that a levelized replacement strategy will minimize the effect of unit failures as well as introduce new, levelized populations of ERTs into the system for future predictive maintenance. Large populations of ERTs are predicted to fail in quantities of over 20,000 units per year at the peak, causing an operations burden of personnel and equipment as well as an unreasonable number of estimated bills (currently Avista experiences just a couple hundred failures annually due to small ERT populations). The cost of the ERT will go against ER1053, not this business case.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	ERT Replacement Program	Assessments:	
Requested Amount	\$400,000	Financial:	7.00%
Duration/Timeframe	12 Year Program	Strategic:	Life-cycle asset management
Dept., Area:	Gas Engineering	Business Risk:	Business Risk Reduction >5 and <= 10
Owner:	Mike Faulkenberry	Program Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski	Assessment Score:	91
Category:	Program	Annual Cost Summary - Increase/(Decrease)	
Mandate/Reg. Reference:	n/a	Capital Cost	O&M Cost
Recommend Program Description:	This program covers the consistent replacement of 19,500 gas ERTs annually for a 12 year cycle, beginning in the year 2015. Analysis has identified that a leveled replacement strategy will minimize the effect of unit failures as well as introduce new, leveled populations of ERTs into the system for future predictive maintenance. Large populations of ERTs are predicted to fail in quantities of over 20,000 units per year at the peak, causing an operations burden of personnel and equipment as well as an unreasonable number of estimated bills (currently Avista experiences just a couple hundred failures annually due to small ERT populations). Cost of the ERT will go against ER1053, not this business case.	Other Costs	Business Risk Score
		\$ 901,890	\$ 8,000
		\$ -	1

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	If unfunded, the number of field ERT failures will increase to an unsustainable level. At its peak, more than 20,000 ERTs are predicted to fail annually, each requiring a maintenance call and estimated bill for customers. Avista experiences only a couple hundred failures currently due to small	n/a	\$ 1,058,000	\$ 117,000	\$ -	2
Alternative 1: Brief name of alternative (if applicable)	12 year program: Replace approx 19,500 ERTs annually until all ERTs are refreshed. Replacements beyond this 12 year cycle then occur at 14 years of age, so there will be a lag & re-set of this program at that time, however, new populations will have been leveled so there are no more than 19,500	As ERTs are replaced in a planned way, the impact to operations resources and customer billing estimates can	\$ 901,890	\$ 8,000	\$ -	1
Alternative 2: Brief name of alternative (if applicable)	Prior to the recent analysis, the belief was that replacing units older than 10 years of age was the best advantage. This modern study has shown that doing a 'birthday' replacement at 10 years will pull units with too much life still available, and does not introduce level populations back into the system	Aggressive, early replacement is not desired	\$ 1,950,000	\$ 690	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ -	\$ -	\$ -	\$ -
2015	\$ 901,890	\$ -	\$ -	\$ 401,890
2016	\$ 943,960	\$ -	\$ -	\$ 443,960
2017	\$ 994,140	\$ -	\$ -	\$ 494,140
2018	\$ 1,044,320	\$ -	\$ -	\$ 544,320
2019	\$ 1,096,536	\$ -	\$ -	\$ 596,536
Total	\$ 4,980,846	\$ -	\$ -	\$ 2,480,846

Associated Ers (list all applicable):

3054		

ER	2014	2015	2016	2017	2018	Total	Mandate Excerpt (if applicable):
3054	\$ -	\$ 901,890	\$ 943,960	\$ 994,140	\$ 1,044,320	\$ 3,884,310	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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Total	\$ -	\$ 901,890	\$ 943,960	\$ 994,140	\$ 1,044,320	\$ 3,884,310	

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO
 Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	# of ERTs replaced vs. planned

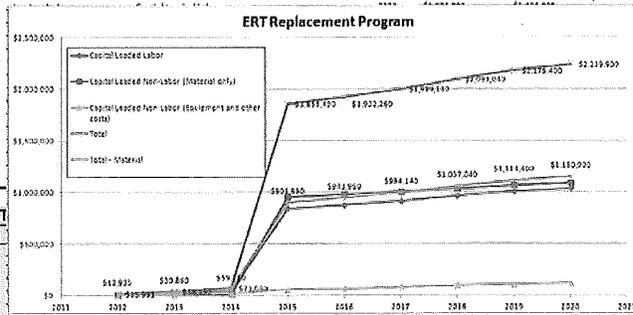
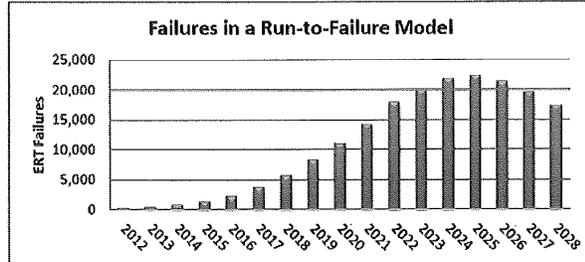
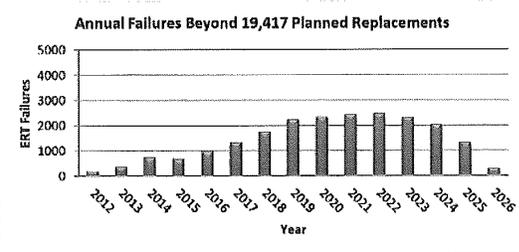
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Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stevens*
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

Avista has over 230,000 gas ERTs in service since the year 2000. There have been large population years, such as 2004 and 2005, which represent over 100,000 units alone. These ERTs run on batteries that will eventually discharge and need replacement, and are predicted to happen in large quantities over short periods of time, peaking at over 20,000 field failures a year unless organized replacements begin. A levelized replacement rate of approximately 19,500 units annually, starting in 2015, balances the maximum life of the battery while reducing the effects of field failures to a manageable level. The levelized replacement process also introduces smaller populations of ERTs back into the system so the next time batteries need replacing there will only be about 19,500 unit families in place for any given future year. (Refer to Asset Management Report Titled "ERT Replacement Strategy Development, 6/14/12)



Review Cycles	
2012-2016	
Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Gas Underground Storage

Business Case Name: Jackson Prairie Storage

ER No: ER Name:

7201 Jackson Prairie Storage

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 3,648¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,356	53	27	115	37	112	378	324	231	3	37	37	3
2016	1,175	98	98	98	98	98	98	98	98	98	98	98	98
2017	1,356	53	27	115	37	112	378	324	231	3	37	37	3

Business Case Description:

Jackson Prairie (JP) Underground Storage Facility stores natural gas. Avista owns this facility as a 1/3 partner with Puget Sound Energy and Williams' Northwest Pipeline. Puget Sound Energy is the managing partner for the facility, which is located in Chehalis, WA. The requested capital represents Avista's 1/3 share of the capital needed to maintain the existing facility and maintain equal ownership status. The purpose of the facility is to allow Avista to serve customers on a peak day, and to purchase natural gas at potentially lower costs during off-peak periods and store that gas for use during high cost periods.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Jackson Prairie Storage	Assessments:	
Requested Amount	\$1,000,000	Financial:	High - Exceeds 12% CIRR
Duration/Timeframe	20+ Year Program	Strategic:	Reliability & Capacity
Dept., Area:	Natural Gas Resources	Operational:	Operations require execution to perform at current levels
Owner:	Steve Harper	Business Risk:	ERM Reduction >15
Sponsor:	Jason Thackston	Program Risk:	High certainly around cost, schedule and resources
Category:	Program	Assessment Score:	116
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:	Performance	Capital Cost	O&M Cost
Jackson Prairie (JP) Underground Storage Facility stores natural gas. Avista owns this facility as a 1/3 partner with Puget Sound Energy and Williams' Northwest Pipeline. Puget Sound Energy is the managing partner for the facility which is located in Chehalis, WA. The requested capital represents Avista's 1/3 share of the capital needed to maintain the existing facility and maintain equal ownership status. The purpose of the facility is to allow Avista to serve customers on a peak day, and to purchase natural gas at potentially lower costs during off-peak periods and store that gas for use during high cost periods.	describe any incremental changes that this Program would benefit present operations	\$ 1,000,000	\$ -
			Other Costs
			\$ -
			Business Risk Score
			2

Annual Cost Summary - Increase/(Decrease)				
Alternatives:	Performance	Capital Cost	O&M Cost	Business Risk Score
Status Quo :	Not recommended-- Not to fund Avista's 1/3 capital obligation. Failure by Avista to fund its 1/3 capital obligation would dilute Avista's ownership percentage. Voting rights would be diminished and therefore decisions made by other partners would not be in the best interest of Avista or its customers.	n/a	\$ -	\$ -
				20
Alternative 1: Brief name of alternative (if applicable)	Recommended -- Support Avista's 1/3 capital obligation. Estimated to be approximately \$1,000,000 per year looking forward. Cost is estimated to be \$539,000 in 2014. Capital needs vary year-to-year, but relate to well, compression, pipe, separator/dehydration, metering and control facilities.	describe any incremental changes in operations	\$ 1,000,000	\$ -
				2
Alternative 2: Brief name of alternative (if applicable)	Not recommended-- Fund a lesser amount than Avista's 1/3 capital obligation. Voting rights would be diminished and therefore decisions made by other partners would not be in the best interest of Avista or its customers.	describe any incremental changes in operations	\$ -	\$ -
				2
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -
				0

Program Cash Flows					Associated Ers (list all applicable):				
2012-2016					ER 7201				
	Capital Cost	O&M Cost	Other Costs	Approved					
Previous		\$ -	\$ -	\$ -					
2012	\$ 630,000	\$ -	\$ -	\$ 630,000					
2013	\$ 550,000	\$ -	\$ -	\$ 550,000					
2014	\$ 539,000	\$ -	\$ -	\$ 539,000					
2015	\$ 1,000,000	\$ -	\$ -	\$ 1,356,300					
2016	\$ 1,000,000	\$ -	\$ -	\$ 1,175,000					
2017	\$ 1,000,000	\$ -	\$ -	\$ 1,117,000					
2018	\$ 1,000,000	\$ -	\$ -	\$ 1,210,000					
2019	\$ -	\$ -	\$ -	\$ 1,085,000					
Future	\$1,000,000/year	\$ -	\$ -	\$ -					
Total	\$ 5,719,000	\$ -	\$ -	\$ 7,662,300					

Mandate Excerpt (if applicable):
provide brief citation of the law or regulation and a reference number if possible

Additional Justifications:
While not a mandated project by definition, this Program is not one that can easily be terminated. The use of JP is documented and acknowledged as part of Avista's Integrated Resource Plan.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO
 Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

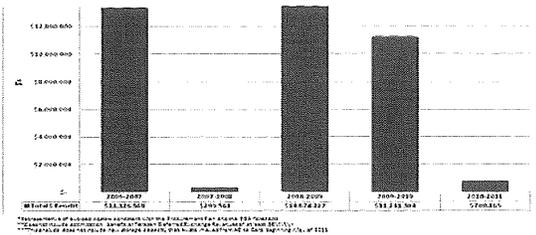
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure: Avoided gas costs through use of JP storage
 Fill in the name of the KPI here
 JP WA/ID Avoided Winter Cost

Prepared signature _____



Capital Investment Business Case



Reviewed signature _____

Director/Manager

Other Party Review signature (if necessary) _____

Margie Stevens
Director/Manager

Business Case	ERM Risk Reduction	Status Quo Raw Score	Risk on Completion Raw Score	Status Quo Risk					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
Jackson Prairie Storage	18	20	2	5 - > \$10MM	< Once / year	3 - Could result in a sustained negative impact to local, online, or industrial relationships and / or national / global media coverage	< Once / year		
				Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood
						1 - Potential for Injury Public health infrastructure impact up to 8 hours	< Once / year		
				Risk upon Completion					
				Financial Impact (Consequential Costs/Revenues)	Likelihood	Legal, Regulatory, External Business Affairs	Likelihood	Customer Service and Reliability (# customers * duration of an outage)	Likelihood
				1 - < \$200k	< Once / 10 years	1 - No likely impact on media or regulatory relationship	< Once / 50 years		
Environmental	Likelihood	Safety and Health: Public	Likelihood	Safety and Health: Employee	Likelihood				
		1 - Potential for Injury Public health infrastructure impact up to 8 hours	< Once / 50 years	1 - Potential for Injury	< Once / 50 years				

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Transportation

Business Case Name: Fleet Budget

ER No: ER Name:

7000 Transportation Equip

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 23,100 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	10,184	643	641	641	641	642	641	643	641	641	642	642	641	2,484
2016	7,700	643	641	641	641	642	641	643	641	641	642	642	641	
2017	7,700	643	641	641	641	642	641	643	641	641	642	642	641	

Business Case Description:

Fleet utilizes a Vehicle Replacement Model analysis program to determine which vehicles are replaced for the next budget cycle. This program utilizes our internal data regarding equipment utilization, repair costs, purchase costs, disposal costs, and business needs across all classes of equipment. This provides a consistent and level spend to cover all departments effectively. This contributes to the operational readiness for all departments and our Company as a whole. The 5 year projection includes analysis of 19 classes of vehicles in total and the replacement of over 600 assets.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Fleet Budget
Requested Amount	\$ 7,700,000
Duration/Timeframe	5 Year Program
Dept., Area:	Fleet Services
Owner:	Chris Schlothauer
Sponsor:	Don Kopczynski
Category:	Program
Mandate/Reg. Reference:	n/a

Assessments:
 Financial: 7.00%
 Strategic: Life-cycle asset management
 Business Risk: Business Risk Reduction >0 and <= 5
 Program Risk: High certainty around cost, schedule and resources

Assessment Score: 75

Recommend Program Description:

Fleet utilizes a VRM (Vehicle Replacement Model) analysis program to determine which vehicles get replaced for the next budget cycle. This program utilizes our internal data regarding equipment utilization, repair costs, purchase costs, disposal costs, and business needs across all classes of equipment. This provides a consistent and level spend to cover all departments effectively. This contributes to the operational readiness for all departments and our company as a whole. The 5 year projection includes analysis of 19 classes in total and the replacement of over 600 assets.

	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Capital Cost	O&M Cost	Other Costs	
Alternatives:				
Unfunded Program: Replace only on failure	\$ -	\$ 2,135,679	\$ -	9
Reduced Spend	\$ 3,850,000	\$ 1,914,099	\$ -	4
Alternative 2: Brief name of alternative (if applicable) Describe other options that were considered	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable) Describe other options that were considered	\$ -	\$ -	\$ -	0

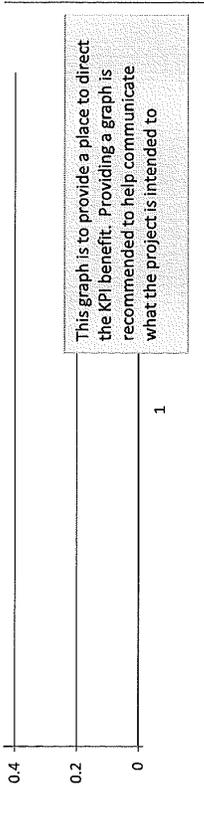
Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 7,595,175	\$ -	\$ -	\$ 5,700,406
2015	\$ 7,700,000	\$ -	\$ -	\$ 8,270,000
2016	\$ 8,085,000	\$ -	\$ -	\$ 7,700,000
2017	\$ 8,489,250	\$ -	\$ -	\$ 7,700,000
2018	\$ 8,913,713	\$ -	\$ -	\$ 7,700,000
2019	\$ 9,359,398	\$ -	\$ -	\$ 7,700,000

Associated Ers (list all applicable):

7000

Capital Program Business Case



(if necessary)

Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision

Review Cycles

2012-2016

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: AvistaUtilities.com Redesign

ER No: ER Name:

5143 AU.com & AVANet Redevelopment

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 6,000¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	4,125	-	-	-	-	-	-	-	-	-	-	4,125	-
2016	2,000	-	-	-	-	-	-	-	-	-	-	-	2,000
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

Refresh of the AvistaUtilities.com website to improve navigation, updating the look and feel of the overall site, creating a new homepage layout, and improving self-service and search functionality for customers. Since 2008, web usage on the AvistaUtilities.com site has increased by more than 55% and usability standards have since then changed to incorporate the emergence of mobile app technologies. The refresh includes improved functionality to allow for more customer self-serve use on our website.

Offsets:

\$100,000 of additional O&M costs are included with this business case which negate the \$100,000 of O&M savings (see attached business case "Other Costs.") These savings are related to reduction in labor due to efficiencies gained by customers being able to navigate the website effectively. No offset has been included in the O&M Offset adjustment for this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	AvistaUtilities.com Redesign	Assessments:				
Requested Amount	\$1,500,000	Financial:	7.00%			
Duration/Timeframe	3 Year Project	Strategic:	Customer Experience			
Dept., Area:	Customer Solutions	Business Risk:	Business Risk Reduction >5 and <= 10			
Owner:	Dana Anderson, Jim Corder	Project Risk:	Moderate certainty around cost, schedule and resources			
Sponsor:	Dana Anderson, Jim Kensok					
Category:	Project					
Mandate/Reg. Reference:	n/a	Assessment Score:	77	Annual Cost Summary - Increase/(Decrease)		
Recommend Project Description:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
See Attached Project Charters.		Improved usability for customers and improved capability for information sharing and delivery to increase overall employee engagement	\$ 1,000,000	\$ 500,000	\$ -	0

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	Not consistent with industry and web best practices. 14% of customers are currently unable to complete transactions on the web and of those that can consistent feedback indicates that transactional tasks are time consuming and sometimes unusable.	n/a	\$ -	\$ -	\$ -	0
Alternative 1: Brief name of alternative (if applicable)	Redesign of AvistaUtilities.com	Improved usability, capability and new technology	\$ 1,000,000	\$ 500,000	\$ -	0
Alternative 2: Brief name of alternative (if applicable)			\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)			\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):			
	Capital Cost	O&M Cost	Other Costs	Approved	New			
Previous	\$ 10,452	\$ -	\$ -	\$ 10,452				
2013	\$ 1,000,000	\$ 100,000	\$ (50,000)	\$ 419,000				
2014	\$ 500,000	\$ 100,000	\$ (100,000)	\$ 1,037,000				
2015	\$ -	\$ 100,000	\$ (100,000)	\$ 4,000,000				
2016	\$ -	\$ 100,000	\$ (100,000)	\$ 2,000,000				
2017	\$ -	\$ 100,000	\$ (100,000)	\$ -				
Total	\$ 1,500,000	\$ 500,000	\$ (450,000)	\$ 7,466,452				

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
New	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Additional Justifications:

Milestones (high level targets)							
September-12	Project Start	January-00	open	January-00	open	January-00	Milestones should be general. Use your judgement on project progress so that progress can
January-13	Phase 0 Complete	January-00	open	January-00	open	January-00	
April-13	Phase 1 Complete	January-00	open	January-00	open	January-00	
August-13	Phase 2 Complete	January-00	open	January-00	open	January-00	
February-14	Phase 3 Complete	January-00	open	January-00	open	January-00	
January-00	open	January-00	open	January-00	open	January-00	



Capital Program Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
Contract Labor: YES NO

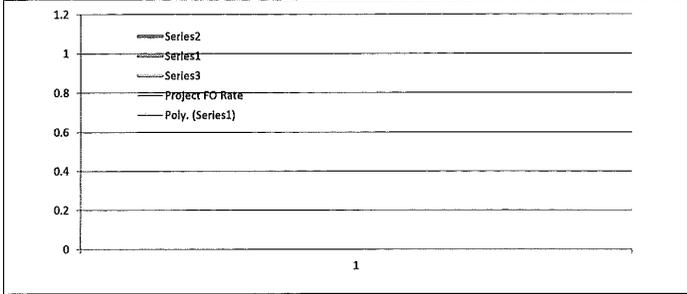
Enterprise Tech: YES - attach form NO or Not Required
Facilities: YES - attach form NO or Not Required

Capital Tools: YES - attach form NO or Not Required
Fleet: YES - attach form NO or Not Required

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here
Fill in the name of the KPI here



Prepared signature _____

Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stevens* _____
(if necessary) Director/Manager

Attachment 1: Project Charter
Attachment 2: Charter Addendum for AU.com
Attachment 2: Charter Addendum for AVAnet

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: Enterprise Business Continuity Plan

ER No: ER Name:

5010 Enterprise Business Continuity

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,350¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	450	-	-	113	-	-	113	-	-	113	-	-	113
2016	450	-	-	113	-	-	113	-	-	113	-	-	113
2017	450	-	-	113	-	-	113	-	-	113	-	-	113

Business Case Description:

Avista has developed an Enterprise Business Continuity Plan (“EBCP”) to facilitate emergency response and business continuity activities in fulfillment of our mission to provide safe and reliable service to our customers. The program supports the Enterprise Business Continuity objectives by providing an all-hazards framework for emergency response, technology recovery, alternate facilities and business continuity activities. The program provides communications, escalation and operational procedures necessary for efficient response to events.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Enterprise Business Continuity Plan	Assessments:				
Requested Amount:	\$482,000	Financial:	High - Exceeds 12% CIRR			
Duration/Timeframe:	5 Year Program	Strategic:	Other			
Dept., Area:	Enterprise Technology	Operational:	Operations improved beyond current levels			
Owner:	Clay Storey/Jim Corder	Business Risk:	ERM Reduction >10 and <= 15			
Sponsor:	Jim Kensok	Program Risk:	High certainty around cost, schedule and resources			
Category:	Program	Assessment Score:	106			
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)				
Recommend Program Description:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Avista has developed an Enterprise Business Continuity Plan (EBCP) to facilitate emergency response and business continuity activities in fulfillment of our mission. The program supports the Enterprise Business Continuity objectives by providing an all-hazards framework for emergency response, technology recovery, alternate facilities and business continuity activities. The program provides communications, escalation and operational procedures necessary for efficient response to events. See "Additional Justifications:" for more information.		This is a risk mitigation program	\$ 482,000	\$ 498,755		4
		Annual Cost Summary - Increase/(Decrease)				
Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Without this program the company's ability to prepare for and respond to emergency event will be diminished. This will have the effect of creating longer delays in the restoration of business services for our customer and shareholders, potentially even action by the utility commission against Avista.	n/a	\$ -	\$ -	\$ -	25
Alternative 1: Brief name of alternative (if applicable)	Avista has developed an Enterprise Business Continuity Plan (EBCP) to facilitate emergency response and business continuity activities in fulfillment of our mission. The program supports the Enterprise Business Continuity objectives by	This is a risk mitigation program	\$ 482,000	\$ 498,755	\$ -	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
5 years of costs					5010				
	Capital Cost	O&M Cost	Other Costs	Approved					
	\$ 482,000			\$ 482,000					
2012	\$ 482,000	\$ 488,838	\$ -	\$ 482,000					
2013	\$ 600,000	\$ 549,558	\$ -	\$ 482,000					
2014	\$ 600,000	\$ 610,278	\$ -	\$ 482,000					
2015	\$ 450,000	\$ 655,818	\$ -	\$ 450,000					
2016	\$ 450,000	\$ 701,358	\$ -	\$ 450,000					
2017	\$ 450,000	\$ 746,898	\$ -	\$ 450,000					
2018	\$ 450,000	\$ 792,438	\$ -	\$ 450,000					
2019	\$ -	\$ -	\$ -	\$ 450,000					
Total	\$ 3,482,000	\$ 4,545,186	\$ -	\$ 3,696,000					

Mandate Excerpt (if applicable):
n/a

Additional Justifications:
Support of the Enterprise Business Continuity Plan mitigates risk and minimizes the impact on the shareholders, customers, employees, and the community during and following an incident requiring activation of the EBCP. Through the development and maintenance of standardized mission critical plans and comprehensive alternate facilities planning, exercises and testing, the response, recovery and restoration efforts are synchronized, which in turn, lowers the risk of direct, indirect, tangible or intangible losses. Through on-going development, maintenance, review, and testing of the critical alternate operating procedures in support of critical business processes, process and procedure gaps are identified. This process will ensure the readiness of systems, procedures, processes, and people during emergency operations and provide an environment of constant improvement.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here

Prepared signature _____

Reviewed signature _____
Director/Manager

Other Party Review signature *Maura Stevens* _____
(if necessary) Director/Manager

The Program is planned to include the following Projects in the next 5 years:

1. Enterprise Business Continuity management software
2. Alternate facilities infrastructure
3. Includes AFM/OMT in Disaster Recovery
4. Includes Mobile Dispatch in Disaster Recovery
5. Includes AMR systems(Fixed network, AutoSOI, MV90, others) in Disaster Recovery
6. Filesystem expansion in Disaster Recovery

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: Mobility in the Field

ER No: 5144
ER Name: Mobility in the Field

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 740 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	450	-	-	113	-	-	113	-	-	113	-	-	113
2016	320	-	-	80	-	-	80	-	-	80	-	-	80
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

This program is to increase the Company’s mobility in the field using mobile devices. A Mobile Road Map Team has documented 30 opportunities where mobile technology could be used in the field. The top opportunities, with the highest benefit and savings, are included over the five-year program. The first phase is the project called “Visibility in the Field”, which will assist in Leak Survey and Gas Service Dispatch by providing spatial maps in the field using a mobile device.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Mobility In the Field	Assessments:	
Requested Amount	\$200,000	Financial:	MH - >= 9% & <12% CIRR
Duration/Timeframe	5 Year Program	Strategic:	Agile Technology Platforms
Dept., Area:	Energy Delivery	Operational:	Operations improved beyond current levels
Owner:	Heather Rosentrater & Mike Broemeling	Business Risk:	ERM Reduction >0 and <= 5
Sponsor:	Don Kopczyński & Jim Kensok	Program Risk:	High certainty around cost, schedule and resources
Category:	Program	Assessment Score:	83
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	

Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
This program is to increase our mobility in the field using mobile devices. A Mobile Road Map Team has documented 30 opportunities where mobile technology could be used in the field. The top opportunities, with the highest benefit and savings, are included over the five year program. Additional mobile opportunities will continue to emerge, therefore a Mobility Program is requested. The Customer IRR (CIRR) at 9% per Dave DeFelic. Opportunities will be done in phases over the 5 years. The first phase will be for the project called Visibility in the Field which enables the following: 1. Leak Survey 2. Gas Service Dispatch This would provide spatial maps in the field, using a mobile device resulting in efficiency gained for our field employees. Our customer will benefit with these new capabilities and efficiencies. The benefits would include operations improvements to reduce compliance risk, reduce duplicate effort, more timely entry of data along with improved tools and information in the field. The top opportunities are 1. View GIS Layers and Multiple Maps in the Field (in 2013) 2. Gas Exposed Pipe Report (in 2014) 3. Capture Facility Data (in 2015) 4. Provide Gas Blue Leak Survey Form (in 2013) 5. Damage Assessment (OMT) (in 2016).	ArcGIS Online will allow us to share information with web maps. This will increase collaboration with internal employees and external contractors and partners. This supports our strategic goals for agile technology.	\$ 200,000			2

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
Unfunded Program: Maps are printed and taken out to the field; Paper process to gather information in the field and then enter the data into electronic format once in the office; If a Serviceman does have a Go-Book then both the electronic entry is done along with the paper process as a backup; Information is relayed by	n/a	\$ -	\$ -	\$ -	3
Alternative 1: Add ArcGIS Server with tablet mobile devices Either establish an ELA with Esri or purchasing licenses individually, installation of servers and ArcGIS Server application, establish governance, hire one FTE for AFM Team, deploy approximately 180 mobile devices, user testing, process changes and training. Mobile devices deployed would	\$2,000 per device estimate	\$ 150,000			2
Alternative 2: Add ArcGIS Server with Mesa devices Mobile devices deployed as a Mesa.	\$4,000 per device estimate				0
Alternative 3 Name: Add ArcGIS Server with Go-Book devices Mobile devices deployed as a Go-Book.	\$10,000 per device estimate				0

Program Cash Flows					Associated Ers (list all applicable):				
5 years of costs					Current ER				
	Capital Cost	O&M Cost	Other Costs	Approved					
2012				\$ -					
2013	\$ 200,000			\$ 160,000					
2014	\$ 320,000	\$ 126,000	\$ (200,000)	\$ 530,000					
2015	\$ 420,000	\$ 300,000	\$ (392,000)	\$ 420,000					
2016	\$ 320,000	\$ 350,000	\$ (425,000)	\$ 320,000					
2017	\$ 400,000	\$ 400,000	\$ (472,000)	\$ -					
2018	\$ -	\$ -	\$ -	\$ -					
Total	\$ 1,660,000	\$ 1,176,000	\$ (1,489,000)	\$ 1,430,000					

Mandate Excerpt (if applicable):
provide brief citation of the law or regulation and a reference number if possible

Additional Justifications:
The hardware and software technology is advancing in such a manner that it will now benefit our field personnel to have a Mobility in the Field Program. We now have less expensive mobile devices to deploy along with a disconnected application for our field workers to be able to work offline and synch information back and forth when connection is successful to wi-fi or cellular. Advances in technology are making mobile capabilities more of a standard in doing business. Our field workers need to have the tools that make them more efficient in their work processes, able to post data quickly and have more information to ultimately benefit our customers.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability Enterprise Tech: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the



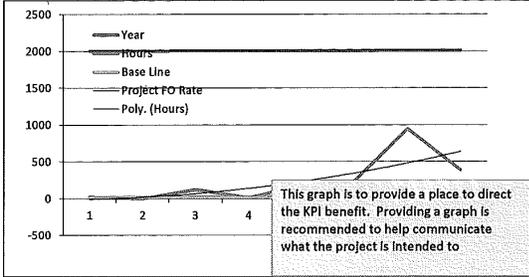
Capital Program Business Case

Contract Labor: YES NO

Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure: To be determined by each project
 Fill in the name of the KPI here



Prepared signature _____

Reviewed signature _____
 Director/Manager

Other Party Review signature *Margie Stevens* _____
 (if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group	
Rationale for decision	Review Cycles 2012-2016
	Date Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: Technology Refresh to Sustain Business Process

ER No: ER Name:

5005 Information Technology Refresh Program

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 48,284 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	18,595	-	-	4,649	-	-	4,649	-	-	4,649	-	-	4,649
2016	16,095	-	-	4,024	-	-	4,024	-	-	4,024	-	-	4,024
2017	16,095	-	-	4,024	-	-	4,024	-	-	4,024	-	-	4,024

Business Case Description:

This program is in place to provide for technology refresh in alignment with the roadmaps for application and technology lifecycles. The continuation of technology refresh programs provides benefit to Avista by providing a stable and reliable application and computing platform to allow for the safe and reliable operation of our electric and gas infrastructure.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Technology Refresh to Sustain Business Process			
Requested Amount	\$	15,362,243	Assessments:	
Duration/Timeframe	10 Year Program		Financial:	Medium - >= 5% & <9% CIRR
Dept., Area:	IS/IT		Strategic:	Life Cycle Programs
Owner:	Jacob Reid/Jim Corder		Operational:	Operations require execution to perform at current levels
Sponsor:	Jim Kensok		Business Risk:	ERM Reduction >5 and <= 10
Category:	Program		Program Risk:	High certainty around cost, schedule and resources
Mandate/Reg. Reference:	n/a		Assessment Score:	89
Recommend Program Description:			Annual Cost Summary - Increase/(Decrease)	
This program is in place to provide for technology refresh in alignment with the roadmaps for application and technology lifecycles. The continuation of technology refresh programs provides benefit to Avista by providing a stable and reliable application and computing platform to allow for the safe and reliable operation of our electric and gas infrastructures.			Performance	Capital Cost
			This program provides for current technologies for the normal operation of the business	\$ 15,362,243
				O&M Cost
				\$ -
				Other Costs
				\$ -
				Business Risk Score
				15

Alternatives:		Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
Unfunded Program:	Not doing this program will result in four major impacts: 1) Reduction of 62 staff members with key institutional knowledge 2) Decrease in business process efficiency 3) Increase in O&M labor to support the technology 4) increase technology outages impacting the operations of the business.	The performance of the computing technology at	Capital Cost	O&M Cost	Other Costs	
			\$ -	\$ -	\$ 1,895,751	20
Technology Refresh Programs	This program is in place to provide for technology refresh in alignment with the roadmaps for application and technology lifecycles. The continuation of technology refresh programs provides benefit to Avista by providing a stable and reliable application and computing platform to allow for the safe and reliable operation of our electric and gas infrastructures.	This program provides for current technologies for the normal	\$ 15,362,243	\$ -	\$ -	15
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows				Associated Ers (list all applicable):			
5 years of costs				5005			
	Capital Cost	O&M Cost	Other Costs	Approved			
	\$ 9,973,758	\$ -	\$ -	\$ 9,973,758			
2013	\$ 10,019,774	\$ -	\$ -	\$ 11,110,491			
2014	\$ 12,129,043	\$ -	\$ -	\$ 15,362,243			
2015	\$ 13,949,536	\$ -	\$ -	\$ 16,094,833			
2016	\$ 17,183,753	\$ -	\$ -	\$ 16,094,833			
2017	\$ 19,031,035	\$ -	\$ -	\$ 16,094,833			
2018	\$ -	\$ -	\$ -	\$ 18,094,833			
2019	\$ -	\$ -	\$ -	\$ 20,094,833			
Total	\$ 72,313,141	\$ -	\$ -	\$ 102,825,824			

Mandate Excerpt (if applicable):
provide brief citation of the law or regulation and a reference number if possible

Additional Justifications:
Technology refresh program costs increase year over year to two main reasons. The first is because of the continuous technological evolution which causes obsolescence. Manufacturers continue to upgrade and improve their systems to provide improved performance and function. This in turn requires companies to replace system on a periodic basis to maintain reliability and functionality. The second main reason is due to the addition of new hardware and software to support new business requirements and growth. New equipment purchased under Technology Expansion Program will have to be refreshed in 3-5 years adding to the refresh budget. For example, infrastructure refresh costs the increase from year to year due to prior years spend in Technology Expansion, roughly \$800k in Distributed Systems and \$500k in Network Systems per year. Business Application Expansion is up between 2011 & 2012 because of the inclusion of some small to medium projects into the expansion program.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: Customer Service System Replacement (Project Compass)

ER No: 5138 **ER Name:** Customer Information System (CIS) Replacement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 15,414 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	96,408	-	85,988	3,486	3,885	2,199	850	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

The Customer Information System (CIS) will be implemented in two waves. The first wave includes the Maximo application in the Company's areas of Generation, Production, and Substation Support. This wave has an estimated go-live date or transfer to plant date of September 2013. The second wave, includes Maximo application in the Company's areas of Transmission, Distribution, and Gas Operations, as well as the Customer Care and Billing application. This large technology project is described in detail in the testimony of Mr. Kensok.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: Enterprise Security

ER No: ER Name:

5014 Security Systems

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 9,600¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	3,800	-	-	950	-	-	950	-	-	950	-	-	950
2016	3,200	-	-	800	-	-	800	-	-	800	-	-	800
2017	3,200	-	-	800	-	-	800	-	-	800	-	-	800

Business Case Description:

This program is to maintain and improve all security aspects to protect people, assets, information & operations through projects, activities and polices. It will also manage the number of security incidents at level that aligns with our corporate risk expectations. Additionally it will increase the culture of security through education and training.

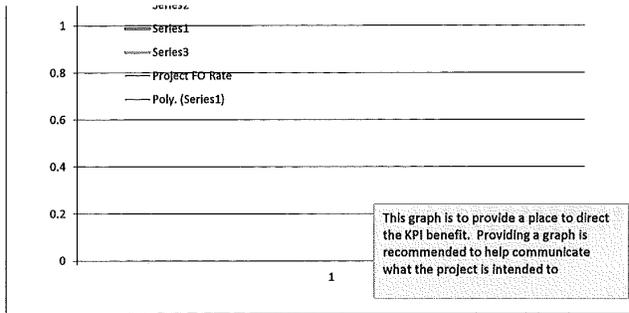
Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case



Reviewed signature _____ Director/Manager

Other Party Review signature *Margie Stevens* Director/Manager
(if necessary)

- | | |
|---|--|
| <p>2013 Projects</p> <ul style="list-style-type: none"> Certificate Management CVA expansion to SCADA and GCN Data loss prevention software and Data classification standards Email Encryption File Integrity Monitoring Network Access Control Phase 1 Network Device Config Analysis Automation Network IPS Expansion Security monitoring expansion to GCC and SCADA (QRadar) Two factor authentication <p>2014 Projects</p> <ul style="list-style-type: none"> SIEM & Qitow Refresh Controlled Access based on need to know SSPWR Internet Access Iron Security Appliances (SGDP) Refresh Asset management - Authorized & Unauthorized SW Identity Management Solution Controlled Use of Admin Privileges Password Vault | <p>2015 Projects</p> <ul style="list-style-type: none"> PKI Refresh CVA Hardware Refresh Web Services Security (O&M) Disk Encryption Refresh Network Device Config Analysis Refresh McAfee NSM & NIPS Refresh Malware Detection Appliance Refresh (FireEye) Limitation and Control of Network Ports, Protocols, and Services Configuration management tool Boundary Defense Application SW-Secure config Account Monitoring and Control HR Systems Integration w/Active Directory <p>2016 Projects</p> <ul style="list-style-type: none"> Asset mgmt/Auth & Unauth Devices Refresh Password Vault Refresh Network Access Control Refresh Identity Management Refresh Enterprise Reduced Sign-On Controlled Access based on need to know-Refresh |
|---|--|

To be completed by Capital Planning Group		Review Cycles	
Rationale for decision	2012-2016		
	Date	Template	

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: Technology Expansion to Enable Business Process

ER No: 5006 **ER Name:** Information Technology Expansion Program

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 17,134 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	6,069	13	13	1,479	13	13	1,479	13	13	1,479	13	13	1,529
2016	5,552	12	12	1,363	12	12	1,363	12	12	1,363	12	12	1,363
2017	5,799	13	13	1,424	13	13	1,424	13	13	1,424	13	13	1,424

Business Case Description:

This program facilitates the technology growth throughout the Company. This includes technology expansion for the entire workforce, business process automation and increases in technology to support efficient business processes.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Technology Expansion to Enable Business Pro		
Requested Amount	\$	4,635,572	Assessments:
Duration/Timeframe	10 Year Program		Financial: 7.00%
Dept., Area:	Enterprise Techonogy		Strategic: Agile Technology Platforms
Owner:	Jacob Reidt/Jim Corder		Business Risk: Business Risk Reduction >5 and <= 10
Sponsor:	Jim Kensok		Program Risk: High certainty around cost, schedule and resources
Category:	Program		
Mandate/Reg. Reference:	n/a		Assessment Score: 81
Recommend Program Description:	<p>This program facilities the technology growth throughout the company. This includes technology expansion for the entire workforce, business process automation and increases in technology to support efficient business processes.</p>		
	Performance	Capital Cost	Annual Cost Summary - Increase/(Decrease)
		\$ 4,635,572	O&M Cost \$ - Other Costs \$ - Business Risk Score 5

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Without funding this program will not be able to deliver technology assets and application enhancement to provide for growth of the technology base or improvements to in-house developed applications. A consequence of not funding this program will be the loss of 20+ application FTE's who possess business knowledge that is not quickly or easily replaced.	n/a	\$ -	\$ -	\$ -	15
Alternative 1: Brief name of alternative (if applicable)	This program facilities the technology growth throughout the company. This includes technology expansion for the entire workforce, business process automation and increases in technology to support efficient business processes.		\$ 4,635,572	\$ -	\$ -	5
Alternative 2: Brief name of alternative (if applicable)			\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)			\$ -	\$ -	\$ -	0

Program Cash Flows					
	Capital Cost	O&M Cost	Other Costs	Approved	
Previous	\$ 7,792,700	\$ -	\$ -	\$ -	7,792,700
2013	\$ 7,675,945	\$ -	\$ -	\$ -	5,648,113
2014	\$ 7,835,572	\$ -	\$ -	\$ -	4,635,572
2015	\$ 8,083,991	\$ -	\$ -	\$ -	5,799,088
2016	\$ 7,559,940	\$ -	\$ -	\$ -	5,535,539
2017	\$ 8,330,445	\$ -	\$ -	\$ -	5,799,088
2018	\$ -	\$ -	\$ -	\$ -	5,799,088
2019	\$ -	\$ -	\$ -	\$ -	7,496,234
Total	\$ 39,485,893	\$ -	\$ -	\$ -	40,712,722

Associated Ers (list all applicable):			
5006			

amounts same as 2012 less 820k moved to new Enterprise Security
business case

ER	2013	2014	2015	2016	2017	Total
5006	\$ 7,675,945	\$ 7,835,572	\$ 8,083,991	\$ 7,559,940	\$ 8,330,445	\$ 39,485,893
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 7,675,945	\$ 7,835,572	\$ 8,083,991	\$ 7,559,940	\$ 8,330,445	\$ 39,485,893

Mandate Excerpt (if applicable):
na

Additional Justifications:
Technology Expansion is being reduced in 2012 because the security specific items are being moved to an Enterprise Security business case. The CIRR for this business case is an approximation because the items in this business case are so interconnected with other department's initiatives it is very difficult to calculate.

Resources Requirements: (request forms and approvals attached)

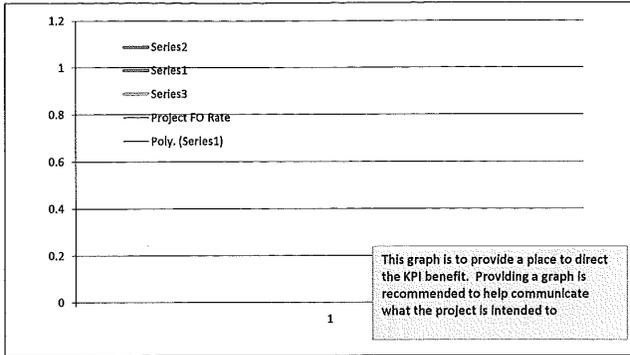
Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO
 Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)
Expected Performance Improvements



Capital Program Business Case



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Reviewed signature Director/Manager

Other Party Review signature Director/Manager
(if necessary) *Marek Skwarcz*

Please see attachment for descriptions of the work completed under this program.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: AFM COTS

ER No: 5147
ER Name: AFM COTS Migration

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 15,602 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	15,608	-	-	-	-	-	-	-	-	-	-	-	15,608

Business Case Description:

The project replaces the Company's obsolete, custom Facilities Management system (Project Atlas) with a commercial, off-the-shelf application. The project includes replacement of the natural gas and electric Construction Design Tool, Edit Tool, and the Company's proprietary Outage Management Tool. These applications aid in the engineering and design of Avista's electric and gas infrastructure, which costs would increase without the aid of this technology. In addition to supporting design, the Outage Management allows the Company to quickly isolate the likely cause of system outages, to communicate proactively with customers, and to quickly and accurately dispatch Avista crews for service restoration. Also included in the project scope are field mobility applications including a version upgrade to the Ventyx/ABB mobile workforce management system and the addition of mobile tools. These applications will work with the Construction Design, Edit and Outage Management applications to deliver work electronically to field personnel and return completion results electronically to the initiating systems improving the timeliness and accuracy of the work results.

Offsets:

The attached business case shows O&M Offsets exist. After further discussion it was determined that these savings will be distributed to other expenses and the initial savings will be negated. Therefore, these additional savings have not been included.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

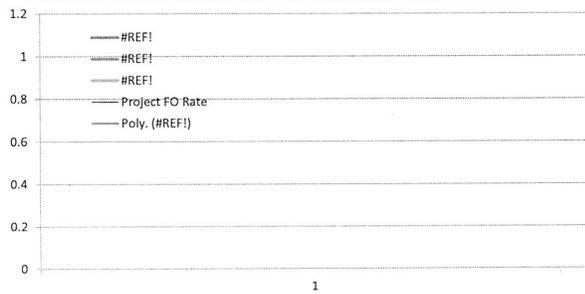


Capital Project Business Case

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



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Director/Manager

Other Party Review signature *Margie Stevens*
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Project

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: High Voltage Protection for Substations

ER No: 5142 **ER Name:** High Voltage Protection Upgrade

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 834 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	719	-	-	-	-	-	-	-	-	-	-	719	-
2016	415	-	-	-	-	-	-	-	-	415	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

High Voltage Protection to personnel and telecommunication equipment by fiber integration, demark relocation, & equipment remediation at suburban and rural substations.

Offsets:

The attached business case shows O&M Offsets exist. After further discussion it was determined that these savings will be distributed to other expenses and the initial savings will be negated. Therefore, these additional savings have not been included.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name: High Voltage Protection for Substations_Revise		Assessments:				
Requested Amount: \$4,371,844		Financial: Medium - >= 5% & <9% CIRR				
Duration/Timeframe: 6 Year Project		Strategic: Reliability & Capacity				
Dept., Area: Enterprise Technology		Operational: Operations require execution to perform at current levels				
Owner: Jacob Reidt/Jim Corder		Business Risk: ERM Reduction >5 and <= 10				
Sponsor: Jim Kensok		Project/Program Risk: High certainly around cost, schedule and resources				
Category: Mandatory		Assessment Score: 128				
Mandate/Reg. Reference: Yes		Cost Summary - Increase/(Decrease)				
Recommend Project Description:		Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
High Voltage Protection to personnel and Telco equipment by fiber integration, demark relocation, & equipment remediation at suburban and rural substations.		describe any incremental changes that this project would benefit present operations	\$ 3,820,309	\$ (374,500)	\$ -	3
		Cost Summary - Increase/(Decrease)				
Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
Status Quo :	Not repairing this situation has potential to increase the risk to Avista and/or telephone company personnel working near substations and the risk of damage to communications equipment caused by electrical faults.	n/a	\$ -	\$ -	\$ 1,000,000	15
Alternative 1: Brief name of alternative (if applicable)	High Voltage Protection to personnel and equipment by fiber integration, demark relocation, & equipment remediation at suburban and rural substations.	16 substations integrated onto fiber network, reducing	\$ 3,820,309	\$ (48,600)	\$ -	3
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Timeline

Construction Cash Flows (CWIP)

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 1,243,989	\$ -	\$ -	\$ 1,243,989
2012	\$ 1,041,320	\$ (18,000)	\$ -	\$ 997,355
2013	\$ 525,000	\$ (37,300)	\$ 12,000	\$ 696,500
2014	\$ 530,000	\$ (53,200)	\$ 12,000	\$ 565,000
2015	\$ 320,000	\$ (53,200)	\$ 12,000	\$ 419,028
2016	\$ 160,000	\$ (53,200)	\$ 12,000	\$ 415,442
2017	\$ -	\$ (53,200)	\$ 12,000	\$ -
2018	\$ -	\$ (53,200)	\$ 12,000	\$ -
Future	\$ -	\$ (53,200)	\$ 12,000	\$ -
Total	\$ 3,820,309	\$ (374,500)	\$ 84,000	\$ 4,337,314

Rebaselined after completion of Design & Planning

Milestones (high level targets)			
October-11	Major Procurement	January-13	First fiber project close
December-11	Previous Spend 2011	February-13	First remediation project close
October-12	Major Procurement	March-13	Second remediation project close
December-12	Previous Spend 2012	April-13	Future GridNet Sites engineering
		July-13	HVP Shop labor finishes
		December-13	Finalize GridNet Installation
		December-14	RLH Construction
		December-15	RLH Construction
		December-16	RLH Construction

Associated Ers (list all applicable):	5119						
Mandate Excerpt (if applicable):	Under CenturyLink (FKA Qwest) tariff Number 1 section 13.7 requires that the customer provide high voltage protection for communication circuits in high voltage areas. Please notes below for additional information						

Additional Justifications:
 In order to balance the need for communications from devices at substation locations with safety of personnel and equipment, high voltage protection & isolation standards have arisen. Telco companies have the ability or desire to turn off communication circuits to substations until Avista works with them to electrically isolate the copper coming into the substation. This effects Phone, Modern, SCADA, and / or Metering & Monitoring systems at the substations. This set of projects was created to mitigate this tariff risk as well as the lower likelihood (but more expensive) risks to personnel and equipment.

Resources Requirements: (request forms and approvals attached)



Capital Investment Business Case

Internal Labor Availability: Low Probability Medium Probability High Probability
Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
Facilities: YES - attach form NO or Not Required
Capital Tools: YES - attach form NO or Not Required
Fleet: YES - attach form NO or Not Required

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here

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Reviewed signature
Director/Manager

Other Party Review signature Margie Stevens
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the project

Please see the follow link for CenturyLink (FKA Qwest) Tariff No. 1 that outlines the requirements for High Voltage Protection Circuits.
http://3A%2F%2Ftariffs.qwest.com%3A8000%2Fidc%2Fgroups%2Fpublic%2Fdocuments%2Ftariff%2Ffcc1_s013p021.pdf

This project was started in 2011 under ER5005 and is being moved out of ER5005 into its own Business Case.

To be completed by Capital Planning Group	
Rationale for decision	Review Cycles
	2012-2016
	Date
	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: Next Generation Radio Refresh

ER No: ER Name:

5106 Next Generation Radio System

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 458¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	4,200	-	-	-	2,742	-	-	-	1,458	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

This project is refreshing Avista’s 20 year old Land Mobile Radio (“LMR”) system that is used for critical crew communications during outage restoration and daily operations of maintaining the electric and gas distribution and transmission systems. Avista continues to maintain a private LMR system because the offerings available from public providers cannot provide communication throughout our rural service territory and as a portion of our nation’s critical infrastructure it is imperative that Avista have a communication system that will operate in the event of a disaster to help safeguard the general public.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Next Generation Radio Refresh				
Requested Amount	\$	21,907,957	Assessments:		
Duration/Timeframe	5 Year Project		Financial: Medium - >= 5% & <9% CIRR		
Dept., Area:	Enterprise Technology		Strategic: Agile Technology Platforms		
Owner:	Jacob Reid/Jim Corder		Operational: Operations require execution to perform at current levels		
Sponsor:	Jim Kensok		Business Risk: ERM Reduction >5 and <= 10		
Category:	Mandatory		Project/Program Risk: High certainty around cost, schedule and resources		
Mandate/Reg. Reference:	FCC Narrow Banding Mandate (See below)		Assessment Score: 128		
Recommend Project Description:	Cost Summary - Increase/(Decrease)				
This project is refreshing Avista's 20 year old Land Mobile Radio (LMR) system that is used for critical crew communications during outage restoration and daily operations of maintaining the electric and gas distribution and transmission systems. Avista continues to maintain a private Land Mobile Radio system because the offerings available from public providers cannot provide communication throughout our rural service territory and as a portion of our nation's critical infrastructure it is imperative that Avista have a communication system that will operate in the event of a disaster to help safeguard the general public.	Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
	The current radio system will not meet the required mandate and due for refresh.	\$ -	\$ -	\$ -	0

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
Status Quo :	Describe the current condition of the asset(s) and problems that need to be corrected	n/a	\$ -	\$ -	\$ -	0
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Timeline

Construction Cash Flows (CWIP)

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 11,327,464	\$ -	\$ -	\$ 11,327,464
2012	\$ 8,003,573	\$ -	\$ -	\$ 4,262,000
2013	\$ 2,997,260	\$ -	\$ -	\$ 2,585,260
2014	\$ 3,946,378	\$ -	\$ -	\$ 3,275,207
2015	\$ 27,000	\$ -	\$ -	\$ 458,026
2016	\$ -	\$ -	\$ -	\$ -
2017	\$ -	\$ -	\$ -	\$ -
2018	\$ -	\$ -	\$ -	\$ -
Future	\$ -	\$ -	\$ -	\$ -
Total	\$ 26,301,675	\$ -	\$ -	\$ 21,907,957

Rebaselined after completion of Design & Planning

Milestones (high level targets)			
February-08	Project Started	December-15	year end actual
December-11	year end actual		
December-12	year end actual		
December-13	year end actual		
December-14	year end actual		

Associated Ers (list all applicable):	5108						
Mandate Excerpt (if applicable):	na						

Additional Justifications:	
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Capital Investment Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
Contract Labor:	<input type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here

Fill in the name of the KPI here

This graph is to provide a place to direct the KPI benefit. Providing a graph is recommended to help communicate what the project is intended to

Prepared signature

Reviewed signature Director/Manager

Other Party Review signature Director/Manager
(if necessary) *Margie Stevens*

This space is to be used for photographs, charts, or other data that may be useful in evaluating the project

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Enterprise Technology

Business Case Name: Microwave Refresh

ER No: 5121 **ER Name:** Microwave Replacement with Fiber

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 8,377 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	2,363	-	-	591	-	-	591	-	-	591	-	-	591
2016	3,050	-	-	763	-	-	763	-	-	763	-	-	763
2017	3,050	-	-	763	-	-	763	-	-	763	-	-	763

Business Case Description:

The purpose of this project is to refresh the aging microwave technology with current technology to provide for high-speed data communications. These communication systems support relay and protection schemes of the electrical transmission system.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	Microwave Refresh	Assessments:	
Requested Amount	\$ 23,204,063	Financial:	10.50%
Duration/Timeframe	7 Year Project	Strategic:	Reliability & capacity
Dept., Area:	Enterprise Technology	Business Risk:	Business Risk Reduction >5 and <= 10
Owner:	Jacob Reid/Jim Corder	Project Risk:	Moderate certainty around cost, schedule and resources
Sponsor:	Jim Kensok	Assessment Score:	84
Category:	Project	Annual Cost Summary - Increase/(Decrease)	
Mandate/Reg. Reference:	n/a	Performance	Capital Cost
Recommend Project Description:	The purpose of this project is to refresh the aging microwave technology with current technology to provide for the high speed data communications. These communication systems support relay and protection schemes of the electrical transmission system.	The current system are out of date and in need of replacement	\$ 8,400,000
			\$ 840,000
			\$ -
			8

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	Remaining at the status quo will increase Avista's risk of failure of these critical communication systems, which could have significant impact on Avista's transmission capacity and ability to serve our customers electrical needs.	n/a	\$ -	\$ -	\$ 1,000,000	15
Alternative 1: Brief name of alternative (if applicable)	The purpose of this project is to refresh the aging microwave technology with current technology to provide for the high speed data communications. These communication systems support relay and protection schemes of the electrical transmission system.	The current system are out of date and in need of	\$ 8,400,000	\$ 840,000	\$ -	8
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 2,910,116	\$ -	\$ -	\$ 2,910,116
2012	\$ 1,559,877	\$ -	\$ -	\$ 1,200,000
2013	\$ 1,500,000	\$ -	\$ -	\$ 1,500,000
2014	\$ 1,657,391	\$ -	\$ -	\$ 917,462
2015	\$ 2,276,679	\$ -	\$ -	\$ 2,276,679
2016	\$ 4,050,000	\$ -	\$ -	\$ 3,050,000
2017	\$ 4,100,000	\$ -	\$ -	\$ 3,050,000
2018	\$ 4,100,000	\$ -	\$ -	\$ 4,100,000
2019	\$ -	\$ -	\$ -	\$ 5,100,000
2020+	\$ 1,050,000	\$ -	\$ -	\$ -
Total	\$ 23,204,063	\$ -	\$ -	\$ 24,104,257

Associated Ers (list all applicable):

5119			

ER	2015	2016	2017	2018	2019	Total	Mandate Excerpt (if applicable):
5119	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Additional Justifications: Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.

Milestones (high level targets)

December-11	NLW-SHN Prior	December-12	M15-NLW 2012	December-15	MW to Fiber
December-12	NLW-SHN 2012	December-13	M15-NLW 2013	December-16	MW to Fiber
December-13	NLW-SHN 2013	December-12	Fiber to Lew Off 2012	December-17	MW to Fiber
December-11	M23-SPU Prior	December-13	Fiber to Lew Off 2013	December-18	MW to Fiber
December-12	M23-SPU 2012	December-14	Missing row in Actual Progress and	December-19	MW to Fiber
December-13	M23-SPU 2013	December-14	MW to Fiber	December-20	MW to Fiber



Capital Project Business Case

Resources Requirements: *(request forms and approvals attached)*

Internal Labor Availability: Low Probability Medium Probability High Probability
 YES NO

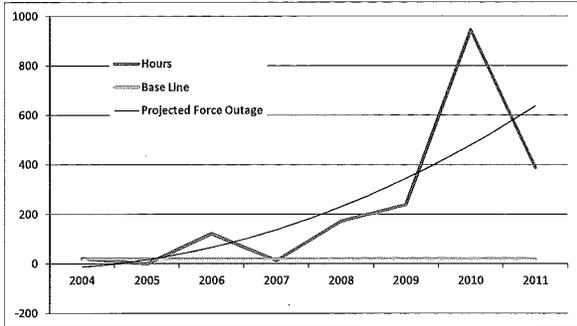
Enterprise Tech: YES - attach form NO or Not Required
Facilities: YES - attach form NO or Not Required

Capital Tools: YES - attach form NO or Not Required
Fleet: YES - attach form NO or Not Required



Capital Project Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



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Director/Manager

Other Party Review signature *Margie Stevens*
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Project

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Colstrip Transmission Capital Additions

ER No: 2214 **ER Name:** Colstrip Transmission-PNACI Capital Additions

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,504 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	491	41	41	41	41	41	41	41	41	41	41	41	41
2016	497	41	41	41	41	41	41	41	41	41	41	41	41
2017	516	43	43	43	43	43	43	43	43	43	43	43	43

Business Case Description:

This program is for capital replacement and upgrades and for O&M expenses for the jointly owned 500 kV Colstrip Transmission System. Program funding is used as transmission assets reach the end of their useful lives, requiring replacement or increased capacity. The program can also be used to accommodate necessary upgrades due to new interconnection requests on these facilities. Under the Colstrip Project Transmission Agreement (among Avista, Northwestern Energy, PacifiCorp, Portland General Electric and Puget Sound Energy), Avista is obligated to fund capital and O&M expenses commensurate with Avista's ownership share in these facilities. Such facilities include hardware, software, and operating system upgrades, as well as deployment of capabilities to meet new operating standards and requirements. Some system upgrades may be initiated by other requirements, including NERC reliability standards, growth, and third-party projects (e.g. transmission or generation interconnections under FERC regulations). Examples of upgrades to be completed under this program in the next 2 years are: 500 kV breaker replacement at Colstrip Substation, 500 kV communication replacement (OPGW Project) between Broadview and Colstrip to meet required dual communication paths under NERC standards, 500 kV relay upgrades at Broadview and 500 kV tower erosion mitigation.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

Capital Program Business Case



Investment Name:	Colstrip Transmission
Requested Amount	\$491,434
Duration/Timeframe	20 Year Program
Dept., Area:	Transmission
Owner:	Jeff Schleck/Heather Rosenrater
Sponsor:	Don Kopczyński
Category:	Program
Mandate/Reg. Reference:	Program

Assessments:
 Financial: 7.00%
 Strategic: Reliability & capacity
 Business Risk: Business Risk Reduction >10 and <= 15
 Program Risk: High certainty around cost, schedule and resources

Recommend Program Description:
 For capital upgrades and replacement and for O&M expenses for the jointly owned 500 KV Colstrip Transmission System. Program funding is used as transmission assets reach end-of-life, requiring replacement or upgrade. Under the Colstrip Project Transmission Agreement (among Avista, NorthWestern Energy, PacifiCorp, Portland General Electric and Puget Sound Energy), Avista is obligated to fund capital and O&M expenses commensurate with Avista's ownership share in these facilities. Such facilities include hardware, software, and operating system upgrades to meet new operating standards and requirements. Some upgrades may be initiated by NERC reliability standards, growth, and third-

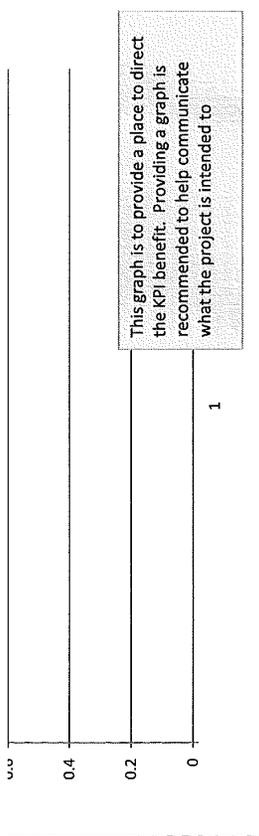
Performance	Improved performance, upgraded equipment, better status & control, new life cycle.	Capital Cost	\$ 491,434	O&M Cost	\$ 329,778	Other Costs	\$ -	Business Risk Score	4
Annual Cost Summary - Increase/(Decrease)		Capital Cost		O&M Cost		Other Costs			

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Severe negative system reliability and compliance impacts	\$ -	\$ -	\$ -	16
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0

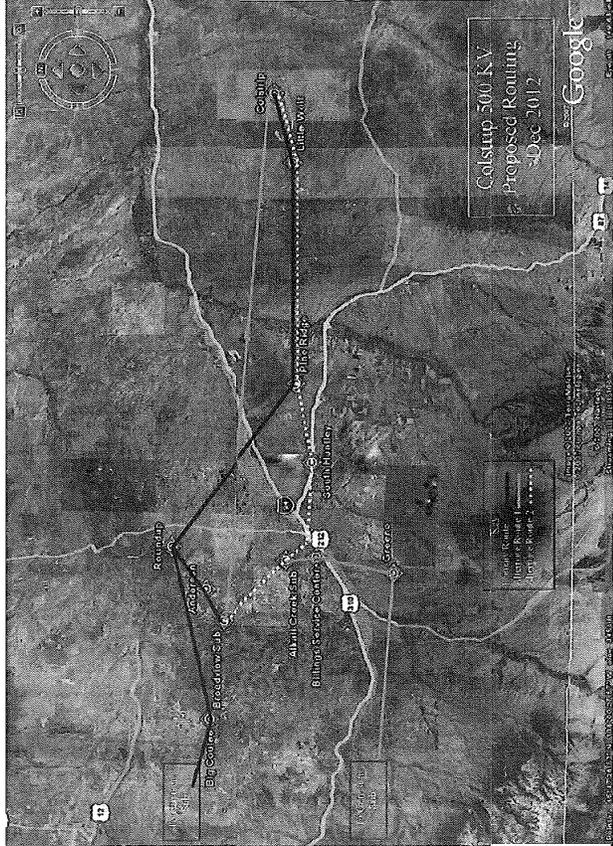
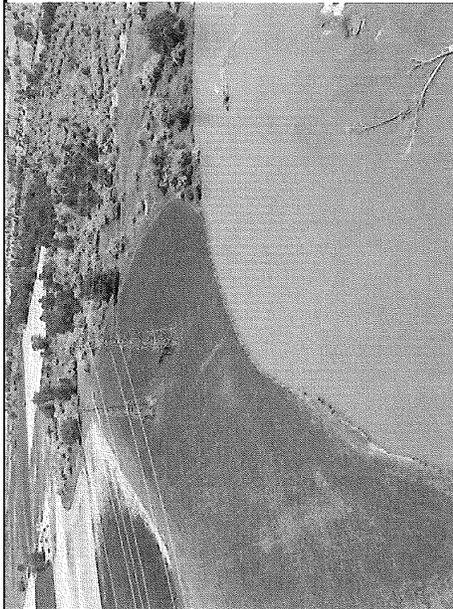
Program Cash Flows				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 368,887	\$ 392,583	\$ -	\$ 218,887
2015	\$ 491,434	\$ 329,778	\$ -	\$ 491,434
2016	\$ 496,535	\$ 302,751	\$ -	\$ 496,535
2017	\$ 515,928	\$ 295,977	\$ -	\$ 515,928

Associated Ers (list all applicable):	
	2214

Capital Program Business Case



Other Party Review signature *Margie Stevens*
 (if necessary) Director/Manager



Capital Program Business Case



To be completed by Capital Planning Group
Rationale for decision

Review Cycles
2012-2016

Date

Template

Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Distribution Grid Modernization

ER No: ER Name:

2470 Dist Grid Modernization

2570 Sandpoint Grid Modernization Project

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 35,000 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	11,000	557	467	529	585	665	743	823	733	740	710	617	3,832
2016	11,000	539	469	513	576	692	678	705	725	730	744	583	4,044
2017	13,000	558	482	523	585	699	684	720	729	735	750	593	5,943

Business Case Description:

The Distribution Grid Modernization Program provides value to customers and shareholders by improving grid reliability, energy savings and operational ability through a systematic and managed upgrade of our aging distribution system. This program seeks cost effective opportunities to increase service quality performance and system availability through the identification of locations that would benefit from the addition of switched capacitor banks, regulators and smart grid devices. The long-term plan represented by the IRR of 6.4% aims to upgrade 6 feeders per year to cover the whole distribution system in a 60 year cycle. This coordinates well with Wood Pole Management's 20 year cycle such that every third planned maintenance trip to a feeder would be an upgrade, expanding Wood Pole Management's scope. The average cost to rebuild each feeder is estimated to be \$3.5M.

Offsets:

O&M offsets associated with this business case may occur in the future, however, they are not quantifiable at this time.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Distribution Grid Modernization
Requested Amount	See Plan Below
Duration/Timeframe	Indefinite Year Program
Dept., Area:	Electrical Engineering
Owner:	Troy A. Dehnel
Sponsor:	Don Kopczynski
Category:	Program
Mandate/Reg. Reference:	n/a

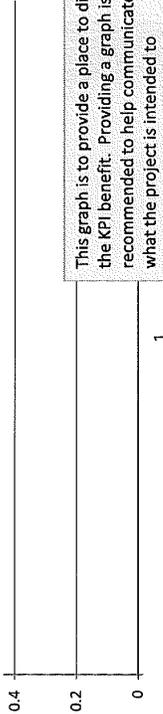
Assessments:	MH - >= 9% & <12% CIRR
Financial:	Life-cycle asset management
Strategic:	Business Risk Reduction >15
Business Risk:	High certainty around cost, schedule and resources
Program Risk:	

Recommend Program Description:	133	Annual Cost Summary - Increase/(Decrease)	Business Risk Score						
The Distribution Grid Modernization Program provides value to customers and shareholders by improving Grid Reliability, Energy Savings and Operational Ability through a systematic and managed upgrade of our aging distribution system. This program seeks cost effective opportunities to increase service quality performance and system availability through the identification of locations that would benefit from the addition of switched capacitor banks, regulators and smart grid devices. The long-term plan represented by the IRR of 6.4% aims to upgrade 6 feeders per year to cover the whole distribution system in a 60 year cycle. This coordinates well with Wood Pole Management's 20-year cycle. The average cost to rebuild each feeder is estimated to be \$3.5M.	Performance	<table border="1"> <tr> <th>Capital Cost</th> <th>O&M Cost</th> <th>Other Costs</th> </tr> <tr> <td>\$ 21,000,000</td> <td>\$ -</td> <td>\$ 198,000</td> </tr> </table>	Capital Cost	O&M Cost	Other Costs	\$ 21,000,000	\$ -	\$ 198,000	4
Capital Cost	O&M Cost	Other Costs							
\$ 21,000,000	\$ -	\$ 198,000							

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
Unfunded Program:	n/a	\$ 120,000	\$ -	\$ 1,980,000	25
Alternative 1: Brief name of alternative (if applicable)	When completed save an average of 1,970 MWh* annually & Reduce Outages	\$ 21,000,000	\$ -	\$ 198,000	4
Alternative 2: Brief name of alternative (if applicable)	Describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0

Program Cash Flows	Associated Ers (list all applicable):		
	Capital Cost	O&M Cost	Other Costs
Previous	\$ 7,308,357	\$ -	\$ 7,308,357
2014	\$ 8,686,019	\$ -	\$ 9,586,000
2015	\$ 11,000,000	\$ -	\$ 11,000,000
2016	\$ 11,000,000	\$ -	\$ 11,000,000
2017	\$ 13,000,000	\$ -	\$ 13,000,000
2018	\$ 15,000,000	\$ -	\$ 15,000,000
2019	\$ 15,000,000	\$ -	\$ 15,000,000

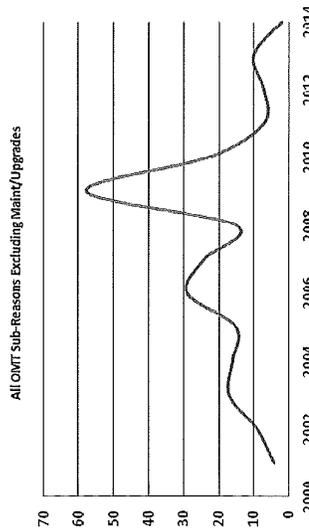
Capital Program Business Case



This graph is to provide a place to direct the KPI benefit. Providing a graph is recommended to help communicate what the project is intended to

(if necessary)

Director/Manager

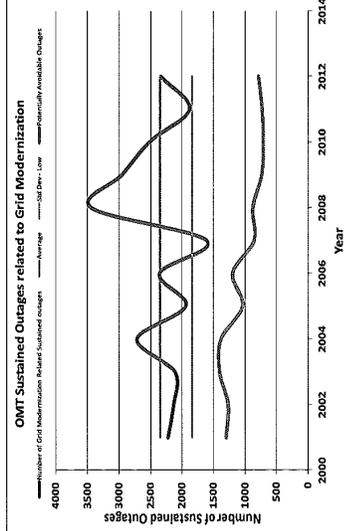
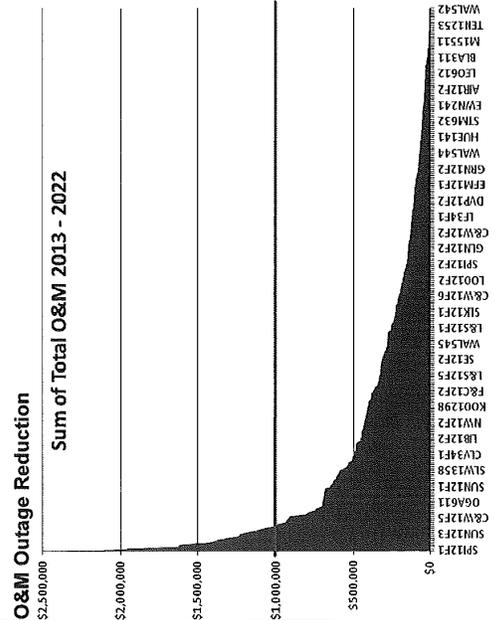


Actual Energy Savings

Feeder	Area	Year Complete	Annual Energy Savings (MWh)
9CE12F4	Spokane, WA (9th)	2009	601
BEA12F1	Spokane, WA	2012	972
F&C12F2	Spokane, WA	2014	570
BEA12F5	Spokane, WA	2014	885
WIL12F2	Wilbur, WA	2015	1,403
CDA121	Coeur d'Alene, ID	2014	438
Total			4,869

Estimated Outage Costs by Feeder Projected out 10 Years 2022

Feeder	2022
SPI12F1	\$2,185,995
NE12F4	\$2,074,839
NE12F2	\$1,440,185
SE12F4	\$1,414,351
FWT12F2	\$1,370,184
COB12F1	\$1,328,172
CDA122	\$1,230,638
SUN12F3	\$1,220,204
G&W12F5	\$1,088,570
PUL116	\$1,043,097
CLV34F1	\$1,011,177



To be completed by Capital Planning Group

Capital Program Business Case



Rationale for decision	Review Cycles 2012-2016
	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Distribution Line Protection

ER No: 2276 **ER Name:** Distribution Line Protection

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 375 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	125	1	1	4	4	18	18	18	20	20	20	3	-
2016	125	1	1	4	4	18	18	18	20	20	20	3	-
2017	125	1	1	4	4	18	18	18	20	20	20	3	-

Business Case Description:

Avista's Electric Distribution system is configured into a trunk and lateral system. Lateral circuits are protected via fuse-links and operate under fault conditions to isolate the lateral in order to minimize the number of affected customers in an outage. Engineering recommends treatment of the removal and replacement of Chance Cutouts, the removal and replacement of Durabute cutouts and the installation of cut-outs on un-fused lateral circuits. This is a targeted program to ensure adequate protection of lateral circuits and to replace known defective equipment.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Distribution Line Protection	Assessments:	
Requested Amount	875,000 5-years	Financial:	MH - >= 9% & <12% CIRR
Duration/Timeframe	On-going Year Program	Strategic:	Life Cycle Programs
Dept., Area:	Engineering	Operational:	Operations require execution to perform at current levels
Owner:	Dave James	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Kopczynski/Fisher	Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Program	Assessment Score:	93
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	

Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
Avista's Electric Distribution system is configured into a trunk and lateral system. Lateral circuits are protected via fuse-links and operate under fault conditions to isolate the lateral minimize the number of affected customers. Engineering recommends treatment of the following: 1. Removal and replacement of Chance Cutouts 2. Removal and replacement of Durabute cutouts 3. Installation of cut-outs on unfused lateral circuits. This is a targeted program to ensure adequate protection of lateral circuits and to replace known defective equipment.	Investments necessary to maintain current operations and to extend the life of current assets.	\$ 250,000	\$ 10,000		8
Annual Cost Summary - Increase/(Decrease)					

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
Unfunded Program:	n/a	\$ -	\$ -	\$ -	15
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	8
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
5 years of costs					Current ER				
	Capital Cost	O&M Cost	Other Costs	Approved	2416 System Wide				
2013	\$ 250,000	\$ 5,000	\$ -	\$ 250,000					
2014	\$ 250,000	\$ 10,000	\$ -	\$ 250,000					
2015	\$ 125,000	\$ 10,000	\$ -	\$ 125,000					
2016	\$ 125,000	\$ 10,000	\$ -	\$ 125,000					
2017	\$ 125,000	\$ 5,000	\$ -	\$ 125,000					
2018	\$ -	\$ -	\$ -	\$ 125,000					
2019	\$ -	\$ -	\$ -	\$ 125,000					
Total	\$ 875,000	\$ 40,000	\$ -	\$ 1,125,000					

Mandate Excerpt (if applicable):

Additional Justifications:
 This program was funded for a 2-year period in the 2009-2010 timeframe. This request allows for completion of the Chance cutout replacements but also includes the installation of devices on unfused laterals.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Check the appropriate box. The Internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).
Contract Labor:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required		
			Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required		
			Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required		



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	# Cutout Replacement
	# New Cutout Installation

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Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stevens* _____
(if necessary) Director/Manager

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Spokane, N & W

- Davenport 12F2 Convert FDR to UG
- Rexford 751 - Rehtf 2.5 mi
- S Okalo 521 - Record
- Lung Lake - Conv OH to UG (USFWS)
- 3HT 12F2 - Waste Water
- Monroe St Secondary Old Record
- Milwood 12F4 - Record 0.5 mi
- Colbert 12F1 - Record 40 ACSR
- NE 12F2 - Tie to NE 12F4
- SE 12F2 - Tower MT
- Liberty Lk 12F2 - Henry Rd Tie
- NE 12F1 Record & Split FDR
- SCE 12F4 - Record 368
- Fort Wright 12F1 - Record 1 mi
- Deer Park 12F2 - Record 20 ACSR
- NE 12F2 - Tie to WAK 12F3
- Barker 12F2 - Tie to EFM 12F1
- East Farms 12F1 - Record 1.5 Mi
- Fort Wright 12F4 - Record 500'
- SCE 12F1 - Tie to BEA 12F6
- SCE 12F2 - Tie to Chester 12F2
- Silver Lk 12F1 - Record 2.1 mi
- Thid & Hatch 12F1 - Tie to 12F7
- GSW 12F4 - Tie to 3HT 12F7
- Chester 12F4 - Record 1.75 mi
- SCE 12F3/Bea 12F1 - Record 1 mi
- Sunsat 12F1 - Record 1.5 mi
- SCE 12F1 - Tie to SCE 12F3 Brkwy 0.5 mi
- M.L. 12F1 Record 1.0 CU 0.8 mi
- CH 12F3 Record 20 CU 3 mi
- BKR 12F3 Record 20 ACSR 1 mi

- BKR 12F3 Record 1 mi
- M.L. 12F2 Record 0.5 mi
- Colville 34F1 - Hwy 25N Record
- Gford 34F1 - Replace Neutral
- Orin 12F3-Record 2.4 mi
- Colville 12F2 - Record 2 mi
- Colville 12F2 - Record 4.7 mi Oakahat
- CHW 12F2 - Record 0.25 mi - town
- CHW 12F2 - Angel Pk Record 0.75mi
- Orin 12F1 and Cov 12F2 Viper Midline
- GRN 12F1 Tie to CLV 12F2 4.5 mi
- GI 34F1 - CHW 12F3 FDR Tie
- Orin 12F2 - Record 1.2 mi
- GRN 12F2 Record 4.1 Mi Old Kettle Rd
- CLV 12F4 Record 1.6 mi
- HE 12F2 - Chg FDR Voltage to 13.2 KV
- CLV 34F1 - Kelly Hill RR'd
- CHW 12F2 - Flavery Trail Record
- CH 34F1 182 - CLV 34F1 - 3 Midlines
- Colville Area Switched Banks

- Sandpoint 4522 - Record 0.7 mi
- Old Town - De Tie Record
- Dalton 131 Record 1.5 mi
- Dalton 131 - Record 1.4 mi
- Avondale 151 - Record 1.5 mi
- Dalton 131 - Record 0.8 mi (Lakeshore)
- Dalton 133 - Add 1-ph 3.1 mi/tes
- PF 213 - Record 1.2 mi Riverbend Pk
- Dalton 134 - Colliester Ck Loop
- Pleasant View 241 - Est 1 mi
- Blue Ck 321 - Record 1.2 mi
- Dalton 131 - Extend 0.5 mi
- Pine Ck 424 - Record 1 mi
- Wallace 542 - Records 1.5 mi to bika y
- Ogawa 611 - Record 1.5 mi
- Rathrum 233-UG 1 mi (Slyte Ranch)
- Lucky Hill 552 - Add FDR
- CDA - Osprey mitigation
- Huetter 142 - Extend 3/4 0.5 mi
- Blue Ck 321 - Record 3 mi
- Lakeview 343 - Conv 6 mi to UG
- Wallace 544-Record for Star Mine

Palouse & L/C

- Hobrook 1206 - Record 3700'
- Orafro 1281
- 10nStewart 1253 tie to 1256
- 10nStewart 1253 - 1 mi record & regs
- S Leviston 1358 Extend
- CFD 1210 - Record #6 CU
- Palouse 312 - Add Phase
- Moscow 515 tie to 512
- Ewan 241 Midline Regs

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Distribution Minor Rebuild

ER No: 2055
ER Name: Electric Distribution Minor Blanket

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 24,900 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	8,300	875	672	640	664	684	644	879	622	636	677	684	623
2016	8,300	876	672	640	664	684	644	879	622	636	677	684	622
2017	8,300	876	672	640	664	684	644	879	622	636	677	684	622

Business Case Description:

This program is for distribution minor rebuild as requested by the customer or initiated by Avista. Examples of construction work includes replacing meters, services, transformers, primary overhead or underground lines, or devices. This also includes addressing trouble related jobs (i.e. replacing burnt or damaged poles).

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Distribution Minor Rebuild			Assessments:	
Requested Amount	\$	8,300,000		Financial:	7.00%
Duration/Timeframe	On-Going	Year Program		Strategic:	Reliability & capacity
Dept., Area:	Operations			Business Risk:	Business Risk Reduction > 15
Owner:	Bryan Cox			Program Risk:	Moderate certainty around cost, schedule and resources
Sponsor:	Don Kopczynski			Assessment Score:	102
Category:	Program			Annual Cost Summary - Increase/(Decrease)	
Mandate/Reg. Reference:	n/a			Performance	Capital Cost
Recommend Program Description:	This program is for distribution minor rebuild as requested by the customer or initiated by Avista. Examples of construction work includes replacing meters, services, transformers, primary overhead or underground lines, or devices. This also includes addressing trouble related jobs (i.e. replacing burnt or damaged poles).			O&M Cost	Other Costs
					Business Risk Score

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	If we do not respond, we would not be addressing the minor rebuild jobs to maintain our distribution system. This program also includes responding to trouble calls. There would be potential public safety issues if our crews do not respond.	n/a	\$ -	\$ -	\$ -	20
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 8,500,000	\$ -	\$ -	\$ 8,300,000
2015	\$ 8,300,000	\$ -	\$ -	\$ 8,300,000
2016	\$ 8,549,000	\$ -	\$ -	\$ 8,300,000
2017	\$ 8,805,470	\$ -	\$ -	\$ 8,300,000
2018	\$ 9,069,634	\$ -	\$ -	\$ 8,300,000
2019	\$ 9,341,723	\$ -	\$ -	\$ 8,300,000
2020+	\$ -	\$ -	\$ -	\$ -
Total	\$ 52,565,827	\$ -	\$ -	\$ 49,800,000

Associated Ers (list all applicable):		
2055		

ER	2015	2016	2017	2018	2019	Total	Mandate Excerpt (if applicable):
2055	\$ 8,300,000	\$ 8,549,000	\$ 8,805,470	\$ 9,069,634	\$ 9,341,723	\$ 44,065,827	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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Total	\$ 8,300,000	\$ 8,549,000	\$ 8,805,470	\$ 9,069,634	\$ 9,341,723	\$ 44,065,827	Additional Justifications: Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.

Resources Requirements: (request forms and approvals attached)

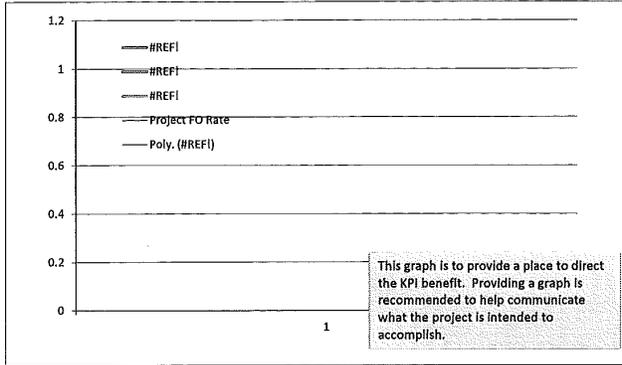
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input checked="" type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



Capital Program Business Case



Prepared signature _____

Reviewed signature _____

Director/Manager

Other Party Review signature (if necessary) _____

Manni Stevens
Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Distribution Transformer Change-Out Program ("TCOP")

ER No: 2535 **ER Name:** TCOP Related Distribution Rebuilds

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 10,500 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	4,700	514	379	357	373	387	360	516	345	355	382	386	346
2016	4,700	514	379	357	373	387	360	516	345	355	382	386	346
2017	1,100	120	89	84	87	90	84	121	81	83	89	90	81

Business Case Description:

The Distribution Transformer Change-Out Program has three main drivers. First, the pre-1981 distribution transformers that are targeted for replacement average 42 years of age and are a minimum of 30 years old. Their replacement will increase the reliability and availability of the system. Secondly, the transformers to be replaced are inefficient compared to current standards. Thirdly, pre-1981 transformers have the potential to have PCB containing oil. The transformers to be removed early in the programs are those that are most likely to have PCB containing oil and their replacement will reduce the risk of PCB containing oil spills.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Distribution Transformer Change-Out Program					
Requested Amount	\$	7,000,000	Assessments:			
Duration/Timeframe	25 Year Program		Financial:	Medium - >= 5% & <9% CIRR		
Dept., Area:	Asset Management & Process Improvement		Strategic:	Life Cycle Programs		
Owner:	Glenn Madden (Manager) & Al Fisher (Dir)		Operational:	Operations require execution to perform at current levels		
Sponsor:	Don Kopczynski		Business Risk:	ERM Reduction >5 and <= 10		
Category:	Program		Program Risk:	High certainty around cost, schedule and resources		
Mandate/Reg. Reference:	n/a		Assessment Score:	89	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score	
The Distribution Transformer Change-Out Program has three main drivers. First, the pre-1981 distribution transformers that are targeted for replacement average 42 years of age and are a minimum of 30 years old. Their replacement will increase the reliability and availability of the system. Secondly, the transformers to be replaced are inefficient compared to current standards and their replacement will result in energy savings. Thirdly, pre-1981 transformers have the potential to have pcb containing oil. The transformers to be removed early in the program are those that are most likely to have pcb containing oil and their replacement will reduce the risk of pcb containing oil spills which are a safety, environmental, and a public relations concern.	When completed save an average of 5.6 MW per hour and eliminate PCB environmental risks	\$ 5,800,000	\$ 105,000	\$ -	3	
Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score	
Unfunded Program:	No planned replacement program for distribution transformers. Substantially higher risk of a pcb containing oil spill occurring.	n/a	\$ 4,500,000	\$ 200,000	\$ 900,000	12
Alternative 1: Transformer Change-Out Program	The Distribution Transformer Change-Out Program has three main drivers. First, the pre-1981 distribution transformers that are targeted for replacement average 42 years of age and are a minimum of 30 years old. Their replacement will increase the reliability and availability of the system.	When completed save an average of 5.6 MW per	\$ 5,800,000	\$ 105,000	\$ -	3
Alternative 2:	Distribution Engineering has proposed that any pole that the TCOP does work on needs to have the guy replaced with the new standard guy insulator (fiber cable).		\$ 200,000	\$ -	\$ -	0
Alternative 3 Name :			\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):			
5 years of costs					Current ER	1003		
	Capital Cost	O&M Cost	Other Costs	Approved		2060		
						2535		
2012	\$ 7,000,000	\$ 100,000	\$ -	\$ 6,000,000				
2013	\$ 7,200,000	\$ 102,000	\$ -	\$ 2,924,015				
2014	\$ 5,800,000	\$ 105,000	\$ -	\$ 3,944,000				
2015	\$ 5,800,000	\$ 107,000	\$ -	\$ 4,700,000				
2016	\$ 5,800,000	\$ 110,000	\$ -	\$ 4,700,000				
2017				\$ 1,100,000				
2018				\$ -				
Total	\$ 31,600,000	\$ 524,000	\$ -	\$ 23,368,015				

Mandate Excerpt (if applicable):

Additional Justifications:

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability Enterprise Tech: YES - attach form NO or Not Required

Contract Labor: YES NO Facilities: YES - attach form NO or Not Required

Capital Tools: YES - attach form NO or Not Required

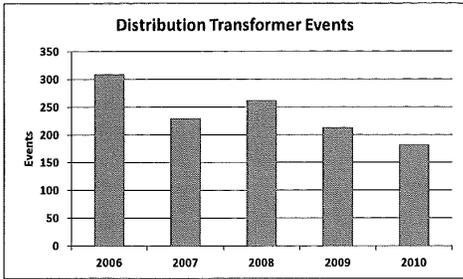
Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Distribution Transformer Events Distribution Transformer Oil Spills
	Distribution Transformer Energy Savings



Prepared signature _____

Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stevens* _____
(if necessary) Director/Manager

2006	309
2007	230
2008	262
2009	213
2010	182

To be completed by Capital Planning Group	
Rationale for decision	Review Cycles 2012-2016
	Date
	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Distribution Wood Pole Management (“WPM”)

ER No: 2060
ER Name: Wood Pole Mgmt

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 34,000 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	11,000	1,201	886	837	874	905	843	1,207	808	831	895	905	810
2016	11,000	1,201	886	837	874	905	843	1,207	808	831	895	905	810
2017	12,000	1,310	967	913	953	987	919	1,316	882	906	976	987	883

Business Case Description:

Distribution Wood Pole Management Program inspects all Electric Distribution Feeders on a 20 year cycle and repairs or replaces wood poles, cross arms, missing lightning arresters, missing grounds, bad cutouts, bad insulating pins, bad insulators, leaking transformers, replaces guy wires not meeting current code requirements on poles replaced by WPM, and replaces pre-1981 transformers.

Offsets:

The attached copy of the business case does not identify any O&M offsets. However, The Company estimates the cost of an event associated with a bad wood pole based on crew response and labor is approximately \$600. For the test year, Avista saw a slight increase in the number of outages to 850 events. For 2016 we anticipate a reduction of 110 events. We estimate that the O&M offset for 2016 due to Wood Pole Management work is \$66,000 (System basis). This results in an Idaho offset of \$23,000 in 2016.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Distribution Wood Pole Management
Requested Amount	Estimated Total Capital Expense
Duration/Timeframe	Indefinite Year Program
Dept., Area:	Asset Maintenance
Owner:	Glenn Madden (Manager) & Heather Rosentrater/A
Sponsor:	Don Kopczynski
Category:	Program
Mandate/Reg. Reference:	NESC - See WPM Compliance Plan for details

Assessments:
 Financial: 7.42%
 Strategic: Life-cycle asset management
 Business Risk: Business Risk Reduction >5 and <= 10
 Program Risk: High certainty around cost, schedule and resources

Recommend Program Description:
 Distribution Wood Pole Management Program inspects all Electric Distribution Feeders on a 20 year cycle and repairs or replaces wood poles, crossarms, missing lightning arresters, missing grounds, bad cutouts, bad insulating pins, bad insulators, leaking transformers, replaces guy wires not meeting current code requirements on poles replaced by WPM, and replaces pre-1981 transformers

	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
Alternatives: Status Quo : No Wood Pole Management Run wood poles and associated equipment to failure	Customer IRR = 7.42% and avoids an average of 1,700 additional events per year	\$ 1,172,022	\$ 530,943	\$ 5,996,350	15
Alternative 1: Distribution Wood Pole Management - 20 Year Inspection Cycle Distribution Wood Pole Management Program inspects all Electric Distribution Feeders on a 20 year cycle and repairs or replaces wood poles, crossarms, missing lightning arresters, missing grounds, bad cutouts, bad insulating pins, bad insulators, leaking transformers, and replaces pre-1981	Increase OMT events by 1,700 events	\$ 8,186,361		\$ 6,834,467	25
Alternative 2: Distribution Wood Pole Management - 20 Year Inspection Cycle with Guy Wire Distribution Wood Pole Management Program inspects all Electric Distribution Feeders on a 20 year cycle and repairs or replaces wood poles, crossarms, missing lightning arresters, missing grounds, bad cutouts, bad insulating pins, bad insulators, leaking transformers, replaces guy wires not	Customer IRR = 7.94% and avoids an average of 1,700 additional events per year	\$ 10,712,022	\$ 530,943	\$ 5,996,350	15
Alternative 3 Name : Distribution Wood Pole Management - 10 Year Inspection Cycle with Guy Distribution Wood Pole Management Program inspects all Electric Distribution Feeders on a 10 year cycle and repairs or replaces wood poles, crossarms, missing lightning arresters, missing grounds, bad cutouts, bad insulating pins, bad insulators, leaking transformers, replaces guy wires not	Customer IRR = 7.42% and avoids an average of 1,700 additional events per year	\$ 11,172,022	\$ 530,943	\$ 5,996,350	15
Alternative 3 Name : Distribution Wood Pole Management - 10 Year Inspection Cycle with Guy Distribution Wood Pole Management Program inspects all Electric Distribution Feeders on a 10 year cycle and repairs or replaces wood poles, crossarms, missing lightning arresters, missing grounds, bad cutouts, bad insulating pins, bad insulators, leaking transformers, replaces guy wires not	Customer IRR = 7.66% and avoids an average of 2,250 additional events per year	\$ 17,296,437	\$ 961,699	\$ 4,920,632	10

Program Cash Flows

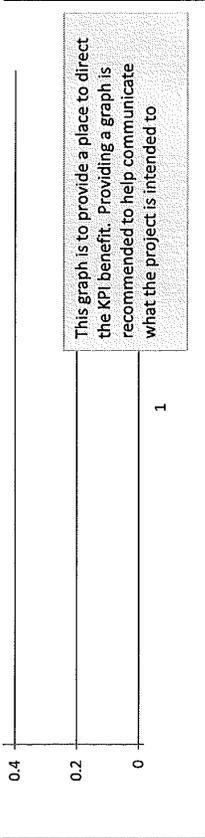
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 9,893,700	\$ 507,337	\$ -	\$ 9,486,300
2013				\$ 9,281,686
2014	\$ 11,500,000	\$ 519,006	\$ -	\$ 9,550,000
2015	\$ 11,500,000	\$ 530,943	\$ 4,540,023	\$ 11,000,000
2016	\$ 11,500,000	\$ 543,155	\$ 4,564,898	\$ 11,000,000
2017	\$ 15,000,000	\$ 555,648	\$ 4,574,638	\$ 12,000,000
2018	\$ 15,000,000	\$ 570,094	\$ 4,588,630	\$ 12,000,000

Associated Eirs (list all applicable):

2060



Capital Program Business Case



Total	Proposed WPM Capital Budget
\$11,172,022	\$11,172,022
\$11,133,453	\$11,389,522
\$11,031,162	\$11,544,431
\$11,068,892	\$11,850,347
\$11,045,416	\$12,097,193

WPM 2014:	\$10,712,022 +	WPM Estimate for each years w/ Guy Wire Replacem:	\$460,000 =
WPM 2015:	\$10,673,453 +		\$460,000 =
WPM 2016:	\$10,571,162 +		\$460,000 =
WPM 2017:	\$10,608,892 +		\$460,000 =
WPM 2018:	\$10,585,416 +		\$460,000 =

To be completed by Capital Planning Group
Rationale for decision

Review Cycles
2012-2016

Capital Program Business Case



Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Meter Minor Blanket

ER No: 2073
ER Name: Meter Minor Blanket

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 900 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	300	25	25	25	25	25	25	25	25	25	25	25	25
2016	300	25	25	25	25	25	25	25	25	25	25	25	25
2017	300	25	25	25	25	25	25	25	25	25	25	25	25

Business Case Description:

The existing power line carrier system for reading meters has failed and is not repairable. This project will replace the existing meters with two way automated communications system (TWACS) meters and replace substation equipment with TWACS equipment.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	Minor Meter Blanket	Assessments:	
Requested Amount	Estimated Total Capital Expenditure	Financial:	12.56%
Duration/Timeframe	0.2 Year Project	Strategic:	Reliability & Capacity
Dept., Area:	Electric Meter Shop	Business Risk:	Business Risk Reduction >5 and <= 10
Owner:	Heather Rosentrater	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski		
Category:	Project		
Mandate/Reg. Reference:	n/a	Assessment Score:	104

Recommend Project Description: The existing power line carrier system for reading meters has failed and is not repairable. This project will replace the existing TURTLE meters with TWACS meters and replace substation equipment with TWACS equipment. 2/18/14 - requested carryover of \$50k for work approved in 2013 but not finished until July 2014. Separate item - \$390k increase associated with electric meter replacement non-revenue. Transfer from ER2059 as in prior years the charges associated with this work was allocated to ER2059. Total increase of \$440k transferred from ER2059 - Storms.	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
	Reduce overtime from meter reading and bill estimation	\$ 90,000	\$ 120	\$ -	2

Alternatives:		Annual Cost Summary - Increase/(Decrease)				
Unfunded Project:	The Turtle meters will be hand read when they can and estimated through the winter.	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
		n/a	\$ -	\$ 14,515	\$ -	12
Alternative 1: Brief name of alternative (if applicable)	Replace with Fixed Network	Could only cover a percentage of the meters and	\$ 55,000	\$ 60	\$ -	2
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows						Associated Ers (list all applicable):			
	Capital Cost	O&M Cost	Other Costs	Approved					
Previous	\$ -	\$ -	\$ -	\$ -					
2013	\$ 90,000	\$ -	\$ -	\$ 90,000					
2014	\$ 15,000	\$ -	\$ -	\$ 340,000					
2015	\$ 15,000	\$ -	\$ -	\$ 300,000					
2016	\$ 15,000	\$ -	\$ -	\$ 300,000					
2017	\$ 15,000	\$ -	\$ -	\$ 300,000					
2018	\$ -	\$ -	\$ -	\$ 300,000					
2019	\$ -	\$ -	\$ -	\$ 300,000					
Total	\$ 150,000	\$ -	\$ -	\$ 1,930,000					

ER	2013	2014	2015	2016	2019	Total	Mandate Excerpt (if applicable):
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Additional Justifications: Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.
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Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

Milestones (high level targets)							
January-00	open		January-00	open	January-00	open	Milestones should be general. Use your judgement on project progress so that progress can
January-00	open		January-00	open	January-00	open	
January-00	open		January-00	open	January-00	open	
January-00	open		January-00	open	January-00	open	
January-00	open		January-00	open	January-00	open	
January-00	open		January-00	open	January-00	open	

Resources Requirements: (request forms and approvals attached)							
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required	Capital Tools:
	<input type="checkbox"/> YES				<input type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required	<input type="checkbox"/> YES - attach form
					<input type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required	<input type="checkbox"/> NO or Not Required



Capital Project Business Case

YES - attach form



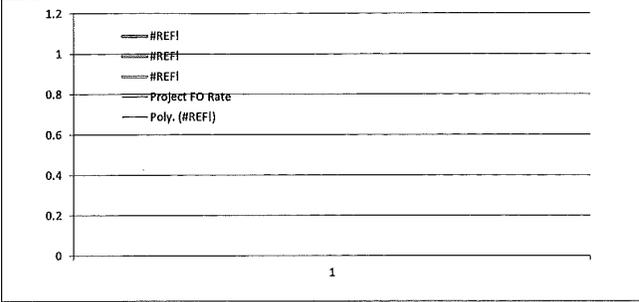
Capital Project Business Case

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here

Fill in the name of the KPI here



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Director/Manager

Other Party Review signature *Margie Stevens*
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Project

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Electric Replacement/Relocation

ER No: ER Name:

2056 Distribution Line Relocations

2061 WSDOT Franchise Requirements Construction

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 7,500¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	2,400	248	195	186	193	198	187	249	182	185	196	198	182
2016	2,500	258	203	194	201	206	195	259	189	193	204	206	189
2017	2,600	268	211	202	209	215	203	269	197	201	213	214	197

Business Case Description:

This annual program will replace sections of existing infrastructure that require replacement due to relocation or improvement of streets or highways. Requirements may come from our franchise agreements, permits, or the Idaho Transportation Department. Avista installs many of its facilities in public right-of-way under established franchise agreements. Avista is required under the franchise agreements, in most cases, to relocate its facilities when they are in conflict with road or highway improvements.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Elec Replacement and Relocation		Assessments:	
Requested Amount	\$	2,700,000	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	On-Going	2012+	Strategic:	Other
Dept., Area:	Gas and Electric Operations		Operational:	Operations require execution to perform at current levels
Owner:	Al Fisher		Business Risk:	ERM Reduction >10 and <= 15
Sponsor:	Don Kopczynski		Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Mandatory		Assessment Score:	140
Mandate/Reg. Reference:	Franchise Agreements and Permits		Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs
This annual program will replace sections of existing infrastructure that require replacement due to relocation or improvement of streets or highways. Requirements may come from our franchise agreements, permits, or WA DOT. Avista installs many of its facilities in public right-of-way under established franchise agreements. Avista is required under the franchise agreements, in most cases, to relocate its facilities when they are in conflict with road or highway improvements.		\$ 2,700,000	\$ -	\$ -
				Business Risk Score
				2

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo :	Avista would be out of compliance with established franchise agreements and/or permits if work is not completed.	n/a	\$ -	\$ -	\$ -	16
Alternative 1:	Relocate facilities in conflict with street and highway projects where established franchise agreements and/or permits exist.	n/a	\$ 2,700,000	\$ -	\$ -	2
Alternative 2:			\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)		describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):					
2012-2016					Current ER					
	Capital Cost	O&M Cost	Other Costs	Approved						
Previous			\$ -	\$ -	2056					
2012	\$ 2,400,000	\$ -	\$ -	\$ 2,400,000	2061					
2013	\$ 2,700,000	\$ -	\$ -	\$ 2,700,000						
2014	\$ 2,300,000	\$ -	\$ -	\$ 1,752,430						
2015	\$ 2,400,000	\$ -	\$ -	\$ 2,400,000						
2016	\$ 2,500,000	\$ -	\$ -	\$ 2,500,000						
2017	\$ 2,600,000	\$ -	\$ -	\$ 2,600,000						
2018	\$ 2,700,000	\$ -	\$ -	\$ 2,700,000						
2019	\$ -	\$ -	\$ -	\$ 2,800,000						
Total	\$ 17,600,000	\$ -	\$ -	\$ 19,352,430						

Mandate Excerpt (if applicable):
 Franchise agreements, typical state highway and R/R permits and WA Department of Transportation prescribe that the utility will relocate at their expense when in conflict with entity activities.

Additional Justifications:
 Mandatory work to maintain compliance with existing franchise and operating permits with state highway districts and rail roads.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	N/A - Mandatory Work
	Fill in the name of the KPI here



Capital Investment Business Case

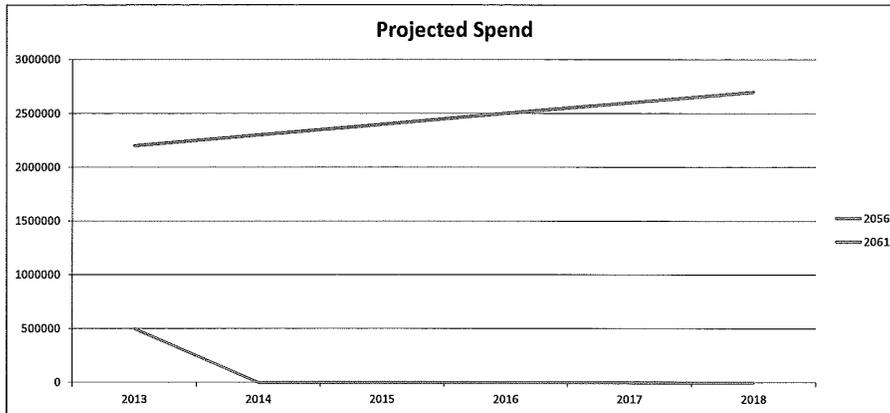
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WSDOT Franchise work will be incorporated into ER2056 in years 2014 - 2018

Other Party Review Margi Stevens signature (if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program



To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Environmental Compliance

ER No: ER Name:

6000 PCB Identification & Disposal

6101 Forest Service Requirements

6002 Environmental Compliance Blanket

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,500 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	500	21	21	83	21	21	83	21	21	83	21	21	83
2016	500	21	21	83	21	21	83	21	21	83	21	21	83
2017	350	21	21	46	21	21	46	21	21	46	21	21	46

Business Case Description:

Implementation of Forest Service Special Use Permits, waste oil disposal, including polychlorinated biphenyls (PCB), and environmental compliance requirements related to storm water management, water quality protection, property cleanup and related issues, etc.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Environmental Compliance	Assessments:	
Requested Amount	\$250,000	Financial:	High - Exceeds 12% CIRR
Duration/Timeframe	30 Year Program	Strategic:	Other
Dept., Area:	Environmental	Operational:	Operations require execution to perform at current levels
Owner:	Darrell Soyars (Mgr.); Bruce Howard (Dir)	Business Risk:	ERM Reduction >10 and <= 15
Sponsor:	Marian Durkin	Program Risk:	High certainty around cost, schedule and resources
Category:	Mandatory	Assessment Score:	182
Mandate/Reg. Reference:	SUP; NEPA; PCB Disposal; EPA TSCA WA	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:		Performance	Capital Cost
Implementation of Forest Service Special Use Permits (SUP), Waste Oil Disposal, Including PCBs, and Environmental Compliance requirements related to storm water management, water quality protection, property cleanup and related issues, etc.	n/a	\$ 250,000	O&M Cost
			Other Costs
			Business Risk Score
			6

		Annual Cost Summary - Increase/(Decrease)				
Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Alternative 1: Funded SUP implementation	Avista is required to perform various mitigation activities associated with our right-of-ways (ROW) across National Forest lands. These activities are performed under the framework of the Special Use Permits issue by United States Forest Service (USFS) for 30 years which requires mitigation project to protect.	n/a	\$ 100,000	\$ -	\$ -	20
Alternative 2: Unfunded SUP implementation	If mitigation projects are not performed in accordance with the permit and annual workplans, this would represent a violation of the SUP, thus placing the activities associated with our ROW at risk. Potential for USFS enforcement/penalties, as well as NERC/WECC enforcement.		\$ -	\$ -	from moderate to extreme	6
Alternative 1: Funded PCB Disposal	Proper disposal of Waste Oil and PCB equipment is required under Washington State and Environmental Protection Agency (EPA), Toxic Substance Control Act (TSCA) regulations.		\$ 150,000	\$ -	\$ -	0
Alternative 2: Unfunded PCB Disposal	If the PCB disposal is not funded, we would be subject to penalties/fines for non-compliance with state/federal laws, as well as subject to proper disposal via enforcement action or to cleanup liabilities, including recovery of treble damages by agencies.		\$ -	\$ -	from moderate to extreme	0
Alternative 1: Funded Environmental Compliance	Funding of this program reduces risk of non-compliance and environmental liability		\$ -	\$ -	\$ -	15
Alternative 2: Unfunded Environmental Compliance	If unfunded, Avista would run the risk of having facilities out of compliance an/or liability from contamination. Could experience fine or penalties		\$ -	\$ -	from moderate to extreme	2

Program Cash Flows		Associated Ers (list all applicable):			
5 years of costs		Current ER	6101	6000	6002
	Capital Cost	O&M Cost	Other Costs	Approved	
Previous	\$ -	\$ -	\$ -	\$ -	
2012	\$ -	\$ -	\$ -	\$ 350,000	
2013	\$ -	\$ -	\$ -	\$ 251,000	
2014	\$ 250,000	\$ -	\$ -	\$ 151,000	
2015	\$ 250,000	\$ -	\$ -	\$ 500,000	
2016	\$ 250,000	\$ -	\$ -	\$ 500,000	
2017	\$ 250,000	\$ -	\$ -	\$ 500,000	
2018	\$ 250,000	\$ -	\$ -	\$ 500,000	
2019	\$ -	\$ -	\$ -	\$ 500,000	
Total	\$ 1,250,000	\$ -	\$ -	\$ 1,250,000	

Mandate Excerpt (if applicable):

Additional Justifications:
 SUP: Vegetation management is a requirement of the North American Electric Reliability Corporation (NERC) and in place to prevent outages from vegetation located on the transmission ROW and to minimize outages from vegetation located outside the ROW. Unmanaged vegetation growing near power lines can cause damage to facilities, interrupt power supply and start wildfires. Other objectives are to provide a clear, safe work space and access to teh ROW for construction and maintenance work. Permit conditions allow us to conduct vegetation management. PCB: EPA Federal PCB Regulations (for disposal of PCB equipment); Toxic Substances Control Act and Washington Dangerous Waste Regulations (provides criteria for managing and disposal of PCB).

Resources Requirements: (request forms and approvals attached)



Capital Program Business Case

Internal Labor Availability: Low Probability
Contract Labor: YES

Medium Probability
 NO

High Probability

Enterprise Tech: YES - attach form
Facilities: YES - attach form
Capital Tools: YES - attach form
Fleet: YES - attach form

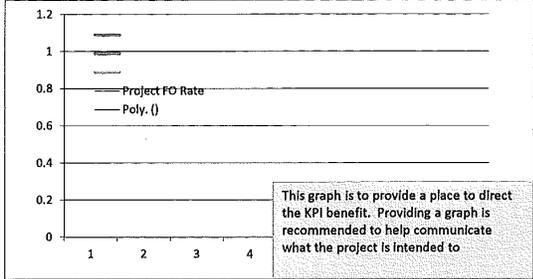
NO or Not Required
 NO or Not Required
 NO or Not Required
 NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	annual meetings with the National Forest Service (NFS)
	Environmental Protection Agency
	WDOE



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Reviewed signature _____
Director/Manager

Other Party Review signature (if necessary) *Marqui Stevens* _____
Director/Manager

Capital Budget Projections

	2014	2015	2016	2017	2018	
ER 6000	150,000	150,000	150,000	150,000	150,000	PCB Waste Management
ER 6101	100,000	100,000	100,000	100,000	100,000	Permit Renewal/Implementation
ER 6002	200,000	200,000	200,000	200,000	200,000	Environmental Compliance Pullman Storm Water
E14	450,000	450,000	450,000	450,000	450,000	


Engineers Opinion
Cost Estimat...


Avista SR 270 Site
Storm Treat...

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Primary Underground Residential Distribution (“URD”) Cable Replacement

ER No: 2054 **ER Name:** Electric Underground Replacement

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,000 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,000	27	20	19	207	208	207	215	18	19	20	21	18
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

This effort involves replacing the first generation of Underground Residential District (URD) cable. This project has been ongoing for the past several years and focuses on replacing a vintage and type of cable that has reached its end of life and contributes significantly to URD cable failures.

Offsets:

A five year plan to inspect and maintain our padmount equipment will add \$800,000 per year (System basis) to O&M spending for the first five years, beginning in 2016. Idaho’s allocation of the additional O&M Costs is \$282,000.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

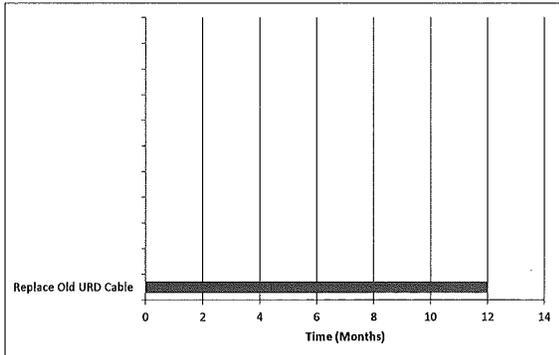


Capital Investment Business Case

Investment Name:	Primary URD Cable Replacement 2013	Assessments:	
Requested Amount	\$1,800,000	Financial:	MH - >= 9% & <12% CIRR
Duration/Timeframe	2 Year Project	Strategic:	Life Cycle Programs
Dept., Area:	Asset Management & Process Improvement	Operational:	Operations improved beyond current levels
Owner:	Kevin Christie	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Jason Thackson	Project/Program Risk:	High certainty around cost, schedule and resources
Category:	Project	Assessment Score:	110
Mandate/Reg. Reference:	n/a	Cost Summary - Increase/(Decrease)	
Recommend Project Description:	Performance	Capital Cost	O&M Cost
Complete the replacement of the un-jacketed first generation of Primary URD cable	Customer IRR = 10% and avoids an average of 600 outages per year	\$ 1,800,000	\$ -
			Other Costs
			\$ -
			ERM Risk Score
			4

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
Status Quo :	Number of Primary URD Cable faults would increase and the cost to repair the cable would also increase. Without this work and the past 4 years of work, the increased O&M costs would sum up to \$8.8 million over the next 5 years.	Increase number of Outage towards 700	\$ -	\$ -	\$ 1,300,000	10
Alternative 1: Primary URD Cable Replacement	Complete the replacement of the un-jacketed first generation of Primary URD cable	Customer IRR = 10% and avoids an average of 600 outages per year	\$ 1,800,000	\$ -	\$ -	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Timeline



Construction Cash Flows (CWIP)

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 19,852,679	\$ -	\$ -	\$ 19,852,679
2012	\$ 1,800,000	\$ -	\$ -	\$ 1,982,000
2013	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
2014	\$ 1,000,000	\$ -	\$ -	\$ 750,000
2015	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
2016	\$ 1,000,000	\$ -	\$ -	\$ -
2017	\$ 1,000,000	\$ -	\$ -	\$ -
2018	\$ 1,000,000	\$ -	\$ -	\$ -
2019	\$ -	\$ -	\$ -	\$ -
Future	\$ -	\$ -	\$ -	\$ -
Total	\$ 27,652,679	\$ -	\$ -	\$ 24,584,679

Milestones (high level targets)

November-11	Project Started	December-12	Plant In Service	mm/dd/yy	open
March-12	Project Plan	December-12	Project Complete	mm/dd/yy	open
June-12	Project Design			mm/dd/yy	open
March-12	Major Procurement				
September-12	Construction Start				

Milestones should be general. In some cases it may be as simple as project start, project complete. Use your judgement on project progress so that progress can be measured.

Associated Ers (list all applicable):

Current ER	2054						
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Mandate Excerpt (if applicable):

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Additional Justifications:

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Capital Investment Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)
 Expected Performance Improvements
 KPI Measure: Primary URD Cable Events
 Avoided Outage Benefits

KPI Description	Projected URD Cable - Primary OMT Events	Actual URD Cable - Primary OMT Events
2009	143	136
2010	119	93
2011	94	
2012	70	
2013	45	
2014	45	
2015	45	

the KPI benefit. Providing a graph is recommended to help communicate what the project is intended to

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 Director/Manager

Other Party Review signature *Margie Stevens* _____
 (if necessary) Director/Manager

Metric Description	Projected Avoided Costs due URD Cable - Pri Caused Outages	Actual Avoided Costs due to URD Cable - Pri Outages	Parts, or other data that may be useful in evaluating the project
2009	\$1,038,613	\$1,056,113	
2010	\$1,228,275	\$1,295,225	
2011	\$1,368,561		
2012	\$1,516,159		
2013	\$1,744,539		
2014	\$1,898,311		
2015	\$1,997,052		

The 10% customer IRR comes from the 2010 5 Year Plan and Budget Summary document
 The ERM values come from the value of avoided outages associate with the early vintage of cable

The average URD-Primary OMT outage affects an average of 33 customers for 3.5 hours
 Customer-Hours for base case = 700 * 33 * 3.5 = 80,850
 Customer-Hours for base case = 50 * 33 * 3.5 = 5,775

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Transmission - Reconductors and Rebuilds

ER No:	ER Name:
2310	West Plains Transmission Reinforce
2423	System Transmission: Rebuild Condition
2457	Benton-Othello 115 Recond
2550	Burke-Thompson A&B 115kV Transmission Rebuild Project
2556	CDA-Pine Creek 115kV Transmission Line: Rebuild
2557	9CE-Sunset 115kV Transmission Line: Rebuild
2564	Devils Gap-Lind 115kV Transmission Rebuild Project
2575	Garden Springs-Silver Lake 115kV – Rebuild H&W-SLK
2576	Addy-Devils Gap 115kV – Rec/Rbld 266 & 397 Cond
2577	Benewah-Moscow 230kV - Structure Replacement
2582	Beacon-Bell-Francis & Cdr-Waikiki 115kV – Reconfigure

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 58,801 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	14,263	-	-	-	-	-	-	-	-	-	-	-	14,263
2016	23,661	-	-	-	-	-	-	-	7,100	-	-	-	16,561
2017	20,827	-	-	-	-	-	-	-	-	-	-	-	20,827

Business Case Description:

This program reconductors and/or rebuilds existing transmission lines as they reach the end of their useful lives, require increased capacity, or present a risk management issue. Projects include: ER 2310 - West Plains Transmission Reinforcement, ER 2550 - Pine Creek-Burke-Thompson, ER 2557 9CE-Sunset Rebuild, ER 2423 - System Condition Rebuild, ER 2457 Benton-Othello Rebuild, ER2556 CDA-Pine Creek Rebuild, ER 2564 Devils Gap-Lind Major Rebuild, ER 2574 - Chelan-Stratford River Crossing Rebuild, ER 2576a Addy-Devils Gap Reconductor, ER 2575 Garden Springs-Silver Lake Rebuild, ER 2582 BEA-BEL-F&C-WAI Reconfiguration, ER 2577 BEN-M23 Rebuild, ER 25xa - Out-Year Transmission Rebuild.

Offsets:

To calculate amount of the savings to be reflected in our rate year, reduced line losses are multiplied against the avoided energy cost of \$44 per MWh to arrive at the total energy savings. Benton-Othello 115 will experience a reduction in line losses of 225 MWh both in 2016 and in 2017, which, after applying the avoided energy cost per MWh of \$44, equates to \$9,900 of offsets on a system basis in both 2016 and 2017 (\$19,800 total), with \$6,987 total allocated to Idaho Electric. For Bronx-Cabinet, after Avista’s revenue requirement was finalized, it was determined that O&M Offsets should have been calculated by multiplying the avoided energy cost rate of \$44 per MWh by 572 MWh for 2015 and 1,144 MWh for 2016. The resulting offsets amount to \$75,504 (\$25,168 in 2016 and \$50,336 in 2017) for the total system and \$26,645 (\$8,882 in 2016 and \$17,763 in 2017) for Idaho Electric. (The previously calculated Idaho allocation included in the revenue requirement was \$23,447 for 2016 and 2017, in total)

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Tx - Recon and Reblids
Requested Amount	\$20,000,000
Duration/Timeframe	50 Year Program
Dept., Area:	T&D - TLD Engineering
Owner:	Heather Rostentrater
Sponsor:	Don Kopczynski
Category:	Program
Mandate/Reg. Reference:	n/a

Assessments:	
Financial:	10.00%
Strategic:	Life-cycle asset management
Business Risk:	Business Risk Reduction >5 and <= 10
Program Risk:	High certainty around cost, schedule and resources

Recommend Program Description:		101	Annual Cost Summary - Increase/(Decrease)			
		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
This program reconstructs and/or rebuilds existing transmission lines as they reach the end of their useful lives, require increased capacity, or present a risk management issue. Projects include: ER 2310 - West Plains Transmission Reinforcement, ER 2550 - Pine Creek-Burke-Thompson, ER 2557 9CE-Sunset Rebuild, ER 2423 - System Condition Rebuild, ER 2457 Benton-Othello Rebuild, ER2556 CDA-Pine Creek Rebuild, ER 2564 Devils Gap-Lind Major Rebuild, ER 2574 - Chelan-Stratford River Crossing Rebuild, ER 2576a Addy-Devils Gap Rebuild, ER 2575 Garden Springs-Silver Lake Rebuild, ER 2582 BEA-BEL-F&C-WAI Reconfiguration, ER 2577 BEN-M23 Rebuild, ER 25xa - Out-Year Transmission Rebuild.	Improved performance (reduced losses), upgraded facilities, greater clearance, new life cycle, and greater load capabilities.	\$ 20,000,000	\$ -	\$ -	1	

Alternatives:			Annual Cost Summary - Increase/(Decrease)			
		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Transmission lines that would be rebuilt and/or reconstructed under this program have 1) high loss conductor, or 2) deteriorated wood structures, or 3) corroded or deteriorated materials, or 4) insufficient clearance, or 5) inadequate capacity.	Med-High probability of a line overload, line failure, or injury/fine within the next 1-10 yrs.	\$ -	\$ -	\$ -	8
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 11,446,742	\$ -	\$ -	\$ 6,760,000
2015	\$ 23,412,946	\$ -	\$ -	\$ 17,912,946
2016	\$ 26,536,134	\$ -	\$ -	\$ 20,036,134
2017	\$ 28,102,393	\$ -	\$ -	\$ 20,852,393
2018	\$ 26,000,000	\$ -	\$ -	\$ 21,000,000
2019	\$ 12,000,000	\$ -	\$ -	\$ 12,000,000
Total	\$ 127,498,215	\$ -	\$ -	\$ 98,561,473

Associated Ers (list all applicable):			
2310	2549	2550	2557
2423	2457	2556	2564
2574	25xa	2576	2582
2577	2575		

ER	2014	2015	2016	2017	2018	Total	Mandate Excerpt (if applicable):
2310	\$ -	\$ 25,000	\$ 1,000,000	\$ -	\$ -	\$ 1,025,000	Provide brief citation of the law or regulation and a reference number if possible
2549	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
2550	\$ 3,700,000	\$ 3,500,000	\$ -	\$ -	\$ -	\$ 7,200,000	
2557	\$ -	\$ 25,000	\$ 900,000	\$ -	\$ -	\$ 925,000	
2423	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 12,500,000	
2457	\$ 2,500,000	\$ 3,600,000	\$ 3,500,000	\$ -	\$ -	\$ 9,600,000	
2556	\$ 25,000	\$ -	\$ 4,500,000	\$ 5,750,000	\$ 2,500,000	\$ 12,775,000	
2564	\$ 2,346,742	\$ 3,947,144	\$ 4,050,558	\$ -	\$ -	\$ 10,344,444	
2574	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000	
25xa	\$ -	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 8,000,000	
2576	\$ -	\$ -	\$ -	\$ 25,000	\$ 2,000,000	\$ 2,025,000	
2582	\$ -	\$ -	\$ 25,000	\$ 2,000,000	\$ -	\$ 2,025,000	
2577	\$ 25,000	\$ 7,815,802	\$ 8,060,576	\$ 8,302,393	\$ -	\$ 24,203,771	
2575	\$ -	\$ -	\$ -	\$ 25,000	\$ 2,000,000	\$ 2,025,000	
25xb	\$ -	\$ -	\$ -	\$ 7,500,000	\$ 7,500,000	\$ 15,000,000	
25xc	\$ -	\$ -	\$ -	\$ -	\$ 7,500,000	\$ 7,500,000	
Total	\$ 11,446,742	\$ 23,412,946	\$ 26,536,134	\$ 28,102,393	\$ 26,000,000	\$ 115,498,215	Additional Justifications: Obligation to serve: Specific transmission lines require rebuild or reconductor for increased capacity due to load growth. Risk Management: Specific transmission lines require rebuild to reduce potential public injury risks. Addition of dollars for ER25xa in response to latest interpretation of FAC-11 (Standard for Reliability Coordinator) intended to remove copper wire bottlenecks while increasing System Operations response flexibility.

Resources Requirements: (request forms and approvals attached)

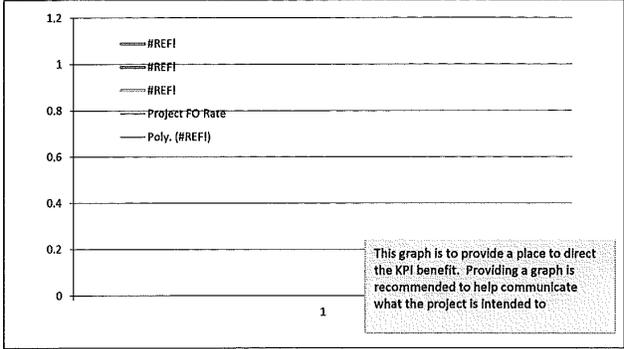
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input checked="" type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).



Capital Program Business Case

KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



Prepared signature

Reviewed signature
Director/Manager

Other Party Review signature
(if necessary) *Margie Stevens*
Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Segment Reconductor and FDR Tie Program

ER No: ER Name:
 2514 Distribution - Spokane North & West
 2515 Distribution - CdA East & North
 2516 Distribution - Pullman & Lewis Clark

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 11,720¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	3,734	-	-	-	-	-	-	-	-	-	-	-	3,734
2016	3,809	223	223	223	223	223	223	223	223	223	223	223	1,358
2017	4,175	283	283	283	283	283	283	283	283	283	283	283	1,058

Business Case Description:

Distribution planning has identified a number of thermal constraints on the system where "segment reconductor" work is warranted to mitigate thermally overloaded conductor. In addition, a number of urban feeder tie additions are required to meet the Company's 500 Amp feeder plan also known as the "feeder and one-half" plan. This work is planned and coordinated with assistance from the five (5) Area Engineers in Spokane, Big Bend, Colville, Coeur'd Alene, and Pullman. Annual spend varies from year-to-year but the operational premise is constant: mitigate thermally overloaded conductor, mitigate known or emerging voltage issues, and establish FDR tie points in compliance with the Company's 500A Feeder Plan.

Offsets:

O&M offsets associated with this business case may occur in the future, however, they are not quantifiable at this time.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Segment Reconductor and FDR Tie Pgm	Assessments:	
Requested Amount	4,000,000 (variable, see below)	Financial:	MH - >= 9% & <12% CIRR
Duration/Timeframe	On-going Year Program	Strategic:	Reliability & Capacity
Dept., Area:	Engineering	Operational:	Operations require execution to perform at current levels
Owner:	Rosenrater/James (updated July 16, 2014)	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Don Kopczynski	Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Program	Assessment Score:	84
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	

Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
Distribution planning has identified a number of thermal constraints on the system where "segment reconductor" work is warranted to mitigate thermally overloaded conductor. In addition, a number of urban feeder tie additions are required to meet the Company's 500 Amp feeder plan also known as the "feeder and one-half" plan. This work is planned and coordinated with assistance from the five (5) Area Engineers in Spokane, Big Bend, Colville, Coeur'd Alene, and Pullman. Annual spend varies from year to year but the operational premise is constant: mitigate thermally overloaded conductor, mitigate known or emerging voltage issues, and establish FDR tie points in compliance with the Company's 500A Feeder Plan.	Investments necessary to maintain current operations and to extend the life of current assets.	\$ 3,100,000			4

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
Unfunded Program:	Unfunding segment reconductor and FDR tie program will result in thermally overloaded conductor segments and significantly compromise the electric distribution system. Loss of load service capacity would result.	n/a	\$ -	\$ -	\$ -	25
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows 5 years of costs	Associated Ers (list all applicable):			
	Capital Cost	O&M Cost	Other Costs	Approved
2012	\$ 4,605,000		\$ -	\$ 3,605,000
2013	\$ 4,300,000		\$ -	\$ 2,860,229
2014	\$ 3,900,000		\$ -	\$ 3,179,993
2015	\$ 3,735,000		\$ -	\$ 3,735,000
2016	\$ 4,310,000		\$ -	\$ 3,810,000
2017	\$ 4,175,000	\$ -	\$ -	\$ 4,175,000
2018	\$ 3,650,000	\$ -	\$ -	\$ 3,650,000
2019	\$ 3,550,000	\$ -	\$ -	\$ 3,550,000
Total	\$ 32,225,000	\$ -	\$ -	\$ 28,565,222

Mandate Excerpt (if applicable):

Additional Justifications:
 This program is a foundational element of our overall effort to maintain the electric delivery system. While many of the asset management programs such as WPM, PCB transformers, Worst Feeders, URD Cable replacement, are targeted efforts to maintain or improve reliability, this program specifically identifies thermal, voltage, and FDR tie issues amongst 345 individual electric circuits. This program represents the collective effort of distribution planners and area engineers to manage our ability to serve customer load reliably, efficiently, and securely.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The Internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

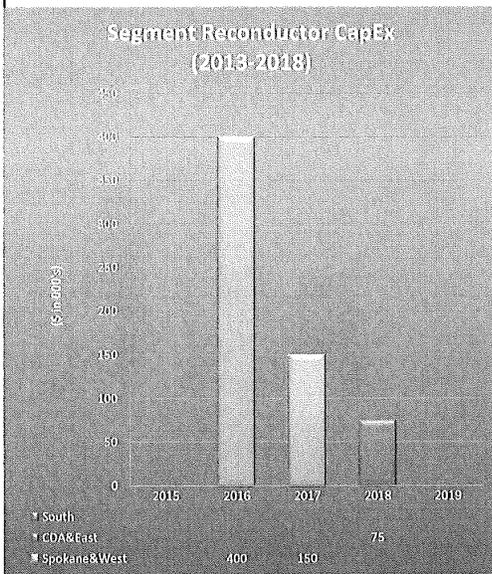
Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Dx System Capacity Increase
	Dx System 500A Plan Compliance



Prepared signature

Reviewed signature Director/Manager

Other Party Review signature *Margie Stevens* Director/Manager
(if necessary)



ROX 751 - Reconductor (see 2414) Milca Peak Cnv to URD Deer Lake Xing COB 12F2 Green Bluff Tie LOO 12F2 Deer Lk Narrows Xing COB 12F1 Recond Midway 1 MI DEE 12F2 Bear Lk-Antler Tie DEE 12F2 Recond to LOO 12F1 SOT 522/523 - Recond- 6A WAS781 - Interset Poles LL - Cnv OH to UG (USFWS) LIB 12F2 - Henry Rd Tie CHE 12F1-12F4 Tie on Bowdish U District FDR Tie Trent Ave DEE 12F2 - Recond 2/0 ACSR LIB 12F1-EFM 12F2 Rocky Hill Tie BKR 12F2 - Tie to EFM 12F1 3HT 12F7 Tie U District Loop BKR 12F2 Recond 2/0 CU on Mission EFM 12F1 - State Ln Bridge - Conv OH/UG 9CE 12F4 Recond 336 9CE 12F2 - Tie to Chester 12F2 SLK 12F1 - Recond 2.1 mi C&W 12F4 - Tie to 3HT 12F7 9CE 12F3 Thierman/Mission Rcd 1 mi BKR 12F1 - Liberty Lk 12F2 on Mission CHW12F2- Angel Pk Recond 0.75mi GRN12F1 Tie to CLV12F2 4.5 mi GIF 34F1 - CHW 12F3 FDR Tie CLV 34F1- Kelly Hill Rbld CHW 12F2- Flowery Trail Recond GIF 34F1 Midline GRN 12F2 Recond 4.1 MI Old Kettle Rd CHW 12F4 Recond near Ctnwd Road CLV 12F4 Recond 1.6 mi KET 12F2 - Chg FDR Voltage to 13.2 kV DVP 12F2- Recond 6 miles Hwy 2 SPG 761 - Recond Small CU LIN 711 - Convert to 25 kV - tie Rox751 LIB 12F3 Rcd W Side Lib Lk NW 12F3 tie INT 12F1 Strong Rd URD COB 12F2 Bernhill Rd Rcd 2 ACSR 3HT 12F1-12F5 Tie at Iron Bridge BKR 12F3 Recond 1 mi-Central Premix COB 12F1 - Split FDR BKR 12F3 & SIP 12F3 Recond 1mi 3HT 12F3 Recond 2/0 Switch #980 MIL 12F2 ti to 12F3 Northwoods URD SIP General Upg WAK 12F1-12F4 Tie MIL 12F4 tie OPT12F2 Mirabeau URD BEA 12F6-9CE 12F1 Hav. Rcd 1/0 ACSR FWT 12F4 - C&W 12F5 River Xing INT 12F2 Recond 2 mile-Rutter Pkwy COB 12F2 Recond Bernhill to Greenbluff INT 12F2 - DEE 12F1 Improve Tie LIB 12F2 Cnv to OH/UG at Milca Pk SUN 12F4 - Reconductor 2/0 @ SIA SUN 12F2 - Replace Sw 475 w/ Recloser DEE 12F1 Midline (protection req.) SUN 12F4 replace midline 249R SIP 12F3 to BKR (Central Premix) LIB 12F1 - EFM 12F2 Rocky Hill Tie BKR 12F3 Recond 2/0 ACSR 1 mi CLV Area Switched Banks CHW 12F3- ARD 12F2 FDR Tie (5 mi UG) LF34F1- Midline CLV 34F1 Midline OSB 521 - Recond/Viper for Coeur Mine OLD - Dx Tie Recond DAL 131 Recond 1.5 mi DAL 131 - Recond 1.4 mi DAL 131 - Recon 0.8 mi (lakeshore) DAL 133 - Add 1-ph 3.1 miles PF 213 - Recond 1.2 mi Riverbend Pk HUE 142 - Extend 3ph 0.5 mi DAL 134- Coldwater Ck Loop BLU 321 Recond 3 mi (Silver Beach) LKV 343 - Conv 6 mi to UG PVW 241 - Ext 1 mi BLU 321- Recond 1.2 mi PIN 442- Recond 1 mi WAL 544-Recond for Star Mine OGA 611 - Recond 1.5 mi PIN 441 - Reconductor FDR Tie SAG 741 - Recond Lignite 9200 ft SPT 4S21 - River Xing & Reloc at Sundowner OLD 721 - create UG loop for Ind Pk RAT 233 - Recond Hwy 41 to 2/0 ACSR PVW 243 - Cap Bank Riverbend Comm PF 213 - Recond McGulre Road BLU 321 - Rbld & UG near Tony's Rest CDA 125- Recond #6 Crapo Dalton & 17th CDA 124-Recond NIC Loop HOL 1206 - Recond 3700' SLW 1358 Extend ORO 1281 TEN 1253 - 1 mi recond & regs CFD 1210 - Recond #6 CU PAL 312 - Add Phase MOS 515 tie to 512 CFD 1211-ext 556 trunk 2miles DRY 1209-rebuild 5mi towards Silcott LOL 1359 - 2-3miles of lateral rblld PDL1201 tie to PDL 1208 PDL 1203 - 3ph loop, so portion TEN 1255 - recond .75 mi at 5th & Cedar TEN 1257 - 1 mi lateral rblld ORO 1281 - 1 mi recond at sub WSU Steam plant - cable & conduit CFD 1211 - Regs at 1.5 miles GRV 1273- Regs at Orogrande and E City SWT 2403 - Cap bank at Lapwai WIK1279 - extend 2 ph Hwy 95 & Denver GRV 1272 tie to WIK 1278 so of Hwy NLEW13 - add river xing DRY 1208 tie to PDL 1202 - Fair & 13th SLW 1348 tie to SLW 1358 - 25th & 8th IFG Integration TEN 1256 - midline TEN 1257 tie to LOL 1266 ORO 1281-midline KOO 1299-midline JPE 1287-midline KAM-KOO tieline LEO 611-U/B with M115-N Lew Recond SPU Bishop Blvd URD Inc Cap.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles		
	2012-2016		
	Date	Template	

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Lewiston Mill Rd. 115 kV Substation – New Sub

ER No: ER Name:
1107 Lewiston Mill Rd. 115 kV Substation – New Sub

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 0¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Resid. CWIP
2015	684	-	-	-	-	-	-	-	-	-	-	-	-	684
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	
2017	-	-	-	-	-	-	-	-	-	-	-	-	-	

Business Case Description:

A new 115-13 kV substation is required to serve the sawmill for the Idaho Forest Group in Lewiston near Clearwater Paper Co. This new substation will have one 20 MVA transformer, 115 kV Circuit Switcher, panelhouse, full SCADA/Communications, and two 13 kV distribution feeder bays. The transmission will tap the existing Clearwater-Lolo #2 line with associated air switches for isolation. This substation is required for Avista to serve this customer.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	Lewiston Mill Road Sub	Assessments:	
Requested Amount	\$2,000,000	Financial:	7.00%
Duration/Timeframe	2 Year Project	Strategic:	Value & Growth
Dept., Area:	Substation & Transmission Engineering	Business Risk:	Business Risk Reduction >5 and <= 10
Owner:	Heather Rosentrater	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski	Assessment Score:	94
Category:	Project	Annual Cost Summary - Increase/(Decrease)	
Mandate/Reg. Reference:	n/a		

Recommend Project Description: A new 115-13 kV substation is required to serve the sawmill for the Idaho Forest Group in Lewiston near Clearwater Paper Co. This new substation will have one 20 MVA transformer, 115 kV Circuit Switcher, panelhouse, full SCADA/Communications, and two 13 kV distribution feeder bays. The transmission will tap the existing Clearwater-Lolo #2 line with associated air switches for isolation. This substation is required for Avista to serve this customer. The existing service is through Clearwater Paper Co.'s delivery system as a result of selling off the sawmill to Idaho Forest Group.	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
	Adds service to AVA's system; eliminates reliability issues; adds operational flexibility	\$ 2,000,000	\$ -	\$ -	1
	Annual Cost Summary - Increase/(Decrease)				

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	The existing service through Clearwater Paper Co.'s delivery system is not allowed and needs to be corrected. The existing service has been allowed to stay temporarily until Avista can construct a new sub and transfer the load.	Sawmill could impact the paper Co.'s operation	\$ -	\$ 100,000	\$ 1,000,000	12
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	1
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ 50,000	\$ -	\$ -	\$ 50,000
2014	\$ 1,950,000	\$ -	\$ -	\$ 1,950,000
2015	\$ -	\$ -	\$ -	\$ -
2016	\$ -	\$ -	\$ -	\$ -
2017+	\$ -	\$ -	\$ -	\$ -
Total	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000

Associated Ers (list all applicable):

1107		

ER	2013	2014	2015	2016	2017+	Total	Mandate Excerpt (if applicable):
1107	\$ 50,000	\$ 1,950,000	\$ -	\$ -	\$ -	\$ 2,000,000	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 50,000	\$ 1,950,000	\$ -	\$ -	\$ -	\$ 2,000,000	Additional Justifications: Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.

Milestones (high level targets)

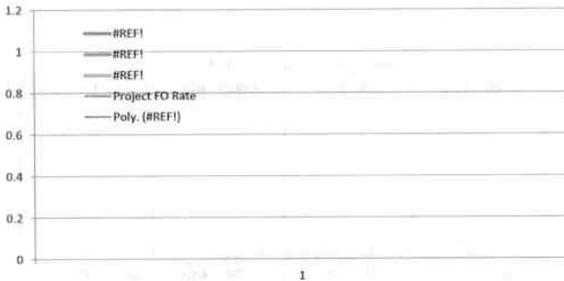
October-13	Scoping Meeting	January-00	open	January-00	open
December-13	Obtain Easements as required	January-00	open	January-00	open
December-13	IFG to remove building; grade site	January-00	open	January-00	open
May-14	All Design Documents transmitted	January-00	open	January-00	open
December-14	Complete Construction-Energize	January-00	open	January-00	open
January-00	open	January-00	open	January-00	open

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Key Performance Indicator(s)

Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here

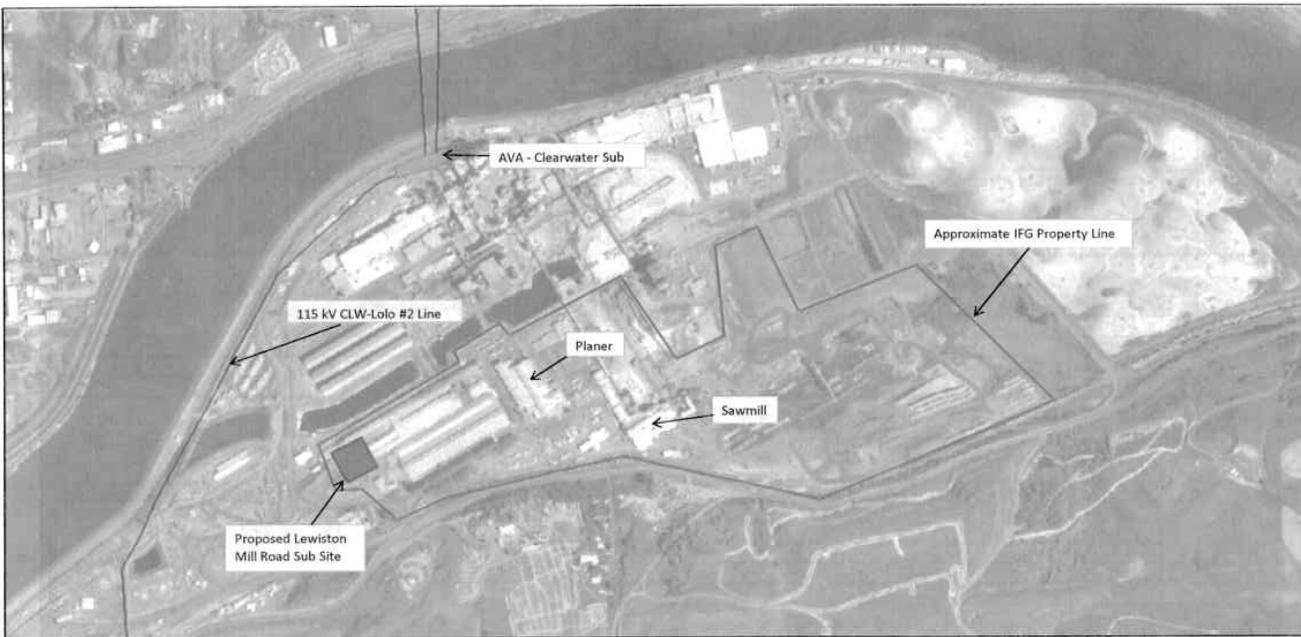


Prepared *Mike Magruder*
 Mike Magruder/Ken Sweigart, T&D Substations/Transmission

Reviewed *Heather Rosentrater*
 Heather Rosentrater, Director - ENSO

Other Party Review (if necessary) *Andy Vickers*
 Andy Vickers, Director - GPSS

Idaho Forest Group (IFG) and Lewiston Mill Road Substation



To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Storm Related Electric Transmission and Distribution Capital Project

ER No: ER Name:

2051 Electric Transmission Plant-Storm

2059 Failed Electric Dist Plant-Storm

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 8,673 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	3,000	389	289	233	215	196	186	245	180	208	242	292	325
2016	2,790	351	261	216	204	191	180	242	174	196	226	264	285
2017	2,883	366	272	223	209	194	184	246	178	202	233	275	299

Business Case Description:

This program will replace cross arms, poles and structures as required due to storms, fires on distribution and transmission lines.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Storms	Assessments:			
Requested Amount	\$ 3,000,000	Financial:	7.00%		
Duration/Timeframe	On-going Year Program	Strategic:	Reliability & capacity		
Dept., Area:	Operations	Business Risk:	Business Risk Reduction > 15		
Owner:	Bryan Cox	Program Risk:	Moderate certainty around cost, schedule and resources		
Sponsor:	Don Kopczynski	Assessment Score:	102	Annual Cost Summary - Increase/(Decrease)	
Category:	Program				
Mandate/Reg. Reference:	n/a				
Recommend Program Description:		Performance	Capital Cost	O&M Cost	Business Risk Score
This program will replace crossarms, poles and structures as required due to storms, fires on distribution and transmission lines.		describe any incremental changes that this Program would benefit present operations	\$ 3,000,000	\$ -	4

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	If we do not replace our failed infrastructure due to storms and fire, Avista will risk having an unreliable system, increased O&M costs to repair, and decreased customer satisfaction.	n/a	\$ -	\$ -	\$ -	25
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 3,300,000	\$ -	\$ -	\$ 9,860,000
2015	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000
2016	\$ 3,090,000	\$ -	\$ -	\$ 2,790,000
2017	\$ 3,182,700	\$ -	\$ -	\$ 2,882,700
2018	\$ 3,278,181	\$ -	\$ -	\$ 2,978,181
2019	\$ 3,376,526	\$ -	\$ -	\$ 3,076,526
2020+	\$ -	\$ -	\$ -	\$ -
Total	\$ 19,227,407	\$ -	\$ -	\$ 24,587,407

2051		
2059		

ER	2015	2016	2017	2018	2019	Total	Mandate Excerpt (if applicable):
2051	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 5,500,000	provide brief citation of the law or regulation and a reference number if possible
2059	\$ 1,900,000	\$ 1,990,000	\$ 2,082,700	\$ 2,178,181	\$ 2,276,526	\$ 10,427,407	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Additional Justifications: Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 3,000,000	\$ 3,090,000	\$ 3,182,700	\$ 3,278,181	\$ 3,376,526	\$ 15,927,407	

Resources Requirements: (request forms and approvals attached)

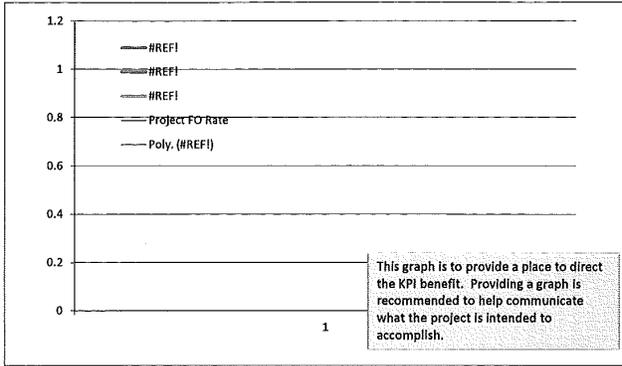
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input checked="" type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



Capital Program Business Case



Prepared signature

Reviewed signature
Director/Manager

Other Party Review signature *Margie Stevens*
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Substation - 115 kV Line Relay Upgrades

ER No: 2217 **ER Name:** Spokane-CDA 115 kV Line Relay Upgrades

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,000¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,525	-	-	-	-	1,000	-	-	-	525	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

The 115 kV Transmission line relaying in the greater Spokane-Couer d'Alene area needs to be upgraded. Per System Protection's revised memo dated 10/25/07, the relaying and communications must be upgraded to eliminate false trips and mis-coordination of relays as well as the requirement to trip lines quickly enough to avoid system transient instability, which could lead to cascading outages. The first two years of the project completed the installation of fiber optic communications to all the required substations. Year Two marked the beginning of relay upgrades in the Spokane area, and the remainder of the project will complete the relay upgrades as planned.

Offsets:

There are no anticipated offsets with this business case.

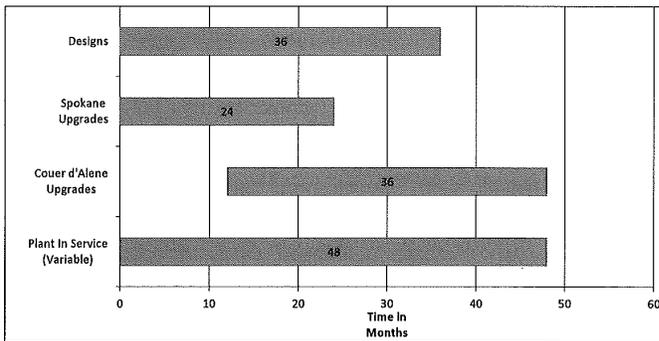
¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Investment Business Case

Investment Name:	Substation - 115 kV Line Relay Upgrades	Assessments:					
Requested Amount	\$7,274,676	Financial:	Medium - >= 5% & <9% CIRR				
Duration/Timeframe	7 Year Project	Strategic:	Reliability & Capacity				
Dept., Area:	T&D - Substation Engineering	Operational:	Operations require execution to perform at current levels				
Owner:	Heather Rosenrater	Business Risk:	ERM Reduction >0 and <= 5				
Sponsor:	Don Kopczynski	Project/Program Risk:	High certainty around cost, schedule and resources				
Category:	Project	Assessment Score:	79	Cost Summary - Increase/(Decrease)			
Mandate/Reg. Reference:	n/a						
Recommend Project Description:	The 115 kV Transmission line relaying in the greater Spokane-Couer d'Alene area needs to be upgraded. Per System Protection's revised memo dated 10/25/07, the relaying and communications must be upgraded to eliminate false trips and mis-coordination of relays as well as the requirement to trip lines quickly enough to avoid system transient instability, which could lead to cascading outages. The first two years of the project completed the installation of fiberoptic communications to all the required substations. Year Two marked the beginning of relay upgrades in the Spokane area, and the remainder of the project will complete the relay upgrades as planned.		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
			Improved comm., relay operation, & avoidance of potential large system outage problems.	\$ 7,274,676	\$ -	\$ -	1
Alternatives:							
Status Quo :	Under certain operating conditions and fault scenarios, our 115 kV system in the greater Spokane-Couer d'Alene area is susceptible to potentially large transmission outages. Existing protection schemes and equipment cannot operate quickly enough to prevent these scenarios from occurring.	Performance	n/a	Capital Cost	O&M Cost	Other Costs	Business Risk Score
				\$ 100,000	\$ 500,000	\$ 500,000	6
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	Performance	describe any incremental changes in operations	Capital Cost	O&M Cost	Other Costs	Business Risk Score
				\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	Performance	describe any incremental changes in operations	Capital Cost	O&M Cost	Other Costs	Business Risk Score
				\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	Performance	describe any incremental changes in operations	Capital Cost	O&M Cost	Other Costs	Business Risk Score
				\$ -	\$ -	\$ -	0

Timeline



Construction Cash Flows (CWIP)

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 2,624,675	\$ -	\$ -	\$ 2,624,675
2012	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
2013	\$ 1,250,000	\$ -	\$ -	\$ 205,001
2014	\$ 1,250,000	\$ -	\$ -	\$ 75,000
2015	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
2016	\$ -	\$ -	\$ -	\$ -
2017	\$ -	\$ -	\$ -	\$ -
2018	\$ -	\$ -	\$ -	\$ -
Future	\$ -	\$ -	\$ -	\$ -
Total	\$ 7,124,675	\$ -	\$ -	\$ 4,904,676

Milestones (high level targets)

January-09	Start Communications Infrastructure - Spokane	January-13	Start Couer d'Alene Area Relay Upgrades
January-10	Start Communications Infrastructure - Couer d'Alene	December-16	Complete Spokane Area Relay Upgrades
January-10	Start Relay Upgrades - Spokane	December-17	Complete Couer d'Alene Area Relay Upgrades
December-10	Complete Communications Infrastructure		
January-11	Continue Spokane Area Relay Upgrades		

Associated Ers (list all applicable):

2217

Mandate Excerpt (if applicable):

Obligation to serve: Maintain a reliable system that meets customer demand and reliability standards.

Additional Justifications:

This project is already in construction. Additional documentation is available upon request including System Protection Documentation, Proposed Schedules and Priorities, Internal Substation Memos, meeting notes, etc.

Resources Requirements: (request forms and approvals attached)



Capital Investment Business Case

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

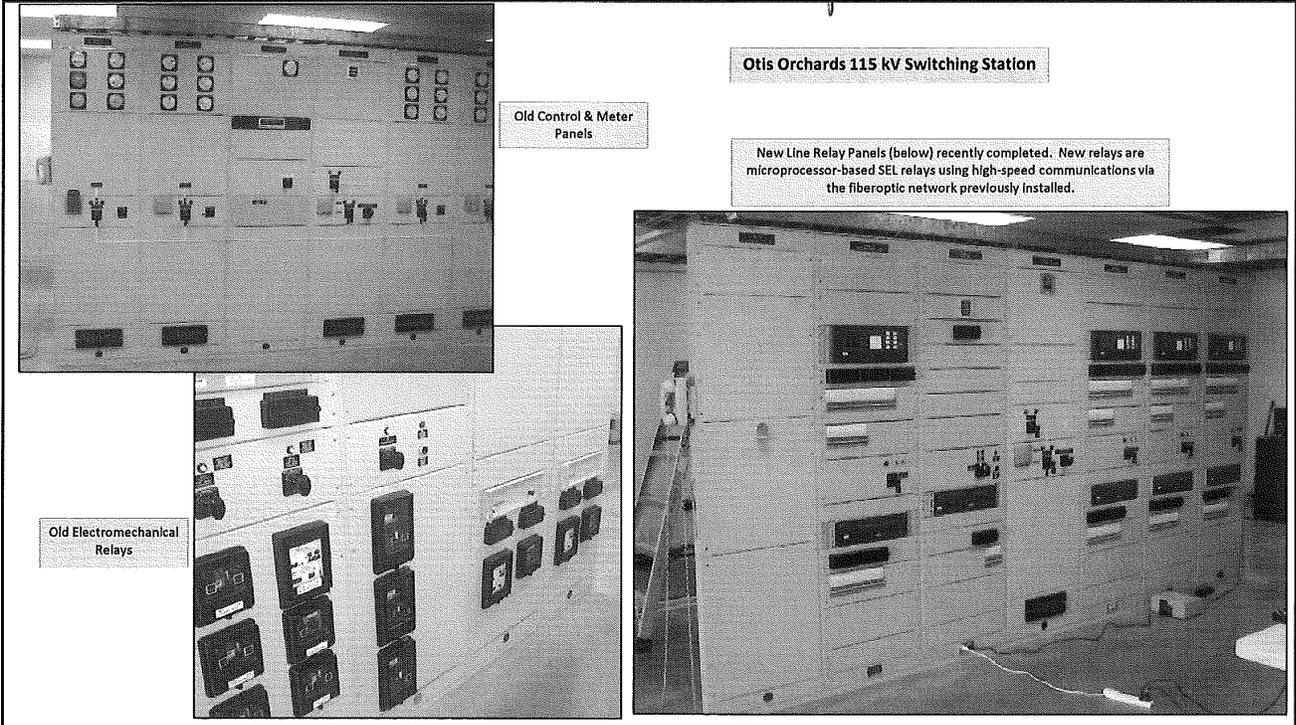
Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Complete 3 Line Relay Upgrades per year.

Prepared _____
 Mike Magruder, Manager - Substation Engineering

Reviewed _____
 Heather Rosentrater, Director - ENSO

Reviewed _____
 Andy Vickers, Director - GPSS

Margie Stevens



To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Substation - Asset Mgmt. Capital Maintenance

ER No: ER Name:

- 2215 System - Replace High Voltage Breakers
- 2252 System - Replace/Install Relays
- 2253 System - Upgrade Meters
- 2275 System - Rock/Fence Restore
- 2278 System-Replace Obsolete Reclosers
- 2280 System - Replace Obsolete Circuit Switchers
- 2293 SCADA - Install/Replace
- 2294 System - Batteries
- 2336 System - Replace Dist Power Xfmrs
- 2425 System - High Voltage Fuse Upgrades
- 2449 System - Replace Substation Air Switches
- 2481 System-Replace/Install Capacitor Banks
- 2492 System-Install Autotransformer Diagnostic Monitor
- 2493 System-Replace/Upgrade Voltage Regulators

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 12,300¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	2,708	221	1	346	163	364	138	221	101	393	263	407	88
2016	4,819	222	2	347	164	365	2,239	222	102	394	264	408	89
2017	4,851	225	4	350	167	368	142	225	104	397	267	410	2,192

Business Case Description:

This program installs, replaces, or upgrades substation apparatus via Asset Management planning or emergency replacements. All obsolete, end-of-life, or failed apparatus are covered under this program. Apparatus includes panel houses and associated equipment, high voltage breakers, relays, metering, surge arresters, rock and fence, low voltage breakers/reclosers, circuit switchers, SCADA systems, batteries and chargers, power transformers, high voltage fuses, air switches, capacitor banks, autotransformer diagnostic equipment, step voltage regulators, and instrument transformers.

Offsets:

The System-Install Autotransformer Diagnostic Monitor program includes additional incremental costs in 2016 of \$162,000 (\$57,000 ID). O&M Costs beginning in 2016 are estimated to be \$170,300 with potential O&M savings of \$8,217 annually. Therefore, the net costs from the Autotransformer program are \$162,000, as previously discussed.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Substation - Asset Mgmt. Capital Maintenance		
Requested Amount	\$4,100,000	Assessments:	
Duration/Timeframe	40 Year Program	Financial:	Medium - >= 5% & <9% CIRR
Dept., Area:	T&D - Substation Engineering	Strategic:	Life Cycle Programs
Owner:	Heather Rosentrafer	Operational:	Operations require execution to perform at current levels
Sponsor:	Don Kopczynski	Business Risk:	ERM Reduction >5 and <= 10
Category:	Program	Program Risk:	High certainty around cost, schedule and resources
Mandate/Reg. Reference:	n/a	Assessment Score:	89

Recommend Program Description:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
This program installs, replaces, or upgrades substation apparatus via Asset Management planning or emergency replacements. All obsolete, end-of-life, or failed apparatus are covered under this program. Apparatus includes panelhouses and associated equipment, HV breakers, relays, metering, surge arresters, rock and fence, LV breakers/reclosers, circuit switchers, SCADA systems, batteries and chargers, power transformers, HV fuses, air switches, capacitor banks, autotransformer diagnostic equipment, step voltage regulators, and instrument transformers.		Renew asset life cycle; remove obsolete, end of life apparatus; upgrade; install new apparatus	\$ 4,100,000	\$ -	\$ -	2
Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Maintain (to the best of our ability) all obsolete or end-of-life apparatus. Repair or replace equipment on emergency basis only. Some repairs would not be possible due to obsolescence. Considerably more, and longer, customer outages would result.	n/a	\$ 500,000	\$ 1,000,000	\$ 500,000	12
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
5 years of costs					2210	2215	2252	2253	2260
	Capital Cost	O&M Cost	Other Costs	Approved	2275	2278	2280	2293	2294
2012	\$ 4,100,000	\$ -	\$ -	\$ 4,100,000	2326	2336	2343	2397	2425
2013	\$ 4,100,000	\$ -	\$ -	\$ 4,582,020	2449	2481	2492	2493	2505
2014	\$ 4,100,000	\$ -	\$ -	\$ 4,100,000					
2015	\$ 4,100,000	\$ -	\$ -	\$ 4,100,000					
2016	\$ 4,100,000	\$ -	\$ -	\$ 4,100,000					
2017	\$ 4,100,000	\$ -	\$ -	\$ 4,100,000					
2018	\$ 4,100,000	\$ -	\$ -	\$ 4,100,000					
2019	\$ -	\$ -	\$ -	\$ 4,100,000					
Total	\$ 28,700,000	\$ -	\$ -	\$ 33,282,020					

Mandate Excerpt (if applicable):

Additional Justifications:
 In general, this program is required for operations to perform at current levels as assessed above. However, it could easily be argued that the end results of Capital Maintenance actually improve operations beyond current levels as obsolete equipment is often replaced with apparatus of higher capacity and/or newer technology. If prudent, and if time, resources, and funding allow, we will take every opportunity to make improvements to substation operations when we perform Capital Maintenance.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: <input type="checkbox"/> Low Probability <input type="checkbox"/> Medium Probability <input checked="" type="checkbox"/> High Probability	Enterprise Tech: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	Check the appropriate box. The Internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).
Contract Labor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Facilities: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	
	Capital Tools: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	
	Fleet: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Meet AM Plan Requirements for all Apparatus
	Maintain or increase annual program spend to meet demand

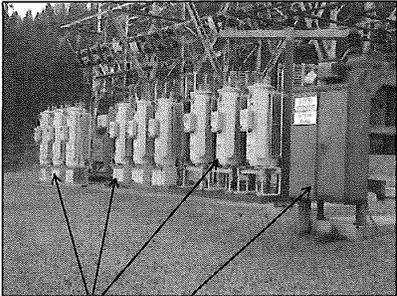
Prepared _____
Mike Magruder, Manager - Substation Engineering

Reviewed _____
Heather Rosentrater, Director - ENSO

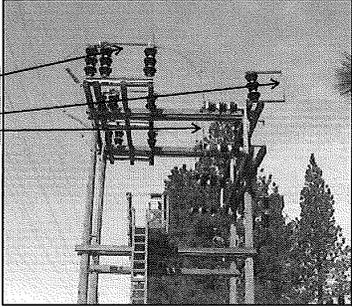
Reviewed _____
Andy Vickers, Director - GPSS

Margie Stevens

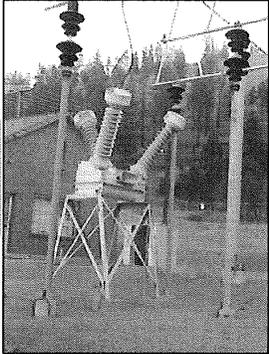
Capital Maintenance - Apparatus



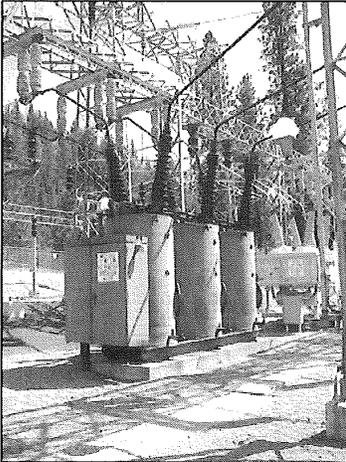
Step Voltage Regulators
LV (13 kv) Breaker
Sunset Substation



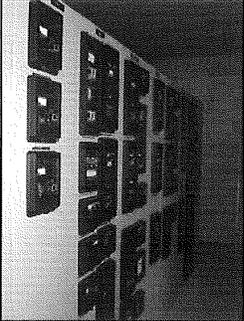
Hern Substation
115 KV Air Switch
115 kv Spill Gaps (to be replaced with Surge Arresters)
HV Fuses



Instrument Transformer
Old 3-phase bus PT
Sunset Substation



Sunset Substation - 115 kv Oil Circuit Breaker A-198
HV Breaker - oldest breaker on Avista's system.



Electromechanical Relays
Westside Substation

To be completed by Capital Planning Group		Review Cycles	
Rationale for decision	2012-2016		
	Date	Template	

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Substation - Capital Spares

ER No: ER Name:
 1006 Power Xfmr-Distribution
 2000 Power Xfmr-Transmission
 2001 Power Circuit Breaker

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$14,765 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	5,100	-	-	160	-	560	-	-	400	3,420	400	160	-
2016	6,115	-	-	-	-	650	-	-	900	250	4,315	-	-
2017	2,000	-	-	200	-	650	-	-	900	250	-	-	-

Business Case Description:

This program maintains our fleet of Power Transformers and High Voltage Circuit Breakers. This fleet of critical apparatus is capitalized upon receipt and placed in service for both planned and emergency installations as required. The annual program expenditures may vary significantly in years when an Autotransformer (230/115 kV) is purchased. In years without an Autotransformer purchase, only minor variations will occur based on planned projects as well as replenishing apparatus fleet levels required for adequate capital spares. These are long lead time items so apparatus levels need to be managed.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Substation - Capital Spares	Assessments:	
Requested Amount	\$4,720,000	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	50 Year Program	Strategic:	Life Cycle Programs
Dept., Area:	T&D - Substation Engineering	Operational:	Operations require execution to perform at current levels
Owner:	Heather Rosenstrater	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Don Kopczynski	Program Risk:	High certainty around cost, schedule and resources
Category:	Program	Assessment Score:	89
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	

Recommend Program Description: This program maintains our fleet of Power Transformers and High Voltage Circuit Breakers. This fleet of critical apparatus is capitalized upon receipt and placed in service for both planned and emergency installations as required. The annual program expenditures may vary significantly in years when an Autotransformer (230/115 kV) is purchased. In years without an Autotransformer purchase, only minor variations will occur based on planned projects as well as replenishing apparatus fleet levels required for adequate capital spares. These are long lead time items so apparatus levels need to be managed.	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
	Renew asset life cycle; meet capacity requirements; adequate spare inventory	\$ 4,720,000	\$ -	\$ -	1
Annual Cost Summary - Increase/(Decrease)					

Annual Cost Summary - Increase/(Decrease)					
Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program: We will not have vital system capital spares required to maintain our electric system in the event of failures (emergency), planned system improvements (reliability), or obligation to serve (growth). In addition, some of this apparatus may be required for compliance upgrades in reliability and capacity.	n/a	\$ -	\$ 500,000	\$ 250,000	8
Alternative 1: Brief name of alternative (if applicable): Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 2: Brief name of alternative (if applicable): Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable): Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows				Associated Ers (list all applicable):		
5 years of costs				1006	2000	2001
	Capital Cost	O&M Cost	Other Costs	Approved		
2012	\$ 3,835,000	\$ -	\$ -	\$ 2,535,000		
2013	\$ 4,865,000	\$ -	\$ -	\$ 5,225,100		
2014	\$ 5,115,000	\$ -	\$ -	\$ 1,950,000		
2015	\$ 9,045,000	\$ -	\$ -	\$ 6,000,000		
2016	\$ 4,265,000	\$ -	\$ -	\$ 4,565,000		
2017	\$ 5,800,000	\$ -	\$ -	\$ 4,200,000		
2018	\$ 3,865,000	\$ -	\$ -	\$ 5,065,000		
2019	\$ -	\$ -	\$ -	\$ 4,025,000		
Total	\$ 36,790,000	\$ -	\$ -	\$ 33,565,100		
7-year average annual projected spend: \$				4,220,014		

Mandate Excerpt (if applicable):
 Obligation to serve: Long lead time capital spares are required to meet system needs and service expectations.

Additional Justifications:
 Transformers and High Voltage Circuit Breakers (capital spares) are placed in service based on requirements and need. Replacement transformers and breakers are purchased to maintain required capital spares count. This is managed closely by Substation Engineering with annual reviews of capital spares and planned needs. In general, this is a Life Cycle Program for these assets. This Program also includes a Reliability and Capacity (improved reliability and growth) component as well as a Mandatory (Compliance) component. Commodity pricing and manufacturer lead times can be variable which can lead to increased costs and/or delayed receipt.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Check the appropriate box. The Internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Substation - Distribution Substation Rebuilds

ER No:	ER Name:		
2204	System Wood Substation Rebuilds	2567	Chester 115 kV - Rebuild Substation
2285	Sunset Sub - Rebuild	2568	Metro 115 kV - Rebuild Substation
2317	Lyons & Standard 115 Sub-Increase Capacity	2569	Gifford 115 kV - Rebuild Substation
2341	Ninth & Central Sub - Increase Capacity & Rebuild	2590	Deer Park 115 kV Sub – Minor Rebuild
2562	Grangeville 115 kV Sub - Rebuild	2395	SE 115 Bus-Upgrd Xfmr and add 12F6
2566	Northwest 115 kV - Rebuild Substation	2573	Little Fall 115 kV Sub – Rebuild

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 15,530¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	2,387	6	6	6	6	6	6	756	6	6	1,114	106	361
2016	5,849	36	36	286	36	1,436	36	36	36	36	3,486	36	351
2017	6,180	21	21	21	21	21	1,321	1,421	21	21	2,561	21	711

Business Case Description:

This program replaces and/or rebuilds existing substations as they reach the end of their useful lives, require increased capacity, or cannot accommodate necessary equipment upgrades due to existing physical constraints. Included are Wood Substation rebuilds as well as upgrading stations to current design and construction standards. Some station rebuilds may be initiated by other requirements, including obligation to serve, growth, and external projects. Examples of substation rebuilds to be completed under this program in the next 5 years are Big Creek & Kamiah (Wood Substation), Millwood (Life Cycle), Turner (Smart Grid Investment Grant), Blue Creek (Productivity), Lucky Friday (Growth), and Pine Creek Distribution (Life Cycle).

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Substation - Distribution Station Rebuilds	Assessments:	
Requested Amount	\$8,168,573	Financial:	MH - >= 9% & <12% CIRR
Duration/Timeframe	50 Year Program	Strategic:	Life Cycle Programs
Dept., Area:	T&D - Substation Engineering	Operational:	Operations improved beyond current levels
Owner:	Heather Rosenrater	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Don Kopczynski	Program Risk:	High certainty around cost, schedule and resources
Category:	Program	Assessment Score:	105
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	

Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
This program replaces and/or rebuilds existing substations as they reach the end of their useful lives, require increased capacity, or cannot accommodate necessary equipment upgrades due to existing physical constraints. Included are Wood Sub rebuilds as well as upgrading stations to current design and construction standards. Some station rebuilds may be initiated by other requirements, including obligation to serve, growth, and external projects (e.g. Smart Grid). Examples of substation rebuilds to be completed under this program in the next 5 years are Big Creek & Kamlah (Wood Subs), Millwood (Life Cycle), Turner (SGIG), Blue Creek (Productivity), Lucky Friday (Growth), and Pine Creek Distribution (Life Cycle).	Improved performance, upgraded equipment, better status & control, new life cycle.	\$ 8,168,573	\$ -	\$ -	1
Annual Cost Summary - Increase/(Decrease)					

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Obsolete and/or high loss equipment, deteriorated wood structures, and non-standard construction or equipment would remain in service until failure. Some stations may need additional capacity for growth or may not be suitable for required expansions to meet other (e.g. Regulatory, SGIG) needs.	\$ 1,000,000	\$ 500,000	\$ 250,000	8
Alternative 1: Planned Equipment Replacements.	Continuation of non-standard construction practices and configurations leading to considerably slower and more dangerous working conditions for field crews. This would only allow for minimal improvements to the subs while requiring more O&M to maintain aging infrastructure and equipment.	\$ 1,500,000	\$ 500,000	\$ -	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0

Program Cash Flows	Associated Ers (list all applicable):				
5 years of costs					
	Capital Cost	O&M Cost	Other Costs	Approved	
					2204
					2283
					2285
					2341
					2465
					2502
					2521
					2522
					2546
					2562
					2563
					2565
					2566
					2567
					2568
					2569
					2572
					2573
2012	\$ 7,750,000	\$ -	\$ -	\$ 7,750,000	
2013	\$ 8,350,000	\$ -	\$ -	\$ 4,798,013	
2014	\$ 7,680,000	\$ -	\$ -	\$ 5,866,082	
2015	\$ 7,635,000	\$ -	\$ -	\$ 6,000,000	
2016	\$ 7,585,000	\$ -	\$ -	\$ 5,500,000	
2017	\$ -	\$ -	\$ -	\$ 5,500,000	
2018	\$ -	\$ -	\$ -	\$ 8,770,000	
2019	\$ -	\$ -	\$ -	\$ 10,170,000	
Total	\$ 39,000,000	\$ -	\$ -	\$ 54,354,095	
7-year average projected spend: \$ 6,312,014					

Mandate Excerpt (if applicable):
 Obligation to serve: Specific substations may require rebuild for increased capacity due to load growth.

Additional Justifications:
 This program replaces substations that are at the end of their life cycle or require rebuild for other reasons including capacity, reliability, growth, and contractual or regulatory obligations. Some substations, like Lucky Friday, could be standalone projects under the Mandatory category since we have to meet customer load growth. Therefore, cuts to this program need to be closely evaluated.
 Program Link: Substation transmission integration budget dollars (\$415k - \$435k) are included in this program.
 Program Link: Substation distribution integration budget dollars (\$300k - \$1.15M) are included in this program.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The Internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

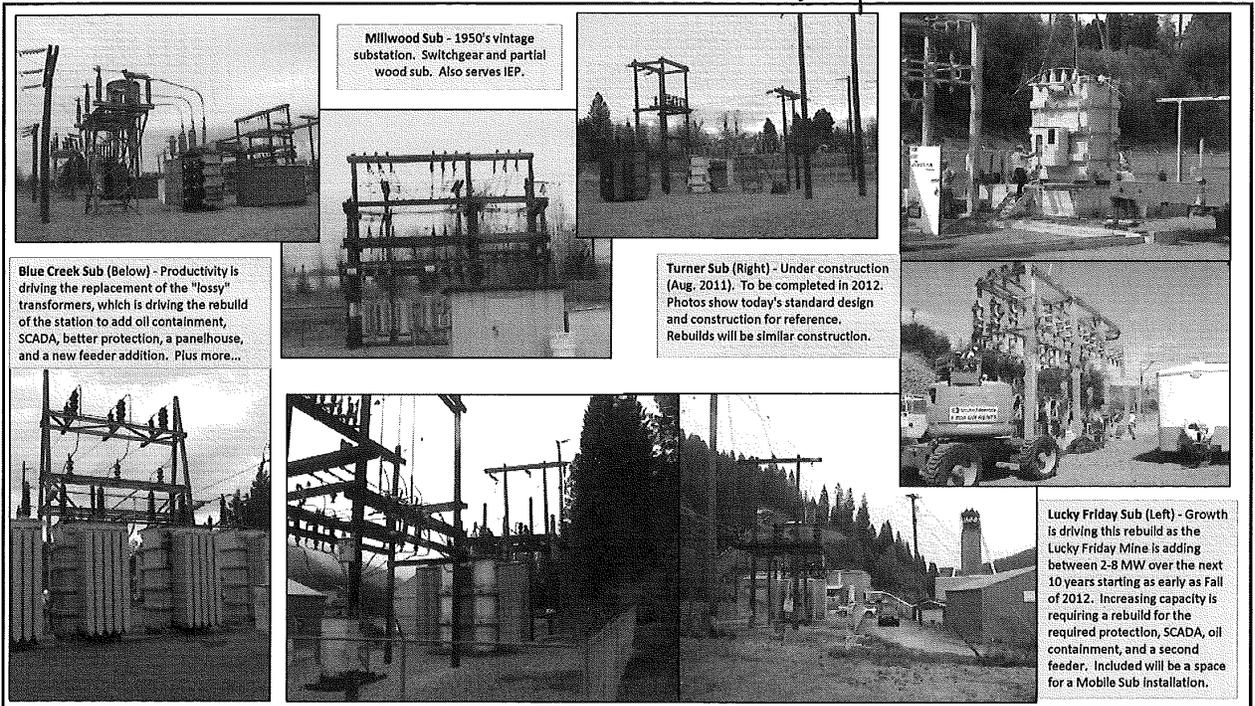
Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Complete 3 rebuilds per year.
	Complete Metro Sub EPC Rebuild by 2018.

Prepared _____
Mike Magruder, Manager - Substation Engineering

Reviewed _____
Heather Rosentrater, Director - ENSO

Reviewed _____
Andy Vickers, Director - GPSS

Marjie Stevens



Millwood Sub - 1950's vintage substation. Switchgear and partial wood sub. Also serves IEP.

Blue Creek Sub (Below) - Productivity is driving the replacement of the "fossy" transformers, which is driving the rebuild of the station to add oil containment, SCADA, better protection, a panelhouse, and a new feeder addition. Plus more...

Turner Sub (Right) - Under construction (Aug. 2011). To be completed in 2012. Photos show today's standard design and construction for reference. Rebuilds will be similar construction.

Lucky Friday Sub (Left) - Growth is driving this rebuild as the Lucky Friday Mine is adding between 2-8 MW over the next 10 years starting as early as Fall of 2012. Increasing capacity is requiring a rebuild for the required protection, SCADA, oil containment, and a second feeder. Included will be a space for a Mobile Sub installation.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Substation - New Distribution Substations

ER No: ER Name:
 2274 Tamarack 115Kv Sub-Construction
 2322 Downtown West Sub - Property
 2443 Greenacres 115-13kV Sub - New Construct
 2587 Irvin 115-13 kV Sub - Add Distribution Station

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 5,025 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	2,026	-	-	-	-	-	1,900	-	-	-	-	-	126
2016	75	-	-	-	-	-	-	-	-	-	-	-	75
2017	2,323	21	21	21	21	21	21	1,846	21	21	21	21	269

Business Case Description:

This program adds new distribution substations to the system in order to serve new and growing load as well as for increased system reliability and operational flexibility. New substations under this program will require planning and operational studies, justifications, and approved project diagrams prior to funding. Planned new substation projects include Tamarack (NE Moscow), Greenacres and Irvin (Spokane Valley), Hillyard and Downtown West (Spokane). Out years include construction for these and design and construction for one new substation per year on average depending on need and justifications.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Substation - New Distribution Stations					
Requested Amount	\$1,430,714					
Duration/Timeframe	50 Year Program					
Dept., Area:	T&D - Substation Engineering					
Owner:	Heather Rosentrater					
Sponsor:	Don Kopczynski					
Category:	Program					
Mandate/Reg. Reference:	n/a					
Assessments:	Financial: Medium - >= 5% & <9% CIRR					
Strategic:	Reliability & Capacity					
Operational:	Operations require execution to perform at current levels					
Business Risk:	ERM Reduction >5 and <= 10					
Program Risk:	High certainty around cost, schedule and resources					
Assessment Score:	80					
Recommend Program Description:	Performance	Annual Cost Summary - Increase/(Decrease)		Business Risk Score		
This program adds new distribution substations to the system in order to serve new and growing load as well as for increased system reliability and operational flexibility. New substations under this program will require planning and operational studies, justifications, and approved Project Diagrams prior to funding. This documentation will be included with this business case. Planned new substation projects include Tamarack (NE Moscow), Greenacres and Irvin (Spokane Valley), Hillyard and Downtown West (Spokane). Out years include construction for these and design and construction for 1 new substation per year on average depending on need and justifications.	Improved performance, reliability, operational flexibility; Obligation to Serve.	Capital Cost \$ 1,430,714	O&M Cost \$ -	Other Costs \$ -	1	
Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)		Business Risk Score		
Unfunded Program:	Without adding new substations as justified, we would not be able to adequately meet our obligation to serve.		O&M Cost \$ 250,000	Other Costs \$ 250,000	9	
Alternative 1: Extend Feeders; Increase Substation Capacities	Extension of distribution feeders from neighboring substations and increased capacity at those substations would be required at a minimum. The negative impact is most certainly reduced reliability and difficulty in long term maintenance and system operation. Increased liability would result.	Longer outages for more customers; system stress.	Capital Cost \$ 1,000,000	O&M Cost \$ 150,000	Other Costs \$ -	6
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	Capital Cost \$ -	O&M Cost \$ -	Other Costs \$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	Capital Cost \$ -	O&M Cost \$ -	Other Costs \$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
5 years of costs					2274	2321	2322	2398	2443
	Capital Cost	O&M Cost	Other Costs	Approved	2459	2479	2480	2587	
2012	\$ 1,275,000	\$ -	\$ -	\$ 250,000					
2013	\$ 8,220,000	\$ -	\$ -	\$ 525,000					
2014	\$ 1,400,000	\$ -	\$ -	\$ 3,086,665					
2015	\$ 2,750,000	\$ -	\$ -	\$ 1,375,000					
2016	\$ 2,000,000	\$ -	\$ -	\$ 1,175,000					
2017	\$ -	\$ -	\$ -	\$ 2,475,000					
2018	\$ -	\$ -	\$ -	\$ 2,050,000					
2019	\$ -	\$ -	\$ -	\$ 1,525,000					
Total	\$ 15,645,000	\$ -	\$ -	\$ 12,461,665					
7-year average projected spend: \$ 1,562,381									

Mandate Excerpt (if applicable):
 Obligation to serve: Substations will need to be added to the system as justified for increased capacity and operational reliability requirements due to load growth.

Additional Justifications:
 New distribution substations added to the system for load growth and reliability are critical to the long term operation of the system. As load demands increase and customer expectations rise regarding reliability, incremental distribution substation capacity is required. This allows for improved operational flexibility, better system reliability, and easier routine maintenance scheduling as equipment is more easily taken out of service because load can be transferred.
 Program Link: Substation transmission integration budget dollars (\$20k - \$3.45M) are included in this program. The Bovill Sub transmission line is budgeted for \$3.45M in 2013.
 Program Link: Substation distribution integration budget dollars (\$25k - \$500k) are included in this program. The Bovill Sub distribution integration is budgeted for \$500k in 2013.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input checked="" type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Energize new subs before need as justified.

Prepared _____
Mike Magruder, Manager - Substation Engineering

Reviewed _____
Heather Rosentrater, Director - ENSO

Reviewed _____
Andy Vickers, Director - GPSS

Marqui Stevens

Justification

Tamarack will initially unlead 2 feeders - Moscow 115 513 and 514. These are long feeders that serve both suburban and rural load. The Moscow 115 transformers are loaded to 63% and 89% (Winter 2009), with more load projected primarily west of Moscow.

Shifting load between Moscow stations would allow us to better configure feeds for the town, particularly from North Moscow - which is in a less than ideal location.

Potential Tamarack Location

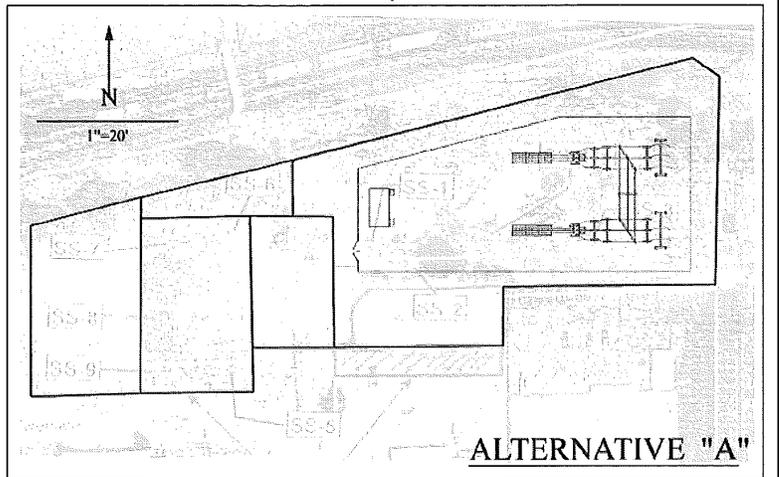
AVISTA Utilities

Green Acres 116-118V Substation
ER2443

Cost Estimate
ER2443 -
Distribution 110-118V

Green Acres

Scope
This project is to build a general address on long term parcel property in the Green Acres area. The substation will provide capacity and service to the 116-118V area. The project will be used to provide service to the area under normal operating conditions. The project will be used to provide service to the area under normal operating conditions. The project will be used to provide service to the area under normal operating conditions. The project will be used to provide service to the area under normal operating conditions.



Upper Left: Project Diagram and preliminary Justification for Tamarack Sub (NE Moscow).
Lower Left: Project Diagram and Scope for Greenacres Sub (Spokane Valley).
These Project Diagrams and associated background information via Distribution Planning studies are a requirement for any new substations to be funded under this Program. Each study will be included with the Business Case for reference.

Above: Shown is a preliminary design for a potential new substation in the University District in downtown Spokane. The property has been secured and as electric load increases in the U-District, this new substation will need to be constructed ahead of the need to ensure we have the required capacity and system reliability. In addition, this new sub will improve overall operational flexibility to serve all of our electric load in the U-District vicinity. Construction could occur in the next 3-10 years depending on the load growth.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Tribal Permits and Settlements

ER No: 2301
ER Name: Tribal Permits and Settlements

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 2,045 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,430	119	119	119	119	119	119	119	119	119	119	119	119
2016	316	26	26	26	26	26	26	26	26	26	26	26	26
2017	297	25	25	25	25	25	25	25	25	25	25	25	25

Business Case Description:

Avista has hydroelectric, transmission, distribution and substation facilities located on the Coeur d'Alene, Colville, Flathead (Salish/Kootenai), Nez Perce and Spokane Tribe Reservations. These facilities are essential components of our energy resource and delivery systems. Avista is required to obtain permits from the Bureau of Indian Affairs (BIA) for its facilities on land held in trust by the federal government for Tribes and/or individual tribal members. Through some of its tribal settlements, Avista obtained the necessary tribal consent and BIA permits for its facilities on tribal trust land. However, Avista needs to renew approximately 700 rights of way permits for other facilities on Trust Land. The original permits were obtained 50+ years ago and the renewal process can be time-consuming (multiple years) and costly. Some of the permits may be in a trespass situation. Avista is actively working with the BIA and the Tribes to file renewal applications and complete the renewal process.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Tribal Permits and Settlements	Assessments:	
Requested Amount	\$325,000	Financial:	High - Exceeds 12% CIRR
Duration/Timeframe	5 years Year Program	Strategic:	Reliability & Capacity
Dept., Area:	Real Estate for Native American Relations	Operational:	Operations require execution to perform at current levels
Owner:	Toni Pessemier	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Jason Thackston	Program Risk:	High certainty around cost, schedule and resources
Category:	Program	Assessment Score:	94
Mandate/Reg. Reference:	25 U.S.C. 323 & 357; 25 CFR 169	Annual Cost Summary - Increase/(Decrease)	

Recommend Program Description: Avista has hydro, transmission/distribution and substation facilities on the Coeur d'Alene, Colville, Flathead (Salish/Kootenai), Nez Perce and Spokane Tribe Reservations. These facilities are essential components of our energy resource and delivery systems. Avista is required to obtain permits from the Bureau of Indian Affairs (BIA) for its facilities on land held in trust by the federal government for Tribes and/or individual tribal members. Through some of its tribal settlements, Avista obtained the necessary tribal consent and BIA permits for its facilities on tribal trust land. However, Avista needs to renew approximately 700 rights of way permits for other facilities on Trust Land. The original permits were obtained 50+ years ago and the renewal process can be time-consuming (multiple years) and costly. Some of the permits may be in a trespass situation. Avista is actively working with the BIA and the Tribes to file renewal applications and complete the renewal process.	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
	Maintaining facilities in existing locations versus costs of having to relocate	\$ 325,000	\$ -	\$ -	8

Annual Cost Summary - Increase/(Decrease)					
Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	If permits remain expired or allowed to continue to expire, our facilities will be in a trespass situation exposing the company to litigation and poor media exposure. Additional construction would be required to re-route lines.	\$ 10,000,000	\$ -	\$ 1,000,000	16
Alternative 1: Relocation of facilities	Relocation of distribution, 115kV Transmission and 230kV Transmission facilities off reservation and onto road rights of way or private property would involve unplanned man-hours, fleet and equipment, as well as appraisals, surveys, title reports, easements and compensation.	\$ 10,000,000	\$ -		0
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):				
5 years of costs					Current ER				
	Capital Cost	O&M Cost	Other Costs	Approved		2301			
2012	\$ 325,000	\$ -	\$ -	\$ 325,000					
2013	\$ 325,000	\$ -	\$ -	\$ 325,000					
2014	\$ 500,000	\$ -	\$ -	\$ 500,000					
2015	\$ 1,250,000	\$ -	\$ -	\$ 1,430,000					
2016	\$ 250,000	\$ -	\$ -	\$ 315,000					
2017	\$ 300,000	\$ -	\$ -	\$ 300,000					
2018	\$ 250,000	\$ -	\$ -	\$ 250,000					
2019	\$ -	\$ -	\$ -	\$ 150,000					
Total	\$ 3,200,000	\$ -	\$ -	\$ 3,595,000					

Mandate Excerpt (if applicable):
25 U.S.C. 323 (Tribal Trust Lands); 25 U.S.C. 357 (Allotted Lands) and 25 CFR 169 (process)

Additional Justifications:
If Avista is unable to obtain its needed rights of way (ROW) across Tribal Trust, Tribal Fee and Allotted lands, the financial risk to Avista is significant. For example, Avista could be exposed to trespass damages and the requirement that it move, at substantial expense, its lines and facilities.

Resources Requirements: (request forms and approvals attached)

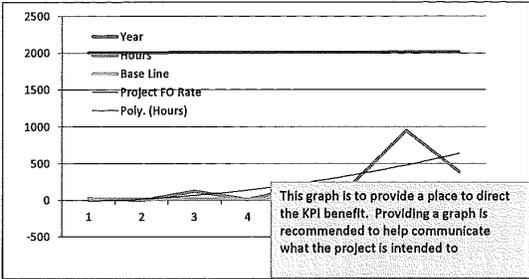
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The Internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).



Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here



Prepared signature _____

Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stewenz* _____
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Worst Feeders

ER No: 2414 **ER Name:** Sys-Dist Reliability-Improve Worst Feeders

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 6,000 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,999	21	21	21	21	21	21	21	21	21	21	21	1,770
2016	2,000	100	100	125	125	125	125	250	250	250	250	150	150
2017	2,000	167	167	167	167	167	167	167	167	167	167	167	167

Business Case Description:

Initiating in 2009, ER 2414- "Worst Feeders" was proposed by Asset Management to improve the service reliability of the Company's worst performing electric distribution circuits. Many rural feeders significantly exceed the Company SAIFI target of 2.1. This program is coordinated through divisional Area Engineers to identify treatment of these feeders. Work plans may include, reconstruction, hardening, vegetation management, conversion from overhead to underground, enhanced protection, and relocation.

Offsets:

O&M offsets associated with this business case may occur in the future, however, they are not quantifiable at this time.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Underperforming Elec Ckts (Worst FDRs)	Assessments:	
Requested Amount	\$2,000,000	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	on-going Year Program	Strategic:	Life Cycle Programs
Dept., Area:	Engineering/Operations	Operational:	Operations require execution to perform at current levels
Owner:	Rosenrater/James (updated July 16, 2014)	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Don Kopczynski	Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Program	Assessment Score:	84
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	
Recommend Program Description:		Performance	Capital Cost
Initiating in 2009, ER 2414- "Worst Feeders" was proposed by Asset Management to improve the service reliability of the Company's worst-performing electric distribution circuits. Many rural feeders significantly exceed the Company SAIFI target of 2.1. This program is coordinated through divisional Area Engineers to identify treatment of these feeders. Work plans may include, reconstruction, hardening, vegetation management, conversion from OH to UG, enhanced protection, and relocation.		Improve the overall system performance of the Company's "top ten" worst feeders.	\$ 2,000,000
		O&M Cost	Other Costs
		\$ -	\$ -
		Business Risk Score	12

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Rural area reliability indices expected to worsen as infrastructure ages and deteriorates. Expect customer contacts to local media and state government and regulatory bodies.	Ten to twenty rural FDRs whose SAIFI exceeds 10	\$ -	\$ -	\$ -	20
50% funding	Funding at \$1,000,000 would restrict current treatment to top five worst feeders.	annual spend restricted to top five worst feeders	\$ 1,000,000	\$ -	\$ -	12
25% funding	Funding at 500,000 would restrict treatment to enhanced protection only (adding midline reclosers, additional fusing)	work plan restricted to enhanced protection	\$ 500,000	\$ -	\$ -	0
		describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows					Associated Ers (list all applicable):					
5 years of costs					Current ER					
	Capital Cost	O&M Cost	Other Costs	Approved	2414					
2012	\$ 2,000,000	\$ -	\$ -	\$ 1,500,000						
2013	\$ 2,000,000	\$ -	\$ -	\$ 1,741,750						
2014	\$ 2,000,000	\$ -	\$ -	\$ 1,808,800						
2015	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000						
2016	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000						
2017	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000						
2018	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000						
2019	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000						
Total	\$ 16,000,000	\$ -	\$ -	\$ 15,050,550						

Mandate Excerpt (if applicable):

Additional Justifications:
Any supplementary information that may be useful in describing in more detail the nature of the Program, the urgency, etc.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: <input type="checkbox"/> Low Probability <input checked="" type="checkbox"/> Medium Probability <input type="checkbox"/> High Probability Contract Labor: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Enterprise Tech: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required Facilities: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required Capital Tools: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required Fleet: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	<div style="border: 1px solid black; padding: 5px;"> Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment). </div>
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Capital Program Business Case

Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Monitor SAIFI

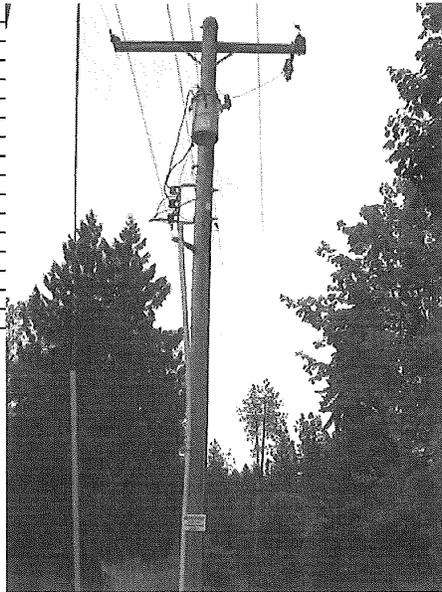


Prepared signature _____

Reviewed signature _____
Director/Manager

Other Party Review signature *Margi Stevens* _____
(if necessary) Director/Manager

Feeder	7-yr Rank	7-yr Ave	3-yr Rank	3-yr Ave	%Dif 3yr v. 7yr	1-yr Rank	% Dif 1yr v 3yr
GRV1273	1	21.02	1	13.07	38%	3	23%
DER651	2	10.44	2	8.97	14%	12	41%
GIF34F2	3	7.40	7	6.32	15%	4	-50%
SPI12F1	4	7.19	3	7.47	-4%	10	21%
STM633	5	7.18	8	6.08	15%	6	-24%
CHW12F3	6	5.58	14	4.73	15%	24	14%
JPE1287	7	5.37	4	6.82	-27%	30	46%
GIF34F1	8	5.19	17	4.11	21%	11	-32%
VAL12F1	9	5.11	6	6.34	-24%	17	24%
CLV34F1	10	5.01	11	5.29	-6%	5	-61%
ROX751	11	4.97	10	5.34	-7%	118	76%
ODN732	12	4.87	9	6.00	-23%	1	-142%
WEI1289	13	4.70	5	6.78	-44%	53	66%
WAL543	14	4.66	19	4.06	13%	26	0%
VAL12F2	15	3.85	20	3.90	-1%	8	-63%



To be completed by Capital Planning Group		Review Cycles	
Rationale for decision	2012-2016		
	Date	Template	

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Spokane Valley Transmission Reinforcement

ER No: ER Name:
 2446 Irvin Sub - New Construction
 2474 Beacon-Boulder #2 115: Capacity Upgrade
 2552 Opportunity 115 kV Switching Station

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 8,890¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	2,900	-	-	-	-	-	-	-	-	-	-	2,300	600
2016	7,440	-	-	-	-	-	-	-	-	-	5,400	-	2,040
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

The Spokane Valley Transmission Reinforcement Project includes rebuilding 4.4 miles of the Beacon - Boulder #2 115 kV Transmission Line, constructing the new Irvin Switching Station, rebuilding 1.75 miles of the Irvin - Opportunity 115 kV Tap, installing circuit breakers at Opportunity Substation, and constructing a new 2.2 mile 115 kV transmission line from Irvin to Millwood/Inland Empire Paper. The completion of these projects are required to mitigate existing and future performance and reliability issues of the Transmission System in the Spokane Valley.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



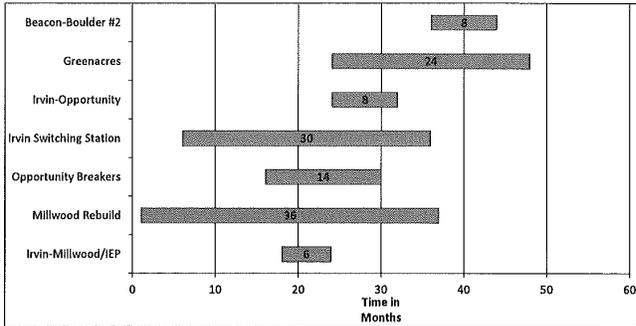
Capital Investment Business Case

Investment Name:	Spokane Valley Transmission Reinforcement	Assessments:	
Requested Amount	\$13,736,503	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	5 Year Project	Strategic:	Reliability & Capacity
Dept., Area:	T&D - Substation & Transmission Engineering	Operational:	Operations require execution to perform at current levels
Owner:	Heather Rosentrafer	Business Risk:	ERM Reduction >0 and <= 5
Sponsor:	Don Kopczynski	Project/Program Risk:	High certainty around cost, schedule and resources
Category:	Project	Assessment Score:	78.5
Mandate/Reg. Reference:	n/a	Cost Summary - Increase/(Decrease)	
Recommend Project Description:	The Spokane Valley Transmission Reinforcement Project includes rebuilding 4.4 miles of the Beacon - Boulder #2 115 kV Transmission Line, constructing the new Irvin Switching Station, rebuilding 1.75 miles of the Irvin - Opportunity 115 kV Tap, installing circuit breakers at Opportunity Substation, and constructing a new 2.2 mile 115 kV transmission line from Irvin to Millwood/IEP. The completion of these projects are required to mitigate existing and future performance and reliability issues of the Transmission System in the Spokane Valley.	Performance	Capital Cost
		Ability to serve load growth in area and provide operational flexibility to maintain equipment	\$ 13,736,503
			O&M Cost
			\$ -
			Other Costs
			\$ -
			Business Risk Score
			1

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Status Quo:	Heavy thermal loading (>90%) is projected to occur on local transmission lines in the near term planning horizon. Presently the Beacon - Boulder #2 Transmission Line cannot be taken out of service to be maintained/rebuilt due to operational constraints serving IEP's new synchronous motor load.	n/a	\$ -	\$ -	\$ -	6
Alternative 1: Partial Transmission System Upgrades	Upgrade existing Transmission System by installing capacitor banks and rebuilding 115 kV transmission lines with 795 ACSS conductor. Further capital expenditures will be required going forward.	Thermal load reduced in near term planning horizon	\$ 9,600,000	\$ -	\$ -	4
Alternative 2: Irvin Plan Minus IRV-MIL 115 kV Line	Construct all items in proposed Project except the new 115 kV transmission line from Irvin to Millwood/IEP. Ability to serve IEP is still constrained.	Thermal load reduced in near term planning horizon	\$ 9,500,000	\$ -	\$ -	4
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Timeline

Construction Cash Flows (CWIP)



	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 40,559	\$ -	\$ -	\$ 40,559
2012	\$ 3,700,000	\$ -	\$ -	\$ 3,700,000
2013	\$ 4,150,000	\$ -	\$ -	\$ 966,944
2014	\$ 2,940,000	\$ -	\$ -	\$ 1,820,000
2015	\$ 1,500,000	\$ -	\$ -	\$ 4,375,000
2016	\$ -	\$ -	\$ -	\$ 4,515,000
2017	\$ -	\$ -	\$ -	\$ -
2018	\$ -	\$ -	\$ -	\$ -
Future	\$ -	\$ -	\$ -	\$ -
Total	\$ 12,330,559	\$ -	\$ -	\$ 15,417,503

Milestones (high level targets)			
January-12	Construct Irvin-Millwood/IEP 115 line	December-12	Complete construction (terminate Irvin end of line when Irvin is completed - 2014)
January-12	Rebuild Millwood Sub (not included in Project)	September-13	Complete rebuild
January-12	Build Irvin 115 kV Switching Station	December-16	Complete 115 kV Switching Station; Add Distribution later
January-12	Install breakers at Opportunity	December-14	Complete installation
January-13	Rebuild Irvin-Opportunity 115 kV line	December-13	Complete rebuild
January-13	Construct Greenacres Sub (not included in Project)	April-15	Complete construction
January-15	Rebuild Beacon-Boulder #2 115 kV line	December-15	Complete rebuild

Associated Ers (list all applicable):	1006	2001	2446	2474	2526	2552
Mandate Excerpt (if applicable):	With continued load growth, violation of TPL-002, R1 (ability to supply projected customer demands under N-1 contingency conditions) will likely occur.					

Additional Justifications:
 In 2009, The Irvin Project report was reviewed and approved by stakeholders in the Engineering, Operations, and Planning Groups at Avista. A superior project, or collection of projects, was selected to mitigate existing and future performance and reliability issues of the Transmission System in the Spokane Valley. These projects, identified as Option 4a in The Irvin Project, and reiterated in the System Planning Interoffice Memorandum SP-2009-03 - Summary - Irvin (Spokane Valley Transmission Reinforcement) Project are illustrated in Project Diagram SP-0220 - Irvin Project. Further updates are provided in Interoffice Memorandum SP-2011-07 - Spokane Valley Transmission Reinforcement (Irvin Project). All documents are posted on Transmission System Planning SharePoint Site.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input checked="" type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here

Prepared _____
Mike Magruder/Ken Sweigart, T&D Substations/Transmission

Reviewed _____
Heather Rosentrater, Director - ENSO

Reviewed _____
Andy Vickers, Director - GPSS

Margi Steuens

Below is the approved Project Diagram for the "Irvin Project" and power simulation plot indicating thermal overload on transmission lines during specific outage scenarios

Irvin Project
Project Diagram: SP-0220
AVISTA Corp.
SPOKANE, WASHINGTON

NO.	Date	REVISION NOTES	BY	CKD

1 Replace 4.37 miles of 556 AAC conductor with 795 AAC or better.
 2 Rebuild Millwood, 20 MVA Transformers & 4 Feeders. Normally Open (SCADA controlled) provides Back-Up service for IEP Load.
 3 New Irvin Switching Station, Breaker & a Half, 116kV 33.5 MVA Capacitor Bank and two 20 MVA Transformers & 4 Feeders.
 4 Replace 1.74 miles of 4/0 ACSR conductor with 795 AAC or better. New structures, potentially a double circuit line.
 5 Convert Opportunity to a Switching Station (Single Bus). Two AVA Feeders and four MEWCO Feeders.
 6 New 2.19 miles Single Circuit 556 AAC (IEP Tap). Possible double circuit Irvin to Millwood/IEP line.

Project Completion, all facilities in service by year end 2013.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Clearwater Substation Upgrades

ER No: 2571 **ER Name:** Clearwater 115 kV Substation Upgrades

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,000 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	500	-	-	-	-	-	-	-	-	-	500	-	-
2016	500	-	-	-	-	-	-	-	-	-	500	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

Clearwater 115 kV Substation Upgrades. Several components in this station have reached their life cycle and need to be replaced. Some of the station components are non-standard and relatively unreliable. This project will upgrade the station by adding a 115 kV bus sectionalizing breaker and associated air switches on the section of bus between the two power transformers for better operational flexibility and restoration. This work includes construction of a 115 kV line terminal and relocation of 2 lines, upgrading metering, and adding SCADA. This is very difficult work in this particular station and this customer requires continued operation during construction. The protective relays and associated communication system will be upgraded to improve reliability of service.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	Clearwater Sub Upgrades	Assessments:	
Requested Amount	\$3,700,000	Financial:	7.00%
Duration/Timeframe	4 Year Project	Strategic:	Reliability & Capacity
Dept., Area:	T&D - Substations/Transmission	Business Risk:	Business Risk Reduction >15
Owner:	Heather Rosentrater	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski		
Category:	Project		
Mandate/Reg. Reference:	n/a	Assessment Score:	98

Recommend Project Description:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
Clearwater 115 kV Substation Upgrades. Several components in this station have reached their life cycle and need to be replaced. Some of the station components are non-standard and relatively unreliable. This project will upgrade the station by adding a 115 kV bus sectionalizing breaker and associated air switches on the section of bus between the two power transformers for better operational flexibility and restoration. This work includes construction of a 115 kV line terminal and relocation of 2 lines, upgrading metering, and adding SCADA. This is very difficult work in this particular station and this customer requires continued operation during construction. The protective relays and associated communication system will be upgraded to improve reliability of service.	better operational flexibility, improved system comms and metering	\$ -	\$ -	\$ -	1

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	The existing station is a single bus with "sliding link" air switches that are extremely dangerous to operate. A 115 kV fault in the station will shut down Clearwater Paper entirely until the problem can be fixed. Existing meters are obsolete and routinely cause problems.	n/a	\$ 100,000	\$ 50,000	\$ 1,000,000	6
Alternative 1: Brief name of alternative (if applicable)	Several options were discussed with Clearwater Paper Co. The recommended project is what was agreed upon with Clearwater Paper to meet both parties' requirements. So, no other alternatives will be included with this Project Business Case.	describe any incremental changes in operations	\$ -	\$ -	\$ -	1
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ 700,000	\$ -	\$ -	\$ 800,000
2014	\$ 2,000,000	\$ -	\$ -	\$ 1,300,000
2015	\$ 500,000	\$ -	\$ -	\$ 500,000
2016	\$ 500,000	\$ -	\$ -	\$ 500,000
2017+	\$ -	\$ -	\$ -	\$ -
Total	\$ 3,700,000	\$ -	\$ -	\$ 3,100,000

Associated Ers (list all applicable):

2571			

ER	2013	2014	2015	2016	2017+	Total	Mandate Excerpt (if applicable):
2571	\$ 700,000	\$ 2,000,000	\$ 500,000	\$ 500,000	\$ -	\$ 3,700,000	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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Total	\$ 700,000	\$ 2,000,000	\$ 500,000	\$ 500,000	\$ -	\$ 3,700,000	Additional Justifications: In order to meet the aggressive milestones, business case approval is needed immediately so project funding can be secured to begin design and procurement. Schedule commitments with Clearwater Paper are challenging.

Milestones (high level targets)

March-13	Sub Design Begins	Spring-14	T-line Shoofly Const.	Spring-16	Upgrade Transformer re	Milestones should be general. Use your judgement on project progress so that progress can be measured.
June-13	UT2 - 34 kV Bkr Design xmitted	Summer-14	115 kV Bus Sect. Bkr. Const.	January-00	open	
July-13	T-Line Design Begins	Fall-14	Commission Tie Breaker	January-00	open	
September-13	UT2 - 34 kV Bkr Replaced	Winter-14	Upgrade SCADA	January-00	open	
Winter-13	115 kV Sub Design	Spring-15	Upgrade Lolo 2 Relays	January-00	open	
Spring-14	115 kV Bay Const. A-448	Fall-15	Upgrade N Lewiston Relays	January-00	open	

Resources Requirements: (request forms and approvals attached)

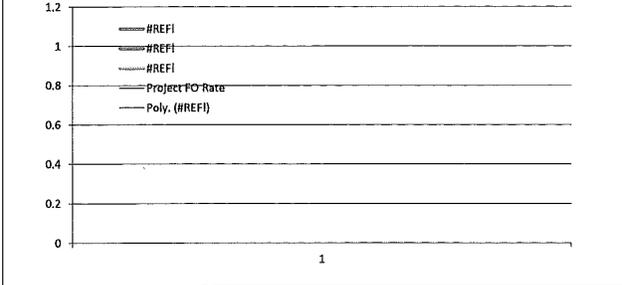
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here

Fill in the name of the KPI here

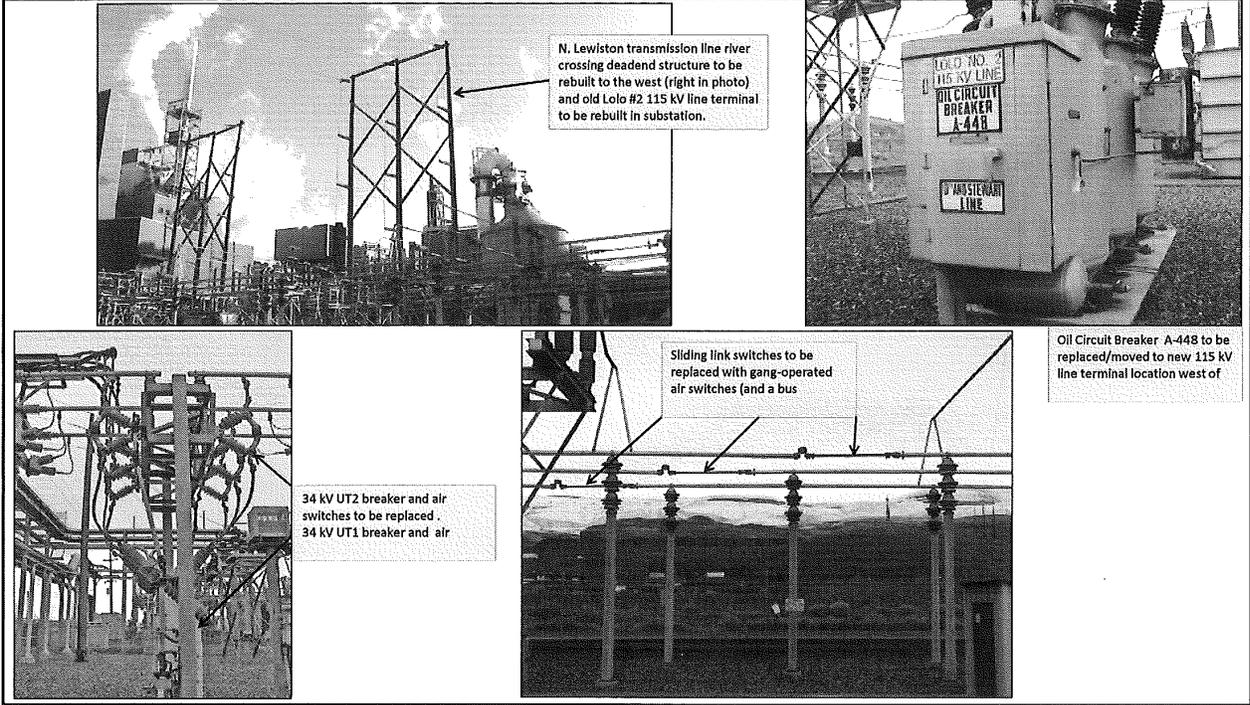


Prepared Mike Magruder/Ken Sweigart, T&D Substations/Transmission

Reviewed Heather Rosentrater, Director - ENSO

Reviewed Andy Vickers, Director - GPSS

Reviewed (if necessary) Margie Stevens
Director



To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Street Light Management

ER No: 2584 **ER Name:** Street Light Conversion to LED Fixtures

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 4,500 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,500	133	124	123	124	125	123	133	122	123	124	125	122
2016	1,500	142	123	120	122	124	120	143	118	120	124	124	118
2017	1,500	142	123	120	122	124	120	143	118	120	124	124	118

Business Case Description:

Street Light Maintenance Program. This program is a 5 year planned replacement of bulbs and 10 year planned replacement of photocells.

Offsets:

We anticipate there will be annual O&M savings in beginning in 2015 in the amount of \$468,000 and will increase to \$722,000 in 2016; an incremental increase of \$254,000 for 2016. The offsets result from the conversion from High Pressure Sodium to 100 Watt street lights. The savings come from the reduction in labor, equipment, material, and overhead costs associated with repairing older lights. We have included O&M Offsets of \$468,000 (\$165,160 ID) for 2015 and \$254,000 (\$89,640 ID) for 2016 in our Pro Forma adjustment.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Street Light Management
Requested Amount	\$475,000
Duration/Timeframe	Indefinite 2014
Dept., Area:	Operations
Owner:	Al Fisher
Sponsor:	Don Kopczynski
Category:	Program
Mandate/Reg. Reference:	n/a

Assessments:
 Financial: 7.92%
 Strategic: Life-cycle asset management
 Business Risk: Business Risk Reduction >5 and <= 10
 Program Risk: Moderate certainty around cost, schedule and resources

Assessment Score: 89

Recommend Program Description:

Street Light Maintenance Program. This program is a 5 year planned replacement of bulbs and 10 year planned replacement of photocells. This alternative has the starterboards running to failure.

Alternatives:

	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program: Continue maintaining the street lights as failures occur	6.29% 2 - S3 event in 10 years	\$ -	\$ 1,500,000	\$ (750,000)	8
Alternative 1: Street Light Maintenance Program. This program is a 5 year planned replacement of bulbs and 10 year planned replacement of photocells. This alternative has the starterboards running to failure.	7.92% 1.5 - S3 event in 10 years	\$ 475,000	\$ (250,000)	\$ (750,000)	8
Alternative 2: Street Light Maintenance Program. This program is a 5 year planned replacement of bulbs and starterboards and a 10 year planned replacement of photocells.	7.28% 1 - S3 event in 10 years	\$ 890,000	\$ (250,000)	\$ (1,175,000)	12
Alternative 3: Street Light Maintenance Program. This program is a 5 year planned replacement of bulbs and a 10 year planned replacement of photocells and starterboards.	7.82% 1 - S3 event in 10 years	\$ 895,000	\$ (250,000)	\$ (1,165,000)	12

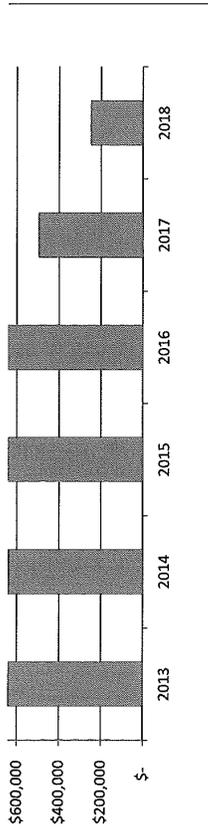
Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ -	\$ -	\$ -	\$ -
2014	\$ 475,000	\$ (250,000)	\$ -	\$ -
2015	\$ 484,500	\$ (500,000)	\$ -	\$ 1,500,000
2016	\$ 494,190	\$ (750,000)	\$ -	\$ 1,500,000
2017	\$ 504,074	\$ (1,000,000)	\$ -	\$ 1,500,000
2018	\$ -	\$ -	\$ -	\$ 1,500,000
2019	\$ -	\$ -	\$ -	\$ 1,500,000

Associated ERS (list all applicable):

New ER	

Capital Program Business Case



(if necessary)

Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision

Review Cycles

2012-2016

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Noxon Switchyard Rebuild

ER No: 2532 **ER Name:** Noxon 230 kV Substation - Rebuild

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 15,500 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	8,325	-	-	-	-	-	-	-	-	7,800	-	-	525
2016	500	-	-	-	-	-	-	-	-	-	-	-	500
2017	7,700	-	-	-	-	-	-	-	-	-	6,000	-	1,700

Business Case Description:

The existing Noxon Rapids 230 kV Switchyard requires reconstruction due to the present age and condition of the equipment in the station. The existing bus is constructed as strain bus (which has suffered a number of recent failures) and is configured as a single bus with a tiebreaker separating the East and West buses. The station is the interconnection point of the Noxon Rapids Hydroelectric development as well as a principal interconnection point between Avista and BPA, and as such is a significant asset in the reliable operation of the Western Montana Hydro Complex. Equipment outages within the Station (planned or unplanned) can cause significant curtailments of the local generation output. Due to the significance of the station, a complete rebuild will require coordination with Avista’s Energy Resources Department and neighboring utilities, primarily BPA. The Noxon Switchyard Rebuild Project is proposed to be a Greenfield Double Bus Double Breaker 230 kV switching station to replace the existing Noxon Switchyard.

Offsets:

There are no anticipated offsets with this business case.

¹The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



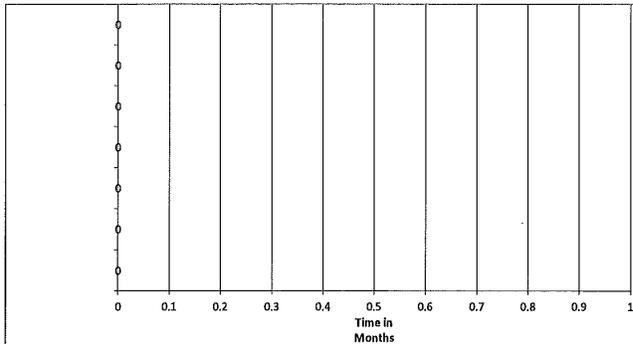
Capital Investment Business Case

Investment Name:	Noxon Switchyard Rebuild	Assessments:	
Requested Amount	\$24,950,000	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	8 Year Project	Strategic:	Reliability & Capacity
Dept., Area:	T&D - Substation & Transmission Engineering	Operational:	Operations require execution to perform at current levels
Owner:	Heather Rosenrater	Business Risk:	ERM Reduction >0 and <= 5
Sponsor:	Don Kopczynski	Project/Program Risk:	High certainty around cost, schedule and resources
Category:	Project	Assessment Score:	79
Mandate/Reg. Reference:	n/a	Cost Summary - Increase/(Decrease)	

Recommend Project Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
The existing Noxon Rapids 230 kV Switchyard requires reconstruction due to the present age and condition of the equipment in the station. The existing bus is constructed as strain bus (which has suffered a number of recent failures) and is configured as a single bus with a tie breaker separating the East and West buses. The station is the interconnection point of the Noxon Rapids Hydro Electric Dam as well as a principal interconnection point between Avista and BPA, and as such is a significant asset in the reliable operation of the Western Montana Hydro Complex. Equipment outages within the Station (planned or unplanned) can cause significant curtailments of the local generation output. Due to the significance of the station, a complete rebuild will require coordination with Avista's Energy Resources Department and neighboring utilities, primarily BPA. The Noxon Switchyard Rebuild Project is proposed to be a greenfield Double Bus Double Breaker 230 kV switching station to replace the existing Noxon Switchyard.	Improve station reliability by replacing end of life equipment. Improve equipment capacity ratings where possible.	\$ 24,950,000	\$ -	\$ -	1

Alternatives:		Performance	Cost Summary - Increase/(Decrease)			Business Risk Score
			Capital Cost	O&M Cost	Other Costs	
Status Quo:	The existing Noxon Switchyard will continue to present reliability concerns. Outages caused by equipment failure could cause curtailment of generation and reduced interconnection capacity with neighboring utilities.	n/a	\$ -	\$ -	\$ -	6
Alternative 1:	Replace end of life equipment and strain bus in existing station. This still leaves the station as a single bus, which does not improve single contingency outage possibilities as well as other bus configurations would. Installation of voltage control (reactors) would still be required.		\$ 8,500,000	\$ -	\$ -	0
			\$ -	\$ -	\$ -	0
			\$ -	\$ -	\$ -	0

Timeline



Construction Cash Flows (CWIP)

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2012	\$ -	\$ -	\$ -	\$ 150,000
2013	\$ 400,000	\$ -	\$ -	\$ 400,018
2014	\$ 2,525,000	\$ -	\$ -	\$ 4,425,000
2015	\$ 5,475,000	\$ -	\$ -	\$ 7,300,000
2016	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000
2017	\$ 4,200,000	\$ -	\$ -	\$ 5,200,000
2018	\$ 4,200,000	\$ -	\$ -	\$ 5,200,000
2019	\$ -	\$ -	\$ -	\$ 4,200,000
Future	\$ 5,000,000	\$ -	\$ -	\$ -
Total	\$ 24,800,000	\$ -	\$ -	\$ 29,875,018

Milestones (high level targets)			
Jan-Dec 2012	Plan/Scope Project; Initiate Permitting	April-16 - Oct-16	Construction of new station; Line Construction
Jan-Dec 2013	Finalize Scope Options; Process Permitting	April-17 - Oct-17	Construction of new station; Line Construction/Termination
April-14	Receive Permit	April-18 - Oct-18	Construction of new station; Line Construction/Termination/BPA Construction
April-14 - Dec-15	Construct Reactor Station & 230 kV Connection	April-19 - Oct-19	Construction of new station; Line Construction/Termination/BPA Construction
April-14 - Dec-15	Upgrade Strain bus and bus switches in old sub	April-20 - Oct-20	Construction of new station; Line Construction/Termination/BPA Construction
Jan-15 - Dec-15	Design rest of new station; replace old breakers	April-20 - Oct-20	Remove & Salvage old station
April-15 - Oct-15	Construction of new station		

Associated Ers (list all applicable):	2532				
Mandate Excerpt (if applicable):					

Additional Justifications:
 The existing station has not had equipment upgrades since 2007 due to projected plans for a station rebuild. With the decision to pursue a full station upgrade in a new location, the time it will take to construct this new station will require the old station to remain in operation until at least 2020 by current estimates. It has been decided to replace some of the existing equipment to afford safe and reliable operation of the existing station while the new station is constructed.



Capital Investment Business Case

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

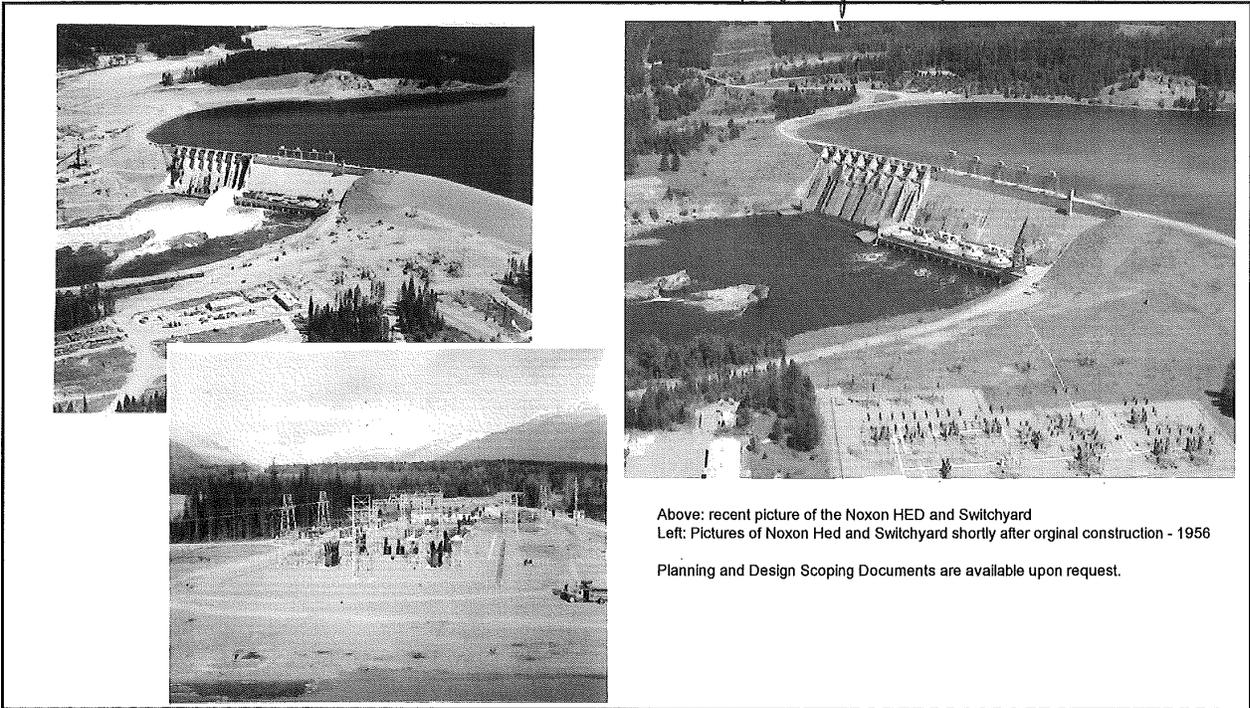
Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Complete Reactor Yard/minor station upgrades in 2015.
	Complete remainder of station as time/budget allows.

Prepared _____
 Mike Magruder/Ken Sweigart, T&D - Substations/Transmission

Reviewed _____
 Heather Rosentrater, Director - ENSO

Reviewed _____
 Andy Vickers, Director - GPSS

Margie Stevens



Above: recent picture of the Noxon HED and Switchyard
 Left: Pictures of Noxon Hed and Switchyard shortly after original construction - 1956

Planning and Design Scoping Documents are available upon request.

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Transmission - Asset Management

ER No: ER Name:
2057 Transmission Minor Rebuild
2254 System 115kV Air Switch Upgrade

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 5,262¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,709	67	67	96	96	197	197	197	216	216	216	82	63
2016	1,772	9	9	62	62	248	248	248	284	284	284	35	(0)
2017	1,780	9	9	62	62	249	249	249	285	285	285	36	-

Business Case Description:

The Transmission Asset Management Business Cases represent the mitigation Minor Rebuild (ER 2057) work associated with Avista Aerial Patrol and Wood Pole Management programs developed to comply with NERC Standard FAC-501-WECC-1, and Air Switch Replacements (ER 2254) made on a condition and age evaluation.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	Trans Asset Man	Assessments:				
Requested Amount	\$1,400,000	Financial:	10.00%			
Duration/Timeframe	Indefinite Year Program	Strategic:	Life-cycle asset management			
Dept., Area:	T&D - TLD Engineering	Business Risk:	Business Risk Reduction >0 and <= 5			
Owner:	Heather Rosenstrater	Program Risk:	High certainty around cost, schedule and resources			
Sponsor:	Don Kopczynski	Assessment Score:	84			
Category:	Program	Annual Cost Summary - Increase/(Decrease)				
Mandate/Reg. Reference:	WECC Standard FAC-501-WECC-1	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Recommend Program Description:		Customer IRR of 8.9%	\$ 1,400,000	\$ 331,000	\$ -	12
The Transmission Asset Management Business Case covers the follow-up work to the Wood Pole Inspection in ER 2057, and Air Switch Replacements in ER 2254.						

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Without replacing old and worn-out poles and cross-arms, our system will be increasing at risk for more failures and more risk of a major fire. As time moves forward, the number of failures and risk of a major fire will increase and increase the difference in costs between the two alternatives.	Higher risk of a transmission line causing a major fire due to pole or crossarm failures	\$ 3,464,530	\$ -	\$ 1,576,000	15
Alternative 1: Brief name of alternative (if applicable)	Replace wood poles and cross-arms identified by inspection and when a significant portion of the transmission line has reached the end of life for the majority of the poles, replace the transmission structures under a larger project. This also covers replacing Transmission Air Switches located outside of the substations that have reached their end of life. For major rebuilds, new conductors would increase the capacity of the system and help reduce transmission losses	Customer IRR of 8.9% and avoids about 580 events per year	\$ 4,205,000	\$ 331,000	\$ -	12
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2014	\$ 1,315,000	\$ 331,823	\$ -	\$ 3,790,000
2015	\$ 1,370,000	\$ 339,455	\$ -	\$ 1,709,455
2016	\$ 1,425,000	\$ 347,262	\$ -	\$ 1,772,262
2017	\$ 1,425,000	\$ 355,249	\$ -	\$ 1,780,249
2018	\$ 1,480,000	\$ 363,420	\$ -	\$ 1,843,420
2019	\$ 1,530,000	\$ 378,117	\$ -	\$ 1,908,117
Total	\$ 8,545,000	\$ 2,115,326	\$ -	\$ 12,803,503

2057	2254

ER	2014	2015	2016	2017	2018	Total	Mandate Excerpt (if applicable):
2057	\$ 1,431,823	\$ 1,489,455	\$ 1,547,262	\$ 1,555,249	\$ 1,613,420	\$ 7,637,209	The majority of this Program is mandated under NERC Standards FAC-501-WECC-1. Failure to comply with standard could result in large financial penalties.
2254	\$ 215,000	\$ 220,000	\$ 225,000	\$ 225,000	\$ 230,000	\$ 1,115,000	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 1,646,823	\$ 1,709,455	\$ 1,772,262	\$ 1,780,249	\$ 1,843,420	\$ 8,752,209	

Additional Justifications:
Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.

Resources Requirements: (request forms and approvals attached)

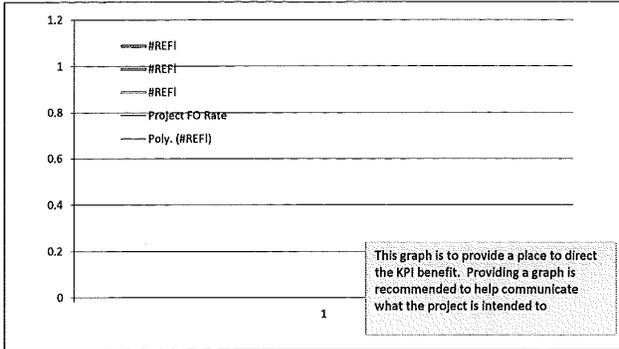
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input checked="" type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)
Expected Performance Improvements
KPI Measure: Fill in the name of the KPI here



Capital Program Business Case



Prepared signature _____

Reviewed signature _____
Director/Manager

Other Party Review signature *Marni Stevens*
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Transmission - NERC Low Priority Mitigation

ER No: 2579 **ER Name:** Low Priority Ratings Mitigation

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 5,500 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	500	-	-	-	-	-	-	-	-	-	-	-	500
2016	2,000	-	-	-	-	-	-	-	-	-	-	-	2,000
2017	3,000	-	-	-	-	-	-	-	-	-	-	-	3,000

Business Case Description:

This program reconfigures insulator attachments, and/or rebuilds existing transmission line structures, or removes earth beneath transmission lines in order to mitigate ratings/sag discrepancies found between "design" and "field" conditions as determined by LiDAR survey data. This program was undertaken in response to the October 7, 2012 North American Electric Reliability Corporations (NERC) "NERC Alert" - Recommendation to Industry, "Consideration of Actual Field Conditions in Determination of Facility Ratings". This Capital Program (ER25xx) covers mitigation work on Avista's "Low Priority" 230kV and 115kV transmission lines. Mitigation brings lines in compliance with the National Electric Safety Code (NESC) minimum clearances values. These code minimums have been adopted into the State of Washington's Administrative Code (WAC).

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	NERC Low Priority Mit
Requested Amount	\$1,500,000
Duration/Timeframe	4 Year Program
Dept., Area:	TLD Engineering
Owner:	Heather Rosentrater
Sponsor:	Don Kopczynski
Category:	Program
Mandate/Reg. Reference:	October 7, 2010 "NERC Alert" w/r Facility Ratings

Assessments:	
Financial:	9.00%
Strategic:	Reliability & Capacity
Business Risk:	Business Risk Reduction >10 and <= 15
Program Risk:	High certainty around cost, schedule and resources

Recommend Program Description:	104	Annual Cost Summary - Increase/(Decrease)			
	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
This program reconfigures insulator attachments, and/or rebuilds existing transmission line structures, or removes earth beneath transmission lines in order to mitigate ratings/sag discrepancies found between "design" and "field" conditions as determined by LiDAR survey data. This program was undertaken in response to the October 7, 2012 North American Electric Reliability Corporation's (NERC) "NERC Alert" - Recommendation to Industry, "Consideration of Actual Field Conditions in Determination of Facility Ratings". This Capital Program (ER25xx) covers mitigation work on Avista's "Low Priority" 230kV and 115kV transmission lines. Mitigation brings lines in compliance with the National Electric Safety Code (NESC) minimum clearances values. These code minimums have been adopted into the State of Washington's Administrative Code (WAC).	Regulatory compliance, upgraded facilities, greater clearance, and (in some cases) greater load capabilities.	\$ 1,500,000	\$ -	\$ -	1
Annual Cost Summary - Increase/(Decrease)					

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	The unfunded ("do nothing") approach would place Avista at odds with NERC recommendations, and increase the potential for large fines for any outage and/or incident connected with line clearance. Additionally, failure to mitigate would place Avista in violation of NESC code standards and the WAC.	Relatively high probability of fines and legal action against Avista.	\$ -	\$ -	\$ -	16
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	1
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ -	\$ -	\$ -	\$ -
2014	\$ 250,000	\$ -	\$ -	\$ 1,190,000
2015	\$ 500,000	\$ -	\$ -	\$ 500,000
2016	\$ 2,500,000	\$ -	\$ -	\$ 2,000,000
2017	\$ 2,500,000	\$ -	\$ -	\$ 3,000,000
Total	\$ 5,750,000	\$ -	\$ -	\$ 6,690,000

Associated Ers (list all applicable):			
2579			

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
2579	\$ -	\$ 250,000	\$ 500,000	\$ 2,500,000	\$ 2,500,000	\$ 5,750,000	Regulatory: Specific transmission lines require modification/rebuild for increased line clearance. Risk Management: Specific transmission lines require rebuild to reduce potential public injury risks.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	\$ 250,000	\$ 500,000	\$ 2,500,000	\$ 2,500,000	\$ 5,750,000	

Additional Justifications:
Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.

Resources Requirements: (request forms and approvals attached)

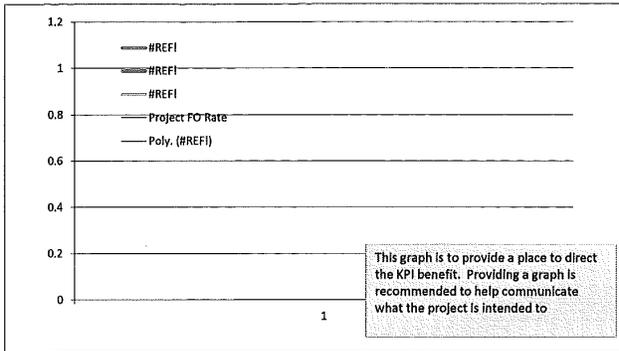
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input checked="" type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Facilities:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
				Fleet:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required

Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)
Expected Performance Improvements



Capital Program Business Case



Prepared signature _____

Reviewed signature _____
Director/Manager

Other Party Review signature *Margie Stevens*
(if necessary) Director/Manager

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group		Review Cycles	
Rationale for decision	2012-2016		
	Date	Template	

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Transmission - NERC Medium Priority Mitigation

ER No: 2581 **ER Name:** Medium Priority Ratings Mitigation

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 5,545 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	3,294	-	-	-	-	-	-	-	-	-	-	-	3,294
2016	2,251	-	-	-	-	-	-	-	-	-	-	-	2,251
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

This program reconfigures insulator attachments, and/or rebuilds existing transmission line structures, or removes earth beneath transmission lines in order to mitigate ratings/sag discrepancies found between "design" and "field" conditions as determined by LiDAR survey data. This program was undertaken in response to the October 7, 2012 North American Electric Reliability Corporations (NERC) "NERC Alert" - Recommendation to Industry, "Consideration of Actual Field Conditions in Determination of Facility Ratings". This Capital Program (ER2581) covers mitigation work on Avista's "Medium Priority" 230kV and 115kV transmission lines, including North Lewiston-Shawnee 230kV, Beacon-Bell #4 230kV, Beacon-Bell #5 230kV, Noxon-Hot Springs #2 230kV, Beacon-Boulder #2 115kV, Beacon-Francis & Cedar 115kV, 9th & Central-Otis 115kV, Northwest-Westside 115kV, Dry Creek-Talbot 230kV, Walla Walla-Wanapum 230kV, Benewah-Moscow 230kV, Devils Gap-Stratford 115kV. Mitigation brings lines in compliance with the National Electric Safety Code (NESC) minimum clearances values. These code minimums have been adopted into the State of Washington's Administrative Code (WAC).

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Program Business Case

Investment Name:	NERC Med Priority Mit	Assessments:	
Requested Amount	\$2,500,000	Financial:	9.00%
Duration/Timeframe	2 Year Program	Strategic:	Reliability & Capacity
Dept., Area:	TLD Engineering	Business Risk:	Business Risk Reduction >10 and <= 15
Owner:	Heather Rosentrater	Program Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski		
Category:	Program		
Mandate/Reg. Reference:	October 7, 2010 "NERC Alert" w/r Facility Ratings	Assessment Score:	104
Recommend Program Description:		Annual Cost Summary - Increase/(Decrease)	
This program reconfigures insulator attachments, and/or rebuilds existing transmission line structures, or removes earth beneath transmission lines in order to mitigate ratings/sag discrepancies found between "design" and "field" conditions as determined by LIDAR survey data. This program was undertaken in response to the October 7, 2012 North American Electric Reliability Corporation (NERC) "NERC Alert" - Recommendation to Industry, "Consideration of Actual Field Conditions in Determination of Facility Ratings". This Capital Program (ER25xx) covers mitigation work on Avista's "Medium Priority" 230kV and 115kV transmission lines, including North Lewiston-Shawnee 230kV, Beacon-Bell #4 230kV, Beacon-Bell #5 230kV, Noxon-Hot Springs #2 230kV, Beacon-Boulder #2 115kV, Beacon-Francis & Cedar 115kV, 9th & Central-Otis 115kV, Northwest-Westside 115kV, Dry Creek-Talbot 230kV, Walla Walla-Wanapum 230kV, Benewah-Moscow 230kV, Devils Gap-Stratford 115kV. Mitigation brings lines in compliance with the National Electric Safety Code (NESC) minimum clearances values. These code minimums have been adopted into the State of Washington's Administrative Code (WAC).		Performance	Capital Cost
		Regulatory compliance, upgraded facilities, greater clearance, and (in some cases) greater load capabilities.	\$ 2,500,000
			O&M Cost
			\$ -
			Other Costs
			\$ -
			Business Risk Score
			1

Alternatives:		Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
			Capital Cost	O&M Cost	Other Costs	
Unfunded Program:	The unfunded ("do nothing") approach would place Avista at odds with NERC recommendations, and increase the potential for large fines for any outage and/or incident connected with line clearance. Additionally, failure to mitigate would place Avista in violation of NESC code standards and the WAC.	Relatively high probability of fines and legal action against Avista.	\$ -	\$ -	\$ -	16
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	1
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ -	\$ -	\$ -	\$ -
2014	\$ 1,693,000	\$ -	\$ -	\$ 1,731,000
2015	\$ 3,294,000	\$ -	\$ -	\$ 3,294,000
2016	\$ -	\$ -	\$ -	\$ 2,251,000
2017	\$ -	\$ -	\$ -	\$ -
Total	\$ 4,987,000	\$ -	\$ -	\$ 7,276,000

Associated Ers (list all applicable):	
2581	

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
2581	\$ -	\$ 1,693,000	\$ 3,294,000	\$ -	\$ -	\$ 4,987,000	Regulatory: Specific transmission lines require modification/rebuild for increased line clearance. Risk Management: Specific transmission lines require rebuild to reduce potential public injury risks.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	\$ 1,693,000	\$ 3,294,000	\$ -	\$ -	\$ 4,987,000	Additional Justifications: Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability
 Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required
 Facilities: YES - attach form NO or Not Required
 Capital Tools: YES - attach form NO or Not Required
 Fleet: YES - attach form NO or Not Required

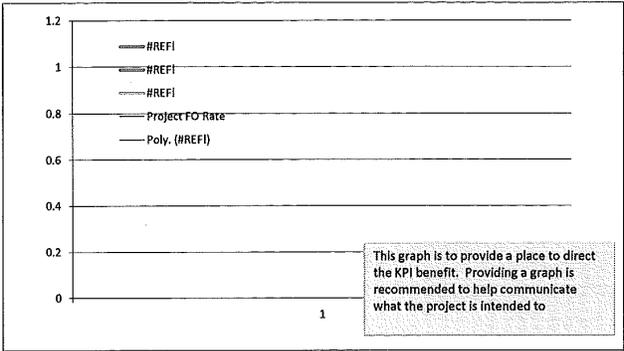
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

Key Performance Indicator(s)
Expected Performance Improvements



Capital Program Business Case

Fill in the name of the KPI here



Prepared signature

Reviewed signature Director/Manager

Other Party Review signature (if necessary) Director/Manager
Margie Stevens

This space is to be used for photographs, charts, or other data that may be useful in evaluating the Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: SCADA - System Operations & Backup Control Center

ER No: 2277
ER Name: SCADA Upgrade

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$3,066 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	1,020	85	85	85	85	85	85	85	85	85	85	85	85
2016	1,002	83	83	84	83	83	84	83	83	84	83	83	84
2017	1,044	87	87	87	87	87	87	87	87	87	87	87	87

Business Case Description:

This program replaces and/or upgrades existing electric and gas control center telecommunications and computing systems as they reach the end of their useful lives, require increased capacity, or cannot accommodate necessary equipment upgrades due to existing constraints. Included are hardware, software, and operating system upgrades, as well as deployment of capabilities to meet new operational standards and requirements. Some system upgrades may be initiated by other requirements, including NERC reliability standards, growth, and external projects (e.g. Smart Grid). Examples of upgrades to be completed under this program are Critical Infrastructure Protection version 5 (NERC requirement), Gas Control Room Management (PHMSA requirement), WECC RC Advanced Applications, and Technology Refresh (network and storage).

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

Capital Program Business Case



Investment Name:	SCADA - SOO and BUCC
Requested Amount	Average capital amt 2013-18 is \$986,500
Duration/Timeframe	20 Year Program
Dept., Area:	T&D - SCADA - System Operations
Owner:	Craig Figart/Brad Calbick/Heather Rosenfrater
Sponsor:	Don Koczynski
Category:	Program
Mandate/Reg. Reference:	WECC/NERC/FERC

Assessments:	7.00%
Financial:	Reliability & capacity
Strategic:	Business Risk Reduction >5 and <= 10
Business Risk:	High certainty around cost, schedule and resources
Program Risk:	
Assessment Score:	81

Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Capital Cost	O&M Cost	Other Costs	
Improved performance, upgraded equipment, better status & control, new life cycle.	\$ 1,036,000	\$ 473,926	\$ -	2

Recommend Program Description:
 This program replaces and/or upgrades existing electric and gas control center telecommunications and computing systems as they reach the end of their useful lives, require increased capacity, or cannot accommodate necessary equipment upgrades due to existing constraints. Included are hardware, software, and operating system upgrades, as well as deployment of capabilities to meet new operational standards and requirements. Some system upgrades may be initiated by other requirements, including NERC reliability standards, growth, and external projects (e.g. Smart Grid). Examples of upgrades to be completed under this program are Critical Infrastructure Protection version 5 (NERC requirement), Gas Control Room Management (PHMSA requirement), WECC RC Advanced Applications, and Technology Refresh (network and storage).

Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Capital Cost	O&M Cost	Other Costs	
Severe negative system reliability and compliance describe any incremental changes in operations	\$ -	\$ 100,000	\$ 500,000	12
describe any incremental changes in operations	\$ -	\$ -	\$ -	2
describe any incremental changes in operations	\$ -	\$ -	\$ -	0
describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Alternatives:

Unfunded Program: Non-compliant operational capabilities and practices would result in negative audit findings, financial penalties, and litigation expenses. Obsolete equipment would remain in service until failure. Additional capacity for growth may or may not be suitable for required expansions to meet other (e.g. Regulatory, SGIG) needs.

Alternative 1: Brief name of alternative (if applicable)
 Describe other options that were considered

Alternative 2: Brief name of alternative (if applicable)
 Describe other options that were considered

Alternative 3 Name: Brief name of alternative (if applicable)
 Describe other options that were considered

Program Cash Flows			
	Capital Cost	O&M Cost	Other Costs
Previous	\$ -	\$ -	\$ -
2014	\$ 1,090,500	\$ -	\$ -
2015	\$ 1,020,000	\$ 473,926	\$ -
2016	\$ 1,002,000	\$ 487,158	\$ -

Associated Ers (list all applicable):			
	Capital Cost	O&M Cost	Approved
2277			

Capital Program Business Case



2017	\$ 1,044,000	\$ 503,915	\$ -	\$ -	\$ 1,044,000
2018	\$ 920,000	\$ 518,323	\$ -	\$ -	\$ 920,000
2019	\$ 1,013,000	\$ 533,317	\$ -	\$ -	\$ 1,013,000
2020+	\$ 920,000	\$ 548,312	\$ -	\$ -	\$ -
Total	\$ 7,009,500	\$ 3,064,951	\$ -	\$ -	\$ 6,027,500

ER	2015	2016	2017	2018	2019	Total	Mandate Excerpt (if applicable):
2277	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	<p>NERC reliability standards are being continually changed. New and changed standards are expected which will address emergency operations, transmission operations, critical infrastructure protection, communications, and balancing authority operations. Gas Control Room Management</p> <p>Additional Justifications: This program replaces and/or upgrades existing control center telecommunications and computing systems for a number of reasons including, end of useful life, increased capacity requirements, and new operational and regulatory requirements. Cuts to this program need to be closely evaluated to assure that reliable and compliant operations are not impacted.</p>
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -						

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: Low Probability Medium Probability High Probability

Contract Labor: YES NO

Enterprise Tech: YES - attach form NO or Not Required

Facilities: YES - attach form NO or Not Required

Capital Tools: YES - attach form NO or Not Required

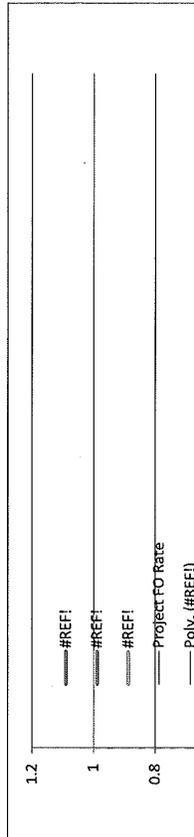
Fleet: YES - attach form NO or Not Required

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: _____ Fill in the name of the KPI here

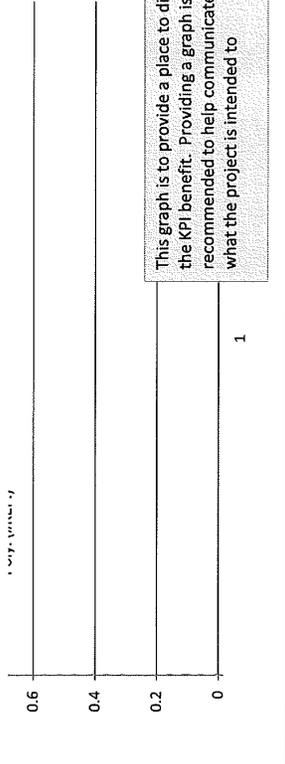
_____ Fill in the name of the KPI here



Prepared signature

Reviewed signature

Director/Manager



This graph is to provide a place to direct the KPI benefit. Providing a graph is recommended to help communicate what the project is intended to

Other Party Review signature Maggi Stevens
 (if necessary) Director/Manager

Variable	Unit	Min	Max
1.1	Hz	59.5	60.5
1.2	Hz	59.5	60.5
1.3	Hz	59.5	60.5
1.4	Hz	59.5	60.5
1.5	Hz	59.5	60.5
1.6	Hz	59.5	60.5
1.7	Hz	59.5	60.5
1.8	Hz	59.5	60.5
1.9	Hz	59.5	60.5
1.10	Hz	59.5	60.5
1.11	Hz	59.5	60.5
1.12	Hz	59.5	60.5
1.13	Hz	59.5	60.5
1.14	Hz	59.5	60.5
1.15	Hz	59.5	60.5
1.16	Hz	59.5	60.5
1.17	Hz	59.5	60.5
1.18	Hz	59.5	60.5
1.19	Hz	59.5	60.5
1.20	Hz	59.5	60.5
1.21	Hz	59.5	60.5
1.22	Hz	59.5	60.5
1.23	Hz	59.5	60.5
1.24	Hz	59.5	60.5
1.25	Hz	59.5	60.5
1.26	Hz	59.5	60.5
1.27	Hz	59.5	60.5
1.28	Hz	59.5	60.5
1.29	Hz	59.5	60.5
1.30	Hz	59.5	60.5
1.31	Hz	59.5	60.5
1.32	Hz	59.5	60.5
1.33	Hz	59.5	60.5
1.34	Hz	59.5	60.5
1.35	Hz	59.5	60.5
1.36	Hz	59.5	60.5
1.37	Hz	59.5	60.5
1.38	Hz	59.5	60.5
1.39	Hz	59.5	60.5
1.40	Hz	59.5	60.5
1.41	Hz	59.5	60.5
1.42	Hz	59.5	60.5
1.43	Hz	59.5	60.5
1.44	Hz	59.5	60.5
1.45	Hz	59.5	60.5
1.46	Hz	59.5	60.5
1.47	Hz	59.5	60.5
1.48	Hz	59.5	60.5
1.49	Hz	59.5	60.5
1.50	Hz	59.5	60.5
1.51	Hz	59.5	60.5
1.52	Hz	59.5	60.5
1.53	Hz	59.5	60.5
1.54	Hz	59.5	60.5
1.55	Hz	59.5	60.5
1.56	Hz	59.5	60.5
1.57	Hz	59.5	60.5
1.58	Hz	59.5	60.5
1.59	Hz	59.5	60.5
1.60	Hz	59.5	60.5
1.61	Hz	59.5	60.5
1.62	Hz	59.5	60.5
1.63	Hz	59.5	60.5
1.64	Hz	59.5	60.5
1.65	Hz	59.5	60.5
1.66	Hz	59.5	60.5
1.67	Hz	59.5	60.5
1.68	Hz	59.5	60.5
1.69	Hz	59.5	60.5
1.70	Hz	59.5	60.5
1.71	Hz	59.5	60.5
1.72	Hz	59.5	60.5
1.73	Hz	59.5	60.5
1.74	Hz	59.5	60.5
1.75	Hz	59.5	60.5
1.76	Hz	59.5	60.5
1.77	Hz	59.5	60.5
1.78	Hz	59.5	60.5
1.79	Hz	59.5	60.5
1.80	Hz	59.5	60.5
1.81	Hz	59.5	60.5
1.82	Hz	59.5	60.5
1.83	Hz	59.5	60.5
1.84	Hz	59.5	60.5
1.85	Hz	59.5	60.5
1.86	Hz	59.5	60.5
1.87	Hz	59.5	60.5
1.88	Hz	59.5	60.5
1.89	Hz	59.5	60.5
1.90	Hz	59.5	60.5
1.91	Hz	59.5	60.5
1.92	Hz	59.5	60.5
1.93	Hz	59.5	60.5
1.94	Hz	59.5	60.5
1.95	Hz	59.5	60.5
1.96	Hz	59.5	60.5
1.97	Hz	59.5	60.5
1.98	Hz	59.5	60.5
1.99	Hz	59.5	60.5
2.00	Hz	59.5	60.5

Transmission Operations – Certified System Operators monitor system conditions round-the-clock. They perform switching operations, maintain system voltage, and respond to abnormal conditions. Constant communication occurs with neighboring systems and regional authorities to assure system reliability. Operators are trained to respond to emergency situations such as black start restoration, load shedding, disturbance response, and activation of the Backup Control Center.

Balancing Authority – To maintain the balance between load, interchange, and generation, automated calculations occur every four seconds which determine our megawatt obligation based on our customer load, contracted purchase & sales, and the system frequency at that instant. Controls are automatically issued to generators to adjust generation to meet our obligation. Control algorithms are optimized to minimize

Critical Infrastructure Protection – Numerous protection measures are deployed to protect critical systems from unauthorized physical and electronic access. NERC standards have 43 requirements regarding protection of critical infrastructure. Onerous audits are performed every 3 years. Potentially significant financial penalties result from any instances of non-

Printed: 11-05-2014
 C:\Users\19457\Desktop\Business Cases\SCADA - SOO and BUCC

Page 3 of 4

Exhibit No. 11
 Case Nos. AVU-E-15-05 and AVU-G-15-01
 K. Schuh, Avista
 Schedule 3, Page 287 of 295



Capital Program Business Case

To be completed by Capital Planning Group
Rationale for decision

Review Cycles
2012-2016

Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: South Region Voltage Control

ER No: 2580 **ER Name:** South Region Transmission Voltage Control

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 4,900 ¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	4,900	-	-	-	-	-	-	4,900	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

Avista's south region 230 kV transmission lines, primarily around Lewiston-Clarkston, experience excessive high voltage during light load periods. Voltages exceed equipment ratings over 35% of the time. Operation of equipment outside of equipment ratings imposes potential legal and regulatory risks to the Company on top of increasing large scale outage possibilities. The ability to control MVAR flow at our BPA interconnection will also reduce power factor penalty charges. The expected IRR, including effects, is 6.38%. With automatic control, existing overvoltages can be reduced, if not eliminated, on the 230kV buses at Dry Creek, Lolo, and N.Lewiston, as well as Moscow and Shawnee.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	S. Region Voltage Ctrl	Assessments:	
Requested Amount:	\$5,500,000	Financial:	7.00%
Duration/Timeframe:	2 Year Project	Strategic:	Life-cycle asset management
Dept., Area:	Substation Engineering	Business Risk:	Business Risk Reduction >5 and <= 10
Owner:	Heather Rosentrater	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski	Assessment Score:	94
Category:	Project	Annual Cost Summary - Increase/(Decrease)	
Mandate/Reg. Reference:	n/a	Performance	Capital Cost

Recommend Project Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Avista's south region 230 kV, primarily around Lewiston-Clarkston, experiences excessive high voltage during light load periods. Voltages exceed equipment ratings over 35% of the time. Operation of equipment outside of equipment ratings imposes potential legal and regulatory risks to the Company on top of increasing large scale outage possibilities. The ability to control MVAR flow at our BPA interconnection will also reduce power factor penalty charges. The expected IRR, including effects, is 6.38%. With automatic control, existing overvoltages can be reduced, if not eliminated, on the 230kV buses at Dry Creek, Lolo, and N.Lewiston, as well as Moscow and Shawnee.	Control of overvoltages in the south region	\$ 5,702,511	\$ 13,809	\$ 351,822	4

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	n/a	\$ 438,469	\$ 55,526	\$ 361,996	12
Alternative 1: South region reactor station	Capability to compensate for transmission capacitance	\$ 5,702,511	\$ 13,809	\$ 351,822	4
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	\$ -	\$ -	\$ -	0

Program Cash Flows	Capital Cost	O&M Cost	Other Costs	Approved	Associated Ers (list all applicable):
Previous	\$ -	\$ -	\$ -	\$ -	2580
2013	\$ -	\$ -	\$ -	\$ -	
2014	\$ 3,500,000	\$ -	\$ -	\$ -	
2015	\$ 2,000,000	\$ -	\$ -	\$ 900,000	
2016	\$ -	\$ -	\$ -	\$ 4,000,000	
2017+	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	\$ -	\$ -	\$ 4,900,000	

ER	2013	2014	2015	2016	2017+	Total	Mandate Excerpt (if applicable):
2580	\$ -	\$ 3,500,000	\$ 2,000,000	\$ -	\$ -	\$ 5,500,000	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Additional Justifications: Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	\$ 3,500,000	\$ 2,000,000	\$ -	\$ -	\$ 5,500,000	

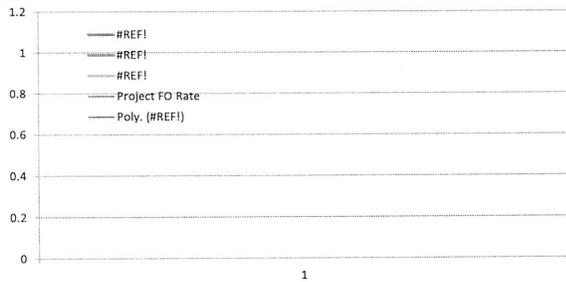
Milestones (high level targets)	January-00	open	January-00	open	January-00	open	Milestones should be general. Use your judgement on project progress so that progress can
	January-00	open	January-00	open	January-00	open	
	January-00	open	January-00	open	January-00	open	
	January-00	open	January-00	open	January-00	open	
	January-00	open	January-00	open	January-00	open	
	January-00	open	January-00	open	January-00	open	

Resources Requirements: (request forms and approvals attached)	Internal Labor Availability:	Contract Labor:	Enterprise Tech:	Facilities:	Capital Tools:	Fleet:
	<input type="checkbox"/> Low Probability <input checked="" type="checkbox"/> Medium Probability <input type="checkbox"/> High Probability	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	<input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	<input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required	<input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: South region 230kV buses are not to exceed overvoltage, with the reactors in service and under automatic control
 230kV bus overvoltage monitor



Prepared _____
 Mike Magruder, T&D - Substation Engineering Mgr.

Reviewed _____
 Heather Rosentrater, Director - ENSO

Other Party Review (if necessary) Marquie Stevens
 Director/Manager

Reference Document: April 9, 2013 Memo from Dean Spratt/Rip Divis to Substation Engineering
 Reference Document: July 3, 2013 South Region Reactor Study Presentation from Rob Gray

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES
2015-2017 CAPITAL PROJECTS**

Functional Group: Electric Transmission / Distribution

Business Case Name: Westside Rebuild Phase One

ER No: 2531 **ER Name:** Purchase Westside Property

Approved Business Case Spend Amount 2015-2017 (\$000s - System): \$ 1,750¹

Transfer to Plant Amounts (\$000s - System):

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	1,780	-	-	-	-	-	-	-	-	-	-	1,780	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-

Business Case Description:

This business case is for the purchase of property at Westside. The purchase was made for the anticipated reconstruction of the existing 115 kV and 230/115 kV Autotransformer bus arrangement anticipated to being in 2017 or 2018.

Offsets:

There are no anticipated offsets with this business case.

¹ The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.



Capital Project Business Case

Investment Name:	Westside Rebuild One	Assessments:				
Requested Amount	\$2,800,000	Financial:	7.00%			
Duration/Timeframe	2 Year Project	Strategic:	Life-cycle asset management			
Dept., Area:	T&D - Substations/Transmission	Business Risk:	Business Risk Reduction >5 and <= 10			
Owner:	Heather Rosentrater	Project Risk:	High certainty around cost, schedule and resources			
Sponsor:	Don Kopczynski	Assessment Score:	94			
Category:	Project	Annual Cost Summary - Increase/(Decrease)				
Mandate/Reg. Reference:	n/a	Capital Cost	O&M Cost			
Recommend Project Description:		Other Costs	Business Risk Score			
Phase I: Extend the existing Westside Substation 115 kV and 230 kV buses to allow for a new 250 MVA Autotransformer 3 installation to eliminate overloads for credible bus outages and tie breaker failure contingencies in the Spokane area. Phase II: Replace Autotransformer 1 with a new 250 MVA unit and remove Autotransformer 2 when the new unit is installed. Phase III: Continue extension of the 230 kV yard to double-breaker, double-bus configuration and review design alternatives for the 115 kV configuration to either breaker-and-a-half or double-breaker, double-bus.		Improved performance, upgraded equipment, better status & control, new life cycle.	\$ 2,800,000	\$ -	\$ -	1

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Project:	Outages causing loss of 230/115 kV transformer at Bell or Beacon Stations cause the Westside #1 & #2 230/115 kV Transformers to exceed their facility ratings. The overload mitigation may require the shedding of load to maintain an acceptable operating condition.	n/a	\$ 120,000	\$ 75,000	\$ -	10
Alternative 1: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	1
Alternative 2: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
Alternative 3 Name: Brief name of alternative (if applicable)	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows						Associated Ers (list all applicable):			
	Capital Cost	O&M Cost	Other Costs	Approved					
Previous	\$ -	\$ -	\$ -	\$ -					
2013	\$ -	\$ -	\$ -	\$ -					
2014	\$ -	\$ -	\$ -	\$ -					
2015	\$ 1,000,000	\$ -	\$ -	\$ 750,000					
2016	\$ 1,800,000	\$ -	\$ -	\$ 1,000,000					
2017	\$ -	\$ -	\$ -	\$ -					
2018	\$ -	\$ -	\$ -	\$ -					
2019	\$ -	\$ -	\$ -	\$ -					
Total	\$ 2,800,000	\$ -	\$ -	\$ 1,750,000					

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
2531	\$ -	\$ -	\$ 1,000,000	\$ 1,800,000	\$ -	\$ 2,800,000	Completion of Phase I of the Project will eliminate overload of the existing Autotransformers under certain contingencies. This will meet our Compliance obligations to not exceed facility ratings.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	\$ -	\$ 1,000,000	\$ 1,800,000	\$ -	\$ 2,800,000	Additional Justifications: Analysis of the Spokane Area Transmission System is documented in the Spokane Area Regional Assessment identifying several performance issues in the five and ten year planning horizon. The observed overloads occur in the 2014 base cases making the issues an operations concern. Westside #1 230/115 kV Transformer will overload by 2017 for an outage of Westside #2 230/115 kV Transformer.

Milestones (high level targets)						
January-15	Sub Design Begins	September-16	Receive new Auto 3 on Pad	January-00	open	Milestones should be general. Use your judgement on project progress so that progress can
August-15	Grading, grounding, fence	October-16	Test, Commission, Energize	January-00	open	
October-15	Start Foundations/Steel	January-00	open	January-00	open	
January-16	XFMR Relaying/Indication/Control	January-00	open	January-00	open	
April-16	Begin buswork & breaker installs	January-00	open	January-00	open	
May-16	Install Foundation for Auto 3	January-00	open	January-00	open	

Resources Requirements: (request forms and approvals attached)						
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
	<input type="checkbox"/> YES			Capital Tools:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
					<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required



Capital Project Business Case

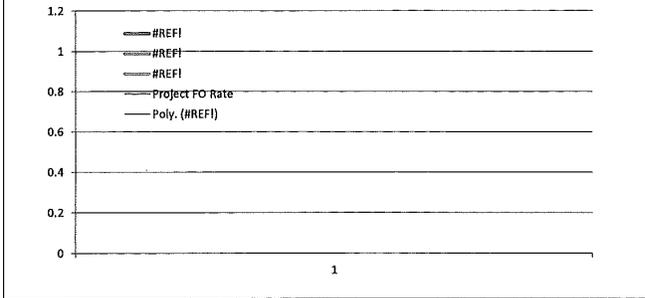
YES - attach form

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: Fill in the name of the KPI here

Fill in the name of the KPI here



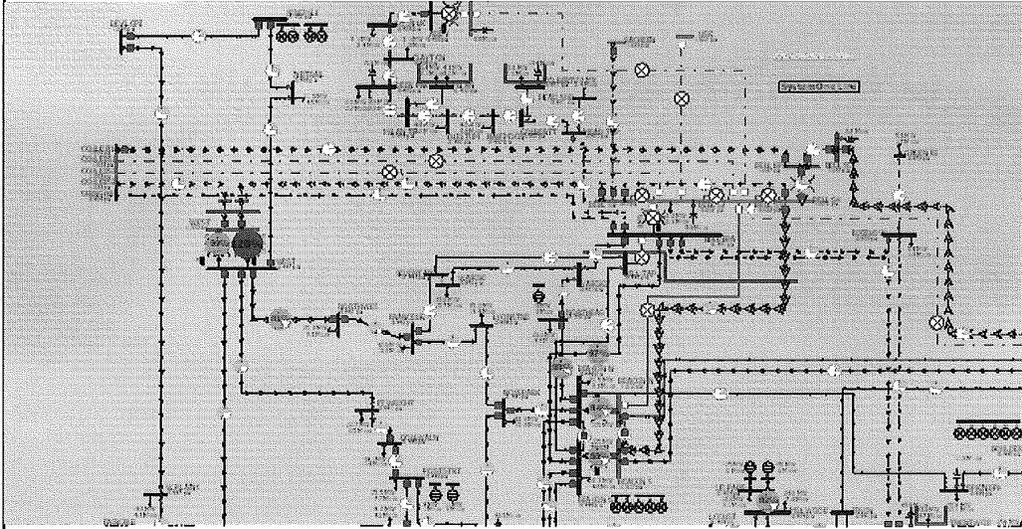
Prepared Mike Magruder - Substation Engineering Manager

Reviewed Heather Rosentrater - Director - ENSO

Other Party Review (if necessary) Andy Vickers - Director - GPSS

Margie Stevens

Below is a visual of the Westside autotransformer overload for a Bell 230 kV bus tie failure.



To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template