

# **ATTACHMENT 3**

## **BUSINESS CASES**



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

<u>Exhibit No. ____ (KKS- 5)</u>		<u>\$ (000's)</u>
<u>Attachment No.</u>		
	<b>Generation / Production:</b>	
GP-1	Hydro - Base Load Hydro	\$ 1,149
GP-2	Hydro - Clark Fork Settlement Agreement	13,988
GP-3	Hydro - Generation Battery Replacement	250
GP-4	Hydro - Hydro Safety Minor Blanket	70
GP-5	Hydro - Little Falls Plant Upgrade	14,300
GP-6	Hydro - Nine Mile Rehab	51,323
GP-7	Hydro - Regulating Hydro	4,136
GP-8	Hydro - Spokane River License Implementation	462
GP-9	Other - Base Load Thermal Plant	2,200
GP-10	Other - Peaking Generation	500
GP-12	Thermal - Colstrip Thermal Capital	2,497
GP-14	Hydro - Noxon Spare Coils	1,350
GP-15	Hydro - Post Falls South Channel Replacement	11,008
GP-16	Hydro - Cabinet Gorge Unit 1 Refurbishment	11,400
		<u>\$ 114,633</u>
	<b>General:</b>	
G-1	Capital Tools & Stores Equipment	\$ 2,348
G-2	COF Long-Term Restructuring Plan	8,500
G-4	Structures and Improvements/Furniture	4,600
G-5	Battery Storage	2,063
G-6	Apprentice Training	60
G-7	HVAC Renovation Project	9,250
G-9	New Deer Park Service Center	2,750
G-10	COF Long-term Restructure Ph2	2,000
		<u>\$ 31,571</u>
	<b>Natural Gas Distribution:</b>	
NGD-1	Aldyl A Replacement	\$ 16,817
NGD-2	Cathodic Protection	950
NGD-3	Gas Non-Revenue Program	7,664
NGD-4	Gas Reinforcement	1,000
NGD-5	Gas Replacement Street & Highway	4,500
NGD-6	Gas Telemetry	400
NGD-7	Isolated Steel Replacement	3,450
NGD-8	Overbuilt Pipe Replacement	900
NGD-9	Regulator Station Reliability Replacement	800
NGD-10	Replace Deteriorating Steel Gas Systems	1,000
NGD-12	Gas PMC Program - Capital Replacements	1,030
NGD-13	Goldendale HP	3,505
NGD-15	ERTs Replacement Program	402
		<u>\$ 42,418</u>
	<b>Gas Underground Storage:</b>	
GUS-1	Jackson Prairie Storage	\$ 1,356
		<u>\$ 1,356</u>
	<b>Transportation:</b>	
T-1	Fleet Budget	\$ 7,700
		<u>\$ 7,700</u>

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

Exhibit No. ____ (KKS- 5)	Attachment No.	\$ (000's)
<b>Enterprise Technology:</b>		
ET-1	AvistaUtilities.com and AvaNet Redesign	\$ 4,125
ET-2	Enterprise Business Continuity Plan	450
ET-3	Mobility in the Field	450
ET-4	Technology Refresh to Sustain Business Process	18,595
ET-5	Customer Information and Work & Asset Management System	95,108
ET-6	Enterprise Security	3,800
ET-7	Technology Expansion to Enable Business Process	6,069
ET-9	High Voltage Protection Upgrade	719
ET-10	Next Generation Radio Refresh	4,200
ET-11	Microwave Refresh	2,363
		<b>\$ 135,879</b>
<b>Electric Transmission / Distribution:</b>		
		<b>Total Transmission &amp; Distribution</b>
		<b>Transmission    Distribution</b>
ETD-1	Colstrip Transmission/PNACI	\$ 491    \$ -    \$ 491
ETD-2	Distribution Grid Modernization	10,925    10,925
ETD-3	Distribution Line Protection	125        125
ETD-4	Distribution Minor Rebuild	8,300     8,300
ETD-5	Distribution Transformer Change-Out Program	4,700     4,700
ETD-6	Distribution Wood Pole Management	11,000    11,000
ETD-7	Meter Minor Blanket	5,806     5,806
ETD-8	Electric Replacement/Relocation	2,400     2,400
ETD-9	Environmental Compliance	350        150    500
ETD-10	Primary URD Cable Replacement	1,000     1,000
ETD-11	Reconductors and Rebuilds	11,763     2,500    14,263
ETD-12	Segment Reconductor and FDR Tie Program	2,920     2,920
ETD-13	Spokane Electric Network	2,300     2,300
ETD-14	Storms	1,000     2,000    3,000
ETD-15	Substation - 115 kV Line Relay Upgrades	1,525            1,525
ETD-16	Substation - Asset Mgmt. Capital Maintenance	1,200     1,508    2,708
ETD-17	Substation - Capital Spares	3,900     1,200    5,100
ETD-18	Substation - Distribution Station Rebuilds	275        2,112    2,387
ETD-19	Substation - New Distribution Stations	2,026            2,026
ETD-20	Tribal Permits and Settlements	1,430            1,430
ETD-21	Worst Feeders	1,999    1,999
ETD-22	Spokane Valley Transmission Reinforcement	2,900            2,900
ETD-23	Clearwater Sub Upgrades	500            500
ETD-24	Franchising for WSDOT	427        427
ETD-25	Harrington 4 kV Cutover	2,025    2,025
ETD-28	Transmission - Asset Management	1,709            1,709
ETD-30	Transmission - NERC Low Priority Mitigation	500            500
ETD-31	Transmission - NERC Medium Priority Mitigation	3,294            3,294
ETD-32	SCADA - SOO & BUCC	1,020     1,020
ETD-34	Noxon Switchyard Rebuild	8,325            8,325
ETD-35	Street Light Management	1,500    1,500
		<b>\$ 40,183    \$ 66,924    \$ 107,107</b>
<b>Total Non-Revenue Capital</b>		<b>\$ 440,664</b>
Growth/Revenue - Producing		<b>\$ 31,343</b>
<b>Total Idaho/Oregon Direct Capital Additions 2015</b>		<b>\$ 7,990</b>
<b>Total Capital Additions in 2015</b>		<b>\$ 479,996</b>

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Generation / Production

**Business Case Name:** Base Load Hydro

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

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$3,447<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,126	-	-	-	-	-	-	-	-	-	110	16	1,000
2015	1,149	-	-	-	-	-	-	-	-	-	-	-	1,149
2016	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.

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



Capital Program Business Case

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

Recommend Program Description:	#NAME?	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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	Performance This program would systematically upgrade various equipment to improve	\$ 800,000	\$ -	\$ -	6

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
<b>Unfunded Program:</b> Current Unit availability has been declining over the past several years (see graph below). Status quo would anticipate a continuation of this general decline. This is due to the relative lower priority of these plants when contrasted to other generating assets.	n/a	\$ 450,000	\$ -	\$ -	16
<b>Alternative 1: Brief name of alternative (if applicable)</b> Fund this program at something above the historical amount would result in some improvement but would continue the declining rate of availability	anticipate a slowing trend change	\$ 650,000	\$ -	\$ -	6
<b>Alternative 2: Brief name of alternative (if applicable)</b> Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name : Brief name of alternative (if applicable)</b> 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	\$ -	\$ -	\$ -	\$ -
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

2020+	\$ 4,000,000	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 9,200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,894,000</b>

ER	2015	2016	2017	2018	2019	Total
4147	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 4,000,000
4106	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4004	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4117	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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<b>Total</b>	<b>\$ 800,000</b>	<b>\$ 800,000</b>	<b>\$ 800,000</b>	<b>\$ 800,000</b>	<b>\$ 800,000</b>	<b>\$ 4,000,000</b>

**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 historical availability for the base load hydro plants has been declining over the past ten years due to deteriorating equipment and a need to replace some equipment and systems that are very old. The age of these plants (Post Falls 105 yrs old, Nine Mile 103 years old, and Upper Falls 90 years old) also create some issues due to the band aid investments that have been made over the years to address immediate problems rather than a programmatic approach as indicated by this program.

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

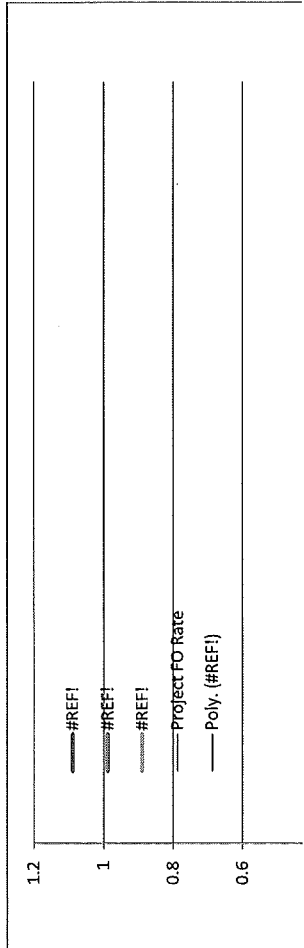
Internal Labor Availability:  Low Probability  Medium Probability  High Probability  
 Contract Labor:  YES  NO

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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Reviewed signature \_\_\_\_\_ Director/Manager

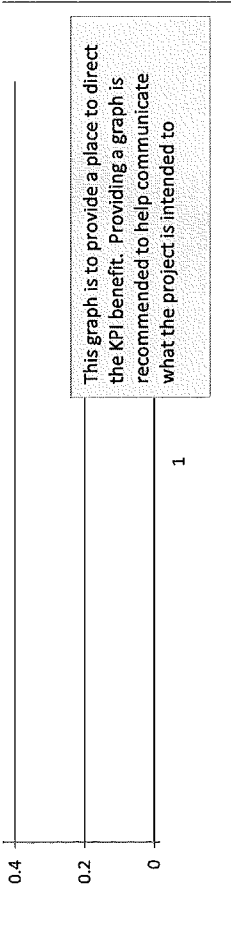
Other Party Review signature \_\_\_\_\_  
*Margi Stevens*

Capital Program Business Case



Director/Manager

(if necessary)



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  
2014-2016 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 2014-2016 (\$000s - System): \$33,564<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	8,002	-	-	-	-	-	-	-	-	-	2	-	8,000
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

**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.

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



Investment Name:	<b>Clark Fork Settlement Agreement</b>	Assessments:	
Requested Amount	<b>\$12,569,817</b>	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:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
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.		\$ 12,569,817	\$ -	\$ -	4

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	If the PM&Es 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

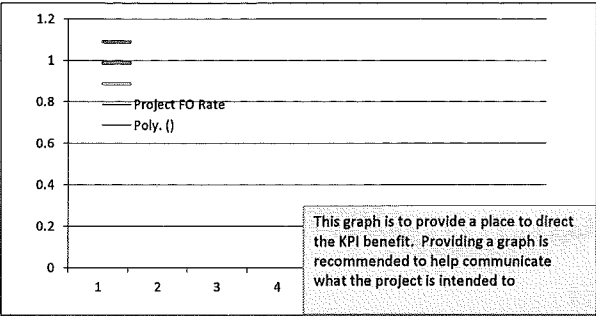
ATTACHMENT 3  
Exhibit No. \_\_ (KKS-5)  
Attachment No. \_\_ GP-2.2

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

(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 *Marilyn Stevens* \_\_\_\_\_  
(if necessary) Director/Manager

Capital Budget Projections

		2014	2015	2016	2017	2018	
							Core PMEs: assumes 3% labor change, 3% ave GDP and Int adjustment (10 year historical review)
ER 6103		3,687,817	3,827,951	4,023,790	4,225,504	4,352,269	
	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	-	-	Cabinet Gorge fishway: assumed to be started post spill 2014 and completed by the start of Q3 2016
		390,000	590,000	3,920,000	7,620,000	-	Noxon Rapids fishway: assumes project on hold at 30% level with construction to begin 2016. Some background project work would continue.
	Min Flow	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




**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Generation / Production

**Business Case Name:** Generation Battery Replacement

**ER No: ER Name:**

4108 System Battery Replacement

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$600<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	100	-	-	-	-	-	-	-	-	-	-	-	100
2015	250	-	-	63	-	-	63	-	-	63	-	-	63
2016	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.

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

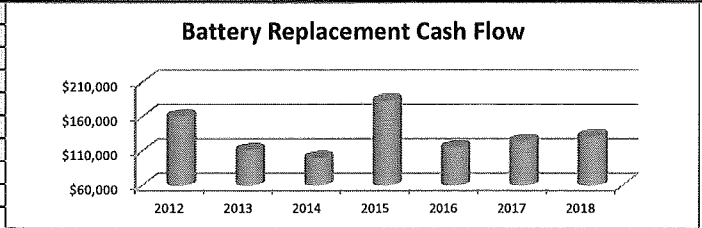
<b>Investment Name:</b>	<b>Generation Battery Replacement</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$160,000</b>	<b>Financial:</b>	Low - >0% and < 5% CIRR
<b>Duration/Timeframe</b>	<b>20 Year Program</b>	<b>Strategic:</b>	Life Cycle Programs
<b>Dept., Area:</b>	GPSS	<b>Operational:</b>	Operations somewhat impacted by execution
<b>Owner:</b>	Andy Vickers	<b>Business Risk:</b>	ERM Reduction >5 and <= 10
<b>Sponsor:</b>	Jason Thackston	<b>Program Risk:</b>	High certainty around cost, schedule and resources
<b>Category:</b>	Program	<b>Assessment Score:</b>	72
<b>Mandate/Reg. Reference:</b>	n/a	<b>Annual Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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

<b>Alternatives:</b>		<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
<b>Status Quo :</b>	We currently have a battery replacement program in place	n/a	\$ 120,000	\$ -	\$ -	0
<b>Alternative 1: Brief name of alternative (if applicable)</b>	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
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	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	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ 1,135,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,631,000</b>	



**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)**

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



<b>Key Performance Indicator(s)</b>	
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 Program

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



**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System): \$233<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	65	-	-	-	-	-	-	-	-	-	-	-	65
2015	70	-	-	18	-	-	18	-	-	18	-	-	18
2016	75	-	-	19	-	-	19	-	-	19	-	-	19

**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.

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



<b>Investment Name:</b>	Hydro Safety Minor Blanket	<b>Assessments:</b>	
<b>Requested Amount</b>	\$65,000	<b>Financial:</b>	MH - >= 9% & <12% CIRR
<b>Duration/Timeframe</b>	Lifetime Year Program	<b>Strategic:</b>	Other
<b>Dept., Area:</b>	Environmental	<b>Operational:</b>	Operations require execution to perform at current levels
<b>Owner:</b>	Michele Drake (Coor); Bruce Howard (Dir)	<b>Business Risk:</b>	ERM Reduction >10 and <= 15
<b>Sponsor:</b>	Marian Durkin	<b>Program Risk:</b>	Moderate certainty around cost, schedule and resources
<b>Category:</b>	Mandatory	<b>Assessment Score:</b>	160
<b>Mandate/Reg. Reference:</b>	FERC Hydro Public Safety Guidelines	<b>Annual Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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

<b>Annual Cost Summary - Increase/(Decrease)</b>						
<b>Alternatives:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>	
<b>Alternative 1: Funded</b>	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.	n/a	\$ 65,000	\$ -	\$ -	20
<b>Alternative 2: Unfunded</b>	Potential compliance issues and possible fines imposed. Potential for loss of life or injury and increased legal litigation associated with recreational liability.		\$ -	\$ -	from moderate to extreme	4

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
5 years of costs					Current ER 6001				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>					
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					
<b>Total</b>	<b>\$ 370,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 513,000</b>					

**Mandate Excerpt (if applicable):**  
Section 10(c) 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)**

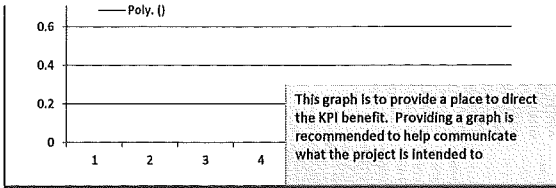
<b>Internal Labor Availability:</b> <input type="checkbox"/> Low Probability <input type="checkbox"/> Medium Probability <input checked="" type="checkbox"/> High Probability <b>Contract Labor:</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<b>Enterprise Tech:</b> <input type="checkbox"/>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

Other Party Review signature (if necessary) *Margie Stearns* 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
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	Date	Template

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System): \$27,700<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	14,300	3,800	-	-	10,500	-	-	-	-	-	-	-	-
2016	9,000	-	-	-	9,000	-	-	-	-	-	-	-	-

**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.

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

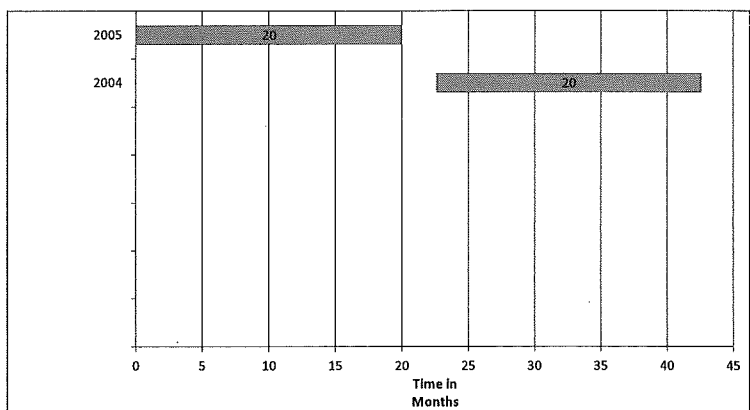
Investment Name:	<b>Little Falls Plant Upgrade (Revised)</b>	Assessments:	
Requested Amount	<b>\$56,100,000</b>	Financial:	MH - >= 9% & <12% CIRR
Duration/Timeframe	8 Year Project	Strategic:	Generating Fleet Modernization
Dept., Area:	GPSS	Operational:	Operations improved beyond current levels
Owner:	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 excters, 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

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Status Quo :</b> 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
<b>Alternative 1: Brief name of alternative (if applicable)</b> 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
<b>Alternative 2: Brief name of alternative (if applicable)</b> 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
<b>Alternative 3 Name : Brief name of alternative (if applicable)</b> 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	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 56,100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 51,500,000</b>

**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.



**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Generation / Production

**Business Case Name:** Nine Mile Hydroelectric Development Rehabilitation & Modernization

**ER No: ER Name:**

4140 Nine Mile Redevelopment

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$56,300<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	5,175	-	-	-	-	-	-	-	-	-	126	5,049	-
2015	51,323	-	-	-	-	2,000	-	-	-	1,000	-	-	48,323
2016	9,871	519	79	83	76	79	1	-	34	-	-	-	9,000

**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.

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





Capital Project Business Case

Investment Name:	<b>Nine Mile Rehab Program</b>	Assessments:	
Requested Amount	<b>\$90,913,000</b>	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	Assessment Score:	
Category:	Project		
Mandate/Reg. Reference:	n/a		

Recommend Project Description:	#NAME?	Annual Cost Summary - Increase/(Decrease)			Business Risk Score	
		Performance	Capital Cost	O&M Cost		Other Costs
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 tall 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.	increase capacity, energy, and renewable credits. (REC's)		\$ 90,913,000	\$ -	\$ -	4

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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

	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

Associated Ers (list all applicable):			

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
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

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

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 Capital Tools:  YES - attach form  NO or Not Required



Capital Project Business Case

Exhibit No. ATTACHMENT 3  
(KKS-5)  
Attachment No. GP-6.2

Contract Labor:

YES

NO

Facilities:

YES - attach form

YES - attach form

NO or Not Required

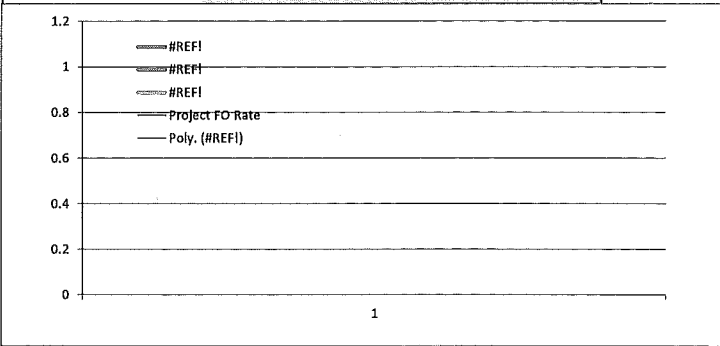
Fleet:

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  
(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  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Generation / Production

**Business Case Name:** Regulating Hydro

**ER No:** 4148    **ER Name:** Regulating Hydro

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$9,899<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	3,027	-	-	-	-	-	-	-	-	-	438	90	2,500
2015	4,136	-	-	-	-	-	-	-	-	-	-	-	4,136
2016	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.

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

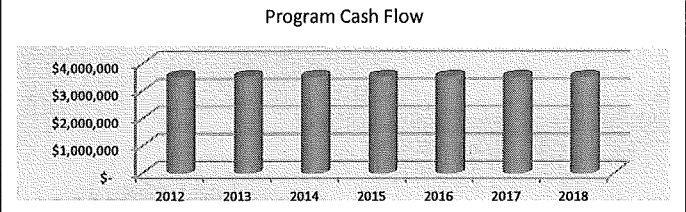


Investment Name:	<b>Regulating Hydro</b>	Assessments:	
Requested Amount	<b>\$3,500,000</b>	Financial:	High - Exceeds 12% CIRR
Duration/Timeframe	20 Year Program	Strategic:	Generating Fleet Modernization
Dept., Area:	GPSS	Operational:	Operations Improved beyond current levels
Owner:	Andy Vickers	Business 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)	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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	\$ -	\$ -	10

<b>Alternatives:</b>		<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>			<b>Business Risk Score</b>
<b>Status Quo :</b>	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	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	
<b>Alternative 1: Brief name of alternative (if applicable)</b>	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
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>					
2012-2016					4000	4102				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>	4003	4103				
Previous	\$ 1,890,000	\$ -	\$ -	\$ 1,890,000	4004	4105				
2012	\$ 3,500,000	\$ -	\$ -	\$ 2,533,000	4100					
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	\$ -	\$ -	\$ -						
<b>Total</b>	<b>\$ 29,890,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 27,154,000</b>						

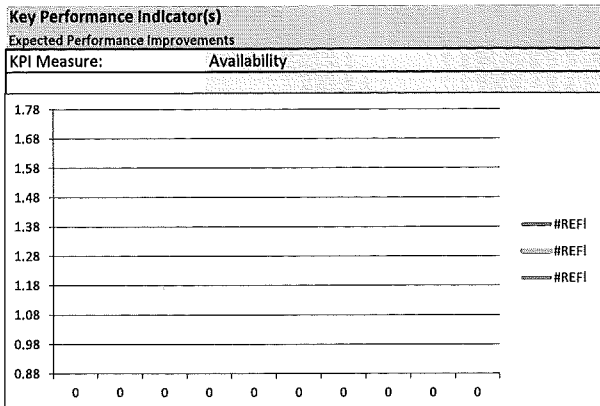


**Mandate Excerpt (if applicable):**  
Within this program, there are some FERC and NERC mandated items that are included. These are expected to be managed as part of the overall program and are not considered as individual items here.

**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)**

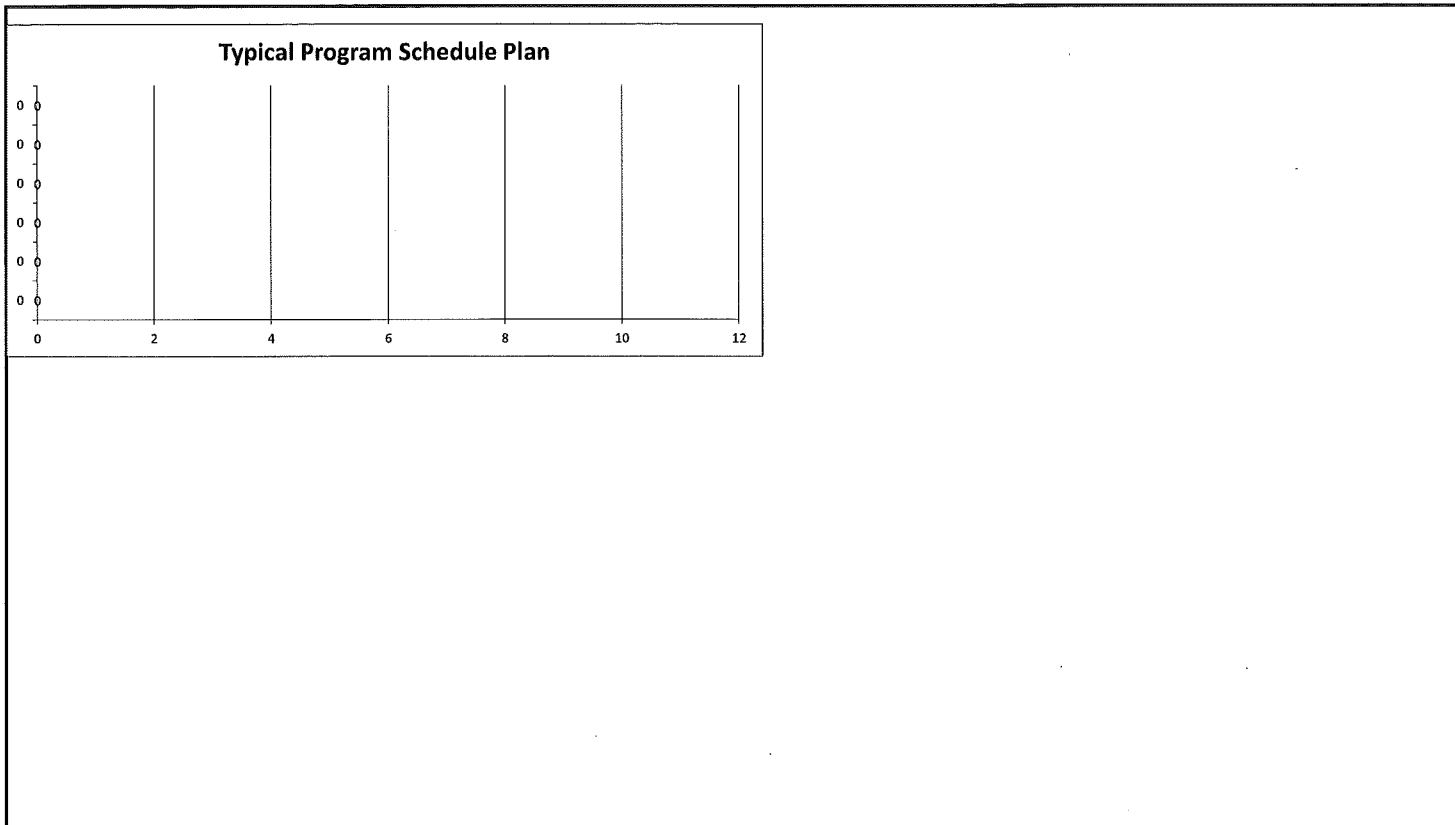
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input checked="" type="checkbox"/> High Probability	Enterprise Tech:	<input checked="" type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required
Contract Labor:	<input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



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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**

<b>Rationale for decision</b>	<b>Review Cycles</b> 2012-2016	
	<b>Date</b>	<b>Template</b>

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System): \$17,192<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	(9)	-	-	-	-	-	-	-	-	-	(16)	6	-
2015	462	39	39	39	39	39	39	39	39	39	39	39	38
2016	16,898	36	36	36	36	36	36	36	36	36	36	37	16,501

**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.

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

Capital Program Business Case



<b>Investment Name:</b>	Spokane River License Implementation
<b>Requested Amount</b>	\$2,902,000
<b>Duration/Timeframe</b>	50 Year Program
<b>Dept., Area:</b>	Environmental
<b>Owner:</b>	Elvin "Speed" Fitzhugh (Mgr); Bruce Howard (Dir)
<b>Sponsor:</b>	Marian Durkin
<b>Category:</b>	Mandatory

**Assessments:**  
Financial: 12.00%  
Strategic: Community vitality  
Business Risk: Business Risk Reduction >10 and <= 15  
Program Risk: Moderate certainty around cost, schedule and resources

**Mandate/Reg. Reference:** FERC Project No 2545-091  
**Assessment Score:** 179

**Recommend Program Description:**

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

Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
n/a	\$ 2,902,000	\$ -	\$ -	8

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program: 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.	n/a	\$ -	\$ -	\$ -	20
		\$ -	\$ -	\$ -	8
		\$ -	\$ -	\$ -	0
		\$ -	\$ -	\$ -	0

**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

**Associated Ers (list all applicable):**

6107
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Capital Program Business Case



2015	\$	11,262,000	\$	4,443,970	\$	-	\$	11,327,900
2016	\$	2,591,000	\$	4,466,092	\$	-	\$	3,632,250
2017	\$	529,000	\$	-	\$	-	\$	516,450
2018	\$	579,000	\$	-	\$	-	\$	468,250
2019	\$	-	\$	-	\$	-	\$	532,700
2020+	\$	-	\$	-	\$	-	\$	-
<b>Total</b>	<b>\$</b>	<b>21,055,000</b>	<b>\$</b>	<b>13,225,554</b>	<b>\$</b>	<b>-</b>	<b>\$</b>	<b>21,901,550</b>

ER	2015	2016	2017	2018	2019	Total	Mandate Excerpt (if applicable):
6107	\$ 11,262,000	\$ 2,591,000	\$ 529,000	\$ 579,000	\$ -	\$ 14,961,000	The Federal Energy Regulatory Commission issued a License to Avista Corporation for a period of 50 years, effective June 18, 2008, to operate and maintain the Spokane River Project No. 2545-091, which consists of the Post Falls HED, Upper Falls HED, Montrose Street HED, Nine Mile HED and Long Lake HED.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	<b>Additional Justifications:</b>
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	This License defines how Avista shall operate the Spokane River Project and includes several hundred requirements that we must meet to retain this License. Overall, the License is issued pursuant to the Federal Power Act. It embodies requirements of a wide range of other laws, including the Clean Water Act, the Endangered Species Act, the National Historic Preservation Act, among others. These requirements are also expressed through specific license articles (or Protection, Mitigation and Enhancement Measures), relating to fish, terrestrial resources, water quality, recreation, education, cultural, and aesthetic resources at the Project. In addition, the License incorporates requirements specific to a 50 year settlement agreement between Avista, the Department of Interior and the Coeur d'Alene Tribe, which includes specific funding requirements over the term of the License. Avista entered into additional two-party settlement agreements with local and state agencies, and the Spokane Tribe; these agreements also include funding commitments. The License references our requirements for land management, dam safety, public safety and monitoring requirements, which apply for the term of the License.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ 11,262,000</b>	<b>\$ 2,591,000</b>	<b>\$ 529,000</b>	<b>\$ 579,000</b>	<b>\$ -</b>	<b>\$ 14,961,000</b>	

Resources Requirements: (request forms and approvals attached)

Check the appropriate box. The internal and external

**Capital Program Business Case**



Internal Labor Availability:  Low Probability  YES  
Contract Labor:  YES

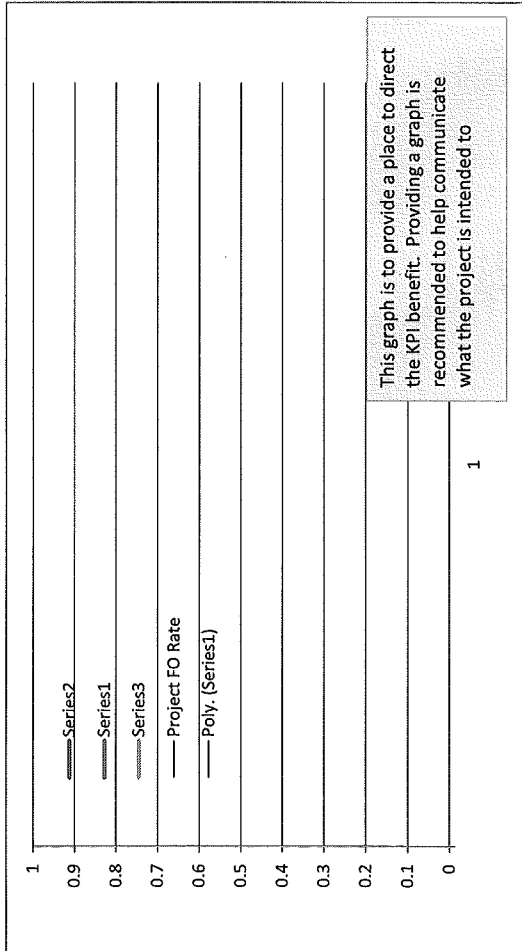
Enterprise Tech:  High Probability  
Facilities:  Medium Probability  NO

Capital Tools:  YES - attach form  
Fleet:  YES - attach form

YES - attach form  NO or Not Required  
 YES - attach form  NO or Not Required  
 YES - attach form  NO or Not Required  
 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 *Maryi Stevens*  
(if necessary) Director/Manager

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**

Capital Program Business Case



2012-2016	
Date	Template

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Generation / Production

**Business Case Name:** Base Load Thermal Plant

**ER No: ER Name:**

4149 Base Load Thermal

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$6,700<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	201	-	-	-	-	-	-	-	-	-	38	163	-
2015	2,200	-	-	-	-	-	-	2,200	-	-	-	-	-
2016	2,200	-	-	-	-	-	-	2,200	-	-	-	-	-

**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.

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

<b>Investment Name:</b>	<b>Base Load Thermal Plant</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$6,500,000</b>	<b>Financial:</b>	High - Exceeds 12% CIRR
<b>Duration/Timeframe</b>	ongoing Year Program	<b>Strategic:</b>	Generating Fleet Modernization
<b>Dept., Area:</b>	GPSS / Power Supply	<b>Operational:</b>	Operations require execution to perform at current levels
<b>Owner:</b>	Andy Vickers	<b>Business Risk:</b>	ERM Reduction >5 and <= 10
<b>Sponsor:</b>	Jason Thackston	<b>Program Risk:</b>	High certainty around cost, schedule and resources
<b>Category:</b>	Program	<b>Assessment Score:</b>	94
<b>Mandate/Reg. Reference:</b>	n/a	<b>Annual Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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	\$ -	\$ -	8
<b>Annual Cost Summary - Increase/(Decrease)</b>					

<b>Alternatives:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>	
<b>Status Quo :</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	The program can be reduced in amount and effectiveness in accomplishing the Goal	current trend would be reduced.	\$ 5,500,000	\$ -	\$ -	10
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>					
2012-2016					Current ER	4148				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>						
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	\$ -	\$ -	\$ -						
<b>Total</b>	<b>\$ 58,520,910</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 34,197,910</b>						

**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.

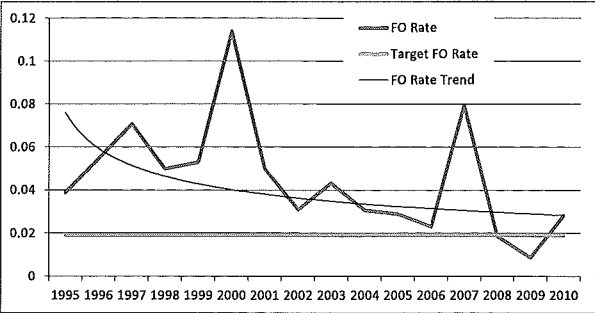
**Additional Justifications:**  
As these plants degrade, we expose ourselves to an increasing forced outage rates and must acquire replacement energy and capacity from the market. This can leave use with significant exposure for shareholders in a particular year.

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

Internal Labor Availability:	<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



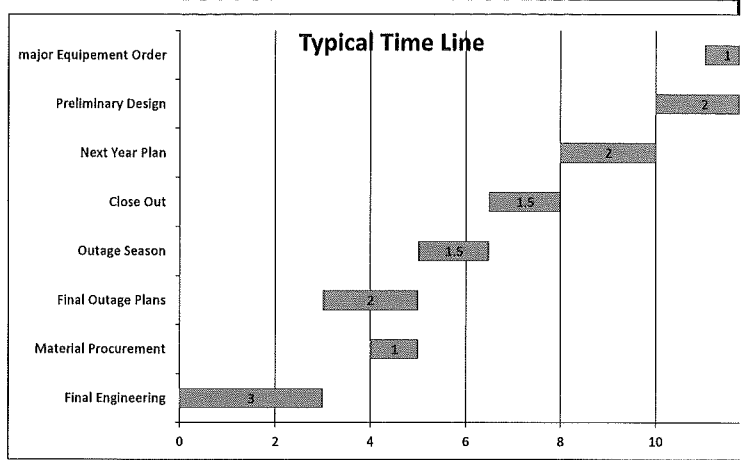
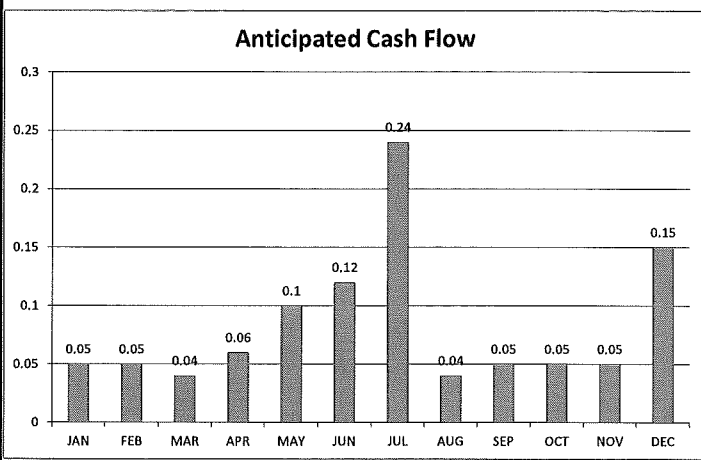
Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Forced Outage Rate



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Reviewed signature \_\_\_\_\_  
Director/Manager

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



To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Generation / Production

**Business Case Name:** Peaking Generation

**ER No: ER Name:**

4150 Peaking Generation

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$1,200<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	500	-	-	-	-	-	-	500	-	-	-	-	-
2016	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.

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



Capital Program Business Case

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

**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:**

**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.

**#NAME?**

Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
By expending these funds, the start the reliability for these assets will be improved.	\$ 500,000	\$ -	\$ -	6

**Alternatives:**

Unfunded Program:	Performance	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	n/a	\$ -	\$ -	\$ -	16
<i>Alternative 1: Brief name of alternative (if applicable)</i>	describe any incremental changes in operations	\$ -	\$ -	\$ -	6
<i>Alternative 2: Brief name of alternative (if applicable)</i>	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<i>Alternative 3 Name : Brief name of alternative (if applicable)</i>	describe any incremental changes in operations	\$ -	\$ -	\$ -	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**



2020+	\$	2,500,000	\$	-	\$	-	\$	-
<b>Total</b>	\$	<b>5,500,000</b>	\$	<b>-</b>	\$	<b>-</b>	\$	<b>2,700,000</b>

ER		2015	2016	2017	2018	2019	Total
4150	\$	500,000	500,000	500,000	500,000	500,000	2,500,000
0	\$	-	-	-	-	-	-
0	\$	-	-	-	-	-	-
0	\$	-	-	-	-	-	-
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0	\$	-	-	-	-	-	-
0	\$	-	-	-	-	-	-
<b>Total</b>	\$	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>2,500,000</b>

**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:**

With wind and other renewables coming on line, there has been an increase in the amount of times that these units have been called on. The value of these units may not be reflected with this new market. Also, the analysis used currently does not contemplate the emergency reserve power value of these units. There are times when energy is unavailable from other sources and the spot price of energy can exceed \$500/MWh or more. (\$50 - \$80/MWh being normal). This risk is somewhat modeled in the

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

Internal Labor Availability:  Low Probability  Medium Probability  High Probability  NO or Not Required

Contract Labor:  YES  NO  YES - attach form  YES - attach form  YES - attach form  YES - attach form

Enterprise Tech:  YES - attach form  YES - attach form  YES - attach form  YES - attach form

Facilities:  YES - attach form  YES - attach form  YES - attach form  YES - attach form

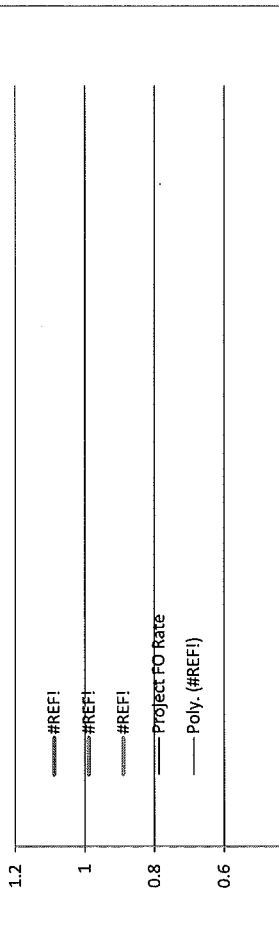
Capital Tools:  YES - attach form  YES - attach form  YES - attach form  YES - attach form

Fleet:  YES - attach form  YES - attach form  YES - attach form  YES - attach form

**Key Performance Indicator(s)**

Expected Performance Improvements:  Fill in the name of the KPI here

KPI Measure:  Fill in the name of the KPI here



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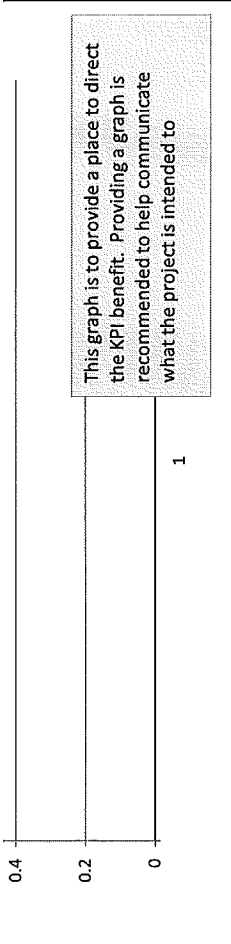
Reviewed signature

Other Party Review signature

Director/Manager

*Maggi Stevens*

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  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Generation / Production

**Business Case Name:** Colstrip Thermal Capital

**ER No: ER Name:**

7130 Colstrip Unit 4 Outage due to Generator Failure

4116 Colstrip Capital Additions

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$20,354<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,459	-	-	-	-	-	-	-	-	-	481	133	845
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

**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.

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

Capital Program Business Case



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

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

<b>Recommend Program Description:</b>	Assessment Score: n/a
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.	

<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
These programs are required for continued operation of units 3&4.	\$ 7,420,000	\$ -	\$ -	0

<b>Alternatives:</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>	<b>Business Risk Score</b>						
<b>Unfunded Program:</b>	<table border="1"> <tr> <td><b>Capital Cost</b></td> <td><b>O&amp;M Cost</b></td> <td><b>Other Costs</b></td> </tr> <tr> <td>\$ -</td> <td>\$ -</td> <td>\$ 50,000,000</td> </tr> </table>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	\$ -	\$ -	\$ 50,000,000	0
<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>						
\$ -	\$ -	\$ 50,000,000						
<b>Alternative 1: Brief name of alternative (if applicable)</b>	Describe other options that were considered n/a	0						
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered describe any incremental changes in operations	0						
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered describe any incremental changes in operations	0						

<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
n/a	\$ -	\$ -	\$ 50,000,000	0
describe any incremental changes in operations	\$ -	\$ -	\$ -	0
describe any incremental changes in operations	\$ -	\$ -	\$ -	0
describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>
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

<b>Associated Ers (list all applicable):</b>	
4116	
7130	

**Capital Program Business Case**



Total	\$ 26,365,371	\$ -	\$ -	\$ 47,814,283
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ER	2014	2015	2016	2017	2018	Total
4116	\$ 7,414,223	\$ 3,176,850	\$ 6,054,849	\$ 7,486,699	\$ 2,232,750	\$ 26,365,371
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7130	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	\$ 7,414,223	\$ 3,176,850	\$ 6,054,849	\$ 7,486,699	\$ 2,232,750	\$ 26,365,371

**Mandate Excerpt (if applicable):**  
We have limited input. This provides somewhat of a mandate. Also, this program is a "rollup" of many categories of capital work. Many are, in fact mandated by EPA and other regulatory bodies.

**Additional Justifications:**  
These projects are revised individually by PPL and the remaining members of the committee. Joint approval is given only where need and/or shareholder/ratepayer needs meet the proper thresholds.

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

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

Contract Labor:  YES  NO

Enterprise Tech:  YES - attach form  YES - attach form  YES - attach form  YES - attach form

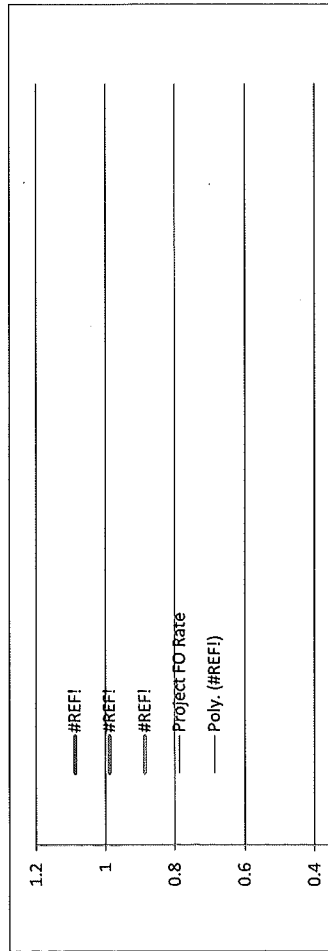
Facilities:  YES - attach form  YES - attach form  YES - attach form  YES - attach form

Capital Tools:  YES - attach form  YES - attach form  YES - attach form  YES - attach form

Fleet:  YES - attach form  YES - attach form  YES - attach form  YES - attach form

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

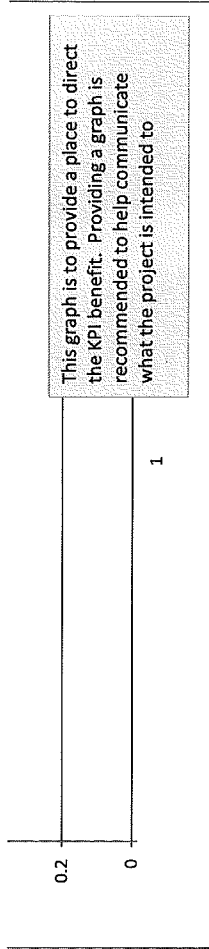


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Other Party Review signature Director/Manager  
(if necessary) *Maggi Stevens* Director/Manager

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  
2014-2016 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 2014-2016 (\$000s - System): \$1,350<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	1,350	-	-	-	-	-	1,350	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**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.

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

<b>Investment Name:</b>	<b>Noxon Spare Coils</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>Estimated Total Capital Expenditure</b>	<b>Financial:</b>	<b>8.54%</b>
<b>Duration/Timeframe</b>	<b>1 Year Project</b>	<b>Strategic:</b>	<b>Reliability &amp; Capacity</b>
<b>Dept., Area:</b>	<b>GPSS</b>	<b>Business Risk:</b>	<b>Business Risk Reduction &gt;0 and &lt;= 5</b>
<b>Owner:</b>	<b>Andy Vickers</b>	<b>Project Risk:</b>	<b>High certainty around cost, schedule and resources</b>
<b>Sponsor:</b>	<b>Jason Thackston</b>	<b>Assessment Score:</b>	<b>88</b>
<b>Category:</b>	<b>Project</b>		
<b>Mandate/Reg. Reference:</b>	<b>n/a</b>		

Recommend Project Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
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.	describe any incremental changes that this Project would benefit present operations	\$ 1,350,000	\$ -	\$ -	3

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Unfunded Project:</b>	Should we not have adequate spare coils on hand, we would risk a significantly longer forced outage (at least 6 months) and a much higher cost (30% premium).	n/a	\$ 2,100,000	\$ -	\$ 165,484	4
<b>Alternative 1: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	3
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
<b>Previous</b>	\$ -	\$ -	\$ -	\$ -
<b>2013</b>	\$ -	\$ -	\$ -	\$ -
<b>2014</b>	\$ 1,350,000	\$ -	\$ -	\$ 1,350,000
<b>2015</b>	\$ -	\$ -	\$ -	\$ -
<b>2016</b>	\$ -	\$ -	\$ -	\$ -
<b>2017+</b>	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	\$ 1,350,000	\$ -	\$ -	\$ 1,350,000

Associated Ris (list all applicable):			

ER	2013	2014	2015	2016	2017+	Total	Mandate Excerpt (if applicable):
<b>TBD</b>	\$ -	\$ 1,350,000	\$ -	\$ -	\$ -	\$ 1,350,000	provide brief citation of the law or regulation and a reference number if possible
<b>O</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>O</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>O</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>O</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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<b>O</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>O</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	\$ -	\$ 1,350,000	\$ -	\$ -	\$ -	\$ 1,350,000	<b>Additional Justifications:</b> After some discussion, it was determined to procure 100 coils in order to have an adequate supply in case of multi coil failures. We had a single point failure and consumed 34 of our spares. It was estimated that if we had two coils fail, we would consume 3X that number and may not have enough to effect repairs as hoped.

Milestones (high level targets)

<b>September-14</b>	<b>Spare Coils Received</b>	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	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)

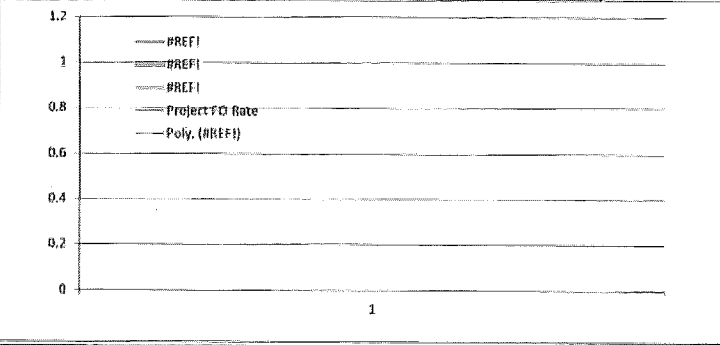
<b>Internal Labor Availability:</b>	<input type="checkbox"/> Low Probability	<input type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	<b>Enterprise Tech:</b>	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required	<b>Capital Tools: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

Reviewed signature *[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**

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System): \$8,014<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	11,008	-	-	-	-	11,008	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**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.

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



<b>Investment Name:</b>	<b>Post Fall South Channel Replacement</b>	<b>Assessments:</b>				
<b>Requested Amount</b>	<b>Estimated Total Capital Expenditure</b>	<b>Financial:</b>	0.00%			
<b>Duration/Timeframe</b>	3 Year Project	<b>Strategic:</b>	Generating Plant Modernization			
<b>Dept., Area:</b>	GPSS	<b>Business Risk:</b>	Business Risk Reduction >0 and <= 5			
<b>Owner:</b>	Andy Vickers	<b>Project Risk:</b>	High certainty around cost, schedule and resources			
<b>Sponsor:</b>	Jason Thackston	<b>Assessment Score:</b>	55	<b>Annual Cost Summary - Increase/(Decrease)</b>		
<b>Category:</b>	Mandatory			<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Business Risk Score</b>
<b>Mandate/Reg. Reference:</b>	CFR Title 18, Chapter I, Subchapter B, Part 12				<b>Other Costs</b>	
<b>Recommend Project Description:</b>			<b>Performance</b>			
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.			Gate operations would be automated.	\$ 11,008,000	\$ (5,000)	5

		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Alternatives:</b>						
<b>Unfunded Project:</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	At the time this case is being submitted, no alternatives are known.	describe any incremental changes in operations	\$ -	\$ -	\$ -	5
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

	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	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 2,870,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,133,000</b>

new			

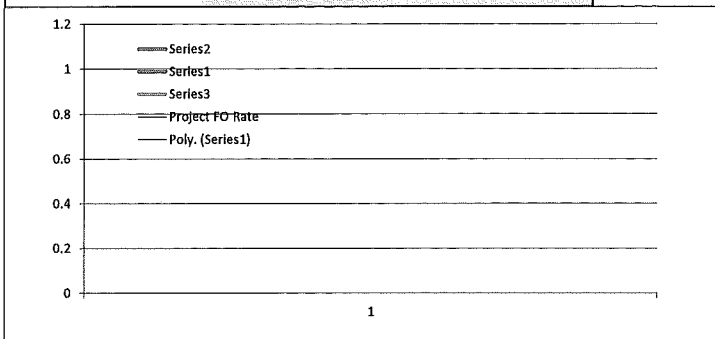
ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
new	\$ 960,000	\$ 1,950,000	\$ -	\$ -	\$ -	\$ 2,910,000	CFR 18.I.B.Part 12; 2007 FERC Inspection Report, July 10, 2007 Letter to FERC with Plan and Schedule; 2011 FERC Inspection Report and Part 12 Report Recommendation and August 13, 2012 letter to FERC requesting extension
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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<b>Total</b>	<b>\$ 960,000</b>	<b>\$ 1,950,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,910,000</b>	<b>Additional Justifications:</b> 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.

Date	Target	Date	Target	Date	Target
September-12	Project Kick-Off	December-14	Construction Complete	January-13	open
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

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

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

<b>Key Performance Indicator(s)</b>	
Expected Performance Improvements	
KPI Measure:	FERC Mandate



Prepared signature

Reviewed signature Director/Manager

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

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  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Generation / Production

**Business Case Name:** Cabinet Gorge Unit 1 Refurbishment

**ER No: ER Name:**

4161 CG HED U#1 Refurbishment

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$10,400<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	11,400	-	-	-	-	11,400	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**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.

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



Investment Name:	<b>Cabinet Gorge Unit 1 Refurbishment_Rehab</b>	Assessments:	
Requested Amount	<b>Estimated Total Capital Expenditure</b>	Financial:	9.24%
Duration/Timeframe	3 Year Project	Strategic:	Generating Plant Modernization
Dept., Area:	GPSS	Business Risk:	Bussiness 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:	#NAME?

Recommend Project Description:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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.	Better voltage control and response for blackstart (NERC), predictable rewind timing	\$ 11,400,000	\$ -	\$ -	4

Alternatives:		Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
			Capital Cost	O&M Cost	Other Costs	
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	\$ -	\$ 1,550,027	\$ -	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	\$ 949,000	\$ 868,026	\$ -	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	\$ 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	Mandate Excerpt (if applicable):
none	\$ 5,172,658	\$ 3,394,638	\$ -	\$ -	\$ -	\$ 8,567,296	not applicable
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	<b>Additional Justifications:</b> 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.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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Total	\$ 5,172,658	\$ 3,394,638	\$ -	\$ -	\$ -	\$ 8,567,296	

Milestones (high level targets)

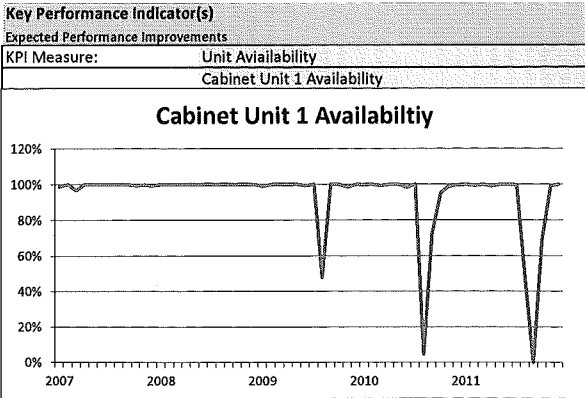
October-12	Project Start	September-13	Discharge Ring installation	January-14	open
November-12	Basis of Design	October-13	Runner delivered to site	November-14	open
December-12	AVR Ordered	November-14	Runner installation	January-15	open
March-13	Monitoring Equipment Ordered	January-14	Installation Completion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

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

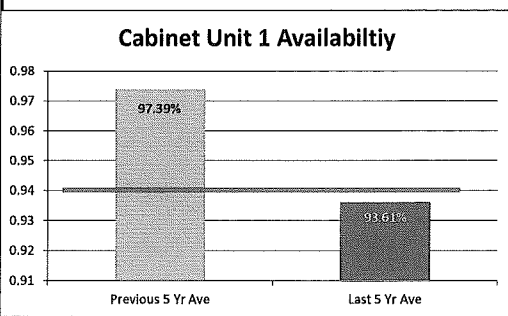




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 Director/Manager

Other Party Review signature Margie Stevens  
 (if necessary) 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  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** General

**Business Case Name:** Capital Tools & Stores Equipment

**ER No: ER Name:**

7005 Stores Equip

7006 Tools Lab & Shop Equipment

7002 Office Mach & Equipment

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$6,570<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	589	-	-	-	-	-	-	-	-	-	221	88	280
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

**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.

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



Capital Program Business Case

ATTACHMENT 3  
Exhibit No.\_\_(KKS-5)  
Attachment No. \_\_G-1.1

<b>Investment Name:</b> Capital Tools and Stores		<b>Assessments:</b>	
<b>Requested Amount</b>	\$ 1,821,500	<b>Financial:</b>	MH - >= 9% & <12% CIRR
<b>Duration/Timeframe</b>	Ongoing Year Program	<b>Strategic:</b>	Life Cycle Programs
<b>Dept., Area:</b>	Supply Chain	<b>Operational:</b>	Operations require execution to perform at current levels
<b>Owner:</b>	Cody Krogh	<b>Business Risk:</b>	ERM Reduction >0 and <= 5
<b>Sponsor:</b>	Don Kopczynski	<b>Program Risk:</b>	High certainty around cost, schedule and resources
<b>Category:</b>	Program	<b>Assessment Score:</b>	84
<b>Mandate/Reg. Reference:</b>	n/a	<b>Annual Cost Summary - Increase/(Decrease)</b>	
<b>Recommend Program Description:</b>		<b>Performance</b>	<b>Capital Cost</b>
Purchase and repair of tool and facility material handling equipment		Enhances crew efficiency	\$ 1,500,000
		<b>O&amp;M Cost</b>	\$ -
		<b>Other Costs</b>	\$ -
		<b>Business Risk Score</b>	0
		<b>Annual Cost Summary - Increase/(Decrease)</b>	
<b>Alternatives:</b>		<b>Performance</b>	<b>Capital Cost</b>
<b>Status Quo :</b>	Describe the current condition of the asset(s) and problems that need to be corrected	n/a	\$ -
			\$ -
			\$ -
<b>Alternative 1: Repair all tools</b>	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
<b>Alternative 1: Rent Forklifts</b>	Increased rental expense & labor to "Other" budget shifting 95% of costs to CAP loading, 5% to O&M		\$ 665,000
			\$ 35,000
			\$ -
			\$ 0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
5 years of costs					2013	2014	2015	2016	2017
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>	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					
<b>Total</b>	<b>\$ 8,288,447</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 14,544,825</b>					

**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 | 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).



<b>Key Performance Indicator(s)</b>	
Expected Performance Improvements	
KPI Measure:	Tool Repair as a percentage of tool purchases
	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 Program

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

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System): \$12,500<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	2,085	-	-	-	-	-	-	-	-	-	1	85	2,000
2015	8,500	-	-	-	-	-	-	-	-	-	-	-	8,500
2016	4,000	-	-	-	-	-	-	-	-	-	-	-	4,000

**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:**

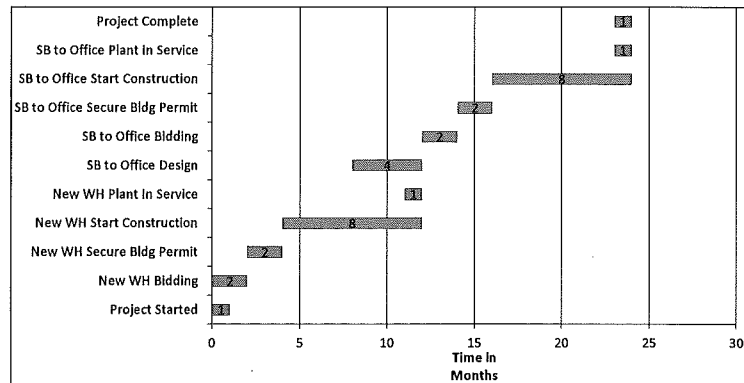
No O&M Offsets are listed on the attached Business Case, however O&M savings occur in 2014, 2015 and 2016. These O&M savings are the result of eliminating the need of leased facilities used for personnel that will be relocated to the Mission Campus. In addition, savings are gained due to line trucks and employees not having to travel and off-load waste matters that are recyclable or hazardous. Savings are anticipated to be \$6,000 for three months in 2014, \$77,000 in 2015 and \$21,000 in 2016. The allocation to Washington is 78.64% for Electric and 21.36% for Gas. For 2014, Washington's allocation of these savings is \$4,700 Electric / \$1,300 Gas, \$60,500 Electric / \$16,400 Gas in 2015, and \$16,500 Electric / \$4,500 Gas in 2016. In addition, the attached business case shows "other costs" as (\$1,200,000). These savings are related to capital and are not inclusive of O&M savings.

Investment Name:	<b>COF Long-Term Restructuring Plan</b>	
Requested Amount	<b>\$23,450,000</b>	
Duration/Timeframe	5 Year Project	
Dept., Area:	Facilities	
Owner:	Mike Broemling & Eric Bowles	
Sponsor:	Don Kopczynski	
Category:	Project	
Mandate/Reg. Reference:	n/a	
Assessments:	Financial: High - Exceeds 12% CIRR	
	Strategic: Other	
	Operational: Operations improved beyond current levels	
	Business Risk: ERM Reduction >0 and <= 5	
	Project/Program Risk: High certainty around cost, schedule and resources	
	Assessment Score: 100.5	Cost Summary - Increase/(Decrease)

Recommend Project Description:	Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
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.	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
<b>Status Quo :</b> 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
<b>Alternative 1: Construct a new warehouse (recommended option)</b> See Project Description above.	Alleviates current space issues & new warehouse	\$ 9,500,000	\$ -	\$ (1,200,000)	3
<b>Alternative 2: General Office Building 'wing' addition and parking garage</b> 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
<b>Alternative 3 Name: Ross Court Office Building and Parking Lot</b> 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 (CWIF)**



	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	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 23,450,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 23,450,000</b>

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		

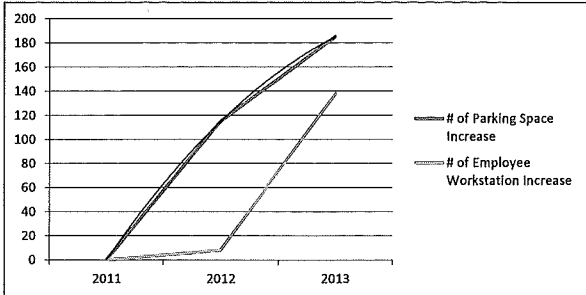
Associated Ers (list all applicable):	7126				
Mandate Excerpt (if applicable):	n/a				

**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:	<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

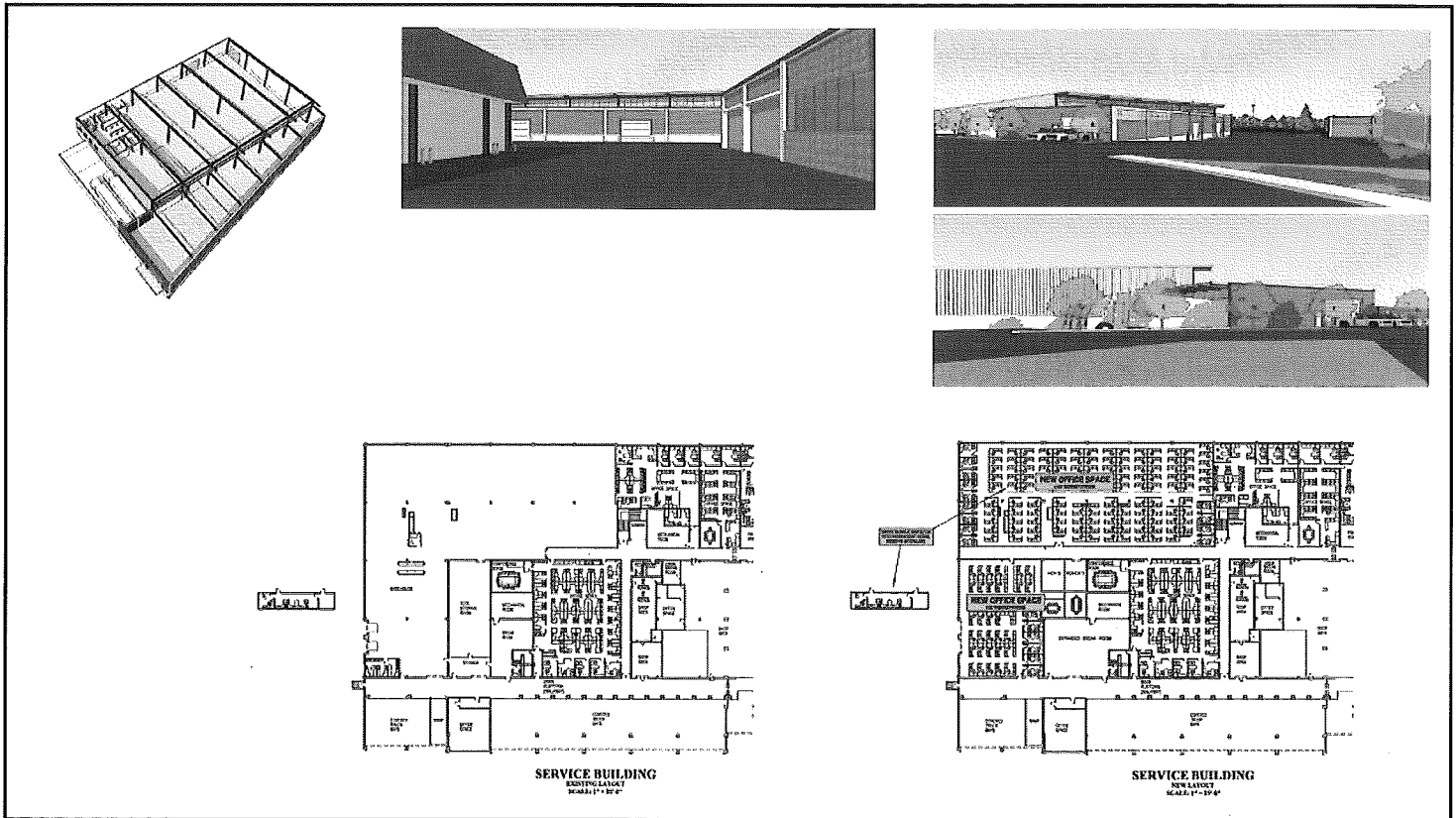
**Key Performance Indicator(s)**  
Expected Performance Improvements  
KPI Measure: **Total Net Increase of Parking Spaces and Employee Workstations vs. 2011 total**



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Reviewed signature Director/Manager

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



**To be completed by Capital Planning Group**

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System): \$11,633<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	575	-	-	-	-	-	-	-	-	-	228	67	279
2015	4,600	390	383	381	382	383	381	391	381	381	383	383	381
2016	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.

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





Capital Program Business Case

ATTACHMENT 3  
Exhibit No.\_\_(KKS-5)  
Attachment No. \_\_G-4.1

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

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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
		<b>Annual Cost Summary - Increase/(Decrease)</b>			

<b>Alternatives:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>	
<b>Status Quo :</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	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
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name : Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>			
5 years of costs					Current ER	7001	7003	
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>				
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				
<b>Total</b>	<b>\$ 20,820,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 30,453,300</b>				

**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)**

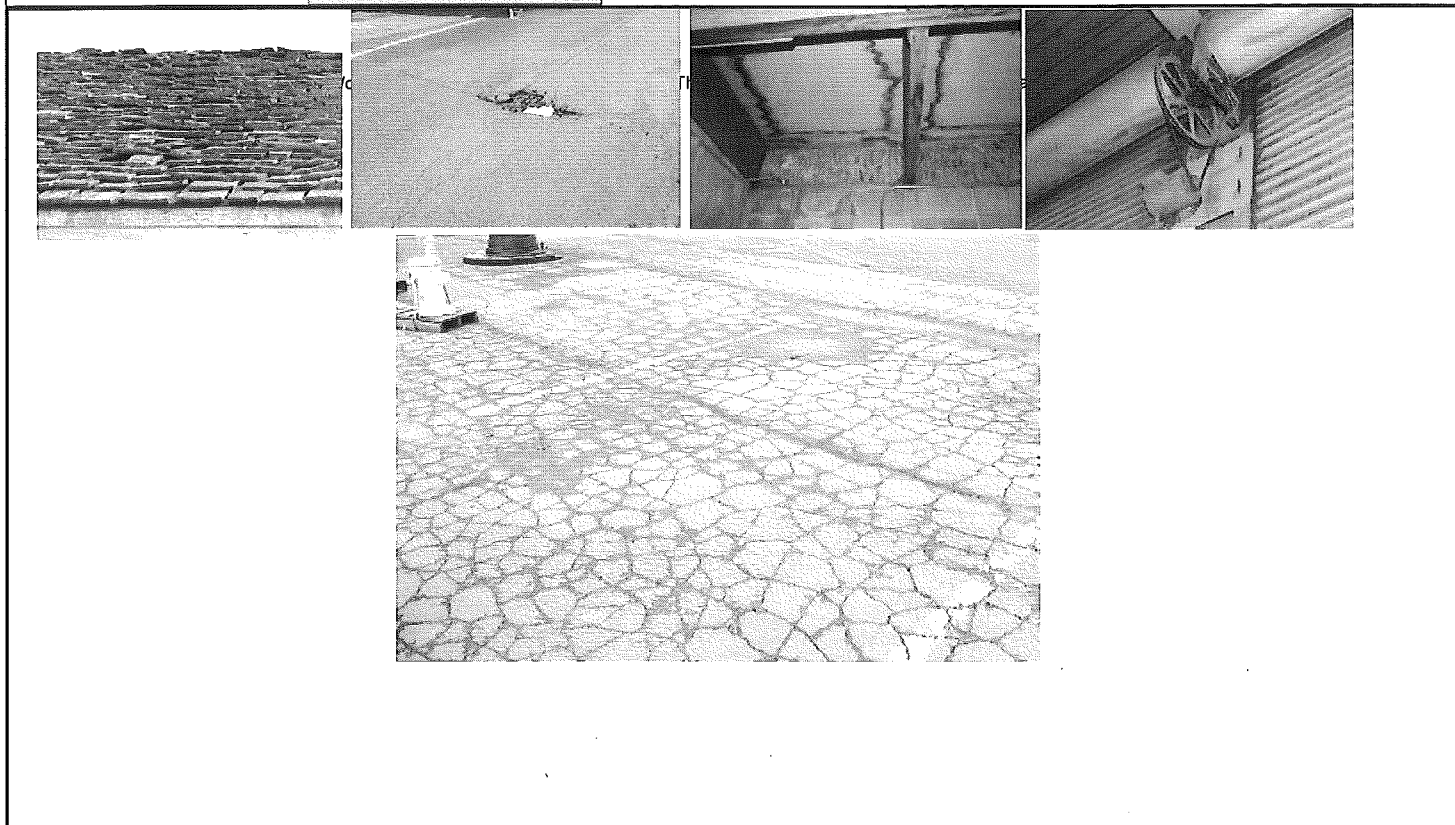
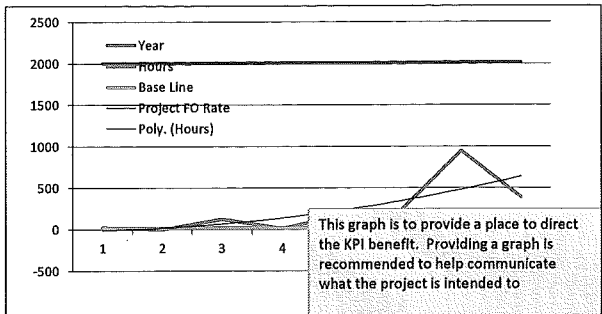
- |                              |  |  |   |                  |   |  |
|------------------------------|--|--|---|------------------|---|--|
| Internal Labor Availability: | <input type="checkbox"/> Low Probability | <input checked="" type="checkbox"/> Medium Probability | <input type="checkbox"/> High Probability | Enterprise Tech: | <input checked="" type="checkbox"/> YES - attach form | <input 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 |

<b>Key Performance Indicator(s)</b>	
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 Director/Manager  
(if necessary)



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

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** General

**Business Case Name:** Strategic Initiatives – Battery Storage

**ER No:** 7060  
**ER Name:** Strategic Initiatives

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$3,500<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	2,062	172	172	172	172	172	172	172	172	172	172	172	172
2016	406	34	34	34	34	34	34	34	34	34	34	34	34

**Business Case Description:**

The Strategic Initiatives business case contains various projects and programs that align with the Company's strategic goals. The ERs associated with this business case may change depending on the current initiative approved. The current program is for ER 7060 Energy Storage Pullman. Avista has a strong interest in the use of battery technology as a means for augmenting its current portfolio of supply assets in addition to local load management (distributed resources/loads on feeders). Validation of the potential benefits singularly and coincidentally is essential to deployment and expansion in future years. The project will purchase eight (8) storage units (shipping containers), and two (2) Power Control System units. The eight storage units will be filled with an electrolyte containing vanadium suspension, which will maintain an electro-chemical charge.

**Offsets:**

There are no anticipated offsets with this business case.

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



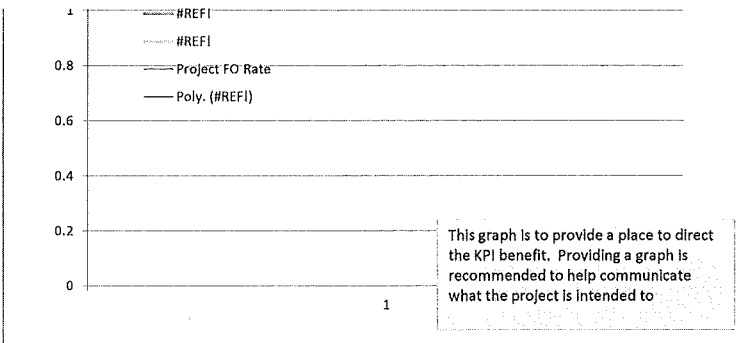
<b>Investment Name:</b>	<b>Energy Storage Pullman</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$ 3,800,000</b>	<b>Financial:</b>	-2.60%
<b>Duration/Timeframe</b>	3 2014-2016	<b>Strategic:</b>	Reliability & Capacity
<b>Dept., Area:</b>	Engineering	<b>Business Risk:</b>	Business Risk Reduction - None
<b>Owner:</b>	Heather Rosentrater	<b>Program Risk:</b>	Moderate certainty around cost, schedule and resources
<b>Sponsor:</b>	Dennis Vermillion	<b>Assessment Score:</b>	22
<b>Category:</b>	Productivity	<b>Annual Cost Summary - Increase/(Decrease)</b>	
<b>Mandate/Reg. Reference:</b>	n/a	<b>Performance</b>	<b>Capital Cost</b>
<b>Recommend Program Description:</b>		<b>O&amp;M Cost</b>	<b>Other Costs</b>
Avista has a strong interest in the use of battery technology as a means for augmenting the current portfolio of supply assets in addition to local load management (distributed resources/loads on feeders). Validation of the potential benefits singularly and coincidentally is essential to deployment and expansion in future years. The project will purchase eight (8) storage units (shipping containers), and two (2) Power Control System units. The eight storage units will be filled with an electrolyte containing vanadium suspension, which will maintain an electro-chemical charge. The project, as specified, is only possible as a result of the matching funds made available by the Department of Commerce grant opportunity.		<b>Business Risk Score</b>	
		Intended to create an energy storage framework for future deployment and test technology and valuation	\$ 3,900,000
			\$ 84,000
			\$ -
			0

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

	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ -	\$ -	\$ -	\$ -
2014	\$ 1,000,000	\$ -	\$ -	\$ 3,500,000
2015	\$ 2,500,000	\$ 45,000	\$ -	\$ -
2016	\$ 300,000	\$ 90,000	\$ -	\$ -
2017	\$ -	\$ 90,000	\$ -	\$ -
<b>Total</b>	<b>\$ 3,800,000</b>	<b>\$ 225,000</b>	<b>\$ -</b>	<b>\$ -</b>

7060		

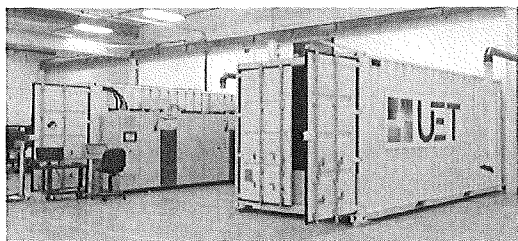
<b>ER</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>Total</b>	<b>Mandate Excerpt (if applicable):</b>
7060	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>Additional Justifications:</b> Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.



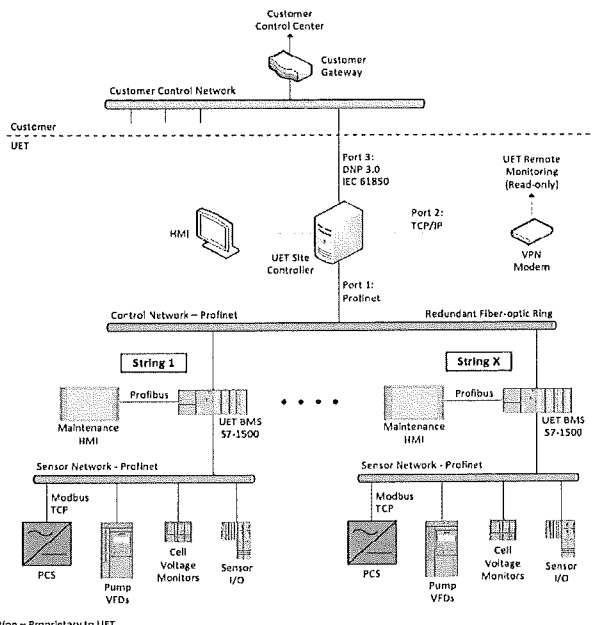
Reviewed signature Director/Manager

Other Party Review Mandi Stevens 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



Year	Avg. Capacity	Peak Capacity	Peak	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	AWP	Total
2011	\$ 00	\$ 00	\$ 00	\$ 15.18	\$ 2.40	\$ 15.43	\$ 51	\$ 00	\$ 6.60	\$ 206	\$ 10.34	\$ 00	\$ 00	\$ 550	\$ 61.69								\$ 550
2012	\$ 00	\$ 00	\$ 00	\$ 15.16	\$ 9.84	\$ 15.71	\$ 50	\$ 00	\$ 6.60	\$ 209	\$ 10.42	\$ 00	\$ 00	\$ 675	\$ 117.98								\$ 675
2013	\$ 00	\$ 00	\$ 00	\$ 14.82	\$ 9.80	\$ 15.29	\$ 50	\$ 00	\$ 6.67	\$ 211	\$ 10.50	\$ 00	\$ 00	\$ 812	\$ 164.28								\$ 812
2014	\$ 00	\$ 00	\$ 00	\$ 14.31	\$ 10.12	\$ 16.56	\$ 50	\$ 00	\$ 6.17	\$ 217	\$ 11.38	\$ 00	\$ 00	\$ 815	\$ 161.04								\$ 815
2015	\$ 00	\$ 00	\$ 00	\$ 14.21	\$ 10.15	\$ 16.71	\$ 50	\$ 00	\$ 6.18	\$ 221	\$ 12.06	\$ 00	\$ 00	\$ 823	\$ 161.65								\$ 823
2016	\$ 00	\$ 00	\$ 00	\$ 14.21	\$ 10.15	\$ 16.71	\$ 50	\$ 00	\$ 6.18	\$ 221	\$ 12.06	\$ 00	\$ 00	\$ 823	\$ 161.65								\$ 823
2017	\$ 122.13	\$ 4.60	\$ 16.31	\$ 10.54	\$ 10.19	\$ 15.04	\$ 50	\$ 00	\$ 6.06	\$ 233	\$ 13.74	\$ 5.65	\$ 0.12	\$ 223	\$ 161.79								\$ 223
2018	\$ 127.10	\$ 4.40	\$ 17.21	\$ 10.73	\$ 10.50	\$ 16.33	\$ 50	\$ 00	\$ 6.07	\$ 243	\$ 14.57	\$ 5.26	\$ 0.20	\$ 281	\$ 167.99								\$ 281
2019	\$ 132.10	\$ 5.00	\$ 17.52	\$ 10.93	\$ 10.81	\$ 16.52	\$ 50	\$ 00	\$ 6.14	\$ 252	\$ 15.35	\$ 5.87	\$ 0.20	\$ 330	\$ 174.28								\$ 330
2020	\$ 137.20	\$ 5.20	\$ 17.83	\$ 11.11	\$ 11.12	\$ 16.71	\$ 50	\$ 00	\$ 6.20	\$ 262	\$ 16.24	\$ 6.63	\$ 0.21	\$ 381	\$ 181.35								\$ 381
2021	\$ 142.13	\$ 5.40	\$ 18.13	\$ 11.29	\$ 11.42	\$ 17.20	\$ 50	\$ 00	\$ 6.27	\$ 271	\$ 17.13	\$ 7.37	\$ 0.22	\$ 432	\$ 189.60								\$ 432
2022	\$ 147.10	\$ 5.60	\$ 18.43	\$ 11.50	\$ 11.74	\$ 17.89	\$ 50	\$ 00	\$ 6.33	\$ 281	\$ 18.03	\$ 8.17	\$ 0.23	\$ 483	\$ 197.86								\$ 483
2023	\$ 152.10	\$ 5.80	\$ 18.76	\$ 11.70	\$ 12.07	\$ 18.60	\$ 50	\$ 00	\$ 6.39	\$ 291	\$ 19.00	\$ 9.00	\$ 0.24	\$ 534	\$ 206.12								\$ 534
2024	\$ 157.10	\$ 6.10	\$ 19.09	\$ 11.90	\$ 12.43	\$ 19.43	\$ 50	\$ 00	\$ 6.45	\$ 301	\$ 20.00	\$ 9.86	\$ 0.25	\$ 585	\$ 214.38								\$ 585
11 Year Total															\$ 2,474,360.44								\$ 2,474,360.44
2024	\$ 162.10	\$ 6.30	\$ 19.44	\$ 12.11	\$ 12.85	\$ 20.44	\$ 50	\$ 00	\$ 6.51	\$ 311	\$ 21.00	\$ 10.74	\$ 0.26	\$ 636	\$ 222.64								\$ 636
2025	\$ 167.10	\$ 6.50	\$ 19.79	\$ 12.34	\$ 13.31	\$ 21.57	\$ 50	\$ 00	\$ 6.58	\$ 321	\$ 22.00	\$ 11.62	\$ 0.27	\$ 687	\$ 230.89								\$ 687
2026	\$ 172.13	\$ 6.70	\$ 20.15	\$ 12.56	\$ 13.81	\$ 22.71	\$ 50	\$ 00	\$ 6.65	\$ 331	\$ 23.00	\$ 12.50	\$ 0.28	\$ 738	\$ 239.14								\$ 738
2027	\$ 177.13	\$ 7.10	\$ 20.51	\$ 12.78	\$ 14.31	\$ 23.94	\$ 50	\$ 00	\$ 6.72	\$ 341	\$ 24.00	\$ 13.48	\$ 0.29	\$ 789	\$ 247.39								\$ 789
2028	\$ 182.13	\$ 7.50	\$ 20.87	\$ 13.00	\$ 14.81	\$ 25.17	\$ 50	\$ 00	\$ 6.79	\$ 351	\$ 25.00	\$ 14.46	\$ 0.30	\$ 840	\$ 255.64								\$ 840
2029	\$ 187.10	\$ 7.90	\$ 21.24	\$ 13.24	\$ 15.31	\$ 26.40	\$ 50	\$ 00	\$ 6.86	\$ 361	\$ 26.00	\$ 15.44	\$ 0.31	\$ 891	\$ 263.89								\$ 891
11 Year Total															\$ 4,114,598.81								\$ 4,114,598.81



Confidential Information - Proprietary to UET

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** General

**Business Case Name:** Apprentice & Craft Training

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

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$180<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	5	-	-	-	-	-	-	-	-	-	-	-	5
2015	60	5	5	5	5	5	5	5	5	5	5	5	5
2016	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.

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



Capital Program Business Case

ATTACHMENT 3  
Exhibit No. \_\_ (KKS-5)  
Attachment No. \_\_ G-6.1

<b>Investment Name:</b>	<b>Apprentice/Craft Trng</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$60,000</b>	<b>Financial:</b>	<b>7.00%</b>
<b>Duration/Timeframe</b>	<b>10 Year Program</b>	<b>Strategic:</b>	<b>Performance Excellence</b>
<b>Dept., Area:</b>	<b>Apprentice/Craft Training</b>	<b>Business Risk:</b>	<b>Business Risk Reduction &gt;0 and &lt;= 5</b>
<b>Owner:</b>	<b>Linda Jones</b>	<b>Program Risk:</b>	<b>High certainty around cost, schedule and resources</b>
<b>Sponsor:</b>	<b>Karen Feltes</b>		
<b>Category:</b>	<b>Mandatory</b>		
<b>Mandate/Reg. Reference:</b>	<b>296-05 WAC &amp; Chpt 49 04 RCW</b>	<b>Assessment Score:</b>	<b>#NAME?</b>

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>			<b>Business Risk Score</b>
"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."	describe any incremental changes that this Program would benefit present operations	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	2
		\$ 60,000	\$ -	\$ -	

<b>Alternatives:</b>	<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>			<b>Business Risk Score</b>	
<b>Unfunded Program:</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	2
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>	
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
<b>Total</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 420,000</b>

<b>Associated Ers (list all applicable):</b>			

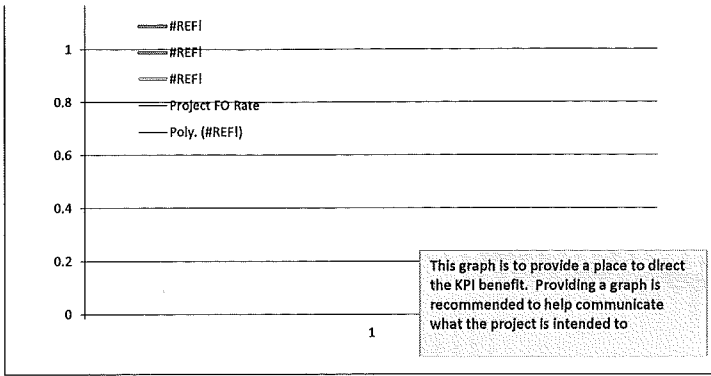
<b>ER</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>Total</b>	<b>Mandate Excerpt (if applicable):</b>
7200	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 300,000	See Below
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ 60,000</b>	<b>\$ 60,000</b>	<b>\$ 60,000</b>	<b>\$ 60,000</b>	<b>\$ 60,000</b>	<b>\$ 300,000</b>	<b>Additional Justifications:</b> 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 via WAC.

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

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

Prepared N Thorson



Reviewed signature \_\_\_\_\_  
Director/Manager

Other Party Review signature *Maurie 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  
 2014-2016 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 2014-2016 (\$000s - System): \$12,300<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	3	-	-	-	-	-	-	-	-	-	1	2	-
2015	9,250	-	-	-	-	-	-	-	-	-	-	-	9,250
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**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 produce reductions in energy costs of \$66,000 in 2015 and additional reduced energy costs of \$10,000 in 2016. These costs should have been allocated to all services and jurisdictions. However, in the Company's O&M Offset adjustment, they were inadvertently allocated to just Washington Electric and Gas. The correct allocations to Washington are \$32,000 Electric / \$9,500 Gas in 2015 and additional reduced energy costs of \$4,800 WA Electric / \$1,400 Gas in 2016.

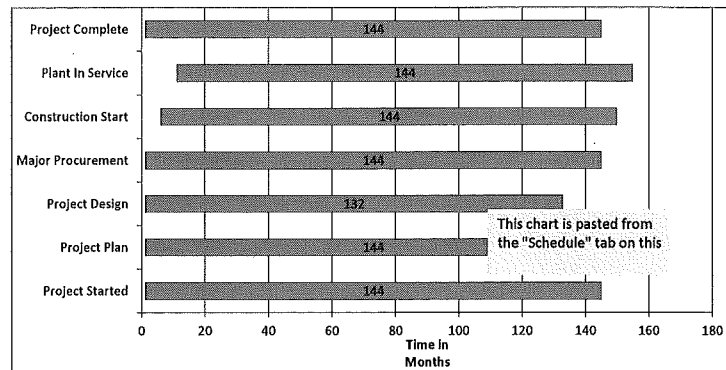
<sup>1</sup> The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

Investment Name:	HVAC Renovation Project	Assessments:	
Requested Amount	\$39,804,485	Financial:	MH - >= 9% & <12% CIRR
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	<b>Cost Summary - Increase/(Decrease)</b>	

Recommend Project Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
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	\$ -	\$ -	0

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Status Quo :</b> 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
<b>Alternative 1: Brief name of alternative (if applicable)</b> 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
<b>Alternative 2: Brief name of alternative (if applicable)</b> 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
<b>Alternative 3 Name : Brief name of alternative (if applicable)</b> 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	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 38,921,485</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 42,774,485</b>

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

<b>Associated Ers (list all applicable):</b>	Current ER	7101	7001	7003	7050		
<b>Mandate Excerpt (if applicable):</b>	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

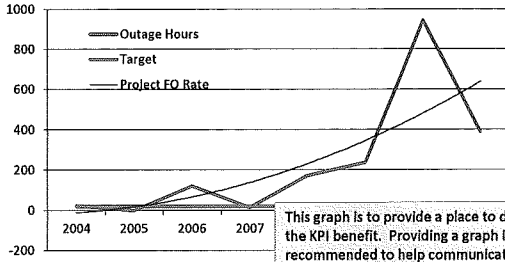
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

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



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 \_\_\_\_\_  
(if necessary)

*Maqui Stevens*  
Director/Manager




**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, recycles more energy than 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 option 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 issues and requires significant 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. Heating is provided through hot water coils located at VAV boxes, controls, and other miscellaneous work are provided under this option.
- Renovation Option #3: This option provides zoned 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.

Page 1 of 3 




**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). Preventive maintenance costs were based on the preliminary equipment list generated for each option. Together, the energy costs and service costs were combined to reach the overall operational cost for each option.

Page 2 of 3 

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	Date	Template

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** General

**Business Case Name:** New Deer Park Service Center

**ER No:** 7135  
**ER Name:** Deer Park Service Center

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$2,500<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	2,750	-	-	-	-	-	-	-	-	-	-	-	2,750
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**Business Case Description:**

Replace existing Deer Park Service Center. Current building is over 40 years old, and existing storage yard is becoming too small for ever-growing inventory. Environmental concerns with existing site located near railroad tracks, and close proximity to city water well. Presently cleaning up existing soil contamination, and prolonged remaining at site could lead to environmental spills in the future. The existing building is tight for current line truck sizes, warehouse is undersized, and has code compliance and security issues. Deer Park is one of our lower-performing service centers on the Facilities Building Survey Report.

**Offsets:**

No O&M offsets are presented on the attached copy of the Business Case, however after further discussion it was determined that \$16,000 of annual savings will occur in 2015. Savings are from facilities energy and maintenance savings including employee efficiencies due to larger facilities and more spacious storage yard. Of the \$16,000, Washington's portion of this is \$12,583 Electric and \$2,688 Gas. This has been included in the O&M Offsets adjustment as shown in Company witness Mrs. Andrews' workpapers.

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

<b>Investment Name:</b>	<b>New Deer Park Svc Ctr</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$2,500,000</b>	<b>Financial:</b>	
<b>Duration/Timeframe</b>	<b>1 year 2015</b>	<b>Strategic:</b>	<b>Customer Cost Management</b>
<b>Dept., Area:</b>	<b>Facilities</b>	<b>Business Risk:</b>	<b>Business Risk Reduction &gt;0 and &lt;= 5</b>
<b>Owner:</b>	<b>Mike Broemling</b>	<b>Project Risk:</b>	<b>High certainty around cost, schedule and resources</b>
<b>Sponsor:</b>	<b>Don Kopczynski</b>	<b>Assessment Score:</b>	<b>54</b>
<b>Category:</b>	<b>Project</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>	
<b>Mandate/Reg. Reference:</b>	<b>n/a</b>	<b>Performance</b>	<b>Capital Cost</b>

<b>Recommend Project Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
Replace existing Deer Park Service Center. Current building is over 40 years old, and existing storage yard is becoming too small for ever-growing inventory. Environmental concerns with existing site located near railroad tracks, and close proximity to city water well. Presently cleaning up existing soil contamination, and prolonged remaining at site could lead to environmental spills in the future. The existing building is tight for current line truck sizes, warehouse is undersized, and has code compliance and security issues. Deer Park is one of our lower-performing service centers on the Facilities Building Survey Report.	2 linemen crews shall benefit from increased efficiencies and space	\$ 2,500,000	\$ 10,000	\$ -	4

<b>Alternatives:</b>		<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>			<b>Business Risk Score</b>
			<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	
<b>Unfunded Project:</b>	Deer Park is one of our lowest scoring service centers. Continual O&M and capital funding will need to be poured into the building to maintain its usability. Storage yard will eventually become too small for material. Line trucks will remain a tight fit, and in some cases, remain exposed to weather.	n/a	\$ 50,000	\$ 25,000	\$ -	8
<b>Alternative 1: Brief name of alternative (if applicable)</b>	None. Purchasing additional properties and expanding the service center is not an option. Auto junkyard and RR tracks to the west, unknown as to soil contamination and environmental issues. Public streets to north and east. Lot to south small, and city water well supply nearby (contamination?).	describe any incremental changes in operations	\$ -	\$ -	\$ -	4
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

**Program Cash Flows**

	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ -	\$ -	\$ -	\$ -
2014	\$ -	\$ -	\$ -	\$ -
2015	\$ 2,500,000	\$ -	\$ -	\$ 2,750,000
2016	\$ -	\$ -	\$ -	\$ -
2017+	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 2,500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,750,000</b>

**Associated Ers (list all applicable):**

7001			
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<b>ER</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017+</b>	<b>Total</b>	<b>Mandate Excerpt (if applicable):</b>
7001	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ 2,500,000	\$ -	\$ -	\$ 2,500,000	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,500,000</b>	

**Additional Justifications:**

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**Milestones (high level targets)**

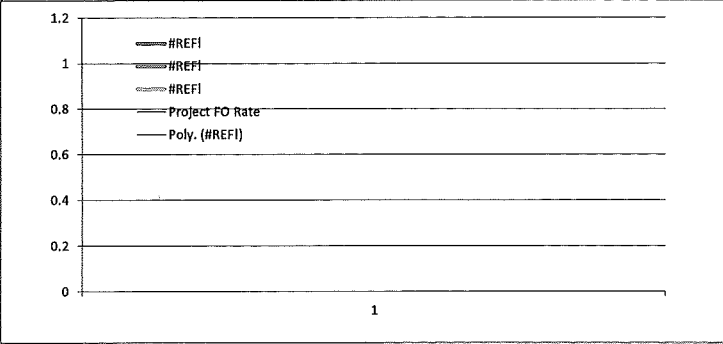
March-15	Start Construction
November-15	Plant in service

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

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



Prepared signature Vance Ruppert

Reviewed signature Eric Bowles  
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  
 2014-2016 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 2014-2016 (\$000s - System): \$5,000<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014													
2015	2,000	-	-	-	-	-	-	-	-	-	-	-	2,000
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**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 an increase in O&M costs related to this project occurring in 2015 and 2016 related to the need for additional parking at our Mission Campus. The amount included for the increase in O&M costs is \$11,000 in both 2015 and 2016 for a total of \$22,000. After final revenue requirements were established, it was determined that these costs should be allocated to all services and jurisdictions rather than just to Washington Electric and Gas. Washington’s correct allocation of these costs are \$10,600 Electric and \$3,100 Gas.

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



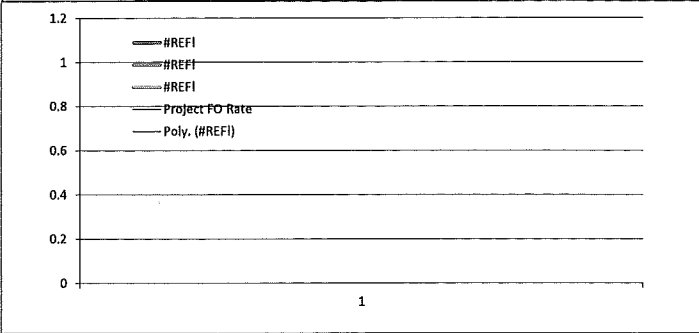


**Key Performance Indicator(s)**

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  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Natural Gas Distribution

**Business Case Name:** Aldyl A Replacement

**ER No:** 3008  
**ER Name:** Aldyl -A Pipe Replacement

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$50,905<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	4,342	-	-	-	-	-	-	-	-	-	1,549	640	2,153
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

**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.

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



<b>Investment Name:</b>	<b>Aldyl A Replacement_mains and bending stress</b>	<b>Assessments:</b>				
<b>Requested Amount</b>	<b>\$16.5MM</b>	<b>Financial:</b>	<b>Medium - &gt;= 5% &amp; &lt;9% CIRR</b>			
<b>Duration/Timeframe</b>	<b>20 Year Program</b>	<b>Strategic:</b>	<b>Life Cycle Programs</b>			
<b>Dept., Area:</b>	<b>Gas Delivery</b>	<b>Operational:</b>	<b>Operations require execution to perform at current levels</b>			
<b>Owner:</b>	<b>Mike Faulkenberry</b>	<b>Business Risk:</b>	<b>ERM Reduction &gt;5 and &lt;= 10</b>			
<b>Sponsor:</b>	<b>Don Kopczynski</b>	<b>Program Risk:</b>	<b>High certainty around cost, schedule and resources</b>			
<b>Category:</b>	<b>Program</b>	<b>Assessment Score:</b>	<b>89</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>		
<b>Mandate/Reg. Reference:</b>	<b>n/a</b>			<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>
<b>Recommend Program Description:</b>		<b>Performance</b>				<b>Business Risk Score</b>
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
				<b>Annual Cost Summary - Increase/(Decrease)</b>		
<b>Alternatives:</b>		<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
<b>Unfunded Program:</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	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
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
5 years of costs					Current ER				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>					
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					
<b>Total</b>	<b>\$ 69,504,897</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 124,589,236</b>					

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: <input checked="" 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

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

Exhibit No. <sup>ATTACHMENT 3</sup> (KKS-5)  
Attachment No. \_\_NGD-1.2

Fleet:

- YES - attach form
- YES - attach form

NO or Not Required

(this does not require a firm commitment)

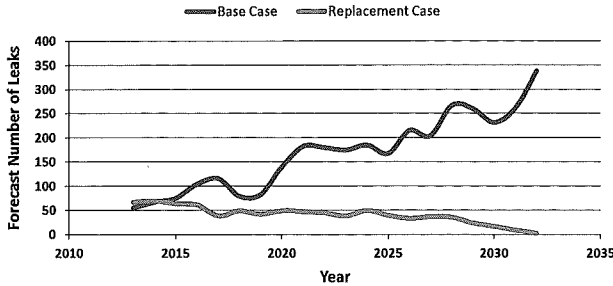
Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Prevention of leaks and their consequences
	Fill in the name of the KPI here

Prepared signature

Reviewed signature Director/Manager

Third Party Review signature (if necessary) Director/Manager

*Margie Stevens*  
 Director/Manager



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 NWNG.

**To be completed by Capital Planning Group**

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Natural Gas Distribution

**Business Case Name:** Cathodic Protection

**ER No: ER Name:**

3004 Cathodic Protection-Minor Blanket

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$2,650<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	210	-	-	-	-	-	-	-	-	-	11	123	75
2015	950	44	43	58	67	80	102	100	100	100	89	73	97
2016	1,000	47	45	61	70	84	106	104	105	105	94	76	104

**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.

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

Investment Name:	Cathodic Protection, Natural Gas
Requested Amount	\$950,000
Duration/Timeframe	on-going Year Program
Dept., Area:	Gas Operations
Owner:	Mike Faulkenberry
Sponsor:	Don Kopczynski
Category:	Mandatory
Mandate/Reg. Reference:	49 CFR 192, Subpart I - "Requirements for Corrosion Control"

Assessments:	9.00%
Financial:	9.00%
Strategic:	Reliability & capacity
Business Risk:	Business Risk Reduction >5 and <= 10
Program Risk:	Moderate certainty around cost, schedule and resources

Recommend Program Description: This annual 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.	Assessment Score:	138	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Performance	describe any incremental changes that this Program would benefit present operations	Capital Cost	O&M Cost	Other Costs	4

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Avista would be out of compliance in portions of its gas distribution system.	n/a	\$ -	\$ -	\$ -	12
Alternative 1: Project as described above.	Install new and replace existing cathodic protection system.	describe any incremental changes in operations	\$ 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

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 500,000	\$ -	\$ -	\$ 500,000
2014	\$ 800,000	\$ -	\$ -	\$ 700,000
2015	\$ 950,000	\$ -	\$ -	\$ 950,000
2016	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
2017	\$ 1,250,000	\$ -	\$ -	\$ 1,250,000
2018	\$ 1,250,000	\$ -	\$ -	\$ 1,250,000
2019	\$ 1,250,000	\$ -	\$ -	\$ 1,250,000
2020+	\$ 1,250,000	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 8,250,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,900,000</b>

3004			
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ER	2014	2015	2016	2017	2019	Total	Mandate Excerpt (if applicable):
3004	\$ 950,000	\$ 1,000,000	\$ 1,250,000	\$ 1,250,000	\$ 1,250,000	\$ 5,700,000	49 CFR 192.455(a) "Except as provided in paragraphs (b), (c), and (f) of this section, each buried or submerged pipeline installed after July 31, 1971, must be protected against external corrosion, including the following: (2) It must have (cont. below)
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ 950,000</b>	<b>\$ 1,000,000</b>	<b>\$ 1,250,000</b>	<b>\$ 1,250,000</b>	<b>\$ 1,250,000</b>	<b>\$ 5,700,000</b>	<b>Additional Justifications:</b> a cathodic protection system designed to protect the pipeline in accordance with this subpart, installed and placed in operation within 1 year after completion of construction.

**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

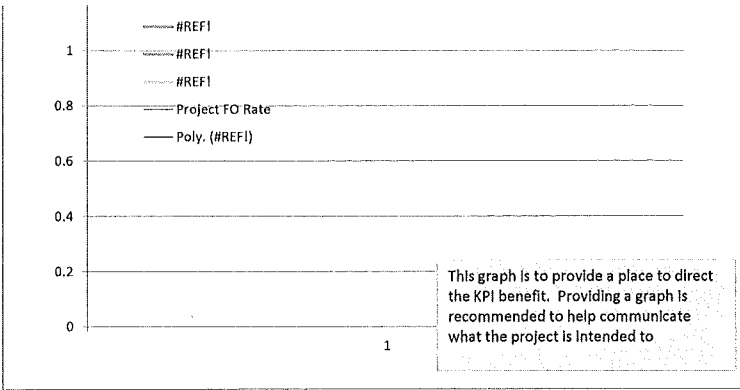
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

**Key Performance Indicator(s)**

Expected Performance Improvements

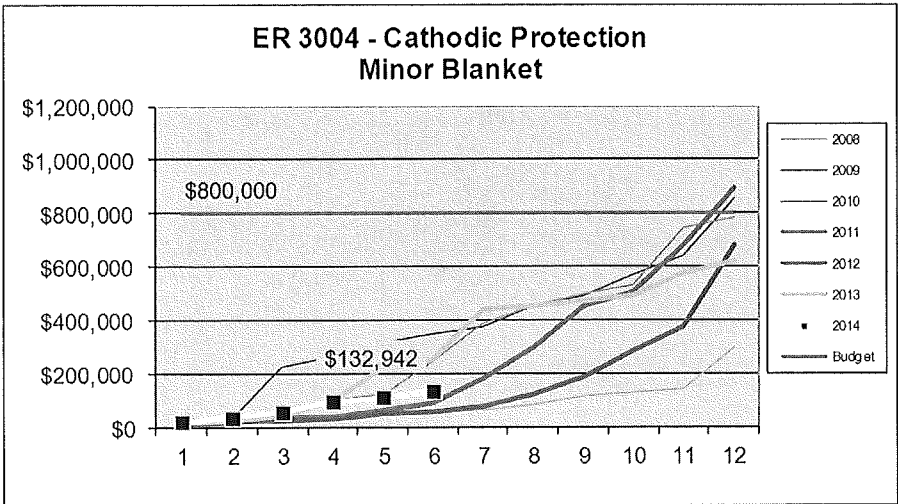
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here

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Reviewed signature \_\_\_\_\_ Director/Manager

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



...lating the Program

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



**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System): \$18,600<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,060	-	-	-	-	-	-	-	-	-	248	143	669
2015	7,664	627	472	506	655	620	633	765	653	656	761	559	757
2016	8,595	714	552	584	736	696	704	843	725	729	841	635	835

**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.

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



Investment Name:	<b>Gas Non-Revenue Program</b>	Assessments:	
Requested Amount	<b>\$5,600,000</b>	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)	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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	\$ -	\$ -	8

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

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
5 years of costs					Current ER				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>	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					
<b>Total</b>	<b>\$ 26,172,690</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 48,372,690</b>					

**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:	<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).

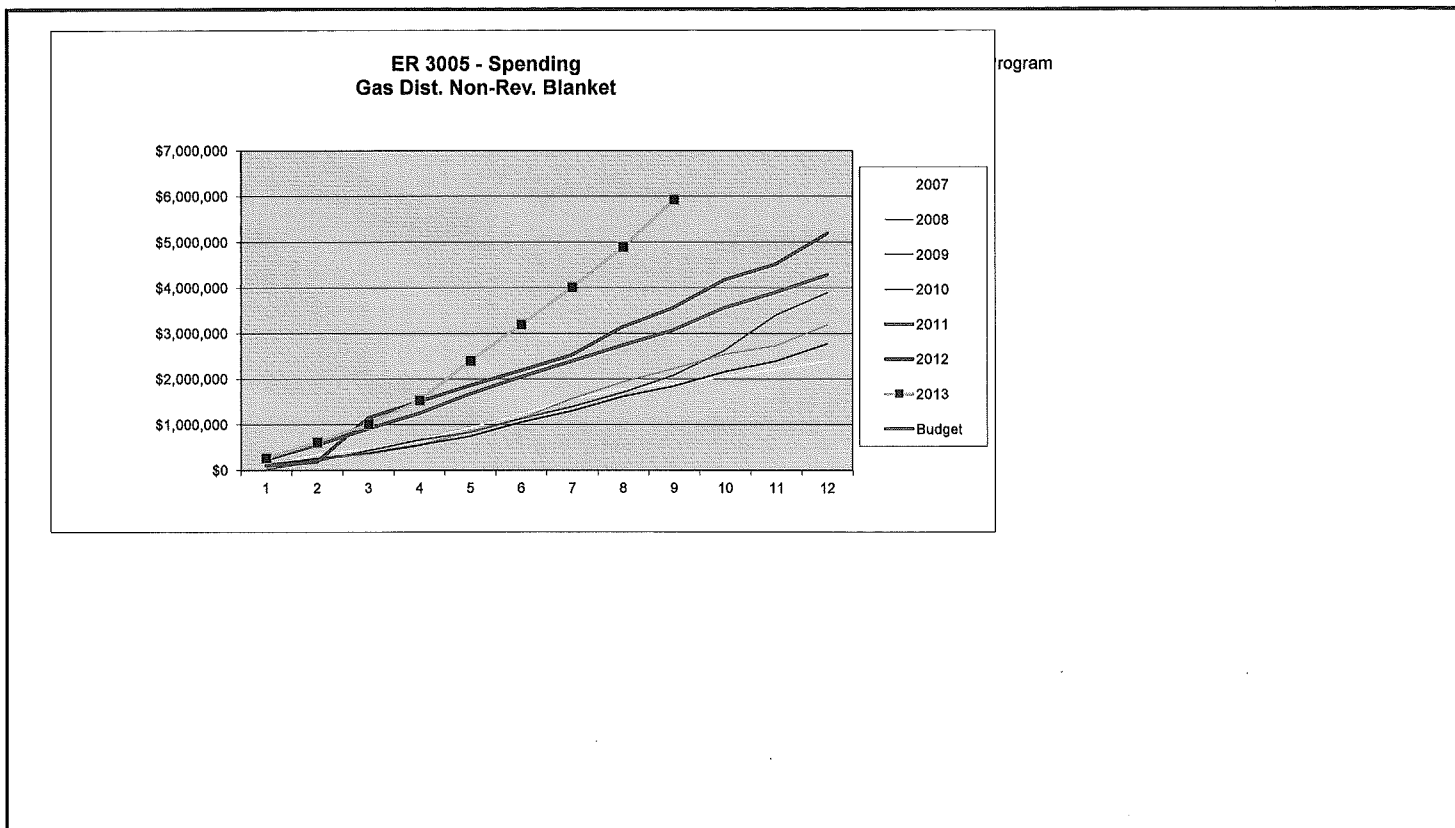


Key Performance Indicator(s)
Expected Performance Improvements
KPI Measure:

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Reviewed signature \_\_\_\_\_  
Director/Manager

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



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

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Natural Gas Distribution

**Business Case Name:** Gas Reinforcement

**ER No:** 3000    **ER Name:** Gas Reinforce-Minor Blanket

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):**    **\$3,000<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	122	-	-	-	-	-	-	-	-	-	27	18	77
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

**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.

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

<b>Investment Name:</b>	<b>Gas Reinforcement</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$1,000,000</b>	<b>Financial:</b>	<b>MH - &gt;= 9% &amp; &lt;12% CIRR</b>
<b>Duration/Timeframe</b>	<b>On-Going 2012+</b>	<b>Strategic:</b>	<b>Reliability &amp; Capacity</b>
<b>Dept., Area:</b>	<b>Gas Operations</b>	<b>Operational:</b>	<b>Operations not impacted by execution</b>
<b>Owner:</b>	<b>Mike Faulkenberry</b>	<b>Business Risk:</b>	<b>ERM Reduction &gt;10 and &lt;= 15</b>
<b>Sponsor:</b>	<b>Don Kopczynski</b>	<b>Program Risk:</b>	<b>Moderate certainty around cost, schedule and resources</b>
<b>Category:</b>	<b>Mandatory</b>	<b>Assessment Score:</b>	<b>143</b>
<b>Mandate/Reg. Reference:</b>	<b>WAC 480-90-148(2)(d), IDAPA 31.31.01.151, OR</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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	\$ -	\$ -	4

<b>Alternatives:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
<b>Status Quo :</b> 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
<b>Alternative 1: Pipe Installation</b> 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
<b>Alternative 2: Uprate Alternative</b> 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
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b> Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (Ist all applicable):</b>				
2012-2016					Current ER				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved Capital</b>	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					
<b>Total</b>	<b>\$ 6,500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,920,000</b>					

**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



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

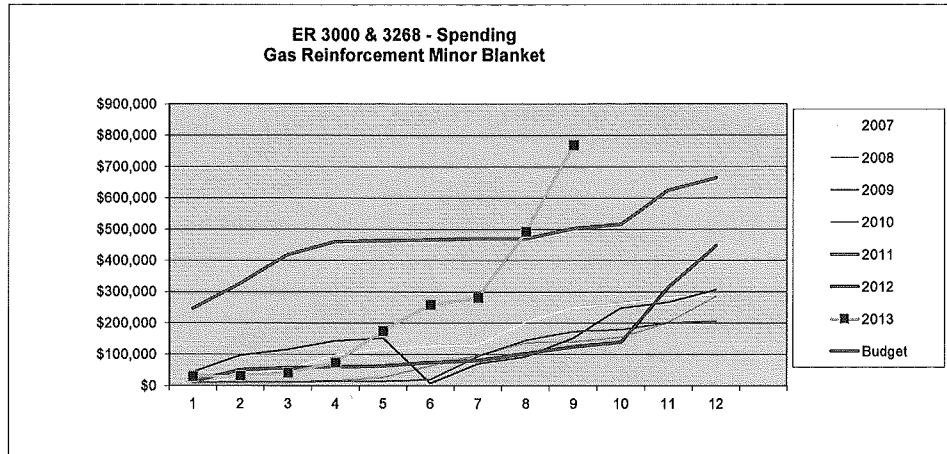
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

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 *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
Gas Reinforcement	12	16	4	2 - \$200K - \$2MM	< Once / year	4 - Potential for regulators to impose onerous restrictions or Board or 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					
				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 - 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  
2014-2016 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 2014-2016 (\$000s - System): \$13,300<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,010	-	-	-	-	-	-	-	-	-	(18)	376	651
2015	4,500	266	244	283	322	395	408	401	434	436	431	329	552
2016	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.

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



Investment Name:	<b>Gas Replacement Street and Highway</b>	Assessments:	
Requested Amount	<b>\$4,500,000</b>	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	O&M Cost	Other Costs	Business Risk Score
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.	describe any incremental changes that this Program would benefit present operations	\$ 4,500,000	\$ -	\$ -	2

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

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

**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.





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

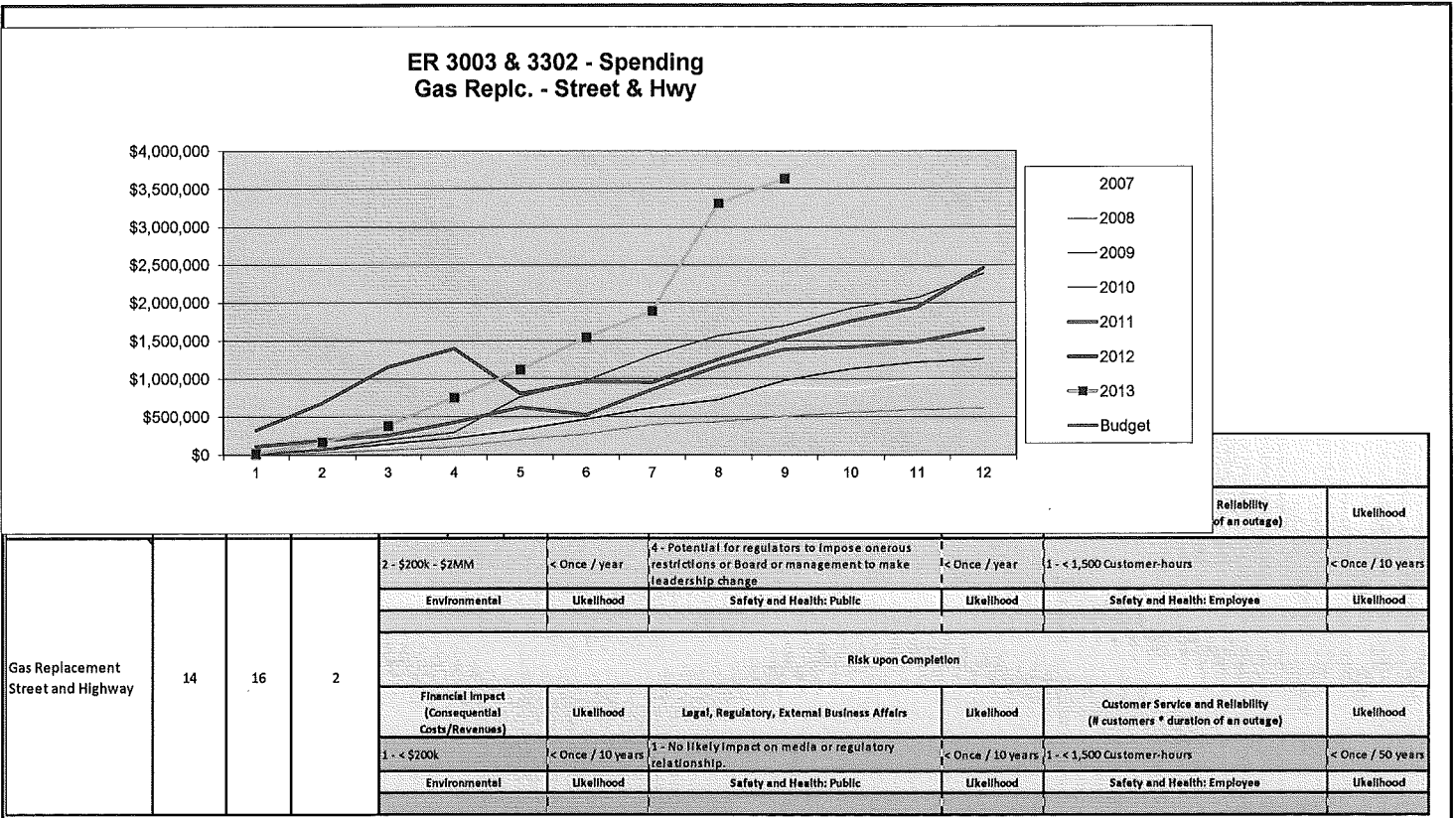
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

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

Prepared signature \_\_\_\_\_

Reviewed signature \_\_\_\_\_  
 Director/Manager

Other Party Review signature \_\_\_\_\_  
 (if necessary) Director/Manager



To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System):** \$1,115<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	53	-	-	-	-	-	-	-	-	-	3	7	42
2015	400	32	26	27	30	34	33	38	35	35	36	30	43
2016	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.

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



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	Assessment Score:	
Category:	Program		
Mandate/Reg. Reference:	CFR 192.741 192.631		

Recommend Program Description:	#NAME?	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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 pipeline values and to receive more timely information from the field.	describe any incremental changes that this Program would benefit present operations	\$ 400,000	\$ -	\$ -	1

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
Unfunded Program: No further enhancements or maintenance of the existing telemetry system. Existing mechanical pressure recorders are expensive to fix and replace.	n/a	\$ -	\$ 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

	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

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. CFR 192.631 - Control Room Mgmt
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	<b>Additional Justifications:</b> 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.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 2,000,000	

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	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:

Prepared signature

Reviewed signature  
Director/Manager

Other Party Review signature  
(if necessary) *Maurie 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  
2014-2016 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 2014-2016 (\$000s - System):** \$8,758<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	550	-	-	-	-	-	-	-	-	-	167	96	287
2015	3,450	245	210	227	253	301	294	313	312	315	322	256	401
2016	3,550	250	215	233	260	310	303	321	322	325	332	263	415

**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.

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



<b>Investment Name:</b>	<b>Isolated Steel Replacement</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$2,598,333</b>	<b>Financial:</b>	<b>High - Exceeds 12% CIRR</b>
<b>Duration/Timeframe</b>	<b>On-Going</b>	<b>Strategic:</b>	<b>Reliability &amp; Capacity</b>
<b>Dept., Area:</b>	<b>Gas Operations</b>	<b>Operational:</b>	<b>Operations somewhat impacted by execution</b>
<b>Owner:</b>	<b>Mike Faulkenberry</b>	<b>Business Risk:</b>	<b>ERM Reduction &gt;0 and &lt;= 5</b>
<b>Sponsor:</b>	<b>Don Kopczynski</b>	<b>Program Risk:</b>	<b>Moderate certainty around cost, schedule and resources</b>
<b>Category:</b>	<b>Mandatory</b>	<b>Assessment Score:</b>	<b>117</b>
<b>Mandate/Reg. Reference:</b>	<b>WAC Docket PG-100049, 49CFR192.455&amp;157</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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

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

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
2012-2016					Current ER				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved Capital</b>	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					
<b>Total</b>	<b>\$ 23,088,103</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 20,921,666</b>					

**Mandate Excerpt (if applicable):**  
Docket PG-100049 (III) - "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:**

**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

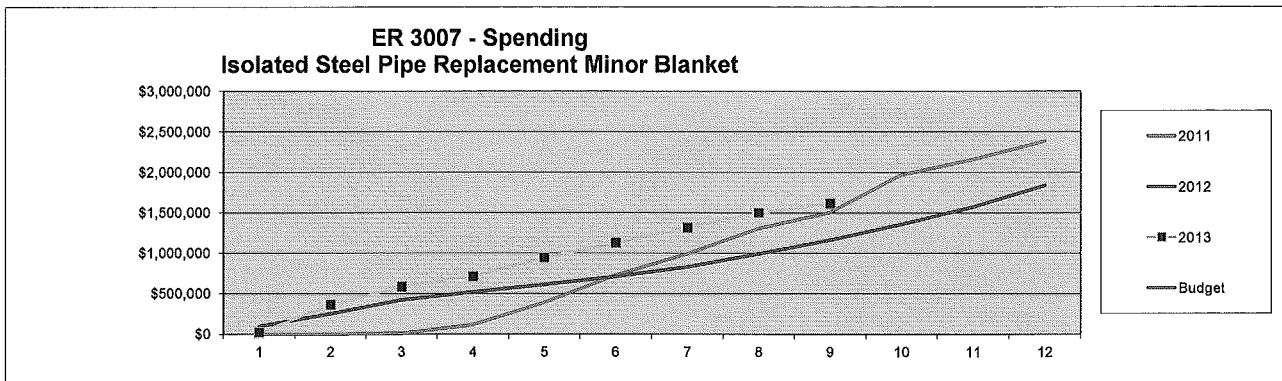
KPI Measure:

	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	<b>Total YTD 2013</b>	<b>815</b>	<b>1220</b>	<b>67%</b>

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Reviewed signature \_\_\_\_\_ Director/Manager

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



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 for 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  
2014-2016 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 2014-2016 (\$000s - System):**    **\$2,500<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	81	-	-	-	-	-	-	-	-	-	6	3	72
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

**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.

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





<b>Investment Name:</b>	<b>Overbuilt Pipe Replacement</b>	<b>Assessments:</b>									
<b>Requested Amount</b>	<b>\$900,000</b>	<b>Financial:</b>	<b>7.00%</b>								
<b>Duration/Timeframe</b>	<b>On Going Year Program</b>	<b>Strategic:</b>	<b>Reliability &amp; Capacity</b>								
<b>Dept., Area:</b>	<b>Gas Operations</b>	<b>Business Risk:</b>	<b>Business Risk Reduction &gt;5 and &lt;= 10</b>								
<b>Owner:</b>	<b>Mike Faulkenberry</b>	<b>Program Risk:</b>	<b>High certainty around cost, schedule and resources</b>								
<b>Sponsor:</b>	<b>Don Kopczynski</b>										
<b>Category:</b>	<b>Mandatory</b>										
<b>Mandate/Reg. Reference:</b>	<b>49 CFR 192.361(f)</b>	<b>Assessment Score:</b>	<b>#NAME?</b>								
<b>Recommend Program Description:</b>		<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>								
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"> <thead> <tr> <th>Capital Cost</th> <th>O&amp;M Cost</th> <th>Other Costs</th> <th>Business Risk Score</th> </tr> </thead> <tbody> <tr> <td>\$ 900,000</td> <td>\$ -</td> <td>\$ -</td> <td>4</td> </tr> </tbody> </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	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Unfunded Program:</b>	Avista will continue operating with increased risk due to overbuilds	n/a	\$ -	\$ -	\$ -	12
<b>Alternative 1: Brief name of alternative (if applicable)</b>	Complete programmatic replacement of overbuilt pipe.	describe any incremental changes in operations	\$ 900,000	\$ -	\$ -	4
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

	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
<b>Total</b>	<b>\$ 5,400,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,670,000</b>

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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	<b>Additional Justifications:</b> Avista operates with an increase risk to its customers and the general public when operating pipeline facilities that exist under structures.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>	<b>\$ 4,500,000</b>	

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).



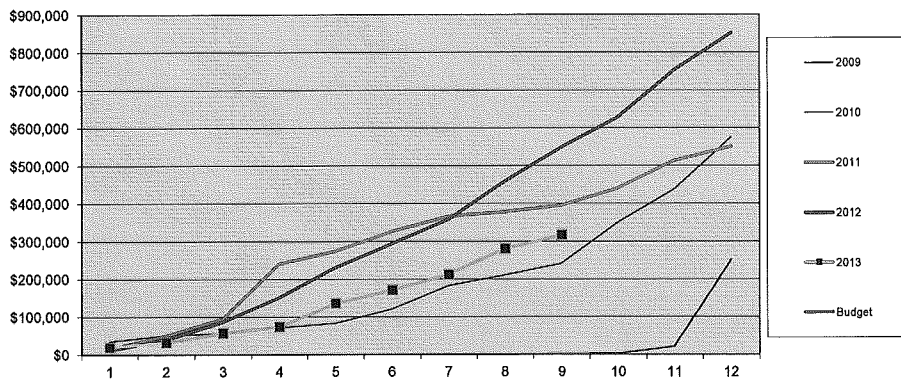
Key Performance Indicator(s)
Expected Performance Improvements
KPI Measure:

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Reviewed signature Director/Manager

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

ER 3006 - Spending  
Overbuilt Pipe Replacement Minor Blanket



To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System):**    **\$2,325<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	59	-	-	-	-	-	-	-	-	-	7	5	47
2015	800	45	39	51	58	64	88	94	81	82	70	64	63
2016	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.

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



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

Recommend Program Description: This annual program will replace or upgrade existing regulator stations and meter stations to current Avista standards.
Performance: describe any incremental changes that this Program would benefit present operations
Capital Cost: \$ 600,000
O&M Cost: \$ -
Other Costs: \$ -
Business Risk Score: 1

Alternatives:
Unfunded Program: Maintenance may not be able to be completed properly due to antiquated equipment.
Alternative 1: Complete as described above. Stations that require upgrade or replacement are identified on an on-going basis to ensure continued reliable operations.
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
Table with columns: Capital Cost, O&M Cost, Other Costs, Approved
Rows: Previous, 2014, 2015, 2016, 2017, 2018, 2019, 2020+, Total

Associated Ers (list all applicable):
3002

Table with columns: ER, 2014, 2015, 2016, 2017, 2019, Total
Mandate Excerpt (if applicable): CFR § 192.739 - Pressure-limiting and regulating stations: Inspection and testing. Mandates that Regulating Stations must be inspected annually.
Additional Justifications: Approximately 50% of the spending is required to satisfy the replacement of antiquated equipment or have an elevated safety risk.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability: [ ] Low Probability [ ] Medium Probability [x] High Probability
Contract Labor: [ ] YES [x] NO

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

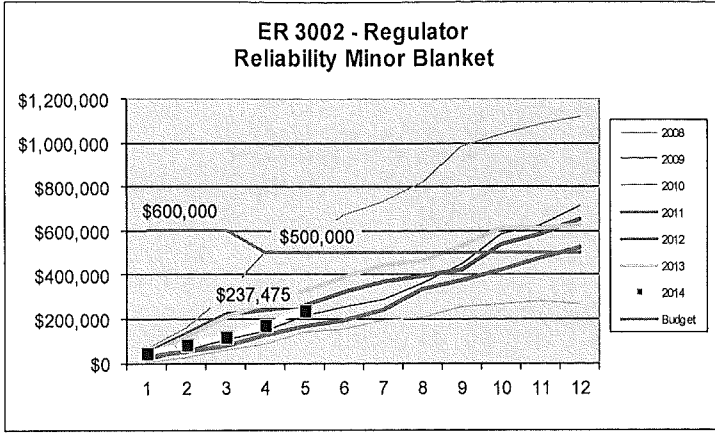
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

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

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ER 3002 - Regulator Reliability Minor Blanket





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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  
2014-2016 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 2014-2016 (\$000s - System): \$3,280<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	107	-	-	-	-	-	-	-	-	-	0	-	107
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

**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.

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



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

Recommend Program Description:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
Status Quo :			Capital Cost	O&M Cost	Other Costs	
	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
<b>Alternative 1: Pipe Installation</b>	Strategically replace sections of at-risk steel piping.	Reduced risk of system leaks	\$ 800,000	\$ -	\$ -	1
<b>Alternative 2:</b>		describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name:</b> 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					
<b>Total</b>	<b>\$ 6,200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,745,000</b>					

**Mandate Excerpt (if applicable):**  
 N/A

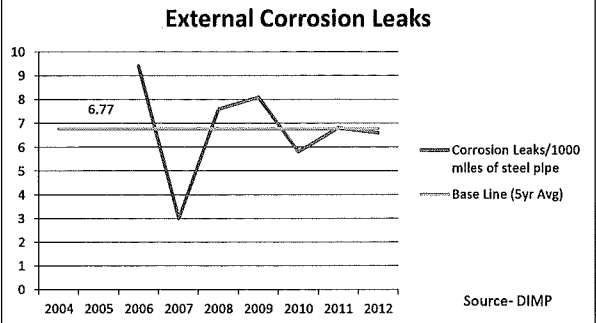
**Additional Justifications:**  
 This program has been executed historically using a qualitative assessment method at the district level.

**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

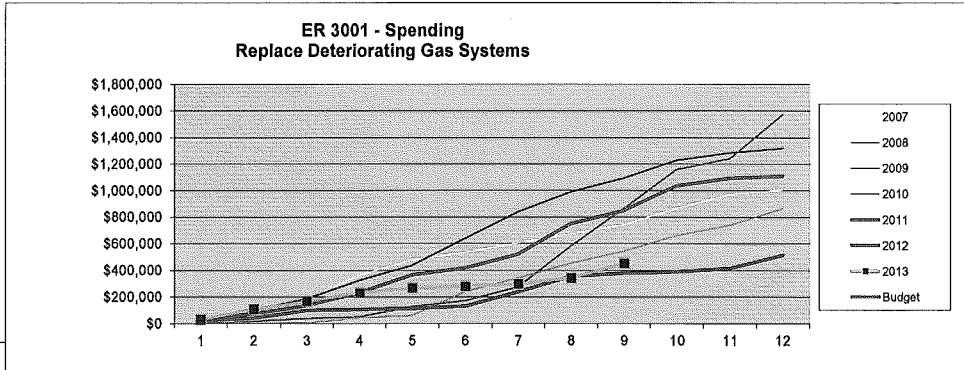


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Other Party Review signature Director/Manager  
 (if necessary) *Margie Stevens*

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Business Case	Reduction	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 - < 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 / year	3 - Potential for serious injury Significant damage to equipment, property or business Public health Infrastructure Impact up to 48 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 / 50 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	
	Date	Template



**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System):** \$3,266<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	121	-	-	-	-	-	-	-	-	-	18	18	85
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

**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.

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



Investment Name:	<b>Gas PMC Program</b>	Assessments:	
Requested Amount	<b>\$1,000,000</b>	Financial:	<b>High - Exceeds 12% CIRR</b>
Duration/Timeframe	<b>On-Going Year Program</b>	Strategic:	<b>Reliability &amp; Capacity</b>
Dept., Area:	<b>Gas Engineering</b>	Business Risk:	<b>Business Risk Reduction &gt;10 and &lt;= 15</b>
Owner:	<b>Mike Faulkenberry</b>	Program Risk:	<b>Moderate certainty around cost, schedule and resources</b>
Sponsor:	<b>Don Kopczynski</b>	Assessment Score:	<b>185</b>
Category:	<b>Mandatory</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>	
Mandate/Reg. Reference:	<b>WAC 480-90-348, IDAPA 31.31.01.151-200, OAR</b>		

<b>Recommend Program Description:</b> 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.	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
		\$ 1,000,000	\$ -	\$ -	0

<b>Alternatives:</b>					
<b>Status Quo :</b>	Avista would be out of compliance with state administrative requirements in WA, ID, and OR related to gas measurement and could face fines if not completed.	n/a	\$ -	\$ -	0
<b>Alternative 1:</b>	Replacement gas meters, ERTs, and regulators as part of the gas meter PMC program and complete strategic enhancement of the telemetry and measurement technology systems.		\$ 1,000,000	\$ -	0
<b>Alternative 2:</b>			\$ -	\$ -	0
			\$ -	\$ -	0

Program Cash Flows				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ -	\$ -	\$ -	\$ -
2013	\$ -	\$ -	\$ -	\$ -
2014	\$ 1,000,000	\$ -	\$ -	\$ 1,175,000
2015	\$ 1,030,000	\$ -	\$ -	\$ 1,030,000
2016	\$ 1,060,900	\$ -	\$ -	\$ 1,060,900
2017	\$ 1,092,727	\$ -	\$ -	\$ 1,092,727
2018	\$ 1,125,509	\$ -	\$ -	\$ 1,125,509
2019	\$ -	\$ -	\$ -	\$ 1,159,274
<b>Total</b>	<b>\$ 5,309,136</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,643,410</b>

Associated Ers (list all applicable):			
3055			

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
3055	\$ -	\$ 1,000,000	\$ 1,030,000	\$ 1,060,900	\$ 1,092,727	\$ 4,183,627	see below
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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<b>Total</b>	<b>\$ -</b>	<b>\$ 1,000,000</b>	<b>\$ 1,030,000</b>	<b>\$ 1,060,900</b>	<b>\$ 1,092,727</b>	<b>\$ 4,183,627</b>	

**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:	# of meter changed out vs. # required (this changes annually)

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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

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 - \$2MM	< Once / year	4 - Potential for regulators to impose onerous restrictions or Board or management to make leadership change	< Once / year	1 - < 1500 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 relationship	< Once / 50 years	1 - < 1500 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  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Natural Gas Distribution

**Business Case Name:** Goldendale High Pressure Main Replacement

**ER No:** 3306  
**ER Name:** Goldendale HP

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$3,500<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	3,505	-	-	-	-	-	-	-	-	-	2,955	275	275
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**Business Case Description:**

The coating on the existing high pressure main that feeds the town of Goldendale is disbanded and is showing signs of early stages of corrosion. This line has been exposed in several different locations, and all sections have similar characteristics. It is proposed to replace nearly 3 miles of 4" HP feeding the town of Goldendale with new 4" steel main. Federal code mandates that the coating on steel mains must be properly adhered to the main to protect the pipe from corrosion. This gas system was purchased from Columbia Gas Co and the construction records are not complete, an added benefit to replacement would be the opportunity to have complete construction and pressure test documentation.

**Offsets:**

There are no anticipated offsets with this business case.

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



<b>Investment Name:</b>	Goldendale HP	<b>Assessments:</b>	
<b>Requested Amount</b>	\$0	<b>Financial:</b>	7.00%
<b>Duration/Timeframe</b>	1 Year Project	<b>Strategic:</b>	Reliability & Capacity
<b>Dept., Area:</b>	Gas Engineering	<b>Business Risk:</b>	Business Risk Reduction >10 and <= 15
<b>Owner:</b>	Mike Faulkenberry	<b>Project Risk:</b>	High certainty around cost, schedule and resources
<b>Sponsor:</b>	Don Kopczyński	<b>Assessment Score:</b>	
<b>Category:</b>	Project		
<b>Mandate/Reg. Reference:</b>	CFR 192.459 192.461		

Recommend Project Description:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
The coating on the existing HP main that feeds the town of Goldendale is disbonded and is showing signs of early stages of corrosion. This line has been exposed in several different locations, all have similar characteristics. It is proposed to replace nearly 3 miles of 4" HP feeding the town of Goldendale with new 4" steel main. Federal code mandates that the coating on steel mains must be properly adhered to the main to protect the pipe from corrosion. This gas system was purchased from Columbia Gas Co and the construction records are not complete, an added benefit to replacement would be the opportunity to have complete construction and pressure test documentation.		\$ 3,500,000	\$ -	\$ -	1

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
<b>Unfunded Project:</b> If unfunded, we could face potential fines from the WUTC.		\$ -	\$ 100,000	\$ -	12
<b>Relocate Meter Stn</b> Replace 3 miles of 4" HP gas main as described above.		\$ 3,500,000	\$ -	\$ -	1
<b>Rewrap pipe</b> Rewrap the 3 miles of HP gas main	high O&M expense	\$ -	\$ 2,000,000	\$ -	0
<b>Alternative 3 Name:</b> 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	\$ -	\$ -	\$ -	\$ -
2015	\$ 3,500,000	\$ -	\$ -	\$ 3,500,000
2016	\$ -	\$ -	\$ -	\$ -
2017+	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	\$ 3,500,000	\$ -	\$ -	\$ 3,500,000

**Associated Ers (list all applicable):**

3xxx			

ER	2013	2014	2015	2016	2017+	Total	Mandate Excerpt (if applicable):
3xxx	\$ -	\$ -	\$ 3,500,000	\$ -	\$ -	\$ 3,500,000	192.459 Corrosion control: Examination of buried pipeline when exposed. 192.461 Corrosion control: Protective coatings
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	\$ -	\$ -	\$ 3,500,000	\$ -	\$ -	\$ 3,500,000	

**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)**

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
January-00	open	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)**

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

<b>Key Performance Indicator(s)</b>
Expected Performance Improvements
KPI Measure:

Prepared signature

Reviewed signature  
 Director/Manager

Other Party Review signature  
 (if necessary) *Maurice Stewenz*  
 Director/Manager

June 25, 2013

Jody Morehouse:

SUBJECT: Goldendale High Pressure Coating Adhesion

As per federal code 49, part 192.461 a coating system must be installed with sufficient adhesion to the metal surface to effectively resist under film migration of moisture. The coating system on the Goldendale HP between the gate station and the regulation station in town appears to consist of a thin plastic. The adhesion of the coating is nonexistent; migration of moisture under the coating is present. Kenny Gibson recently installed test leads at several locations, Ken was asked to visually inspect the pipe and provide photographic evidence of what he observed. The photos are included with the recommendation.

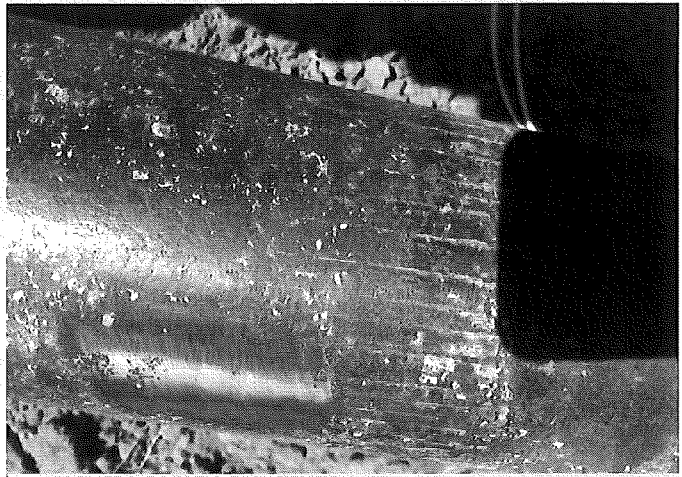
Cathodic Protection levels on the piping are at adequate levels. However cathodic protection currents work much like a flash light, the current only gathers on those sections of pipe that are exposed to the soil. Therefore a coating that is loosely adhered to the metal is effectively shielded the pipe from the cathodic protection current and the environment. Therefore a separate corrosion cell can develop between the coating and the metal.

**RECOMMENDATION:**

- According to Kenny Gibson the pipe seemed to be in pretty good shape other than the whitish material under the coating adhered to the metal. This is a corrosion product left behind from the corrosion cell between cathodic and anodic areas on the metals surface. The existing pipe would need to be cleaned to an SSPC-SP 5/NACE No. 1 (near white metal) and coated with an epoxy type coating system.
- Another option would be to remove the HP piping and install a new pipe with and FBE (fusion bonded epoxy) coating.

Gary Douglas

Cathodic Protection Specialist



**To be completed by Capital Planning Group**

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Natural Gas Distribution

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

**ER No:** 3054  
**ER Name:** Gas ERT Replacement Program

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$846<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
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

**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.

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



Investment Name:	ERT Replacement Program
Requested Amount	\$0
Duration/Timeframe	12 Year Program
Dept., Area:	Gas Engineering
Owner:	Mike Faulkenberry
Sponsor:	Don Kopczynski
Category:	Program
Mandate/Reg. Reference:	n/a

<b>Assessments:</b>	
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

<b>Recommend Program Description:</b> 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 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). Cost of the ERT will go against ER1053, not this business case.	<b>#NAME?</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>			
	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
As ERTs are replaced in a planned way, the impact to operations resources and customer billing	\$ 901,890	\$ 8,000	\$ -	1	

<b>Alternatives:</b>		<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>			
<b>Unfunded Program:</b>	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 populations	n/a	\$ 1,058,000	\$ 117,000	\$ -	2
<b>Alternative 1: Brief name of alternative (if applicable)</b>	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 levelized so there are no more than 19,500 units	As ERTs are refreshed, trouble calls for field failures	\$ 901,890	\$ 8,000	\$ -	1
<b>Alternative 2: Brief name of alternative (if applicable)</b>	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
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	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
<b>Total</b>	<b>\$ 4,980,846</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,480,846</b>

**Associated Ers (list all applicable):**

3054			

ER	2014	2015	2016	2017	2018	Total
3054	\$ -	\$ 901,890	\$ 943,960	\$ 994,140	\$ 1,044,320	\$ 3,884,310
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ -</b>	<b>\$ 901,890</b>	<b>\$ 943,960</b>	<b>\$ 994,140</b>	<b>\$ 1,044,320</b>	<b>\$ 3,884,310</b>

**Mandate Excerpt (if applicable):**

**Additional Justifications:**  
see below

**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

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).



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

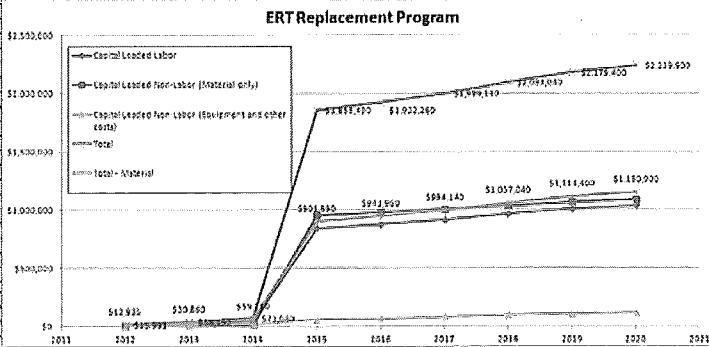
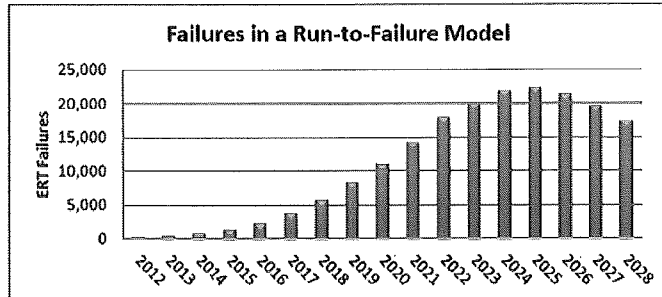
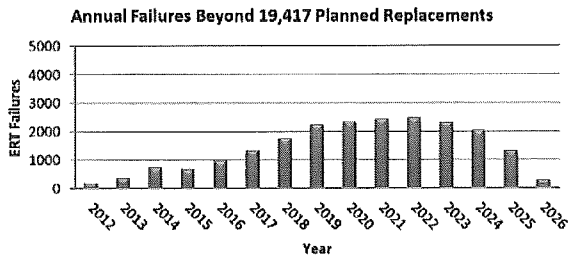
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Reviewed signature  
Director/Manager

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  
2014-2017 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 2014-2016 (\$000s - System): \$3,070<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	205	-	-	-	-	-	-	-	-	-	204	2	-
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

**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.

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



Investment Name:	<b>Jackson Prairie Storage</b>	Assessments:	
Requested Amount	<b>\$1,000,000</b>	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 certainty around cost, schedule and resources
Category:	Program	Assessment Score:	116
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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	\$ -	\$ -	2

<b>Alternatives:</b>		<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>			<b>Business Risk Score</b>
<b>Status Quo :</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	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
<b>Alternative 2: Brief name of alternative (if applicable)</b>	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
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
2012-2016					ER 7201				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>					
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

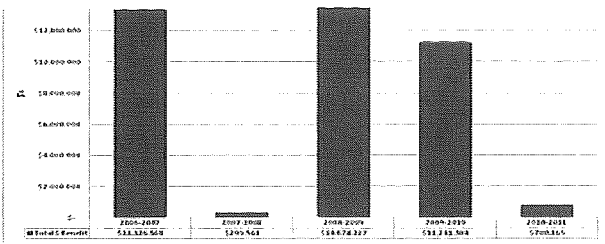
KPI Measure:	Avoided gas costs through use of JP storage
	Fill in the name of the KPI here
	JP WA/ID Avoided Winter Cost

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Capital Investment Business Case

ATTACHMENT 3  
Exhibit No. \_\_ (KKS-5)  
Attachment No. \_\_ GUS-1.2



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
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					
				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				

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Transportation

**Business Case Name:** Fleet Budget

**ER No:** 7000  
**ER Name:** Transportation Equip

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$21,100<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,404	-	-	-	-	-	-	-	-	-	(0)	939	465
2015	7,700	643	641	641	641	642	641	643	641	641	642	642	641
2016	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.

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

Capital Program Business Case

<b>Investment Name:</b>	<b>Fleet Budget</b>
<b>Requested Amount</b>	<b>7,700,000</b>
<b>Duration/Timeframe</b>	5 Year Program
<b>Dept., Area:</b>	Fleet Services
<b>Owner:</b>	Chris Schlothauer
<b>Sponsor:</b>	Don Kopczynski
<b>Category:</b>	Program
<b>Mandate/Reg. Reference:</b>	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:**

#NAME?	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Capital Cost	O&M Cost	Other Costs	
<b>Recommend Program Description:</b> 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.	\$ 7,700,000	\$ -	\$ -	4

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

Program Cash Flows	Associated Ers (list all applicable):		
	Capital Cost	O&M Cost	Other Costs
Previous	\$ -	\$ -	\$ -
2014	\$ 7,595,175	\$ -	\$ 5,700,406
2015	\$ 7,700,000	\$ -	\$ 7,700,000
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

# Capital Program Business Case



2020+	\$	-	\$	-	\$	-	\$
<b>Total</b>	<b>\$</b>	<b>50,142,536</b>	<b>\$</b>	<b>-</b>	<b>\$</b>	<b>-</b>	<b>\$ 44,200,406</b>

ER	2015	2016	2017	2018	2019	Total	Mandate Excerpt (if applicable): provide brief citation of the law or regulation and a reference number if possible
7000	\$ 7,700,000	\$ 8,085,000	\$ 8,489,250	\$ 8,913,713	\$ 9,359,398	\$ 42,547,361	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ 7,700,000</b>	<b>\$ 8,085,000</b>	<b>\$ 8,489,250</b>	<b>\$ 8,913,713</b>	<b>\$ 9,359,398</b>	<b>\$ 42,547,361</b>	

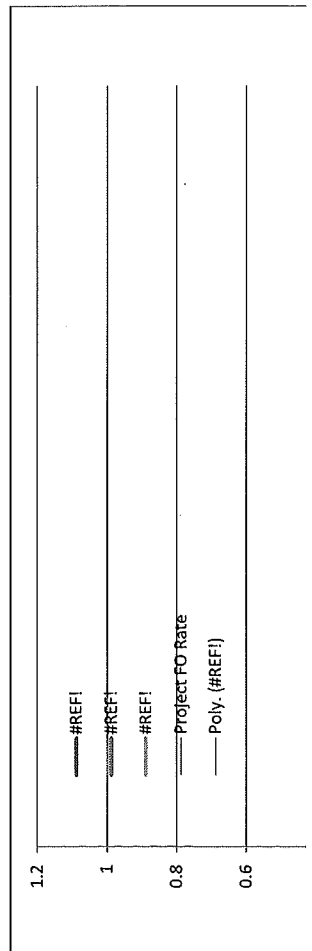
**Resources Requirements: (request forms and approvals attached)**

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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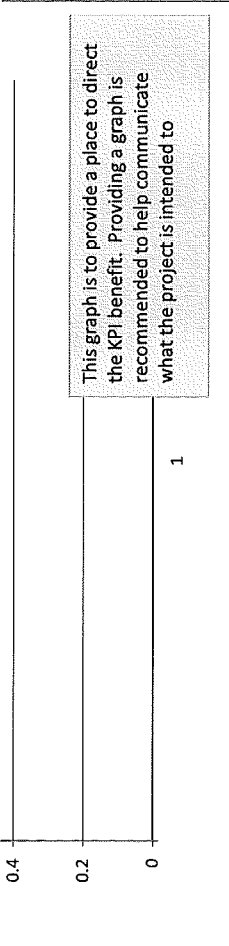
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 Director/Manager

Other Party Review signature  
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 Maggie Stevens

Capital Program Business Case

Director/Manager

(if necessary)



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  
2014-2016 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 2014-2016 (\$000s - System): \$ 7,037<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,538	-	-	-	-	-	-	-	-	-	-	-	1,538
2015	4,125	-	-	-	-	-	-	-	-	-	-	4,125	-
2016	2,000	-	-	-	-	-	-	-	-	-	-	-	2,000

**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.

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



<b>Investment Name:</b>	<b>AvistaUtilities.com Redesign</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$1,500,000</b>	<b>Financial:</b>	<b>7.00%</b>
<b>Duration/Timeframe</b>	<b>3 Year Project</b>	<b>Strategic:</b>	<b>Customer Experience</b>
<b>Dept., Area:</b>	<b>Customer Solutions</b>	<b>Business Risk:</b>	<b>Business Risk Reduction &gt;5 and &lt;= 10</b>
<b>Owner:</b>	<b>Dana Anderson, Jim Corder</b>	<b>Project Risk:</b>	<b>Moderate certainty around cost, schedule and resources</b>
<b>Sponsor:</b>	<b>Dana Anderson, Jim Kensok</b>	<b>Assessment Score:</b>	<b>77</b>
<b>Category:</b>	<b>Project</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>	
<b>Mandate/Reg. Reference:</b>	<b>n/a</b>	<b>Performance</b>	<b>Capital Cost</b>
<b>Recommend Project Description:</b>		<b>O&amp;M Cost</b>	<b>Other Costs</b>
See Attached Project Charters.			<b>Business Risk Score</b>
		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
<b>Unfunded Project:</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	Redesign of AvistaUtilities.com	Improved usability, capability and new technology	\$ 1,000,000	\$ 500,000	\$ -	0
<b>Alternative 2: Brief name of alternative (if applicable)</b>			\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>			\$ -	\$ -	\$ -	0

Program Cash Flows

	Capital Cost	O&M Cost	Other Costs	Approved
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)	\$ -
<b>Total</b>	<b>\$ 1,500,000</b>	<b>\$ 500,000</b>	<b>\$ (450,000)</b>	<b>\$ 7,466,452</b>

Associated Ers (list all applicable):

New			

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
<b>New</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	<b>Additional Justifications:</b> 1. The benefits are defined in the attached charter. In general they relate to a redesigned site for Improved usability for customers as well as improved tools for employee information. 2. This project supports the Customer Engagement strategy by improving the website to better serve customers. 3. This Project supports the Employee strategy by Improving capability for delivering information to employees.

Milestones (high level targets)

September-12	Project Start	January-00	open	January-00	open
January-13	Phase 0 Complete	January-00	open	January-00	open
April-13	Phase 1 Complete	January-00	open	January-00	open
August-13	Phase 2 Complete	January-00	open	January-00	open
February-14	Phase 3 Complete	January-00	open	January-00	open
January-00	open	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)

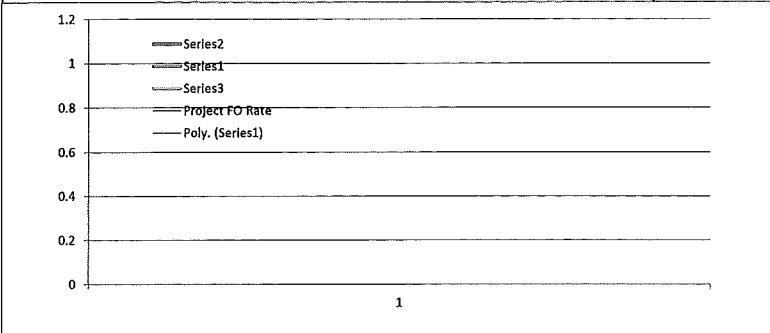
Internal Labor Availability:  Low Probability  Medium Probability  High Probability  
 Contract Labor:  YES  NO

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 *Maura 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  
2014-2016 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 2014-2016 (\$000s - System): \$ 1,382<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	121	-	-	-	-	-	-	-	-	-	-	-	121
2015	450	-	-	113	-	-	113	-	-	113	-	-	113
2016	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.

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



Investment Name:	<b>Enterprise Business Continuity Plan</b>	Assessments:	
Requested Amount	<b>\$482,000</b>	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)	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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

<b>Alternatives:</b>		<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>			<b>Business Risk Score</b>
<b>Unfunded Program:</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	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
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
5 years of costs					5010				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>					
	\$ 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					
<b>Total</b>	<b>\$ 3,482,000</b>	<b>\$ 4,545,186</b>	<b>\$ -</b>	<b>\$ 3,696,000</b>					

**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).



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 *Maurice 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  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Enterprise Technology

**Business Case Name:** Mobility in the Field

**ER No: ER Name:**

5144 Mobility in the Field

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$ 1,270<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	189	-	-	-	-	-	-	-	-	-	12	5	173
2015	450	-	-	113	-	-	113	-	-	113	-	-	113
2016	320	-	-	80	-	-	80	-	-	80	-	-	80

**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.

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





Investment Name:	<b>Mobility in the Field</b>	Assessments:	
Requested Amount	<b>\$200,000</b>	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 Kopczynski & 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 DeFelice. 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	Capital Cost	O&M Cost	Other Costs	Approved	Current ER			
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

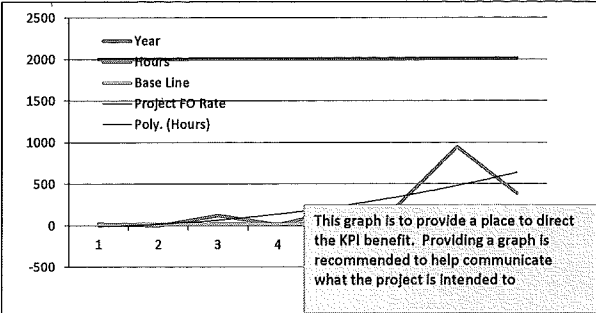
ATTACHMENT 3  
Exhibit No. (KKS-5)  
Attachment No. ET-3.2

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

Level 3 users should be checked to ensure that 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: To be determined by each project  
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 Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Enterprise Technology

**Business Case Name:** Technology Refresh to Sustain Business Process

**ER No:** 5005  
**ER Name:** Information Technology Refresh Program

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$ 47,552 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	5,421	-	-	-	-	-	-	-	-	-	1,131	570	3,721
2015	18,595	-	-	4,649	-	-	4,649	-	-	4,649	-	-	4,649
2016	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.

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



Investment Name:	<b>Technology Refresh to Sustain Business Proce</b>		
Requested Amount	\$	<b>15,362,243</b>	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 certainly around cost, schedule and resources
Mandate/Reg. Reference:	n/a		Assessment Score: 89

Recommend Program Description:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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 operation of the business	\$ 15,362,243		\$ -	15

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
<b>Unfunded Program:</b> 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	\$ -		\$ 1,895,751	20
<b>Technology Refresh Programs</b>	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.	\$ 15,362,243	\$ -	\$ -	15
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	\$ -	\$ -	\$ -	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					
<b>Total</b>	<b>\$ 72,313,141</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 102,825,824</b>					

**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. Manufactures 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	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 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	



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 Stuenkel* Director/Manager  
(If necessary)

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  
2014-2016 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 2014-2016 (\$000s - System):** \$110,000<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	95,108	-	83,820	4,000	2,600	4,688	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**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.

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

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Enterprise Technology

**Business Case Name:** Enterprise Security

**ER No:** 5014  
**ER Name:** Security Systems

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$ 8,335 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	666	-	-	-	-	-	-	-	-	-	-	-	665
2015	3,800	-	-	950	-	-	950	-	-	950	-	-	950
2016	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.

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



Investment Name:	Enterprise Security	Assessments:	
Requested Amount	\$1,836,932	Financial:	12%
Duration/Timeframe	10 Year Program	Strategic:	Agile Technology Platforms
Dept., Area:	Enterprise Technology	Business Risk:	Business Risk Reduction >5 and <= 10
Owner:	Clay Storey/Jim Corder	Program Risk:	High certainty around cost, schedule and resources
Sponsor:	Jim Kensok	Assessment Score:	#NAME?
Category:	Program		
Mandate/Reg. Reference:	n/a		
Recommend Program Description:		Performance	Annual Cost Summary - Increase/(Decrease)
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.		Capital Cost	O&M Cost
		Other Costs	Business Risk Score
		\$ 1,836,932	\$ - \$ - 9

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	Address issues related to violations of the security and compliance as they arise and pay fines as there are assessed.	The risk of security incidents increases		\$ -	\$ 5,000,000	15
Alternative 1: Brief name of alternative (if applicable)	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.	Decreases the likelihood or severity of security incidents	\$ 1,836,932	\$ -	\$ -	9
Alternative 2: Brief name of alternative (if applicable)			\$ -	\$ -	\$ -	0
Alternative 3 Name : Brief name of alternative (if applicable)			\$ -	\$ -	\$ -	0

	Capital Cost	O&M Cost	Other Costs	Approved
Previous	\$ 1,885,000	\$ -	\$ -	\$ 1,885,000
2013	\$ 1,885,000	\$ -	\$ -	\$ 1,510,000
2014	\$ 1,885,000	\$ -	\$ -	\$ 1,935,000
2015	\$ 1,885,000	\$ -	\$ -	\$ 3,200,000
2016	\$ 1,885,000	\$ -	\$ -	\$ 3,200,000
2017	\$ 1,885,000	\$ -	\$ -	\$ 3,200,000
2018	\$ -	\$ -	\$ -	\$ 3,200,000
2019	\$ -	\$ -	\$ -	\$ 3,200,000
Total	\$ 9,425,000	\$ -	\$ -	\$ 19,445,000

From 5014			

ER	2013	2014	2015	2016	2017	Total
						\$ -
						\$ -
						\$ -
5014	\$ 1,885,000	\$ 1,885,000	\$ 1,885,000	\$ 1,885,000	\$ 1,885,000	\$ 9,425,000
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Total	\$ 1,885,000	\$ 1,885,000	\$ 1,885,000	\$ 1,885,000	\$ 1,885,000	\$ 9,425,000

**Mandate Excerpt (if applicable):**  
The program is not mandatory however project under the scope of this business case may be mandatory base on their specific requirements.

**Additional Justifications:**  
2012 Budget Note: This program is being fund by a reduction in the Technology Refresh and Technology Expansion business cases, for \$565k and \$820k respectively. And \$500,000 from Security Initiative Business Case (ER5002).

**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

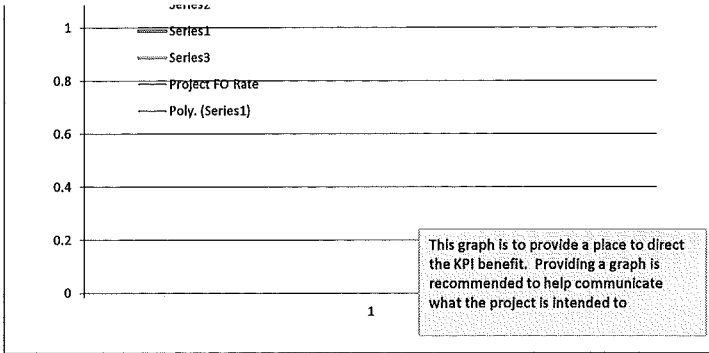
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

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

1.2 \_\_\_\_\_  
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Reviewed signature Director/Manager

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

- 2013 Projects**
- 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

- 2015 Projects**
- 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

- 2014 Projects**
- SIEM & Qflow Refresh
  - Controlled Access based on need to know
  - SSPIWR Internet Access
  - Itron Security Appliances (SGDP) Refresh
  - Asset management - Authorized & Unauthorized SW
  - Identity Management Solution
  - Controlled Use of Admin Privileges
  - Password Vault

- 2016 Projects**
- 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

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Enterprise Technology

**Business Case Name:** Technology Expansion to Enable Business Process

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

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$15,970<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,662	-	-	-	-	-	-	-	-	-	225	221	1,216
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

**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.

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



<b>Investment Name:</b>	<b>Technology Expansion to Enable Business Pro</b>			
<b>Requested Amount</b>	<b>\$ 4,635,572</b>			
<b>Duration/Timeframe</b>	10 Year Program			
<b>Dept., Area:</b>	Enterprise Techonogy			
<b>Owner:</b>	Jacob Reid/Jim Corder			
<b>Sponsor:</b>	Jim Kensok			
<b>Category:</b>	Program			
<b>Mandate/Reg. Reference:</b>	n/a			
<b>Assessments:</b>	Financial: 7.00%			
	Strategic: Agile Technology Platforms			
	Business Risk: Business Risk Reduction >5 and <= 10			
	Program Risk: High certainty around cost, schedule and resources			
<b>Assessment Score:</b>	#NAME?	Annual Cost Summary - Increase/(Decrease)		
<b>Recommend Program Description:</b>	Performance	Capital Cost	O&M Cost	Other Costs
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.		\$ 4,635,572	\$ -	\$ -
				Business Risk Score
				5

		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Alternatives:</b>						
<b>Unfunded Program:</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	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.		\$ 4,635,572	\$ -	\$ -	5
<b>Alternative 2: Brief name of alternative (if applicable)</b>			\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>			\$ -	\$ -	\$ -	0

	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
<b>Total</b>	<b>\$ 39,485,893</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 40,712,722</b>

5006	
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amounts same as 2012 less 820k moved to new Enterprise Security

business case

ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
5006	\$ 7,675,945	\$ 7,835,572	\$ 8,083,991	\$ 7,559,940	\$ 8,330,445	\$ 39,485,893	na
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<b>Total</b>	<b>\$ 7,675,945</b>	<b>\$ 7,835,572</b>	<b>\$ 8,083,991</b>	<b>\$ 7,559,940</b>	<b>\$ 8,330,445</b>	<b>\$ 39,485,893</b>	

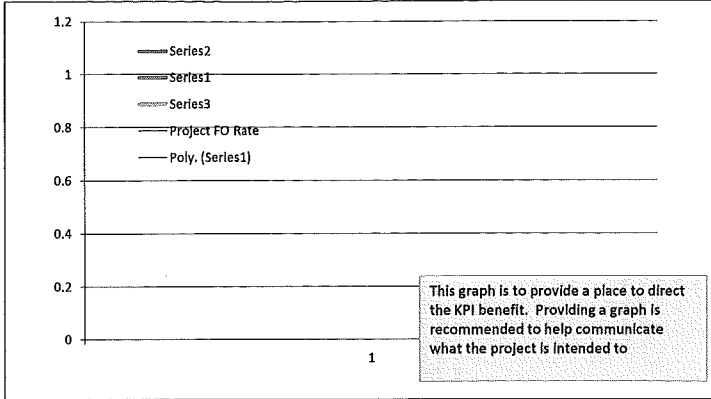
**Additional Justifications:**  
Technology Expansion is being reduced in 2012 because the security specific items are being moved to an Enterprise Security business case. The CIRR for this business case is an approximation because the items in this business case are so interconnected with other department's 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)	
<b>Expected Performance Improvements</b>	
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 \_\_\_\_\_  
(if necessary)

*Maree Stevens*  
Director/Manager

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  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Enterprise Technology

**Business Case Name:** High Voltage Protection for Substations

**ER No: ER Name:**

5142 High Voltage Protection Upgrade

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$ 1,399<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	485	-	-	-	-	-	-	-	-	-	4	2	478
2015	719	-	-	-	-	-	-	-	-	-	-	719	-
2016	415	-	-	-	-	-	-	-	-	415	-	-	-

**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.

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



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 Reid/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

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

Associated Ers (list all applicable):	5119					
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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, Modem, 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

Exhibit No. ATTACHMENT 3  
Attachment No. ET-9.2

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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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

Please see the follow link for CenturyLink (FKA Qwest) Tariff No. 1 that outlines the requirements for High Voltage Protection Circuits.  
[http://www.centurylink.com/centurylink/qwest.com/3A8000/Fdc/Fgroups/Fpublic/Fdocuments/Ftariff/Fcc1\\_s013p021.pdf](http://www.centurylink.com/centurylink/qwest.com/3A8000/Fdc/Fgroups/Fpublic/Fdocuments/Ftariff/Fcc1_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  
2014-2016 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 2014-2016 (\$000s - System): \$ 3,733 <sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	4,200	-	-	-	2,742	-	-	-	1,458	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**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.

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





<b>Investment Name:</b>	<b>Next Generation Radio Refresh</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$ 21,907,957</b>	<b>Financial:</b>	Medium - >= 5% & <9% CIRR
<b>Duration/Timeframe</b>	5 Year Project	<b>Strategic:</b>	Agile Technology Platforms
<b>Dept., Area:</b>	Enterprise Technology	<b>Operational:</b>	Operations require execution to perform at current levels
<b>Owner:</b>	Jacob Reid/Jim Corder	<b>Business Risk:</b>	ERM Reduction >5 and <= 10
<b>Sponsor:</b>	Jim Kensok	<b>Project/Program Risk:</b>	High certainty around cost, schedule and resources
<b>Category:</b>	Mandatory	<b>Assessment Score:</b>	128
<b>Mandate/Reg. Reference:</b>	FCC Narrow Banding Mandate (See below)	<b>Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Project Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>ERM Risk Score</b>
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.	The current radio system will not meet the required mandate and due for refresh.	\$ -	\$ -	\$ -	0

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

**Timeline Construction Cash Flows (CWIP)**

	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>
Actual				
Forecast				
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	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 26,301,675</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 21,907,957</b>

Rebaselined after completion of Design & Planning

<b>Milestones (high level targets)</b>			
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		

<b>Associated Ers (list all applicable):</b>	5106					
<b>Mandate Excerpt (If applicable):</b>	na					

<b>Additional Justifications:</b>	
-----------------------------------	--

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

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

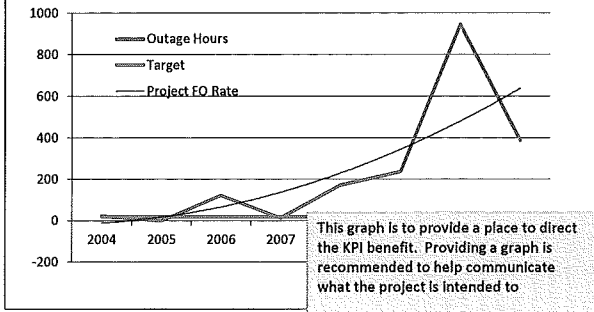
Enterprise Tech:  YES - attach form  NO or Not Required  
Facilities:  YES - attach form  NO or Not Required  
Capital Tools:  YES - attach form  NO or Not Required  
Fleet:  YES - attach form  NO or Not Required

**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* Director/Manager  
(if necessary)

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  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Enterprise Technology

**Business Case Name:** Microwave Refresh

**ER No: ER Name:**

5121 Microwave Replacement with Fiber

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$6,244<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	653	-	-	-	-	-	-	-	-	-	125	13	514
2015	2,363	-	-	591	-	-	591	-	-	591	-	-	591
2016	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.

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



<b>Investment Name:</b>	<b>Microwave Refresh</b>										
<b>Requested Amount</b>	<b>\$</b>	<b>23,204,063</b>	<b>Assessments:</b>								
<b>Duration/Timeframe</b>	7 Year Project		<b>Financial:</b> 10.50%								
<b>Dept., Area:</b>	Enterprise Technology		<b>Strategic:</b> Reliability & capacity								
<b>Owner:</b>	Jacob Reidt/Jim Corder		<b>Business Risk:</b> Business Risk Reduction >5 and <= 10								
<b>Sponsor:</b>	Jim Kensok		<b>Project Risk:</b> Moderate certainty around cost, schedule and resources								
<b>Category:</b>	Project										
<b>Mandate/Reg. Reference:</b>	n/a		<b>Assessment Score:</b> 84								
<b>Recommend Project Description:</b>											
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.		<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>								
		The current system are out of date and in need of replacement	<table border="1"> <thead> <tr> <th>Capital Cost</th> <th>O&amp;M Cost</th> <th>Other Costs</th> <th>Business Risk Score</th> </tr> </thead> <tbody> <tr> <td>\$ 8,400,000</td> <td>\$ 840,000</td> <td>\$ -</td> <td>8</td> </tr> </tbody> </table>	Capital Cost	O&M Cost	Other Costs	Business Risk Score	\$ 8,400,000	\$ 840,000	\$ -	8
Capital Cost	O&M Cost	Other Costs	Business Risk Score								
\$ 8,400,000	\$ 840,000	\$ -	8								
<b>Alternatives:</b>											
<b>Unfunded Project:</b>	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.	<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>								
		n/a	<table border="1"> <thead> <tr> <th>Capital Cost</th> <th>O&amp;M Cost</th> <th>Other Costs</th> <th>Business Risk Score</th> </tr> </thead> <tbody> <tr> <td>\$ -</td> <td>\$ -</td> <td>\$ 1,000,000</td> <td>15</td> </tr> </tbody> </table>	Capital Cost	O&M Cost	Other Costs	Business Risk Score	\$ -	\$ -	\$ 1,000,000	15
Capital Cost	O&M Cost	Other Costs	Business Risk Score								
\$ -	\$ -	\$ 1,000,000	15								
<b>Alternative 1: Brief name of alternative (if applicable)</b>	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	<table border="1"> <thead> <tr> <th>Capital Cost</th> <th>O&amp;M Cost</th> <th>Other Costs</th> <th>Business Risk Score</th> </tr> </thead> <tbody> <tr> <td>\$ 8,400,000</td> <td>\$ 840,000</td> <td>\$ -</td> <td>8</td> </tr> </tbody> </table>	Capital Cost	O&M Cost	Other Costs	Business Risk Score	\$ 8,400,000	\$ 840,000	\$ -	8
Capital Cost	O&M Cost	Other Costs	Business Risk Score								
\$ 8,400,000	\$ 840,000	\$ -	8								
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	<table border="1"> <thead> <tr> <th>Capital Cost</th> <th>O&amp;M Cost</th> <th>Other Costs</th> <th>Business Risk Score</th> </tr> </thead> <tbody> <tr> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>0</td> </tr> </tbody> </table>	Capital Cost	O&M Cost	Other Costs	Business Risk Score	\$ -	\$ -	\$ -	0
Capital Cost	O&M Cost	Other Costs	Business Risk Score								
\$ -	\$ -	\$ -	0								
<b>Alternative 3 Name : Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	<table border="1"> <thead> <tr> <th>Capital Cost</th> <th>O&amp;M Cost</th> <th>Other Costs</th> <th>Business Risk Score</th> </tr> </thead> <tbody> <tr> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>0</td> </tr> </tbody> </table>	Capital Cost	O&M Cost	Other Costs	Business Risk Score	\$ -	\$ -	\$ -	0
Capital Cost	O&M Cost	Other Costs	Business Risk Score								
\$ -	\$ -	\$ -	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	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 23,204,063</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 24,104,257</b>

**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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>Additional Justifications:</b> 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 Low Off 2012	December-17	MW to Fiber
December-11	M23-SPU Prior	December-13	Fiber to Low 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

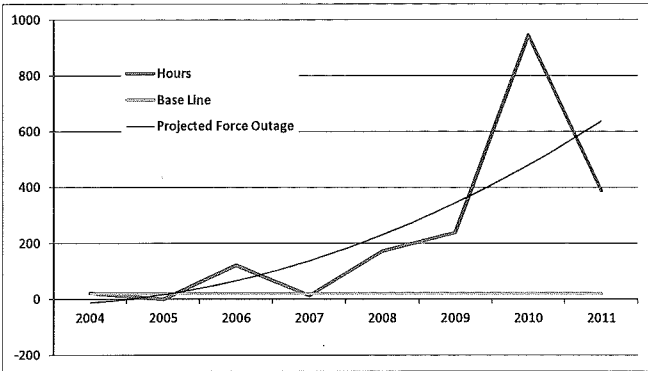


**Resources Requirements: (request forms and approvals attached)**

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 - 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	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



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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  
 2014-2016 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 2014-2016 (\$000s - System):** \$ 1,357 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	75	-	-	-	-	-	-	-	-	-	8	24	44
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

**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.

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

Capital Program Business Case



<b>Investment Name:</b>	Colstrip Transmission
<b>Requested Amount</b>	\$491,434
<b>Duration/Timeframe</b>	20 Year Program
<b>Dept., Area:</b>	Transmission
<b>Owner:</b>	Jeff Schlect/Heather Rosenrater
<b>Sponsor:</b>	Don Kopczynski
<b>Category:</b>	Program
<b>Mandate/Reg. Reference:</b>	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

Assessment Score:

Recommend Program Description:	#NAME?			Business Risk Score
	Performance	Capital Cost	Other Costs	
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-party	Improved performance, upgraded equipment, better status & control, new life cycle.	\$ 491,434	\$ 329,778	4

Alternatives:	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Performance	Capital Cost	Other Costs	
Unfunded Program: Non-compliant operational capabilities and practices would result in negative audit findings, financial penalties, and litigation expenses due to breach of contract with other joint owners. Obsolete equipment would remain in service until failure.	Severe negative system reliability and compliance impacts	\$ -	\$ -	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				
	Capital Cost	O&M Cost	Other Costs	Approved
Previous \$	\$ -	\$ -	\$ -	\$ -
2014 \$	368,887	392,583	-	368,887
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



2018	\$	591,507	\$	296,871	\$	-	\$	591,507
2019	\$	421,521	\$	292,209	\$	-	\$	421,521
2020+	\$	-	\$	-	\$	-	\$	-
<b>Total</b>	<b>\$</b>	<b>2,885,812</b>	<b>\$</b>	<b>1,910,168</b>	<b>\$</b>	<b>-</b>	<b>\$</b>	<b>2,885,812</b>

ER	2015	2016	2017	2018	2019	Total	Mandate Excerpt (if applicable):
2214	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	NERC reliability standards are being continually developed and revised. New and revised standards are expected to address emergency operations, transmission operations, critical infrastructure protection, communications, and balancing authority operations. (See
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>Additional Justifications:</b> This program is for capital replacement and upgrades and for operations and maintenance expenses for the jointly owned 500 kV Colstrip Transmission System. Cuts to this program need to be closely evaluated to assure that reliable and compliant operations are not impacted and that Avista would not be in breach of contract with other joint transmission owners.

Resources Requirements: (request forms and approvals attached)

Internal Labor Availability:  Low 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).

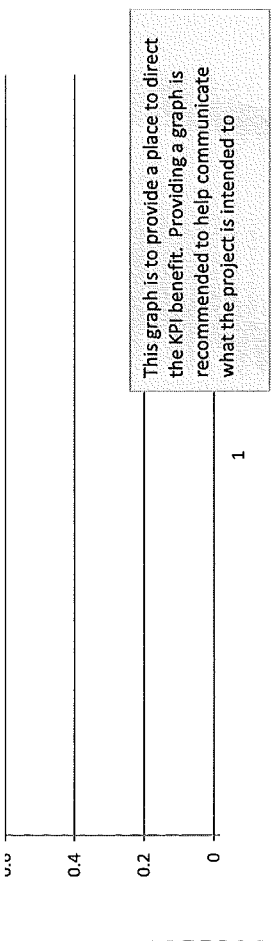
Key Performance Indicator(s)

Expected Performance Improvements	
KPI Measure:	Fill in the name of the KPI here
	Fill in the name of the KPI here

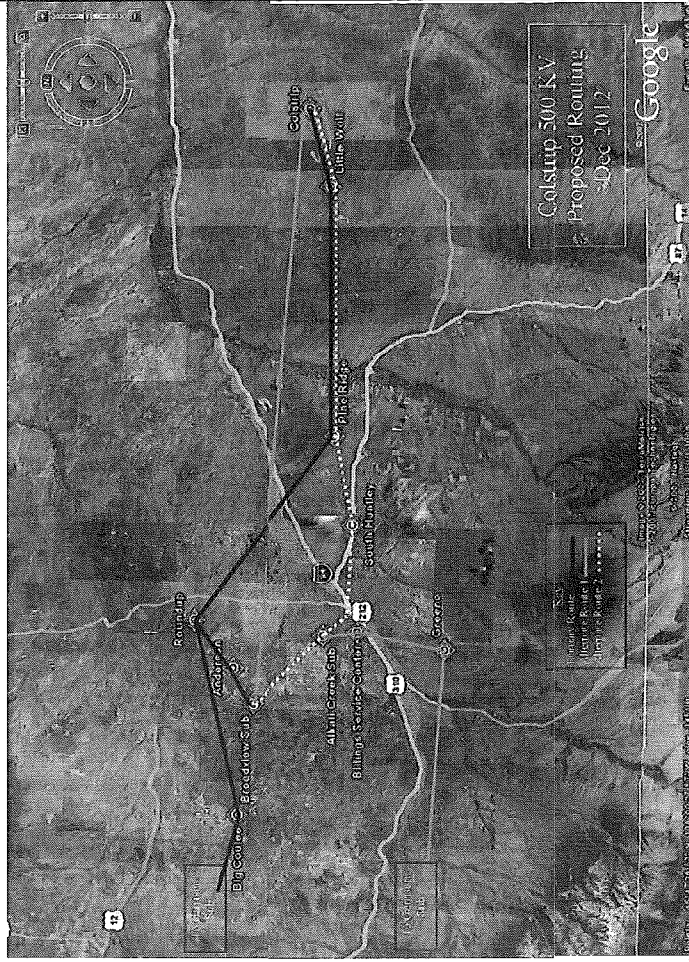
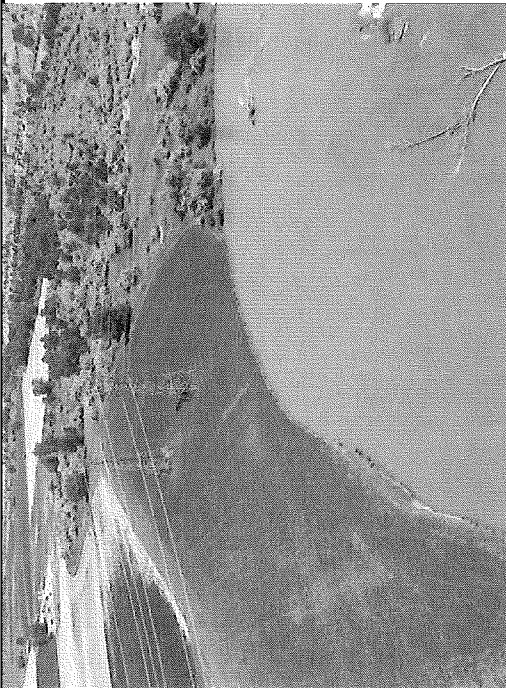
1.2	_____ #REF!	Prepared	signature
1	_____ #REF!	Reviewed	signature
0.8	_____ Project FO-Rate		
0.6	_____ Poly. (#REF!)		

Director/Manager

Capital Program Business Case



Other Party Review signature Maggi 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

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System): \$ 31,586 <sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	4,252	-	-	-	-	-	-	-	-	-	1,082	670	2,500
2015	10,925	557	467	529	585	665	743	823	733	740	710	617	3,757
2016	11,000	539	469	513	576	692	678	705	725	730	744	583	4,044

**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.

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



Capital Program Business Case

<b>Investment Name:</b>	Distribution Grid Modernization
<b>Requested Amount</b>	See Plan Below
<b>Duration/Timeframe</b>	Indefinite Year Program
<b>Dept., Area:</b>	Electrical Engineering
<b>Owner:</b>	Troy A. Dehnel
<b>Sponsor:</b>	Don Kopczynski
<b>Category:</b>	Program
<b>Mandate/Reg. Reference:</b>	n/a

**Assessments:**  
 Financial: MH - >= 9% & <12% CIRR  
 Strategic: Life-cycle asset management  
 Business Risk: Business Risk Reduction >15  
 Program Risk: High certainty around cost, schedule and resources

Assessment Score: 133

**Recommend Program 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. The average cost to rebuild each feeder is estimated to be \$3.5M.

Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
When completed save an average of 1,970 MWh* annually & Reduce Outages	\$ 21,000,000	\$ -	\$ 198,000	4

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Unfunded Program:</b>	n/a	\$ 120,000	\$ -	\$ 1,980,000	25

<b>Alternative 1: Brief name of alternative (if applicable)</b>	When completed save an average of 1,970 MWh* annually & Reduce Outages	\$ 21,000,000	\$ -	\$ 198,000	4
<b>Alternative 2: Brief name of alternative (if applicable)</b>	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

Program Cash Flows	Annual Cost Summary - Increase/(Decrease)			Associated Ers (list all applicable):
	Capital Cost	O&M Cost	Other Costs	
Previous	\$ 7,308,357	\$ -	\$ -	Dist Grid Moderniz 2470
2014	\$ 8,686,019	\$ -	\$ -	
2015	\$ 11,000,000	\$ -	\$ -	
2016	\$ 11,000,000	\$ -	\$ -	
2017	\$ 13,000,000	\$ -	\$ -	
2018	\$ 15,000,000	\$ -	\$ -	
2019	\$ 15,000,000	\$ -	\$ -	

### Capital Program Business Case



2020+	\$ 21,000,000	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	\$ 101,994,376	\$ -	\$ -	\$ 81,894,357	

ER	2015	2016	2017	2018	2019	Total	Mandate Excerpt (if applicable):
<b>Dist Grid Modernization</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	provide brief citation of the law or regulation and a reference number if possible
2470	\$ 11,000,000	\$ 11,000,000	\$ 13,000,000	\$ 15,000,000	\$ 15,000,000	\$ 65,000,000	<b>Additional Justifications:</b> Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.
0	-	-	-	-	-	-	
0	-	-	-	-	-	-	
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0	-	-	-	-	-	-	
0	-	-	-	-	-	-	
<b>Total</b>	\$ 11,000,000	\$ 11,000,000	\$ 13,000,000	\$ 15,000,000	\$ 15,000,000	\$ 65,000,000	

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

Key Performance Indicator(s)  
Expected Performance Improvements

KPI Measure: EVM, CPI, SPI  
Fill in the name of the KPI here

1.2	_____#REF!	_____
1	_____#REF!	_____
0.8	_____#REF!	_____
0.6	_____Project FO Rate	_____
	_____Poly. (#REF!)	_____

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).

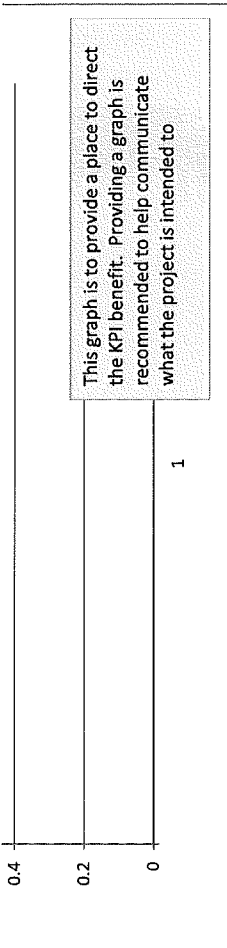
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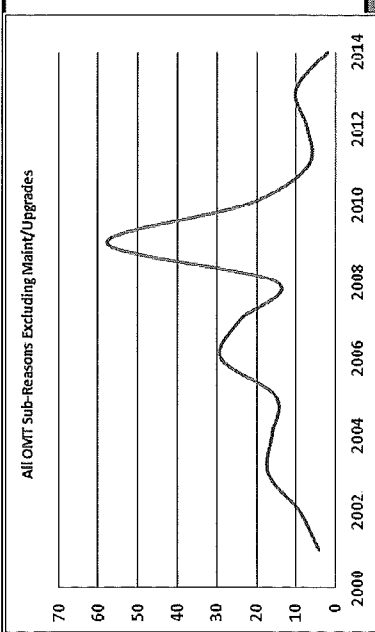
Other Party Review signature: \_\_\_\_\_

Director/Manager: Mary Stevens

Capital Program Business Case

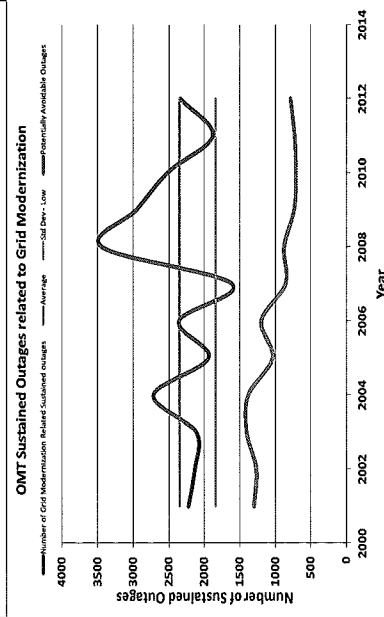
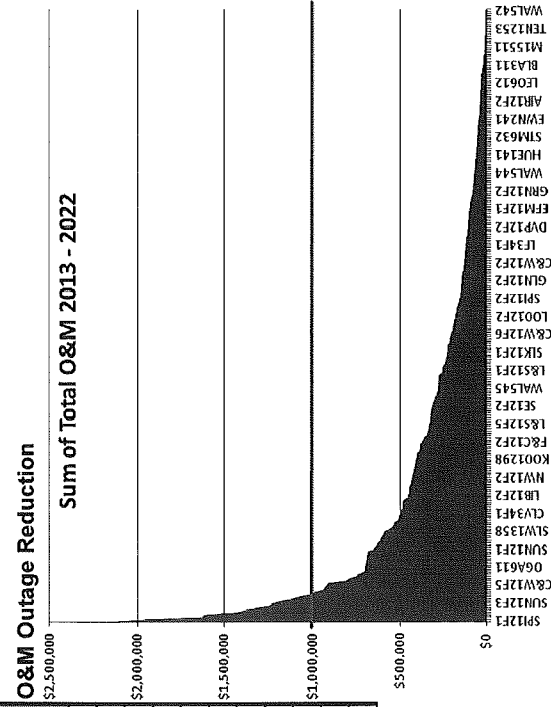


(if necessary) \_\_\_\_\_  
Director/Manager



Feeder	Area	Year Complete	Annual Energy Savings (MWh)
9CE12F4	Spokane, WA (9th)	2009	601
BEA12F1	Spokane, WA	2012	972
F&C12F2	Spokane, WA	2012	570
BEA12F5	Spokane, WA	2014	885
WIL12F2	Wilbur, WA	2015	1,403
CDA121	Coeur d'Alene, ID	2014	438
<b>Total</b>			<b>4,869</b>

Feeder	2022
SP12F1	\$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
C&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	
Date	Template



**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System):** \$ 500 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	147	-	-	-	-	-	-	-	-	-	12	114	21
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	-

**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.

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

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

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	



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 \_\_\_\_\_  
(if necessary) *Margie Stevens* Director/Manager

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Spokane, N & W		CDA and E
Davenport 12F2 - Convert FDR to UG	BKR 12F3 - Record 1 mi	Sandpoint 4522 - Record 0.7 mi
Rainbow 751 - Reint 2.5 mi	MIL 12F2 - Record 0.5 mi	Old Town - Dc Tie Record
S Othelo 521 - Record	Colville 34F1 - Hwy 25N Record	Daton 131 - Record 1.5 mi
Long Lake - Conv OH to UG (J5FW5)	Gifford 34F1 - Replace Neutral	Daton 131 - Record 1.4 mi
3HT 12F2 - Waste Water	Orin 12F3 - Record 2.4 mi	Avondale 151 - Record 1.5 mi
Monroe St Secondary Ckt - Record	Colville 12F2 - Record 2 mi	Daton 151 - Record 0.8 mi (akleshore)
Milwood 12F4 - Record 0.5 mi	Colville 12F2 - Record 4.7 mi Oakshot	Daton 133 - Add 1-ph 3.1 miles
Colbert 12F1 - Record 4.0 ACSR	CHV12F2 - Record 0.25 mi - town	PF 213 - Record 1.2 mi Riverbend Pk
NE 12F2 - Tie to NE 12F4	CHV12F2 - Angel Pk Record 0.75mi	Daton 134 - Coldwater Ck Loop
SE 12F2 - Tower MT	Orin 12F1 and Colv 12F2 Viper Midline	Pleasant View 241 - Ext 1 mi
Liberty Lk 12F2 - Henry Rd Tie	GRN12F1 Tie to CLV12F2 4.5 mi	Blue Ck 321 - Record 1.2 mi
NE 12F1 Record 8 Split FDR	GIF 34F1 - CHW 12F3 FDR Tie	Daton 131 - Extend 0.5 mi
SCE 12F4 - Record 366	Orin 12F2 - Record 1.2 mi	Pine Ck 424 - Record 1 mi
Fort Wright 12F1 - Record 1 mi	GRN12F2 - Record 4.1 Mi Old Kettle Rd	Wallace 542 - Reocate 1.5 mi to bike tr
Deer Park 12F2 - Record 2.0 ACSR	CLV12F4 Record 1.6 mi	Oqara 611 - Record 1.5 mi
NE 12F2 - Tie to WAK 12F3	KET12F2 - Chg FDR Voltage to 13.2 KV	Ratidum 233- UG 1 mi (Slyte Ranch)
Barker 12F2 - Tie to EFM 12F1	CLV34F1 - Kelly Hill Rd	Lucky Hill 652 - Add FDR
East Farms 12F1 - Record 1.5 Mi	CHV12F2 - Flowery Trail Record	CDA - Osprey mitigation
Fort Wright 12F4 - Record 500'	GIF34F1&2, CLV34F1 - 3 Midlines	Huetter 142 - Extend 3ph 0.5 mi
SCE 12F1 - Tie to BEA 12F6	Colville Area Switched Banks	Blue Ck 321 - Record 3 mi
SCE 12F2 - Tie to Chester 12F2		Lakeview 343 - Conv 6 mi to UG
Silver Lk 12F1 - Record 2.1 mi		Wallace 544 - Record for Star Mine
Third & Hatch 12F1 - Tie to 12F7		<b>Palouse &amp; L/C</b>
C&W 12F4 - Tie to 3HT 12F7		Hebropk 1206 - Record 3700'
Chester 12F4 - Record 1.75 mi		Orfino 1281
SCE 12F3/Bea 12F1 - Record 1 mi		10th&Stewart 1253 tie to 1256
Sunset 12F1 - Record 1.5 mi		10th&Stewart 1253 - 1 mi record & regs
SCE 12F1 - Tie to SCE 12F3 Brkwy 0.5 mi		S Lewiston 1358 Extend
MIL 12F1 Record 1.0 CU 0.8 mi		CFD 1210 - Record #6 CU
CHV 12F3 Record 2.0 CU 3 mi		Palouse 312 - Add Phase
BKR 12F3 Record 2.0 ACSR 1 mi		Moscow 515 tie to 512
		Ewan 241 Midline Regs

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System):** \$ 24,900 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,545	-	-	-	-	-	-	-	-	-	577	346	621
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

**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.

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



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		Capital Cost	O&M Cost
Recommend Program Description:	Performance	Capital Cost	Other Costs	Business Risk Score

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).	describe any incremental changes that this Program would benefit present operations	\$ 8,300,000	\$ -	\$ -	4
	Annual Cost Summary - Increase/(Decrease)				

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program:	n/a	\$ -	\$ -	\$ -	20
Alternative 1: Brief name of alternative (if applicable)	describe any incremental changes in operations	\$ -	\$ -	\$ -	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 any incremental changes in operations	\$ -	\$ -	\$ -	0

	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

Year	Capital Cost	O&M Cost	Other Costs
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:  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

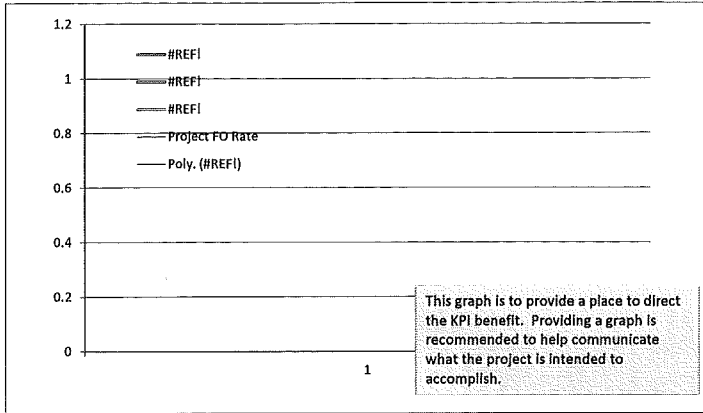
Check the appropriate box. The internal and contract labor boxes should be checked to indicate if the resource owners have been contacted and to provide a general sense of how likely staff will be provided (this does not require a firm commitment).

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

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Other Party Review signature Director/Manager  
(if necessary) *Marilyn 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  
2014-2016 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 2014-2016 (\$000s - System):** \$ 13,344 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	597	-	-	-	-	-	-	-	-	-	158	76	363
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

**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.

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



Investment Name:	<b>Distribution Transformer Change-Out Program</b>		Assessments:	
Requested Amount	\$	<b>7,000,000</b>	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	25 Year Program		Strategic:	Life Cycle Programs
Dept., Area:	Asset Management & Process Improvement		Operational:	Operations require execution to perform at current levels
Owner:	Glenn Madden (Manager) & Al Fisher (Dir)		Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Don Kopczynski		Program Risk:	High certainly around cost, schedule and resources
Category:	Program		Assessment Score:	89
Mandate/Reg. Reference:	n/a		Annual Cost Summary - Increase/(Decrease)	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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
Annual Cost Summary - Increase/(Decrease)					

<b>Alternatives:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>	
<b>Unfunded Program:</b>	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
<b>Alternative 1: Transformer Change-Out Program</b>	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
<b>Alternative 2:</b>	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
<b>Alternative 3 Name:</b>			\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>				<b>Associated Ers (list all applicable):</b>			
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:**

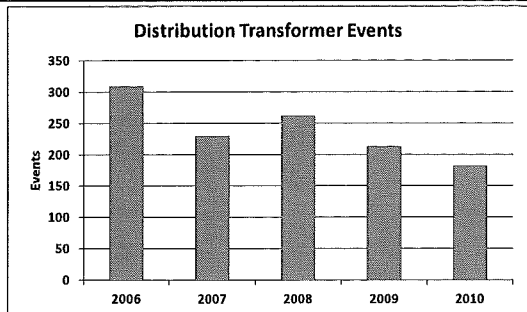
**Resources Requirements: (request forms and approvals attached)**

- |                              |  |   |  |                  |  |  |
|------------------------------|--|---|--|------------------|--|--|
| Internal Labor Availability: | <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).



Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Distribution Transformer Events      Distribution Transformer Oil Spills
	Distribution Transformer Energy Savings



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 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  
 2014-2016 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 2014-2016 (\$000s - System):** \$ 31,550 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,198	-	-	-	-	-	-	-	-	-	308	142	748
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

**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. This translates to a Washington offset of \$43,000 in 2016.

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

Capital Program Business Case



<b>Investment Name:</b>	Distribution Wood Pole Management
<b>Requested Amount</b>	Estimated Total Capital Expense
<b>Duration/Timeframe</b>	Indefinite
<b>Dept., Area:</b>	Year Program
<b>Owner:</b>	Asset Maintenance
<b>Sponsor:</b>	Glenn Madden (Manager) & Heather Rosenstrater/A
<b>Category:</b>	Don Kopczyński
<b>Mandate/Reg. Reference:</b>	Program
<b>Recommend Program Description:</b>	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

**Assessment Score:**

**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

**#NAME?**

Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Capital Cost	O&M Cost	Other Costs	
Customer IRR = 7.42% and avoids an average of 1,700 additional events per year	\$ 11,172,022	\$ 530,943	\$ 5,996,350	15

**Alternatives:**

Status Quo : No Wood Pole Management	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
	Capital Cost	O&M Cost	Other Costs	
Run wood poles and associated equipment to failure	\$ 8,186,361		\$ 6,834,467	25
<b>Alternative 1: Distribution Wood Pole Management - 20 Year Inspection Cycle</b>				
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	\$ 10,712,022	\$ 530,943	\$ 5,996,350	15
<b>Alternative 2: Distribution Wood Pole Management - 20 Year Inspection Cycle with Guy Wire</b>				
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	\$ 11,172,022	\$ 530,943	\$ 5,996,350	15
<b>Alternative 3 Name : Distribution Wood Pole Management - 10 Year Inspection Cycle with Guy</b>				
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	\$ 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 Ers (list all applicable):**

2060	



Capital Program Business Case

	2019	\$	-	\$	-	\$	-	\$	15,000,000
<b>Total</b>	<b>\$</b>	<b>64,500,000</b>	<b>\$</b>	<b>2,718,846</b>	<b>\$</b>	<b>18,268,188</b>	<b>\$</b>	<b>70,550,000</b>	
<b>ER</b>		<b>2014</b>		<b>2015</b>		<b>2016</b>		<b>2017</b>	
2060	\$	-	\$	-	\$	-	\$	-	8,062
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
0	\$	-	\$	-	\$	-	\$	-	-
<b>Total</b>	<b>\$</b>	<b>-</b>	<b>\$</b>	<b>-</b>	<b>\$</b>	<b>-</b>	<b>\$</b>	<b>-</b>	<b>-</b>

**Mandate Excerpt (if applicable):**  
The current WPM program complies with the following part of the National Electric Safety Code: 013, 121, 212 A, 212 B, and 261 A.2

**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

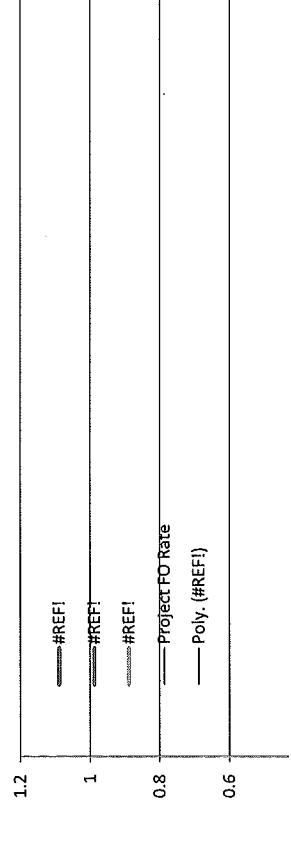
Fleet:  YES - attach form  NO or Not Required

Key Performance Indicator(s)

Expected Performance Improvements

KPI Measure: WPM Related OMT Events

Miles of Followup work completed compared to the annual goal



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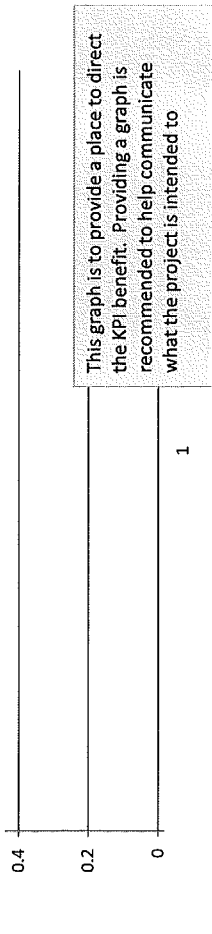
Other Party Review signature (if necessary)

Director/Manager

Director/Manager

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



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:	WPM 2015:	WPM 2016:	WPM 2017:	WPM 2018:	WPM Estimate for each year w/ Guy Wire Replacement =
\$10,712,022 +	\$10,673,453 +	\$10,571,162 +	\$10,608,892 +	\$10,585,416 +	\$460,000 =
					\$460,000 =
					\$460,000 =
					\$460,000 =

To be completed by Capital Planning Group  
 Rationale for decision

Review Cycles  
 2012-2016

Capital Program Business Case



Date	Template

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System): \$ 940<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,039	-	-	-	-	-	-	-	-	-	465	170	404
2015	5,806	484	484	484	484	484	484	484	484	484	484	484	484
2016	5,806	484	484	484	484	484	484	484	484	484	484	484	484

**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.

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

Investment Name:	<b>Minor Meter Blanket</b>	Assessments:	
Requested Amount	<b>Estimated Total Capital Expenditure</b>	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 Rosenrater	Project Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski	Assessment Score:	
Category:	Project		
Mandate/Reg. Reference:	n/a		

Recommend Project Description:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
The existing power line carler 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.	Reduce overtime from meter reading and bill estimation	\$ 90,000	\$ 120	\$ -	2

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
Unfunded Project: The Turtle meters will be hand read when they can and estimated through the winter.	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**

	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

**Associated Ers (list all applicable):**


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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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)**

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
January-00	open	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 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 - 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	Fleet:	<input type="checkbox"/> YES - attach form	<input type="checkbox"/> NO or Not Required



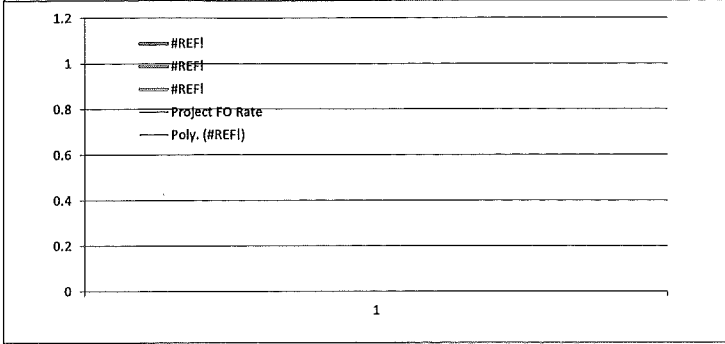


Capital Project Business Case

ATTACHMENT 3  
Exhibit No.\_\_(KKS-5)  
Attachment No. \_\_ETD-7.2

YES - attach form

<b>Key Performance Indicator(s)</b>	
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
	<b>Date</b>
	<b>Template</b>

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System): \$ 6,652 <sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	437	-	-	-	-	-	-	-	-	-	84	175	178
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

**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 Washington Department of Transportation. 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.

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



Capital Investment Business Case

ATTACHMENT 3  
Exhibit No.\_\_(KKS-5)  
Attachment No. \_\_ETD-8.1

Investment Name:	<b>Elec Replacement and Relocation</b>	Assessments:	
Requested Amount	\$ <b>2,700,000</b>	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)	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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	\$ -	\$ -	2

		Annual Cost Summary - Increase/(Decrease)				
		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Alternatives:</b>						
<i>Status Quo</i> :	Avista would be out of compliance with established franchise agreements and/or permits if work is not completed.	n/a	\$ -	\$ -	\$ -	16
<i>Alternative 1</i> :	Relocate facilities in conflict with street and highway projects where established franchise agreements and/or permits exist.	n/a	\$ 2,700,000	\$ -	\$ -	2
<i>Alternative 2</i> :			\$ -	\$ -	\$ -	0
<i>Alternative 3 Name</i> : 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	\$ -	\$ -	\$ 2,200,000					
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					
<b>Total</b>	<b>\$ 17,600,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 19,352,430</b>					

**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: | <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).

<b>Key Performance Indicator(s)</b>	
Expected Performance Improvements	
KPI Measure:	N/A - Mandatory Work
	Fill in the name of the KPI here

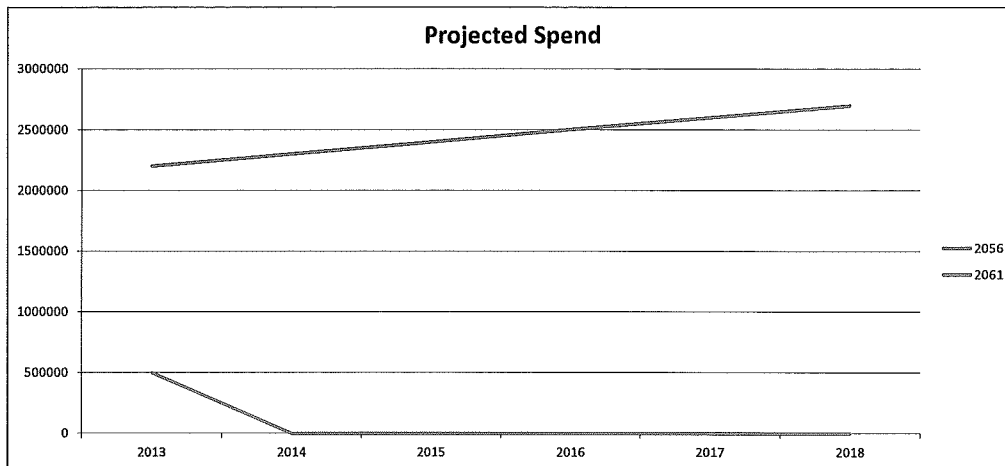
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Director/Manager

WSDOT Franchise work will be incorporated into ER2056 in years 2014 - 2018

Other Party Review signature *Margi 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  
2014-2016 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 2014-2016 (\$000s - System): \$ 1,151<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	46	-	-	-	-	-	-	-	-	-	-	-	46
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

**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.

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



<b>Investment Name:</b>	<b>Environmental Compliance</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$250,000</b>	<b>Financial:</b>	High - Exceeds 12% CIRR
<b>Duration/Timeframe</b>	30 Year Program	<b>Strategic:</b>	Other
<b>Dept., Area:</b>	Environmental	<b>Operational:</b>	Operations require execution to perform at current levels
<b>Owner:</b>	Darrell Soyars (Mgr.); Bruce Howard (Dir)	<b>Business Risk:</b>	ERM Reduction >10 and <= 15
<b>Sponsor:</b>	Marian Durkin	<b>Program Risk:</b>	High certainty around cost, schedule and resources
<b>Category:</b>	Mandatory	<b>Assessment Score:</b>	182
<b>Mandate/Reg. Reference:</b>	SUP; NEPA; PCB Disposal; EPA TSCA WA	<b>Annual Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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	\$ -	\$ -	6

		<b>Annual Cost Summary - Increase/(Decrease)</b>				
<b>Alternatives:</b>		<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
<b>Alternative 1: Funded SUP implementation</b>	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
<b>Alternative 2: Unfunded SUP implementation</b>	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
<b>Alternative 1: Funded PCB Disposal</b>	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
<b>Alternative 2: Unfunded PCB Disposal</b>	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
<b>Alternative 1: Funded Environmental Compliance</b>	Funding of this program reduces risk of non-compliance and environmental liability		\$ -	\$ -	\$ -	15
<b>Alternative 2: Unfunded Environmental Compliance</b>	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

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>			
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				
<b>Total</b>	<b>\$ 1,250,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,250,000</b>				

**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 the 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

ATTACHMENT 3

Exhibit No.\_\_(KKS-5)

Attachment No. \_\_ETD-9.2

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

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).

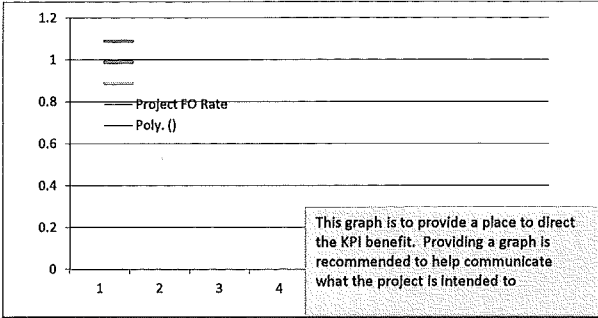


Capital Program Business Case



Exhibit No. \_\_ (KKS-5)  
Attachment No. \_\_ ETD-9.3

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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Director/Manager

Other Party Review signature *Margu Stevens* \_\_\_\_\_  
(if necessary) 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
<b>E14</b>	<b>450,000</b>	<b>450,000</b>	<b>450,000</b>	<b>450,000</b>	<b>450,000</b>	

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  
 2014-2016 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 2014-2016 (\$000s - System):** \$ 1,750 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	74	-	-	-	-	-	-	-	-	-	24	24	27
2015	1,000	27	20	19	207	208	207	215	18	19	20	21	18
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**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 to the O&M spending for the first five years. Washington’s allocation of these additional O&M Costs are \$522,000.

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

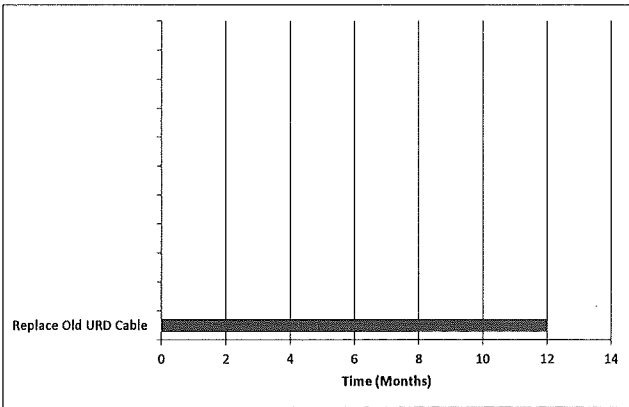
<b>Investment Name:</b>	<b>Primary URD Cable Replacement 2013</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$1,800,000</b>	<b>Financial:</b>	MH - >= 9% & <12% CIRR
<b>Duration/Timeframe</b>	2 Year Project	<b>Strategic:</b>	Life Cycle Programs
<b>Dept., Area:</b>	Asset Management & Process Improvement	<b>Operational:</b>	Operations improved beyond current levels
<b>Owner:</b>	Kevin Christie	<b>Business Risk:</b>	ERM Reduction >5 and <= 10
<b>Sponsor:</b>	Jason Thackson	<b>Project/Program Risk:</b>	High certainty around cost, schedule and resources
<b>Category:</b>	Project	<b>Assessment Score:</b>	110
<b>Mandate/Reg. Reference:</b>	n/a	<b>Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Project Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>ERM Risk Score</b>
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

<b>Alternatives:</b>		<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>ERM Risk Score</b>
<b>Status Quo :</b>	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
<b>Alternative 1: Primary URD Cable Replacement</b>	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
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

**Timeline**

**Construction Cash Flows (CWIP)**



	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>
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	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 27,652,679</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 24,584,679</b>

**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		open	mm/dd/yy	open
March-12	Major Procurement		open	mm/dd/yy	
September-12	Construction Start		open	mm/dd/yy	

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.

<b>Associated Ers (list all applicable):</b>	Current ER	2054					
<b>Mandate Excerpt (if applicable):</b>							

<b>Additional Justifications:</b>							
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**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	

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Reviewed signature Director/Manager

Other Party Review signature (if necessary) Director/Manager

the KPI benefit. Providing a graph is recommended to help communicate what the project is intended to

Metric Description	Projected Avoided Costs due URD Cable - Pri Caused Outages	Actual Avoided Costs due to URD Cable - Pri Outages
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	

arts, or other data that may be useful in evaluating the project

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 2012-2016	
	Date	Template

**AVISTA UTILITIES  
 2014-2016 CAPITAL PROJECTS**

**Functional Group:** Electric Transmission / Distribution

**Business Case Name:** Transmission - Reconductors and Rebuilds

<b>ER No:</b>	<b>ER Name:</b>
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
2574	Chelan-Stratford 115kV - Rebuild Columbia River Xing
2577	Benewah-Moscow 230kV - Structure Replacement
2582	Beacon-Bell-Francis & Cdr-Waikiki 115kV – Reconfigure

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$ 44,709<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	10,686	-	-	-	-	-	-	-	-	-	592	1,147	8,947
2015	14,263	-	-	-	-	-	-	-	-	-	-	-	14,263
2016	23,661	-	-	-	-	-	-	-	7,100	-	-	-	16,561

**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:**

After Revenue requirements was determined that the following additional offsets exist. 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. Burke-Pine Creek will experience reduced line losses of 252 MWh for 2014. This amount is multiplied by the avoided energy cost to arrive at a savings of \$11,088 on a system level and \$7,200 Washington Electric. Benton-Othello 115 will experience a reduction in line losses of 1,424 MWh which, after applying the avoided energy cost per MWh of \$44, equates to \$62,700 of offsets on a system basis and \$40,800 Washington Electric. Bronx-Cabinet will experience reductions in line losses of 755 MWh in both 2015 and 2016 (1,510 total). This equates to an offset amount of \$66,440 on a system level and \$43,300 Washington Electric.

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



Investment Name:	Tx - Recon and Reblids			
Requested Amount	\$20,000,000			
Duration/Timeframe	50 Year Program			
Dept., Area:	T&D - TLD Engineering			
Owner:	Heather Rostenrater			
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		
Assessment Score:	#NAME?	Annual Cost Summary - Increase/(Decrease)		
Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs
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 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	\$ -	\$ -
				Business Risk Score
				1

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program: Transmission lines that would be rebuilt and/or reconducted 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

	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

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	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.
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	

Resources Requirements: (request forms and approvals attached)

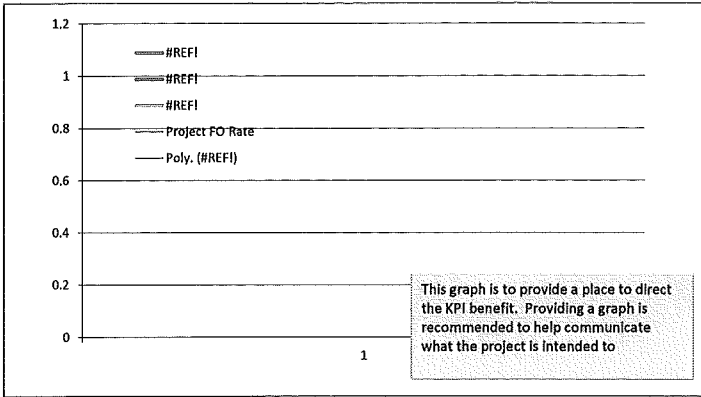
Internal Labor Availability:	<input type="checkbox"/> Low Probability	<input checked="" type="checkbox"/> Medium Probability	<input type="checkbox"/> High Probability	Enterprise Tech:	<input type="checkbox"/> YES - attach form	<input checked="" type="checkbox"/> NO or Not Required
Contract Labor:	<input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



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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		Review Cycles		
Rationale for decision	2012-2016			
	Date	Template		

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System): \$ 10,725<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	2,689	-	-	-	-	-	-	-	-	-	16	153	2,520
2015	2,920	-	-	-	-	-	-	-	-	-	-	-	2,920
2016	2,675	223	223	223	223	223	223	223	223	223	223	223	223

**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.

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



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 Kopczyński	Program Risk:	Moderate certainty around cost, schedule and resources
Category:	Program	Assessment Score:	84
Mandate/Reg. Reference:	n/a	Annual Cost Summary - Increase/(Decrease)	

<b>Recommend Program Description:</b> 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.	Performance	Capital Cost	O&M Cost	Other Costs	ERM Risk Score
	Investments necessary to maintain current operations and to extend the life of current assets.	\$ 3,100,000			4

<b>Alternatives:</b>		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

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
5 years of costs					Current ER	2514	2515	2516	
	Capital Cost	O&M Cost	Other Costs	Approved	Spokane & West	CDA & East	South Region		
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					
<b>Total</b>	<b>\$ 32,225,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 28,565,222</b>					

**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).



**AVISTA UTILITIES  
2014-2016 CAPITAL PROJECTS**

**Functional Group:** Electric Transmission / Distribution

**Business Case Name:** Downtown Spokane Electric Network

**ER No: ER Name:**

2058 Spokane Electric Network Increase Capacity

2237 Metro FDR Upgrade

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$ 6,438<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	441	-	-	-	-	-	-	-	-	-	183	66	192
2015	2,300	148	148	165	165	165	165	246	246	246	246	181	181
2016	2,298	131	131	154	154	154	154	267	267	267	267	176	176

**Business Case Description:**

Avista owns and maintains an underground electric network that serves the core business district of downtown Spokane. The network is unique to Avista's electric distribution and requires specialized material, equipment, tooling, and training to perform maintenance repair, planned replacement, and capacity growth projects. The scope of annual capital replacements and additions includes: 10,000 feet of secondary cable, 5,000 feet of primary cable, 15 manholes, and 5 vaults/vault roofs.

**Offsets:**

There are no anticipated offsets with this business case.

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



Investment Name:	Spokane Elec. Network	Assessments:	
Requested Amount	\$2,300,000 annually	Financial:	MH - >= 9% & <12% CIRR
Duration/Timeframe	n/a Year Program	Strategic:	Life Cycle Programs
Dept., Area:	Engineering	Operational:	Operations require execution to perform at current levels
Owner:	Rosentrafer/James (updated July 16, 2014)	Business Risk:	ERM Reduction >5 and <= 10
Sponsor:	Don Kopczynski	Program Risk:	High certainly around cost, schedule and resources
Category:	Program	Assessment Score:	97
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 owns and maintains an underground electric network that serves the core business district of downtown Spokane. Topology in the Network is unique to Avista electric distribution and requires specialized material, equipment, tooling, and training to perform maintenance repair, planned replacement, and capacity growth projects. The scope of annual capital replacements and additions includes: 7500 feet of secondary cable, 7500 feet of primary cable, 10 refurbished manholes & vaults, 10 transformer replacements, and 20 street light replacements. Electric revenues associated with the Spokane Network are approximately \$15-20M.	Investments necessary to maintain current operations and to extend the life of current assets.	\$ 2,300,000	\$ 348,251	\$ 215,000	6

Alternatives:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
Unfunded Program: Unfunding Network operations assumes zero PM activities and an eventual loss system functionality.	n/a	\$ -	\$ -	\$ -	25
Alternative 1: Brief name of alternative (if applicable) Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	6
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	2058	2237	2251
	Capital Cost	O&M Cost	Other Costs	Approved		CapX Repl.	Metro PILC	Post St PILC
2012	\$ 2,150,000	\$ 315,000	\$ 215,000	\$ 2,150,000				
2013	\$ 2,300,000	\$ 315,000	\$ 215,000	\$ 2,350,007				
2014	\$ 2,300,000	\$ 348,250	\$ 215,000	\$ 1,838,000				
2015	\$ 2,300,000	\$ 348,250	\$ 215,000	\$ 2,300,000				
2016	\$ 2,300,000	\$ 348,250	\$ 215,000	\$ 2,300,000				
2017	\$ 2,300,000	\$ 348,250	\$ 215,000	\$ 2,300,000				
2018	\$ 2,300,000	\$ 348,250	\$ 215,000	\$ 2,300,000				
2019	\$ 2,300,000	\$ 348,250	\$ 215,000	\$ 2,300,000				
Total	\$ 18,250,000	\$ 2,719,500	\$ 1,720,000	\$ 17,838,007				
	CapX Specific	O&M	O&B					

**Mandate Excerpt (If applicable):**  
Various WUTC tariff schedules are associated with customer classifications in downtown Spokane. NESC/WAC govern public and worker safety.

**Additional Justifications:**  
Service to the core business district in Spokane is afforded a much higher level of service reliability than other urban or rural areas. This reflects the importance of continuous service to hospitals, law enforcement, city government, banking, legal, commerce, and retail sectors of the local economy.

**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:	Plan to Actual



Prepared                      signature \_\_\_\_\_

Reviewed                      signature \_\_\_\_\_  
Director/Manager

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

### Spokane Sec. Network (2013-2018)

Category	2013	2014	2015	2016	2017	2018
Post St PILC	500	500	500	500	500	500
Metro PILC	0	0	500	500	500	500
Growth	200	200	300	300	300	300
Vaults & Manholes	500	500	500	500	500	500
Elec. Equip. Capital Replacement	1100	1100	1000	1000	1000	1000
Transformers & Protectors	850	890	920	950	960	980

### 2014 Work Plan (actuals)

NETWORK	Sec. Cable	Prim. Cable	Xmfr	Vault/Man	St. Lt	Lost Time	Vehicle	Injury
Jan	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0
Mar	160	2828	0	0	1	0	0	1
Apr	1000	1794	4	0	2	0	0	0
May	2000	1888	0	0	1	0	0	0
Jun	2506	668	0	1	0	0	0	0
Jul								
Aug								
Sep								
Oct								
Nov								
Dec								
Tot	5668	7178	4	1	4	0	0	1
YE Target	7500	7500	10	10	20	0	0	0

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

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System): \$ 15,650 <sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	957	-	-	-	-	-	-	-	-	-	404	226	327
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

**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.

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



<b>Investment Name:</b>	<b>Storms</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$ 3,000,000</b>	<b>Financial:</b>	<b>7.00%</b>
<b>Duration/Timeframe</b>	<b>On-going Year Program</b>	<b>Strategic:</b>	<b>Reliability &amp; capacity</b>
<b>Dept., Area:</b>	<b>Operations</b>	<b>Business Risk:</b>	<b>Business Risk Reduction &gt;15</b>
<b>Owner:</b>	<b>Bryan Cox</b>	<b>Program Risk:</b>	<b>Moderate certainty around cost, schedule and resources</b>
<b>Sponsor:</b>	<b>Don Kopczynski</b>	<b>Assessment Score:</b>	<b>102</b>
<b>Category:</b>	<b>Program</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>	
<b>Mandate/Reg. Reference:</b>	<b>n/a</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>
<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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
<b>Unfunded Program:</b> 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
<b>Alternative 1: Brief name of alternative (if applicable)</b> Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	4
<b>Alternative 2: Brief name of alternative (if applicable)</b> Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name : Brief name of alternative (if applicable)</b> 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+	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 19,227,407</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 24,587,407</b>

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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	<b>Additional Justifications:</b> Any supplementary information that may be useful in describing in more detail the nature of the Project, the urgency, etc.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ 3,000,000</b>	<b>\$ 3,090,000</b>	<b>\$ 3,182,700</b>	<b>\$ 3,278,181</b>	<b>\$ 3,376,526</b>	<b>\$ 15,927,407</b>	

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



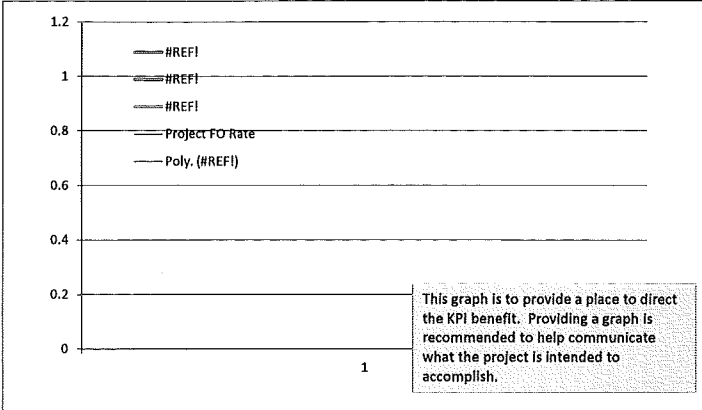
Prepared signature

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  
 2014-2016 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 2014-2016 (\$000s - System): \$ 1,075<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	262	-	-	-	-	-	-	-	-	-	-	12	250
2015	1,525	-	-	-	-	1,000	-	-	-	525	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-

**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.

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

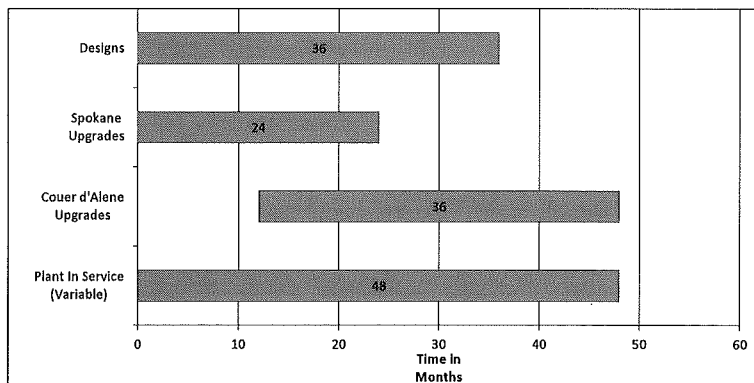


<b>Investment Name:</b>	<b>Substation - 115 kV Line Relay Upgrades</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$7,274,676</b>	<b>Financial:</b>	Medium - >= 5% & <9% CIRR
<b>Duration/Timeframe</b>	7 Year Project	<b>Strategic:</b>	Reliability & Capacity
<b>Dept., Area:</b>	T&D - Substation Engineering	<b>Operational:</b>	Operations require execution to perform at current levels
<b>Owner:</b>	Heather Rosentrater	<b>Business Risk:</b>	ERM Reduction >0 and <= 5
<b>Sponsor:</b>	Don Kopczynski	<b>Project/Program Risk:</b>	High certainty around cost, schedule and resources
<b>Category:</b>	Project	<b>Assessment Score:</b>	79
<b>Mandate/Reg. Reference:</b>	n/a	<b>Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Project Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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.	Improved comm., relay operation, & avoidance of potential large system outage problems.	\$ 7,274,676	\$ -	\$ -	1
<b>Cost Summary - Increase/(Decrease)</b>					

<b>Alternatives:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
<b>Status Quo :</b>	n/a	\$ 100,000	\$ 500,000	\$ 500,000	6
<b>Alternative 1: Brief name of alternative (if applicable)</b>	Describe other options that were considered	\$ -	\$ -	\$ -	0
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	\$ -	\$ -	\$ -	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	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 7,124,675</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,904,676</b>

<b>Milestones (high level targets)</b>	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	December-17 Complete Couer d'Alene Area Relay Upgrades
January-10 Start Relay Upgrades - Spokane		
December-10 Complete Communications Infrastructure		
January-11 Continue Spokane Area Relay Upgrades		

<b>Associated Ers (list all applicable):</b>	2217						
<b>Mandate Excerpt (if applicable):</b>	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)**

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).

<b>Key Performance Indicator(s)</b>	
Expected Performance Improvements	
KPI Measure:	Complete 3 Line Relay Upgrades per year.

Prepared \_\_\_\_\_  
Mike Magruder, Manager - Substation Engineering

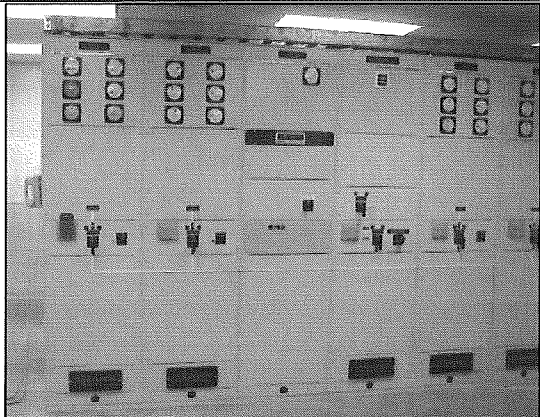
Reviewed \_\_\_\_\_  
Heather Rosentrater, Director - ENSO

Reviewed \_\_\_\_\_  
Andy Vickers, Director - GPSS

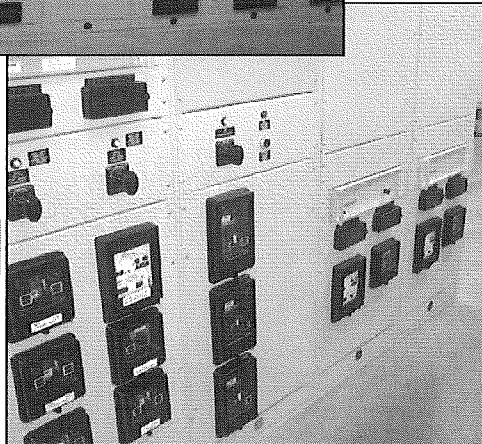
*Maggi Stevens*

**Otis Orchards 115 kV Switching Station**

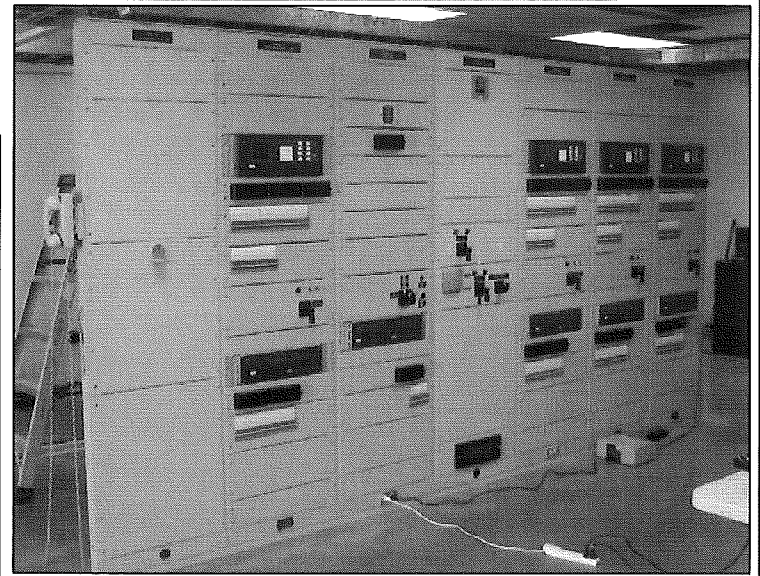
New Line Relay Panels (below) recently completed. New relays are microprocessor-based SEL relays using high-speed communications via the fiberoptic network previously installed.



Old Control & Meter Panels



Old Electromechanical Relays



**To be completed by Capital Planning Group**

<b>Rationale for decision</b>

Review Cycles	
2012-2016	
Date	Template

**AVISTA UTILITIES  
 2014-2016 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
  - 2283 Millwood Sub - Rebuild
  - 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 2014-2016 (\$000s - System): \$ 12,300<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	229	-	-	-	-	-	-	-	-	-	49	93	88
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

**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 (\$106,000 WA). Potential O&M Costs beginning in 2016 are estimated to be \$170,300 with potential O&M savings of \$8,217 annually. The net potential costs from the Autotransformer program is \$162,000.

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



Investment Name:	Substation - Asset Mgmt. Capital Maintenance	Assessments:	
Requested Amount	\$4,100,000	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	40 Year Program	Strategic:	Life Cycle Programs
Dept., Area:	T&D - Substation Engineering	Operational:	Operations require execution to perform at 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:	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 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	2280
	Capital Cost	O&M Cost	Other Costs	Approved	2275	2278	2280	2293	2294
					2326	2336	2343	2397	2425
2012	\$ 4,100,000	\$ -	\$ -	\$ 4,100,000	2449	2481	2492	2493	2505
2013	\$ 4,100,000	\$ -	\$ -	\$ 4,582,020					
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:  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:	Meet AM Plan Requirements for all Apparatus
	Maintain or increase annual program spend to meet demand

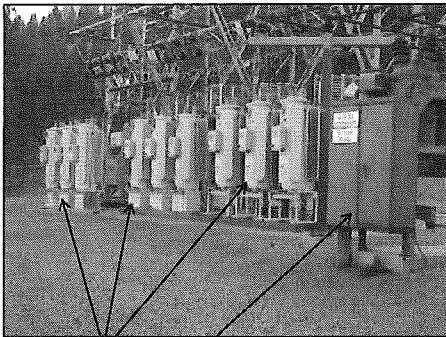
Prepared \_\_\_\_\_  
Mike Magruder, Manager - Substation Engineering

Reviewed \_\_\_\_\_  
Heather Rosentrater, Director - ENSO

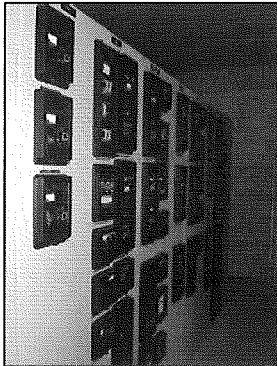
Reviewed \_\_\_\_\_  
Andy Vickers, Director - GPSS

*Margie Stevens*

**Capital Maintenance - Apparatus**



Step Voltage Regulators  
LV (13 kv) Breaker  
Sunset Substation

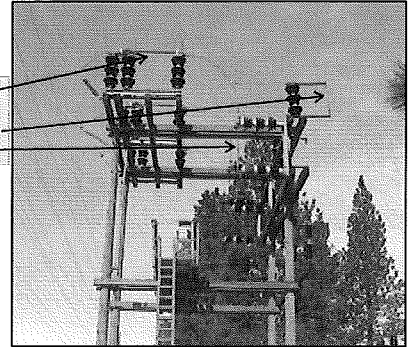


Electromechanical Relays  
Westside Substation

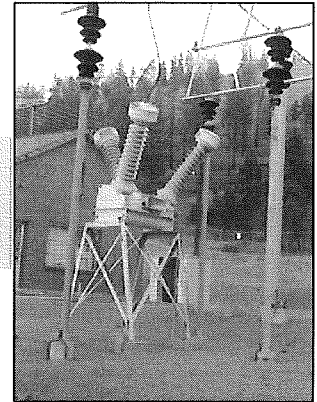


Sunset Substation - 115 kV Oil Circuit Breaker A-198  
HV Breaker - oldest breaker on Avista's system.

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



**To be completed by Capital Planning Group**

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System): \$12,515<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	252	-	-	-	-	-	-	-	-	-	6	246	-
2015	5,100	-	-	160	-	560	-	-	400	3,420	400	160	-
2016	6,115	-	-	-	-	650	-	-	900	250	4,315	-	-

**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.

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



<b>Investment Name:</b> Substation - Capital Spares		<b>Assessments:</b>				
<b>Requested Amount:</b> \$4,720,000		<b>Financial:</b> Medium - >= 5% & <9% CIRR				
<b>Duration/Timeframe:</b> 50 Year Program		<b>Strategic:</b> Life Cycle Programs				
<b>Dept., Area:</b> T&D - Substation Engineering		<b>Operational:</b> Operations require execution to perform at current levels				
<b>Owner:</b> Heather Rosentrater		<b>Business Risk:</b> ERM Reduction >5 and <= 10				
<b>Sponsor:</b> Don Kopczynski		<b>Program Risk:</b> High certainty around cost, schedule and resources				
<b>Category:</b> Program		<b>Assessment Score:</b> 89				
<b>Mandate/Reg. Reference:</b> n/a		<b>Annual Cost Summary - Increase/(Decrease)</b>				
<b>Recommend Program Description:</b>		<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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.		Renew asset life cycle; meet capacity requirements; adequate spare inventory	\$ 4,720,000	\$ -	\$ -	1
		<b>Annual Cost Summary - Increase/(Decrease)</b>				
<b>Alternatives:</b>		<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
<b>Unfunded Program:</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
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					
<b>Total</b>	<b>\$ 36,790,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 33,565,100</b>					
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
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).





**AVISTA UTILITIES  
 2014-2016 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	2889	Mobile Substn—Purchase New Mobile Subs
2502	N. Moscow - Increase Capacity	2590	Deer Park 115 kV Sub – Minor Rebuild
2522	10th & Stewart Dx Int	2395	SE 115 Bus-Upgrd Xfmr and add 12F6
2546	Blue Creek 115 kV - Rebuild	2572	Noxon Construction Sub - Minor Rebuild
2562	Grangeville 115 kV Sub - Rebuild	2573	Little Fall 115 kV Sub – Rebuild
2563	Stratford 115kV - Upgrade Bus	2889	Mobile Substn—Purchase New Mobile Subs
2566	Northwest 115 kV - Rebuild Substation		

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$17,366<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	5,872	-	-	-	-	-	-	-	-	-	11	2,840	3,021
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

**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.

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



<b>Investment Name:</b>	<b>Substation - Distribution Station Rebuilds</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$8,168,573</b>	<b>Financial:</b>	MH - >= 9% & <12% CIRR
<b>Duration/Timeframe</b>	50 Year Program	<b>Strategic:</b>	Life Cycle Programs
<b>Dept., Area:</b>	T&D - Substation Engineering	<b>Operational:</b>	Operations improved beyond current levels
<b>Owner:</b>	Heather Rosentrater	<b>Business Risk:</b>	ERM Reduction >5 and <= 10
<b>Sponsor:</b>	Don Kopczynski	<b>Program Risk:</b>	High certainty around cost, schedule and resources
<b>Category:</b>	Program	<b>Assessment Score:</b>	105
<b>Mandate/Reg. Reference:</b>	n/a	<b>Annual Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Program Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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 & Kamiah (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

<b>Alternatives:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
<b>Unfunded Program:</b>	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
<b>Alternative 1: Planned Equipment Replacements.</b>	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
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
5 years of costs					2204	2283	2285	2341	2465
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>	2502	2521	2522	2546	2562
					2563	2565	2566	2567	2568
2012	\$ 7,750,000	\$ -	\$ -	\$ 7,750,000	2569	2572	2573		
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					
<b>Total</b>	<b>\$ 39,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 54,354,095</b>					
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).

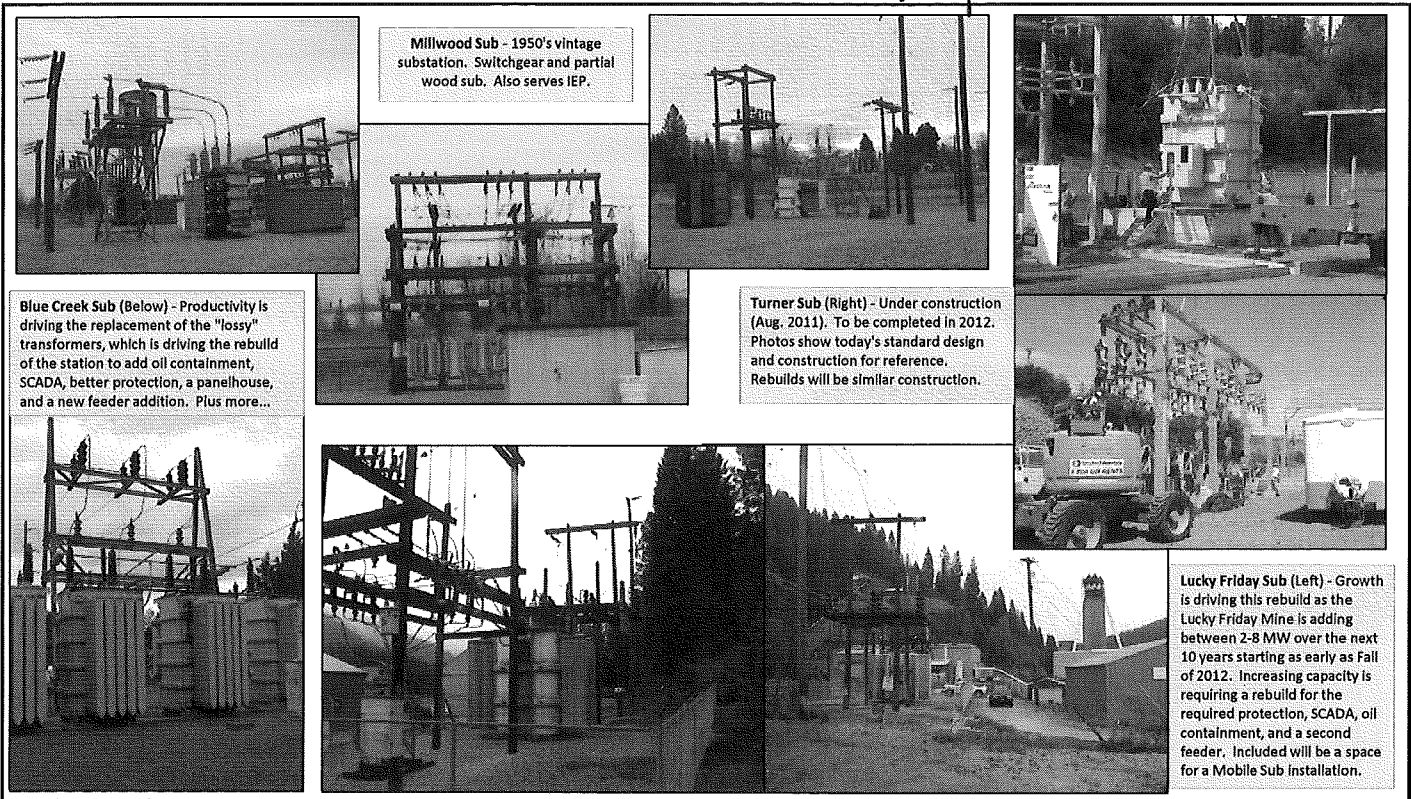
Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Complete 3 rebuilds per year.
	Complete Metro Sub EPC Rebuild by 2018.

Prepared \_\_\_\_\_  
Mike Magruder, Manager - Substation Engineering

Reviewed \_\_\_\_\_  
Heather Rosentrater, Director - ENSO

Reviewed \_\_\_\_\_  
Andy Vickers, Director - GPSS

*Margie Stevens*



**To be completed by Capital Planning Group**

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES  
 2014-2016 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
- 2583 Lewiston Mill Road- Dx Line Integration
- 2587 Irvin 115-13 kV Sub - Add Distribution Station

**Approved Business Case Spend Amount 2014-2016 (\$000s - System): \$ 5,637<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	412	-	-	-	-	-	-	-	-	-	1	32	379
2015	2,026	-	-	-	-	-	1,900	-	-	-	-	-	126
2016	75	-	-	-	-	-	-	-	-	-	-	-	75

**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.

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



<b>Investment Name:</b>	<b>Substation - New Distribution Stations</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$1,430,714</b>	<b>Financial:</b>	Medium - >= 5% & <9% CIRR
<b>Duration/Timeframe</b>	50 Year Program	<b>Strategic:</b>	Reliability & Capacity
<b>Dept., Area:</b>	T&D - Substation Engineering	<b>Operational:</b>	Operations require execution to perform at current levels
<b>Owner:</b>	Heather Rosentrater	<b>Business Risk:</b>	ERM Reduction >5 and <= 10
<b>Sponsor:</b>	Don Kopczynski	<b>Program Risk:</b>	High certainly around cost, schedule and resources
<b>Category:</b>	Program	<b>Assessment Score:</b>	80
<b>Mandate/Reg. Reference:</b>	n/a	<b>Annual Cost Summary - Increase/(Decrease)</b>	

Recommend Program Description:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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.	\$ 1,430,714	\$ -	\$ -	1

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
<b>Unfunded Program:</b> Without adding new substations as justified, we would not be able to adequately meet our obligation to serve.	Unable to add load to system; poor system operation.		\$ 250,000	\$ 250,000	9
<b>Alternative 1: Extend Feeders; Increase Substation Capacities</b>	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.	\$ 1,000,000	\$ 150,000	\$ -	6
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	Describe other options that were considered	\$ -	\$ -	\$ -	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					
<b>Total</b>	<b>\$ 15,645,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,461,665</b>					
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	

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 unload 2 feeders - Moscow 115 513 mid 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

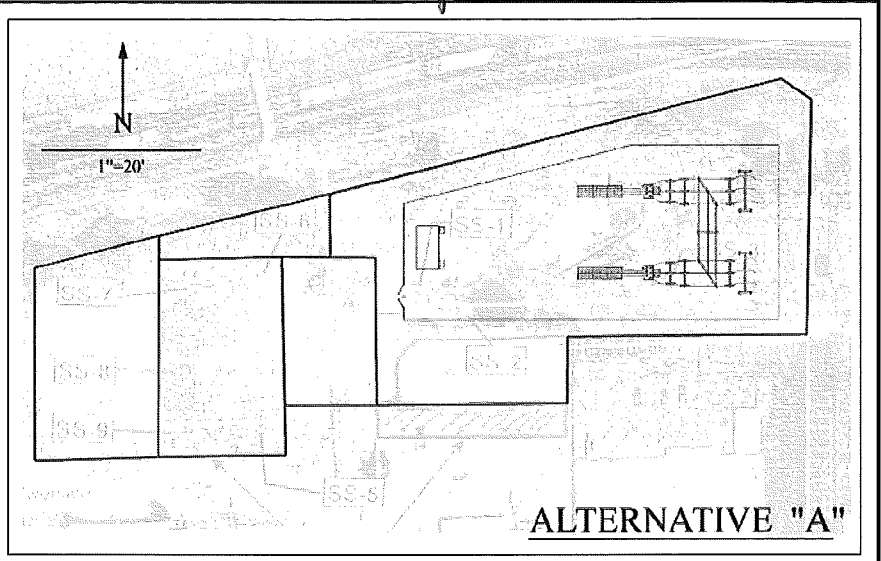
**AVISTA Utilities**

Green Acres 115-13kV Substation ER3-443

Cost Estimate: \$224.43  
Distribution: \$200,000

Green Acres

Scope: This project is to build a greenfield substation on long term purchased property in the Overman area. This substation will feed the vicinity west of the 115kV and 138kV. Overman 115kV is being used to supply 138kV to avoid transfer to under existing conditions. 138kV and 115kV are both over operating limits in the 115kV. Significant growth is expected in the area west of Overman development along the river and commercial growth east along the 190 corridor.



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	
	2012-2016	
	Date	Template

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System):** \$ 2,245 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	110	-	-	-	-	-	-	-	-	-	-	-	110
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

**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.

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





Capital Program Business Case

Investment Name:	<b>Tribal Permits and Settlements</b>	Assessments:	
Requested Amount	<b>\$325,000</b>	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:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
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.	Maintaining facilities in existing locations versus costs of having to relocate	\$ 325,000	\$ -	\$ -	8

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.	Lines could be removed from service impacting	\$ 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.	Restore service to today's system.	\$ 10,000,000	\$ -		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	2301				
	Capital Cost	O&M Cost	Other Costs	Approved						
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.

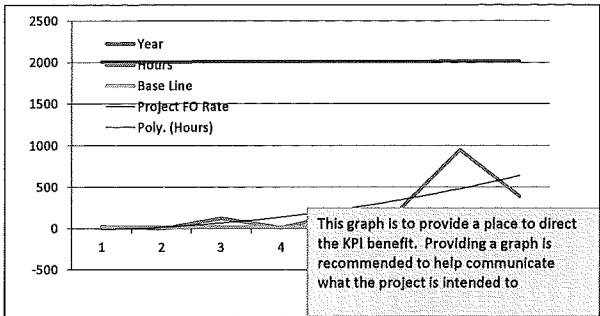
**Resources Requirements: (request forms and approvals attached)**

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).



<b>Key Performance Indicator(s)</b>	
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 *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 Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System):** \$ 5,809 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,351	-	-	-	-	-	-	-	-	-	0	0	1,350
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

**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.

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



<b>Investment Name:</b>	<b>Underperforming Elec Ckts (Worst FDRs)</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$2,000,000</b>	<b>Financial:</b>	Medium - >= 5% & <9% CIRR
<b>Duration/Timeframe</b>	on-going Year Program	<b>Strategic:</b>	Life Cycle Programs
<b>Dept., Area:</b>	Engineering/Operations	<b>Operational:</b>	Operations require execution to perform at current levels
<b>Owner:</b>	Rosentrater/James (updated July 16, 2014)	<b>Business Risk:</b>	ERM Reduction >5 and <= 10
<b>Sponsor:</b>	Don Kopczynski	<b>Program Risk:</b>	Moderate certainty around cost, schedule and resources
<b>Category:</b>	Program	<b>Assessment Score:</b>	84
<b>Mandate/Reg. Reference:</b>	n/a	<b>Annual Cost Summary - Increase/(Decrease)</b>	

Recommend Program Description:	Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
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	\$ -	\$ -	12

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Unfunded Program:</b>	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
<b>50% funding</b>	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
<b>25% funding</b>	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	2414			
	Capital Cost	O&M Cost	Other Costs	Approved					
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					
<b>Total</b>	<b>\$ 16,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,050,550</b>					

**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)**

<b>Internal Labor Availability:</b> <input type="checkbox"/> Low Probability <input checked="" type="checkbox"/> Medium Probability <input type="checkbox"/> High Probability <b>Contract Labor:</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<b>Enterprise Tech:</b> <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required <b>Facilities:</b> <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required <b>Capital Tools:</b> <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required <b>Fleet:</b> <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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<b>Key Performance Indicator(s)</b>	
Expected Performance Improvements	
KPI Measure:	Monitor SAIFI

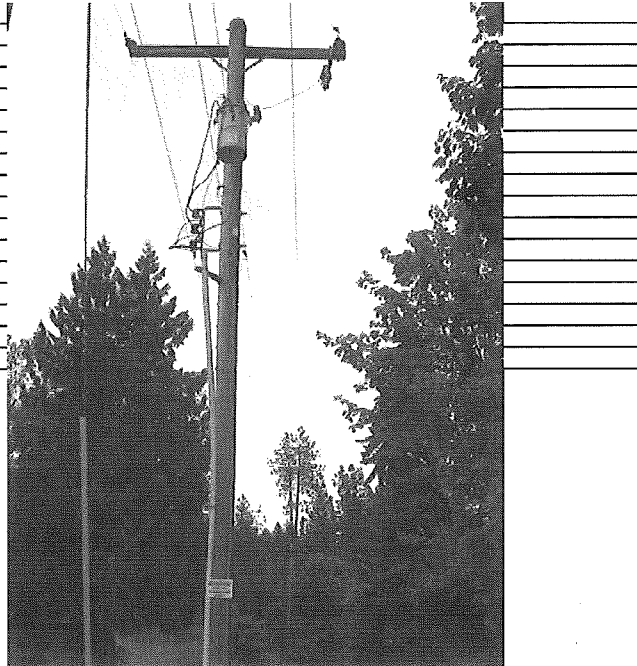


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Reviewed signature Director/Manager

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

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**

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System): \$ 10,710<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,900	-	-	-	-	-	-	-	-	-	-	-	1,900
2015	2,900	-	-	-	-	-	-	-	-	-	-	2,300	600
2016	7,440	-	-	-	-	-	-	-	-	-	5,400	-	2,040

**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.

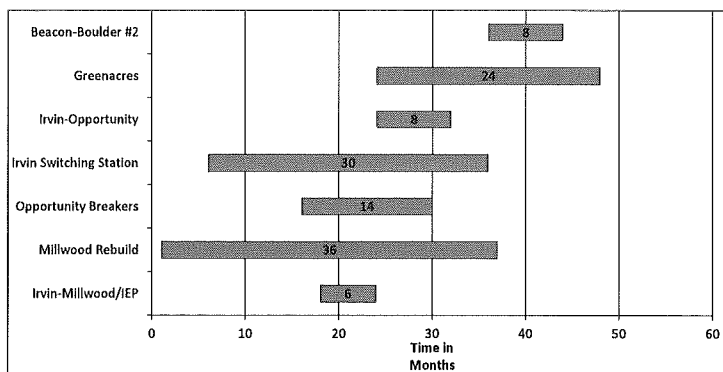
<sup>1</sup> The business case amount reflects approved capital expenditures for the years indicated and not transfers to plant.

<b>Investment Name:</b>	<b>Spokane Valley Transmission Reinforcement</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$13,736,503</b>	<b>Financial:</b>	Medium - >= 5% & <9% CIRR
<b>Duration/Timeframe</b>	5 Year Project	<b>Strategic:</b>	Reliability & Capacity
<b>Dept., Area:</b>	T&D - Substation & Transmission Engineering	<b>Operational:</b>	Operations require execution to perform at current levels
<b>Owner:</b>	Heather Rosenstrater	<b>Business Risk:</b>	ERM Reduction >0 and <= 5
<b>Sponsor:</b>	Don Kopczynski	<b>Project/Program Risk:</b>	High certainly around cost, schedule and resources
<b>Category:</b>	Project	<b>Assessment Score:</b>	78.5
<b>Mandate/Reg. Reference:</b>	n/a	<b>Cost Summary - Increase/(Decrease)</b>	

<b>Recommend Project Description:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
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.	Ability to serve load growth in area and provide operational flexibility to maintain equipment	\$ 13,736,503	\$ -	\$ -	1

<b>Alternatives:</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>	
<b>Status Quo :</b>	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
<b>Alternative 1: Partial Transmission System Upgrades</b>	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
<b>Alternative 2: Irvin Plan Minus IRV-MIL 115 kV Line</b>	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
<b>Alternative 3 Name : Brief name of alternative (if applicable)</b>	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	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 12,330,559</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,417,503</b>

<b>Milestones (high level targets)</b>			
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

<b>Associated Ers (list all applicable):</b>	1006	2001	2446	2474	2526	2552
<b>Mandate Excerpt (if applicable):</b>	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

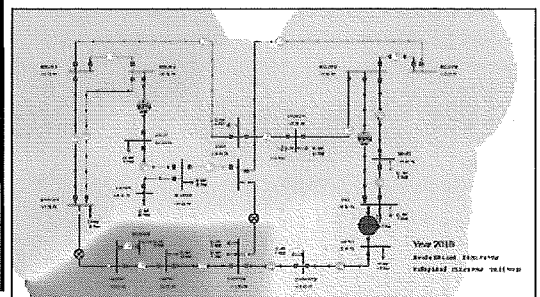
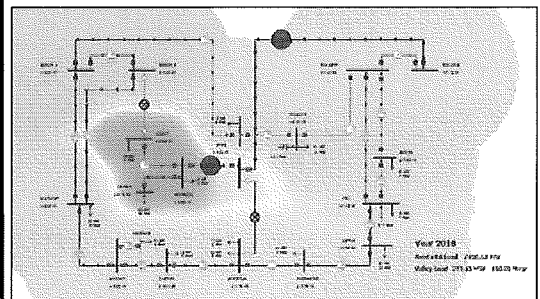
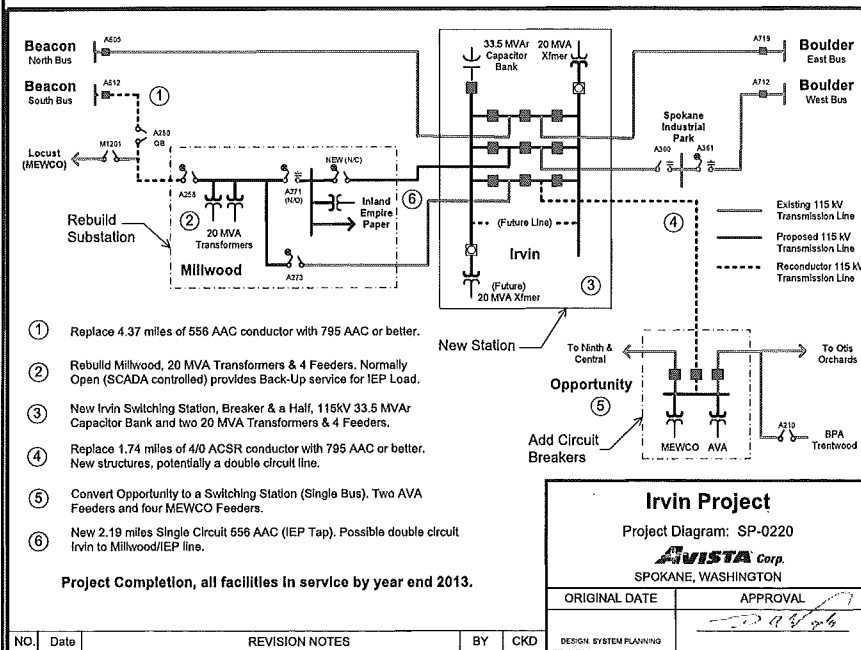
Prepared Mike Magruder/Ken Sweigart, T&D Substations/Transmission

Reviewed Heather Rosentrater, Director - ENSO

Reviewed Andy Vickers, Director - GPSS

*Margi Stevens*

Below is the approved Project Diagram for the "Irvin Project" and power simulation plot indicating thermal overload on transmission lines during specific outage scenarios



**To be completed by Capital Planning Group**

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template



**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System):** \$ 2,300<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	506	-	-	-	-	-	-	-	-	-	-	6	500
2015	500	-	-	-	-	-	-	-	-	-	500	-	-
2016	500	-	-	-	-	-	-	-	-	-	500	-	-

**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.

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



Investment Name:	<b>Clearwater Sub Upgrades</b>	Assessments:	
Requested Amount	<b>\$3,700,000</b>	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	Assessment Score:	#NAME?
Category:	Project		
Mandate/Reg. Reference:	n/a		

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	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
<b>Unfunded Project:</b> 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
<b>Alternative 1: Brief name of alternative (if applicable)</b> 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
<b>Alternative 2: Brief name of alternative (if applicable)</b> Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b> 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+	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 3,700,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,100,000</b>

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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ 700,000</b>	<b>\$ 2,000,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 3,700,000</b>	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.

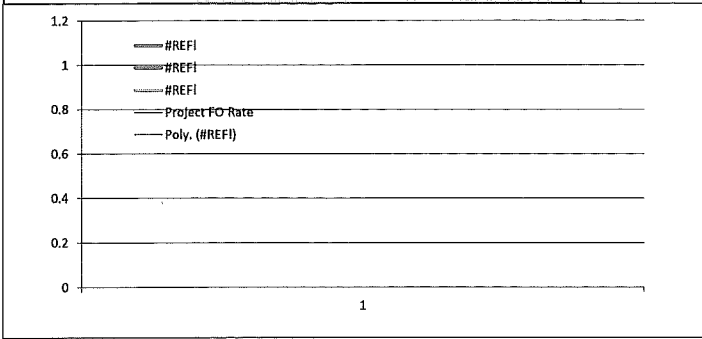
Milestones (high level targets)

March-13	Sub Design Begins	Spring-14	T-line Shoofly Const.	Spring-16	Upgrade Transformer n	Milestones should be general. Use your judgement on project progress so that progress can
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

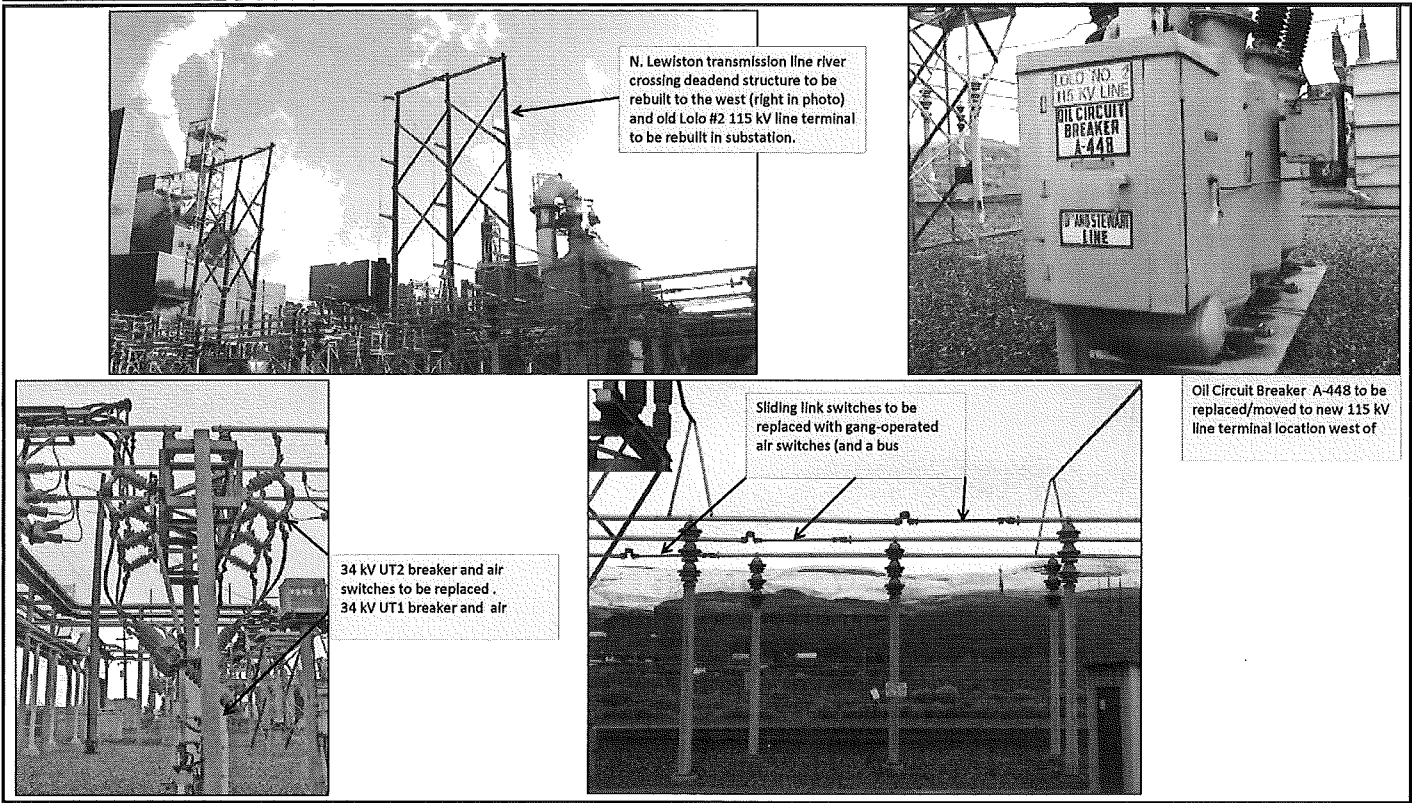


Prepared \_\_\_\_\_  
 Mike Magruder/Ken Sweigart, T&D Substations/Transmission

Reviewed \_\_\_\_\_  
 Heather Rosentrater, Director - ENSO

Reviewed \_\_\_\_\_  
 Andy Vickers, Director - GPSS

Reviewed (if necessary) *Margie Steuenz* \_\_\_\_\_  
 Director



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

**AVISTA UTILITIES  
2013-2016 CAPITAL PROJECTS**

**Functional Group:** Electric Transmission / Distribution

**Business Case Name:** Franchising for Washington State Department of Transportation (“WSDOT”)

**ER No:** 7108  
**ER Name:** WSDOT Highway Franchise Consolidation

**Approved Business Case Spend Amount 2013-2016 (\$000s - System):** \$1,086<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	759	-	-	-	-	-	-	-	-	-	-	-	759
2015	427	36	36	36	36	36	36	36	36	36	36	36	36
2016	494	41	41	41	41	41	41	41	41	41	41	41	41

**Business Case Description:**

Obtain franchise renewals for existing facilities on WSDOT rights of way. We have hundreds of miles of Transmission and Distribution facilities within WSDOT rights of ways. Maintaining our right to be there allows for the continued operation of those facilities without additional negative impact to our ratepayers or the Company.

**Offsets:**

There are no anticipated offsets with this business case.

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



<b>Investment Name:</b>	<b>Franchising for WSDOT</b>	<b>Assessments:</b>				
<b>Requested Amount</b>	<b>\$265,000</b>	<b>Financial:</b>	<b>Medium - &gt;= 5% &amp; &lt;9% CIRR</b>			
<b>Duration/Timeframe</b>	<b>20 Year Program</b>	<b>Strategic:</b>	<b>Life Cycle Programs</b>			
<b>Dept., Area:</b>	<b>Environmental</b>	<b>Operational:</b>	<b>Operations somewhat impacted by execution</b>			
<b>Owner:</b>	<b>Rod Price (Mgr) Bruce Howard (Dir)</b>	<b>Business Risk:</b>	<b>ERM Reduction &gt;5 and &lt;= 10</b>			
<b>Sponsor:</b>	<b>Marian Durkin</b>	<b>Program Risk:</b>	<b>High certainty around cost, schedule and resources</b>			
<b>Category:</b>	<b>Program</b>	<b>Assessment Score:</b>	<b>81</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>		
<b>Mandate/Reg. Reference:</b>	<b>n/a</b>	<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
<b>Recommend Program Description:</b>		Present operation performance will remain	\$ 265,000		\$ -	1
Obtain franchise renewals for existing facilities on WSDOT rights of way. We have hundreds of miles of Transmission and Distribution facilities within WSDOT rights of ways. Maintaining our right to be there allows for the continued operation of those facilities without additional negative impact to our ratepayers or the Company.						
<b>Alternatives:</b>		<b>Annual Cost Summary - Increase/(Decrease)</b>				
<b>Unfunded Program:</b>	Without WSDOT Franchises, we may be evicted from WSDOT property, thus requiring that we relocate our facilities. In addition, we will not be able to add new facilities to WSDOT properties if needed to serve our load or operate our system as required.	n/a	\$ -	\$ -	moderate to extreme	9
<b>move facilities to private property</b>	This would involve obtaining easements on, or buying, private property and moving all of the existing facilities.	interrupt services to move facilities	\$ -	\$ -	moderate to extreme	1
			\$ -	\$ -	\$ -	0
			\$ -	\$ -	\$ -	0

<b>Program Cash Flows</b>					<b>Associated Ers (list all applicable):</b>				
5 years of costs					7108				
	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Approved</b>					
2012		\$ -	\$ -	\$ 250,000					
2013		\$ -	\$ -	\$ 125,000					
2014	\$ 265,000	\$ -	\$ -	\$ 165,000					
2015	\$ 195,000	\$ -	\$ -	\$ 427,375					
2016	\$ 125,000	\$ -	\$ -	\$ 494,100					
2017	\$ 125,000	\$ -	\$ -	\$ 9,100					
2018	\$ 125,000	\$ -	\$ -	\$ 2,500					
2019	\$ -	\$ -	\$ -	\$ 5,600					
<b>Total</b>	<b>\$ 835,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,478,675</b>					

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

**Additional Justifications:**  
WSDOT will not allow new facilities to be built on franchises that have expired.

**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 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).

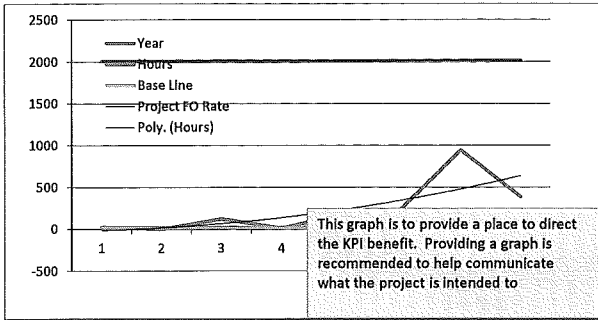


**Key Performance Indicator(s)**

Expected Performance Improvements

KPI Measure: obtain franchises

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  
 2014-2016 CAPITAL PROJECTS**

**Functional Group:** Electric Transmission / Distribution

**Business Case Name:** Harrington Voltage Conversion from 4 kV to 13 kV

**ER No:** 2289  
**ER Name:** Harrington Conversion to 13 kV

**Approved Business Case Spend Amount 2014-2016 (\$000s - System):** \$3,040<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	2,025	83	83	83	83	83	83	83	83	958	83	83	233
2016	1,000	83	83	83	83	83	83	83	83	83	83	83	83

**Business Case Description:**

The Harrington, WA area is the last area Avista serves at the legacy 4 kV voltage. This voltage is obsolete for serving utility distribution systems and we have very limited spare equipment to continue service at this voltage. The substation is very old and the transformer will be difficult and time consuming to replace if it fails. We do not have 4 kV on our mobile substations, so all the customers served by Harrington feeders will be out of service until the transformer is replaced. This could easily be up to 48 hours. There is no reason to delay this needed upgrade to our standard distribution class voltage and equipment. Minor system efficiencies also result.

**Offsets:**

There are no anticipated offsets with this business case.

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



<b>Investment Name:</b>	<b>Harrington Upgrades</b>	<b>Assessments:</b>	
<b>Requested Amount</b>	<b>\$3,000,000</b>	<b>Financial:</b>	<b>7.00%</b>
<b>Duration/Timeframe</b>	<b>1 Year Project</b>	<b>Strategic:</b>	<b>Reliability &amp; Capacity</b>
<b>Dept., Area:</b>	<b>T&amp;D - Substations/Distribution</b>	<b>Business Risk:</b>	<b>Business Risk Reduction &gt;5 and &lt;= 10</b>
<b>Owner:</b>	<b>Heather Rosentrater</b>	<b>Project Risk:</b>	<b>High certainty around cost, schedule and resources</b>
<b>Sponsor:</b>	<b>Don Kopczynski</b>		
<b>Category:</b>	<b>Project</b>		
<b>Mandate/Reg. Reference:</b>	<b>n/a</b>	<b>Assessment Score:</b>	

Recommend Project Description:	#NAME?	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Performance	Capital Cost	O&M Cost	
<b>Harrington Voltage Conversion.</b> Harrington is the last area Avista serves at the legacy 4 kV voltage. This voltage is obsolete for serving utility distribution systems and we have very limited spare equipment to continue service at this voltage. The substation is very old and the transformer will be difficult and time consuming to replace if it fails. We do not have 4 kV on our mobile substations, so all the customers served by Harrington feeders will be out of service until the transformer is replaced. This could easily be up to 48 hours. There is no reason to delay this needed upgrade to our standard distribution class voltage and equipment. Minor system efficiencies also result.	Removes long term outage risk for sub failures; reduces losses; standardizes system	\$ 3,000,000	\$ -	\$ -	1

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
<b>Unfunded Project:</b> Do nothing. This option poses increased risk for the Company and exposes Harrington customers to potentially long outages. The substation has reached end of life and its equipment is obsolete. Unplanned restoration costs will be more expensive as a result.	n/a	\$ 300,000	\$ 100,000	\$ 1,000,000	6
<b>Unfunded Project: Cont'd</b> The existing station also has high voltage fuses protecting the transformer that are over-dutied, meaning they may not function as needed for a fault. This is one of five remaining stations with this type of fusing.	describe any incremental changes in operations	\$ -	\$ -	\$ -	1
<b>Alternative 2: Brief name of alternative (if applicable)</b> Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b> 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	\$ 3,000,000	\$ -	\$ -	\$ 40,000
2015	\$ -	\$ -	\$ -	\$ 2,000,000
2016	\$ -	\$ -	\$ -	\$ 1,000,000
2017+	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 3,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,040,000</b>

Associated Ers (list all applicable):			
2289			

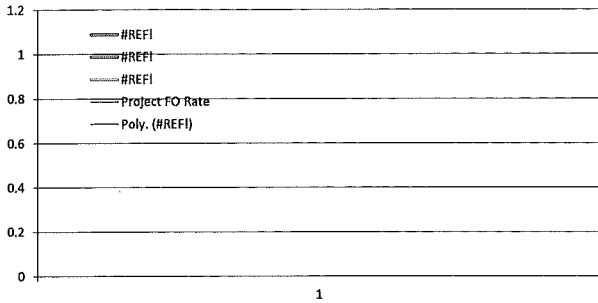
ER	2013	2014	2015	2016	2017+	Total	Mandate Excerpt (if applicable):
2289	\$ -	\$ 3,000,000	\$ -	\$ -	\$ -	\$ 3,000,000	provide brief citation of the law or regulation and a reference number if possible
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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<b>Total</b>	<b>\$ -</b>	<b>\$ 3,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,000,000</b>	<b>Additional Justifications:</b> If the substation transformer fails, our spare units are at Ritzville and they are very old. We have tested them and so far, they are good. We have another option to install a 115/13 kV transformer and then a 13/4 kV transformer to serve the load. Doing nothing is simply not in the best interest of our customers or shareholders. This is the only 4 kV distribution system we own and operate and it needs to be upgraded to a standard utility voltage class.

Milestones (high level targets)						
January-14	Begin Design	July-14	Remove & Salvage Old Substation	January-00	open	
March-14	Start Distribution Line Work	August-14	Start Substation Construction	January-00	open	
May-14	Transmit Substation Rebuild	October-14	Complete Substation Construction	January-00	open	
June-14	Install Mobile Substation	October-14	Transfer Load from Mobile to Sub	January-00	open	
June-14	Start Distribution Cutover Process	November-14	Return Mobile to Spokane	January-00	open	
July-14	Complete Cutover Process	January-00	open	January-00	open	

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

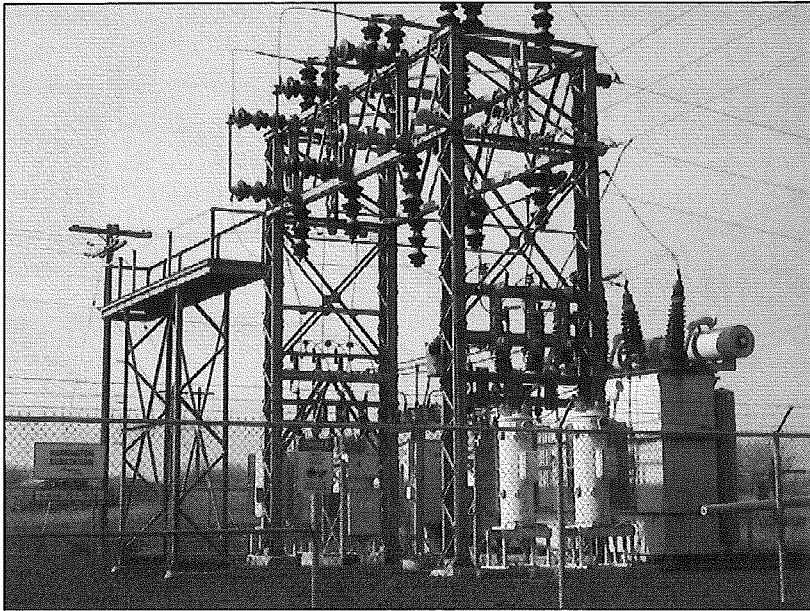


Prepared \_\_\_\_\_  
Mike Magruder/Dave James, T&D Substations/Distribution

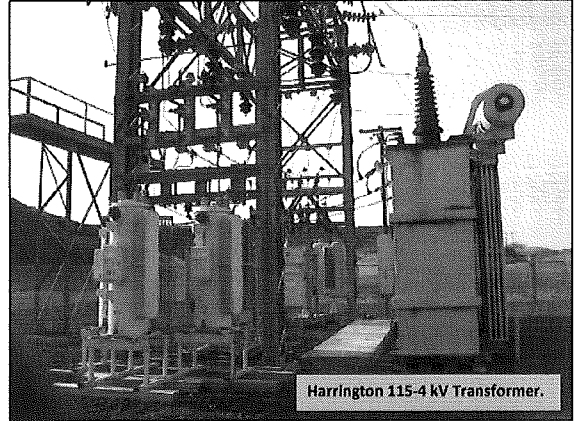
Reviewed \_\_\_\_\_  
Heather Rosentrater, Director - ENSO

Reviewed \_\_\_\_\_  
Andy Vickers, Director - GPSS

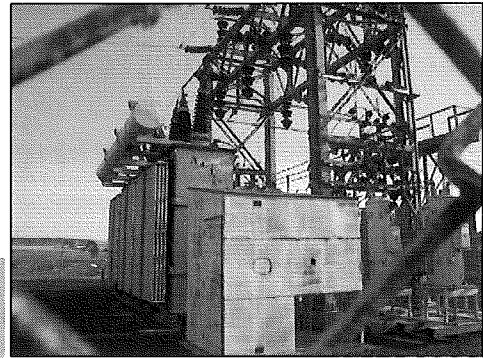
Reviewed \_\_\_\_\_  
*Margaret Spencer*  
Bryan Cox, Director - West Operations



Harrington 115-4 kV Substation.



Harrington 115-4 kV Transformer.



Harrington Metering/Control Enclosure next to three 1-phase 115-4 kV Transformers and 4 kV Voltage Regulators for Feeder 4F1.

**To be completed by Capital Planning Group**

Rationale for decision	Review Cycles 2012-2016	
	Date	Template

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System): \$7,272<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,279	-	-	-	-	-	-	-	-	-	72	7	1,200
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	-

**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.

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



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 Rosenrater	Program Risk:	High certainty around cost, schedule and resources
Sponsor:	Don Kopczynski	Assessment Score:	
Category:	Program		
Mandate/Reg. Reference:	WECC Standard FAC-501-WECC-1		

Recommend Program Description:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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.	Customer IRR of 8.9%	\$ 1,400,000	\$ 331,000	\$ -	12

Alternatives:		Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
			Capital Cost	O&M Cost	Other Costs	
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

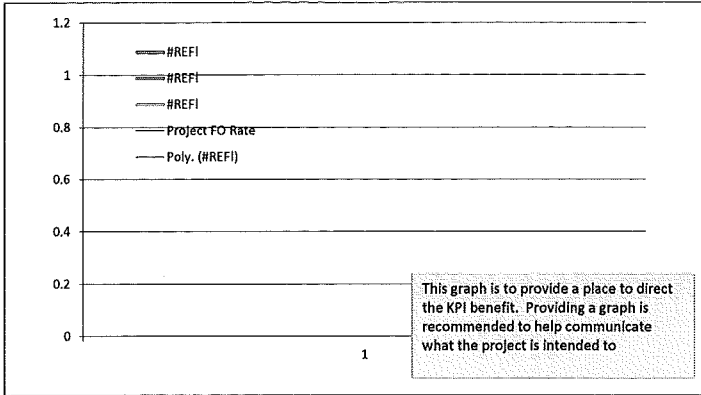
ER	2014	2015	2016	2017	2018	Total	Mandate Excerpt (if applicable):
2057	\$ 1,431,823	\$ 1,489,455	\$ 1,547,262	\$ 1,555,249	\$ 1,613,420	\$ 7,637,209	The majority of this Program is mandated under NERC Standards FAC-501-WECC-1. Failure to comply with standard could result in large financial penalties.
2254	\$ 215,000	\$ 220,000	\$ 225,000	\$ 225,000	\$ 230,000	\$ 1,115,000	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	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	\$ 1,646,823	\$ 1,709,455	\$ 1,772,262	\$ 1,780,249	\$ 1,843,420	\$ 8,752,209	

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



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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 Program

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

**AVISTA UTILITIES  
2014-2016 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 2014-2016 (\$000s - System):** \$3,690<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	250	-	-	-	-	-	-	-	-	-	-	-	250
2015	500	-	-	-	-	-	-	-	-	-	-	-	500
2016	2,000	-	-	-	-	-	-	-	-	-	-	-	2,000

**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.

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



Investment Name:	NERC Low Priority Mit	Assessments:	
Requested Amount	\$1,500,000	Financial:	9.00%
Duration/Timeframe	4 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:	

Recommend Program Description:	#NAME?	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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

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

	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

2579		

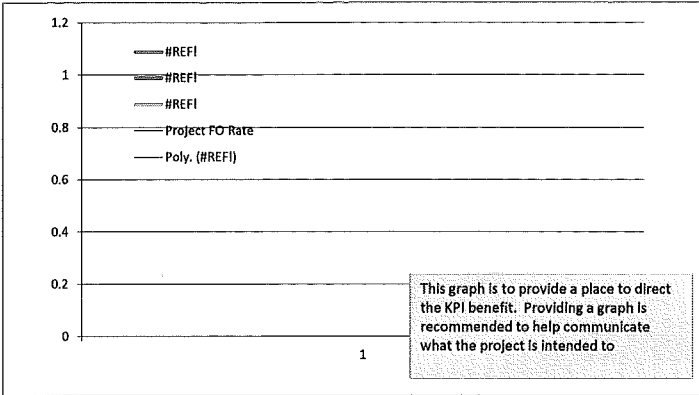
ER	2013	2014	2015	2016	2017	Total	Mandate Excerpt (if applicable):
2579	\$ -	\$ 250,000	\$ 500,000	\$ 2,500,000	\$ 2,500,000	\$ 5,750,000	Regulatory: Specific transmission lines require modification/rebuild for increased line clearance. Risk Management: Specific transmission lines require rebuild to reduce potential public injury risks.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	\$ -	\$ 250,000	\$ 500,000	\$ 2,500,000	\$ 2,500,000	\$ 5,750,000	<b>Additional Justifications:</b> 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).

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*

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  
 2014-2016 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 2014-2016 (\$000s - System): \$7,276 <sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,717	-	-	-	-	-	-	-	-	-	22	2	1,693
2015	3,294	-	-	-	-	-	-	-	-	-	-	-	3,294
2016	2,251	-	-	-	-	-	-	-	-	-	-	-	2,251

**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.

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





<b>Investment Name:</b>	NERC Med Priority Mit	<b>Assessments:</b>	
<b>Requested Amount</b>	\$2,500,000	<b>Financial:</b>	9.00%
<b>Duration/Timeframe</b>	2 Year Program	<b>Strategic:</b>	Reliability & Capacity
<b>Dept., Area:</b>	TLD Engineering	<b>Business Risk:</b>	Business Risk Reduction >10 and <= 15
<b>Owner:</b>	Heather Rosentrater	<b>Program Risk:</b>	High certainty around cost, schedule and resources
<b>Sponsor:</b>	Don Kopczynski		
<b>Category:</b>	Program		
<b>Mandate/Reg. Reference:</b>	October 7, 2010 "NERC Alert" w/r Facility Ratings	<b>Assessment Score:</b>	
<b>Recommend Program Description:</b>		<b>#NAME?</b>	
		<b>Performance</b>	<b>Annual Cost Summary - Increase/(Decrease)</b>
			<b>Capital Cost</b>
			<b>O&amp;M Cost</b>
			<b>Other Costs</b>
			<b>Business Risk Score</b>

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, Benevah-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).

Alternatives:		Performance	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Unfunded Program:</b>	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
<b>Alternative 1: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	1
<b>Alternative 2: Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name: Brief name of alternative (if applicable)</b>	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	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 4,987,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,276,000</b>

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	<b>Regulatory:</b> Specific transmission lines require modification/rebuild for increased line clearance. <b>Risk Management:</b> Specific transmission lines require rebuild to reduce potential public injury risks.
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	<b>\$ -</b>	<b>\$ 1,693,000</b>	<b>\$ 3,294,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,987,000</b>	<b>Additional Justifications:</b> 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)**

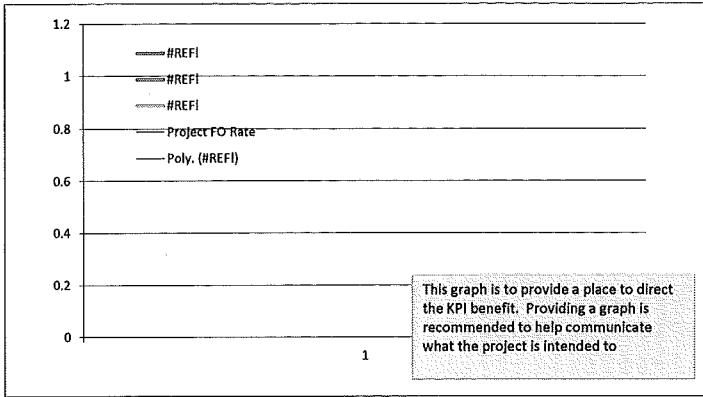
Internal Labor Availability: <input type="checkbox"/> Low Probability <input checked="" type="checkbox"/> Medium Probability <input type="checkbox"/> High Probability	Enterprise Tech: <input type="checkbox"/> YES - attach form <input checked="" type="checkbox"/> NO or Not Required
Contract Labor: <input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

<b>Key Performance Indicator(s)</b>
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 Program

To be completed by Capital Planning Group

Rationale for decision	Review Cycles	
	2012-2016	
	Date	Template

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System):** \$3,051 <sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1,229	-	-	-	-	-	-	-	-	-	137	1	1,090
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

**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.

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



Capital Program Business Case

<b>Investment Name:</b>	SCADA - SOO and BUCC
<b>Requested Amount</b>	Average capital amt 2013-18 is \$986,500
<b>Duration/Timeframe</b>	20 Year Program
<b>Dept., Area:</b>	T&D - SCADA - System Operations
<b>Owner:</b>	Craig Figart/Brad Calbick/Heather Rosentrater
<b>Sponsor:</b>	Don Koczynski
<b>Category:</b>	Program
<b>Mandate/Reg. Reference:</b>	WECC/NERC/FERC

**Assessments:**  
 Financial: 7.00%  
 Strategic: Reliability & capacity  
 Business Risk: Business Risk Reduction >5 and <= 10  
 Program Risk: High certainty around cost, schedule and resources

**Assessment Score:**

Recommend Program Description:	#NAME?	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
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).	Improved performance, upgraded equipment, better status & control, new life cycle.	\$ 1,036,000	\$ 473,926	\$ -	2

Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
<b>Unfunded Program:</b> 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.	Severe negative system reliability and compliance impacts	\$ -	\$ 100,000	\$ 500,000	12
<b>Alternative 1: Brief name of alternative (if applicable)</b> Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	2
<b>Alternative 2: Brief name of alternative (if applicable)</b> Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<b>Alternative 3 Name : Brief name of alternative (if applicable)</b> 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	\$ 1,090,500	\$ -	\$ -	\$ 1,028,500
2015	\$ 1,020,000	\$ 473,926	\$ -	\$ 1,020,000
2016	\$ 1,002,000	\$ 487,158	\$ -	\$ 1,002,000

Associated Ers (list all applicable):

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><b>Additional Justifications:</b> 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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

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

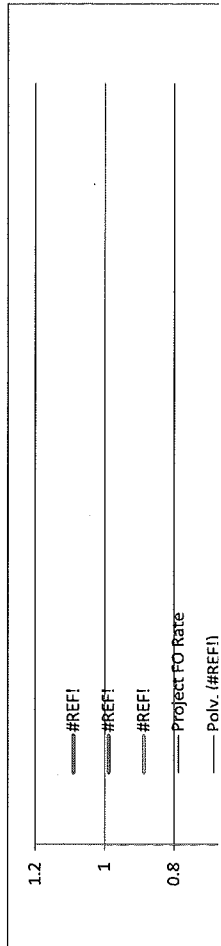
Capital Tools:  YES - attach form  NO or Not Required

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

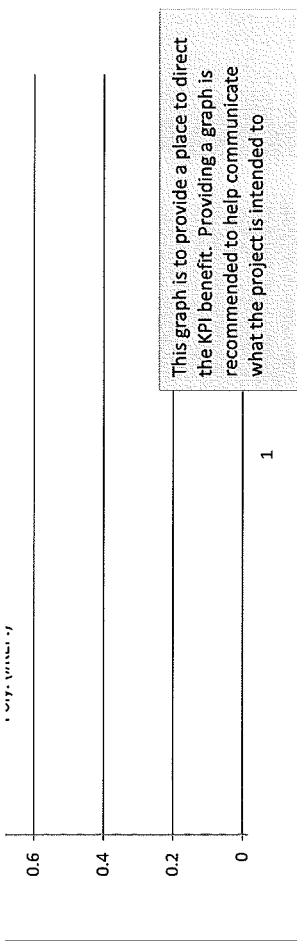


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Reviewed signature

Director/Manager

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

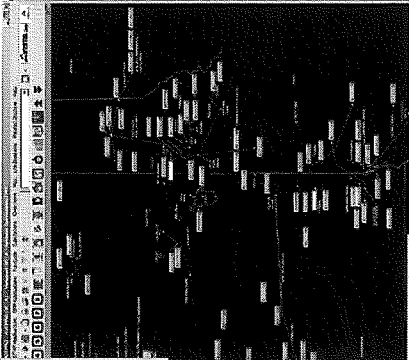
Other Party Review signature  
(if necessary)

*Maggi Stevens*  
Director/Manager

**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.

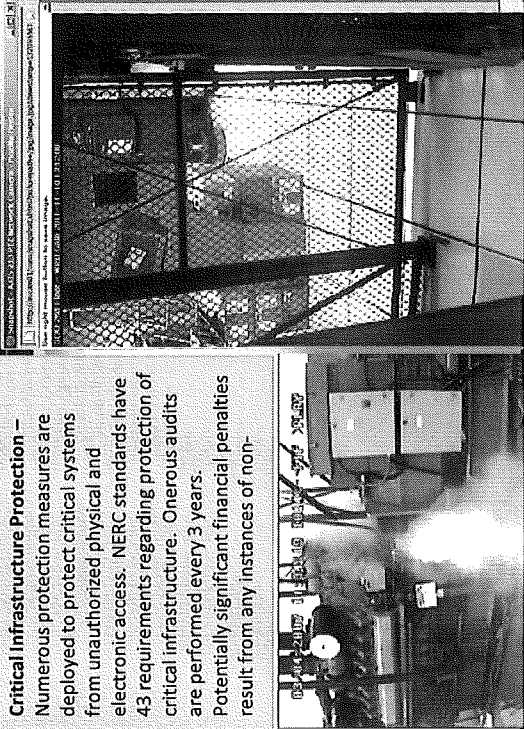
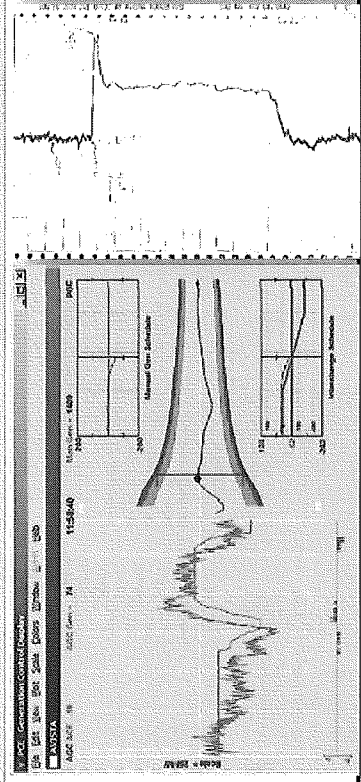
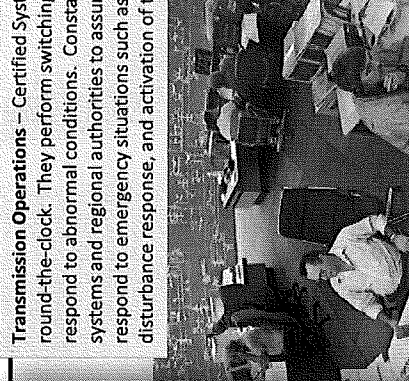
**Balancing Authority** – To maintain the balance between load, interchange, and generation, automated calculations occur every four seconds which determine our megawatt obligation based on our customer load, contracted purchase & sales, and the system frequency at that instant. Controls are automatically 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-



SCADA Variable Limits  
Top 50 Limit

Variable	Unit	Min	Max	Min	Max
1. SWRCH1	CS	410.0	410.0	410.0	410.0
2. SWRCH2	CS	410.0	410.0	410.0	410.0
3. SWRCH3	CS	410.0	410.0	410.0	410.0
4. SWRCH4	CS	410.0	410.0	410.0	410.0
5. SWRCH5	CS	410.0	410.0	410.0	410.0
6. SWRCH6	CS	410.0	410.0	410.0	410.0
7. SWRCH7	CS	410.0	410.0	410.0	410.0
8. SWRCH8	CS	410.0	410.0	410.0	410.0
9. SWRCH9	CS	410.0	410.0	410.0	410.0
10. SWRCH10	CS	410.0	410.0	410.0	410.0
11. SWRCH11	CS	410.0	410.0	410.0	410.0
12. SWRCH12	CS	410.0	410.0	410.0	410.0
13. SWRCH13	CS	410.0	410.0	410.0	410.0
14. SWRCH14	CS	410.0	410.0	410.0	410.0
15. SWRCH15	CS	410.0	410.0	410.0	410.0
16. SWRCH16	CS	410.0	410.0	410.0	410.0
17. SWRCH17	CS	410.0	410.0	410.0	410.0
18. SWRCH18	CS	410.0	410.0	410.0	410.0
19. SWRCH19	CS	410.0	410.0	410.0	410.0
20. SWRCH20	CS	410.0	410.0	410.0	410.0
21. SWRCH21	CS	410.0	410.0	410.0	410.0
22. SWRCH22	CS	410.0	410.0	410.0	410.0
23. SWRCH23	CS	410.0	410.0	410.0	410.0
24. SWRCH24	CS	410.0	410.0	410.0	410.0
25. SWRCH25	CS	410.0	410.0	410.0	410.0
26. SWRCH26	CS	410.0	410.0	410.0	410.0
27. SWRCH27	CS	410.0	410.0	410.0	410.0
28. SWRCH28	CS	410.0	410.0	410.0	410.0
29. SWRCH29	CS	410.0	410.0	410.0	410.0
30. SWRCH30	CS	410.0	410.0	410.0	410.0
31. SWRCH31	CS	410.0	410.0	410.0	410.0
32. SWRCH32	CS	410.0	410.0	410.0	410.0
33. SWRCH33	CS	410.0	410.0	410.0	410.0
34. SWRCH34	CS	410.0	410.0	410.0	410.0
35. SWRCH35	CS	410.0	410.0	410.0	410.0
36. SWRCH36	CS	410.0	410.0	410.0	410.0
37. SWRCH37	CS	410.0	410.0	410.0	410.0
38. SWRCH38	CS	410.0	410.0	410.0	410.0
39. SWRCH39	CS	410.0	410.0	410.0	410.0
40. SWRCH40	CS	410.0	410.0	410.0	410.0
41. SWRCH41	CS	410.0	410.0	410.0	410.0
42. SWRCH42	CS	410.0	410.0	410.0	410.0
43. SWRCH43	CS	410.0	410.0	410.0	410.0
44. SWRCH44	CS	410.0	410.0	410.0	410.0
45. SWRCH45	CS	410.0	410.0	410.0	410.0
46. SWRCH46	CS	410.0	410.0	410.0	410.0
47. SWRCH47	CS	410.0	410.0	410.0	410.0
48. SWRCH48	CS	410.0	410.0	410.0	410.0
49. SWRCH49	CS	410.0	410.0	410.0	410.0
50. SWRCH50	CS	410.0	410.0	410.0	410.0



Capital Program Business Case



11/01/14

3

To be completed by Capital Planning Group

Rationale for decision

Review Cycles

2012-2016

Date

Template

**AVISTA UTILITIES  
 2014-2016 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 2014-2016 (\$000s - System):** \$14,725<sup>1</sup>

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	8,325	-	-	-	-	-	-	-	-	7,800	-	-	525
2016	500	-	-	-	-	-	-	-	-	-	-	-	500

**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.

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

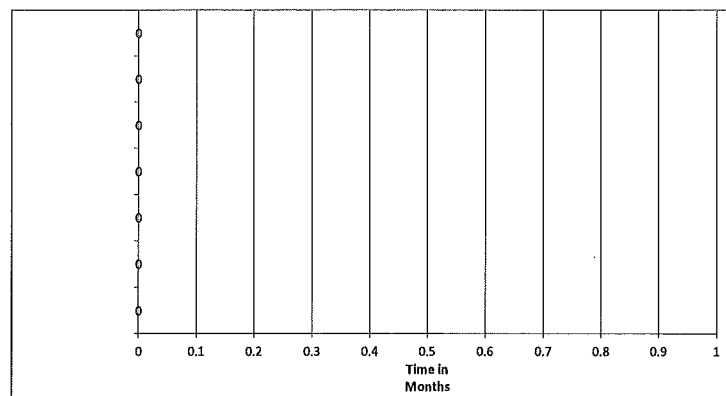


Investment Name:	<b>Noxon Switchyard Rebuild</b>	Assessments:	
Requested Amount	<b>\$24,950,000</b>	Financial:	Medium - >= 5% & <9% CIRR
Duration/Timeframe	<b>8 Year Project</b>	Strategic:	Reliability & Capacity
Dept., Area:	<b>T&amp;D - Substation &amp; Transmission Engineering</b>	Operational:	Operations require execution to perform at current levels
Owner:	<b>Heather Rosenrater</b>	Business Risk:	ERM Reduction >0 and <= 5
Sponsor:	<b>Don Kopczynski</b>	Project/Program Risk:	High certainty around cost, schedule and resources
Category:	<b>Project</b>	Assessment Score:	<b>79</b>
Mandate/Reg. Reference:	<b>n/a</b>	<b>Cost Summary - Increase/(Decrease)</b>	

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	Capital Cost	O&M Cost	Other Costs	Business Risk Score
<b>Status Quo:</b> 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
<b>Alternative 1:</b> 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	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 24,800,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 29,875,018</b>

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						
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Mandate Excerpt (if applicable):	
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**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.

**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).

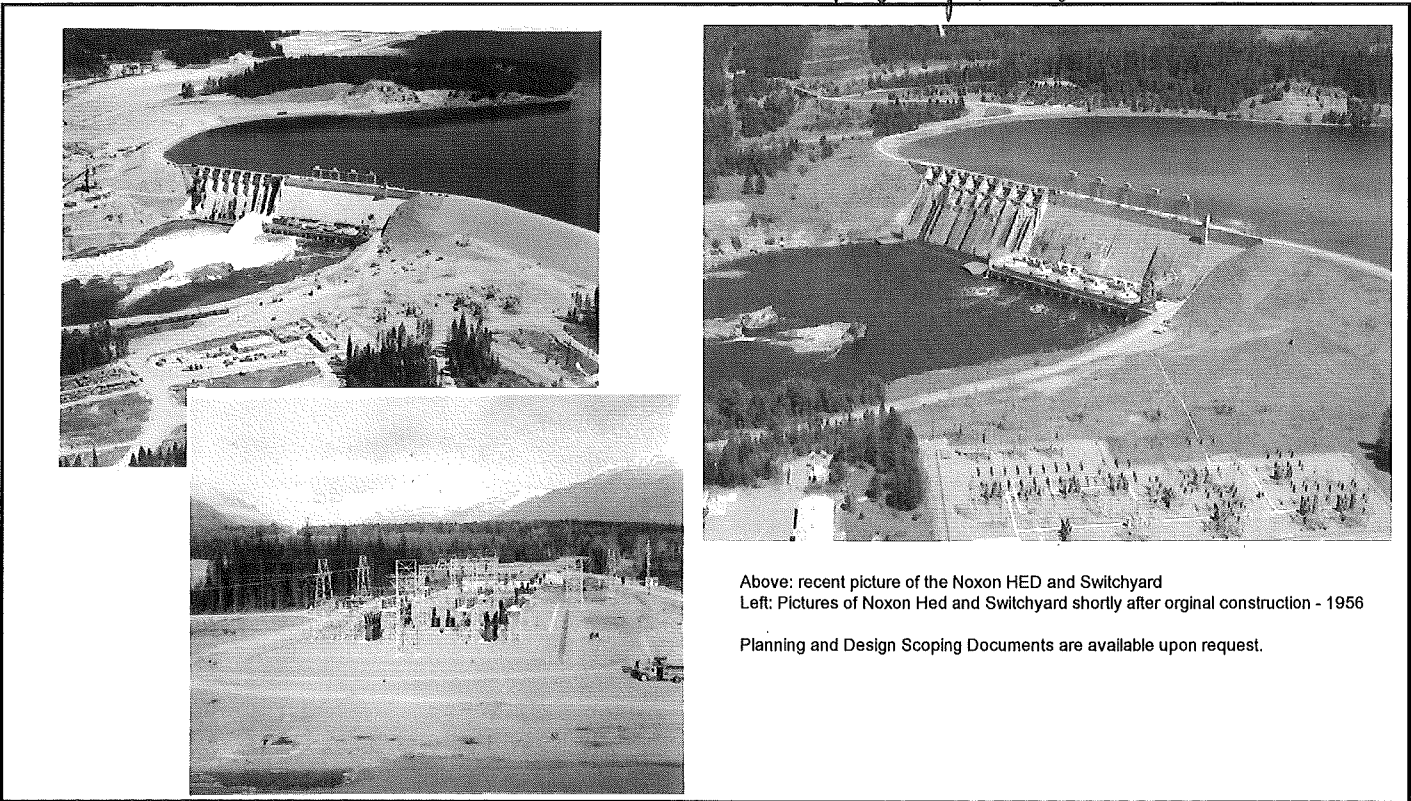
Key Performance Indicator(s)	
Expected Performance Improvements	
KPI Measure:	Complete Reactor Yard/minor station upgrades in 2015.
	Complete remainder of station as time/budget allows.

Prepared \_\_\_\_\_  
Mike Magruder/Ken Sweigart, T&D - Substations/Transmission

Reviewed \_\_\_\_\_  
Heather Rosentrater, Director - ENSO

Reviewed \_\_\_\_\_  
Andy Vickers, Director - GPSS

*Margie Steuertz*



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  
 2014-2016 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 2014-2016 (\$000s - System): \$3,000<sup>1</sup>**

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

Year	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
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

**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. The offsets occur due to converting 100 Watt street lights from High Pressure Sodium. The savings comes from eliminating the labor, equipment, material, and overhead costs associated with repairing older lights. We have included \$468,000 (\$305,090 WA) for 2015 and \$254,000 (\$165,583 WA) for 2016 of O&M Offsets in our Proforma adjustment.

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

Capital Program Business Case



<b>Investment Name:</b>	Street Light Management
<b>Requested Amount</b>	\$475,000
<b>Duration/Timeframe</b>	Indefinite 2014
<b>Dept., Area:</b>	Operations
<b>Owner:</b>	Al Fisher
<b>Sponsor:</b>	Don Koczynski
<b>Category:</b>	Program
<b>Mandate/Reg. Reference:</b>	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:

Recommend Program Description:	#NAME?	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Performance	Capital Cost	O&M Cost	
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%	\$ 475,000	\$ (250,000)	\$ (750,000)	8

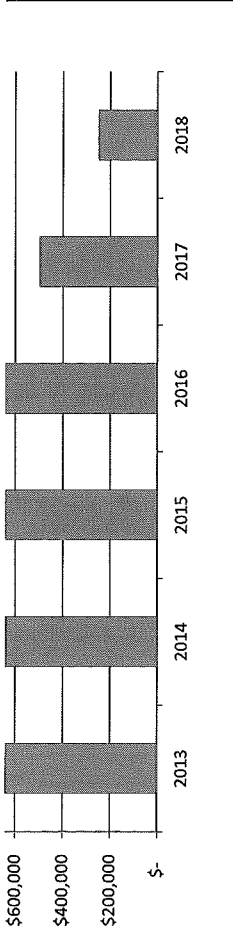
Alternatives:	Performance	Annual Cost Summary - Increase/(Decrease)			Business Risk Score
		Capital Cost	O&M Cost	Other Costs	
<b>Unfunded Program:</b> Continue maintaining the street lights as failures occur	6.29% 2 - S3 event in 10 years	\$ -	\$ 1,500,000	\$ 1,800,000	16
<b>Alternative 1:</b> Street 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
<b>Alternative 2:</b> 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
<b>Alternative 3:</b> 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	

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



Capital Program Business Case

	Date	Template