

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UE-150204

DOCKET NO. UG-150205

EXHIBIT NO. \_\_\_\_ (KKS-7)

KAREN K. SCHUH

REPRESENTING AVISTA CORPORATION



# Nine Mile Rehab Program

WUTC Review 05.07.2015

# Nine Mile HED Rehabilitation Program

<b>Investment Name:</b>	Nine Mile Rehab Program		<b>Assessments:</b>				
<b>Requested Amount</b>	\$90,913,000		<b>Financial:</b>	14.00%			
<b>Duration/Timeframe</b>	8 Year Project		<b>Strategic:</b>	Generating Plant Modernization			
<b>Dept., Area:</b>	GPSS		<b>Business Risk:</b>	Business Risk Reduction >10 and <= 15			
<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>	112			
<b>Category:</b>	Project		<b>Annual Cost Summary - Increase/(Decrease)</b>				
<b>Mandate/Reg. Reference:</b>	n/a		<b>Performance</b>	<b>Capital Cost</b>	<b>O&amp;M Cost</b>	<b>Other Costs</b>	<b>Business Risk Score</b>
<b>Recommend Project Description:</b>			increase capacity, energy, and renewable credits. (REC's)	\$ 90,913,000	\$ -	\$ -	4
This program is to rehabilitate and modernize the 4 unit Nine Mile HED. This program includes projects to replace Units 1 and 2 which are more than 100 years old and are wore out. In addition, a new warehouse will be constructed, new tail race gate system will be added, new grounding and communications will be added, a barge landing will be added, a cottage will be removed and another remodeled, a new panel room will be added, Units 3 & 4 will be overhauled and modernized, the powerhouse will be restored, a new access gates and controls will be added and other improvements will be made.							
			<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 Project:</b>	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
<i>Alternative 1: Brief name of alternative (if applicable)</i>	Describe other options that were considered		describe any incremental changes in operations	\$ -	\$ -	\$ -	4
<i>Alternative 2: Brief name of alternative (if applicable)</i>	Describe other options that were considered		describe any incremental changes in operations	\$ -	\$ -	\$ -	0
<i>Alternative 3 Name : Brief name of alternative (if applicable)</i>	Describe other options that were considered		describe any incremental changes in operations	\$ -	\$ -	\$ -	0



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<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>
This program is to rehabilitate and modernize the 4 unit Nine Mile HED. This program includes projects to replace warehouse communications, remodeled powerhouse be made.		increase	\$ 90,913,000	\$ -	\$ -	4
<b>Alternative 1</b>	<p>This program is to rehabilitate and modernize the 4 unit Nine Mile HED. This program includes projects to replace Units 1 and 2 which are more than 100 years old and are wore out. In addition, a new warehouse will be constructed, new tail race gate system will be added, new grounding and communications will be added, a barge landing will be added, a cottage will be removed and another remodeled, a new panel room will be added, Units 3 &amp; 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.</p>					<b>score</b>
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<b>Alternative 3 Name : Brief name of alternative (if applicable)</b>	Describe other options that were considered	describe any incremental changes in operations	\$ -	\$ -	\$ -	0

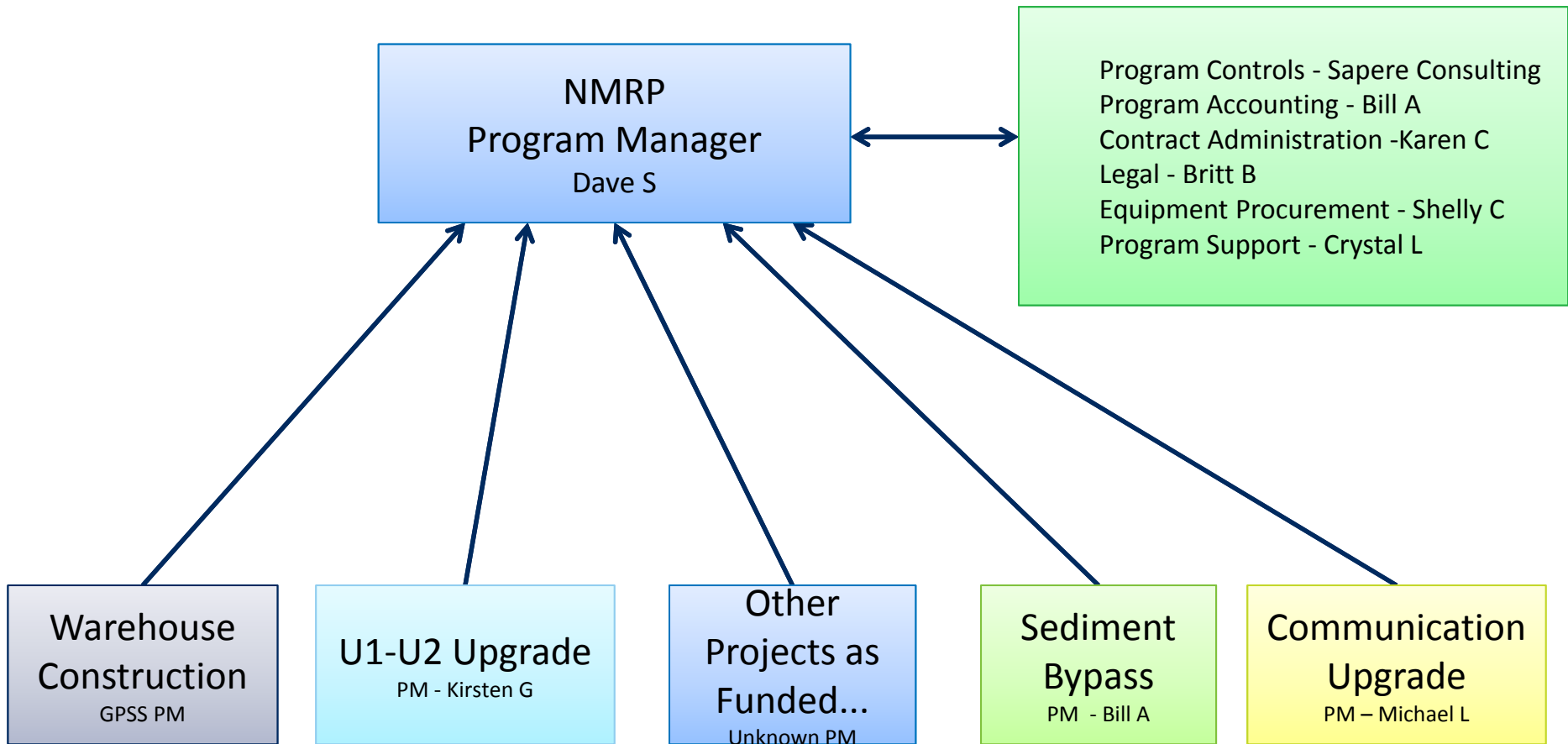


# Nine Mile HED Rehabilitation Program

Projects	Budget	2015	2016	2017	2018	2019
Warehouse	\$2.0 Million					
Barge Landing/Crane Pad	\$1.0 Million					
GSU No. 1 Transformer	\$1.9 Million					
GSU Communications Upgrade	\$155K					
Communications Upgrade	\$1.2 Million					
Warehouse Fire Alarm Panel PLC	\$100K					
Front Gate Security Access	\$150K					
Downstream Warning System	\$200K					
Video Camera System	\$100K					
PH Bridge Crane Upgrade	\$500K					
Unit 1 -2 Upgrade	\$60 Million					
Sediment Bypass System	\$2.0 Million					
Trash Handling System	\$2.0 Million					
Powerhouse Restoration	\$900K					
Unit 3 – 4 Upgrade	\$10.4 Million					



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# New Warehouse





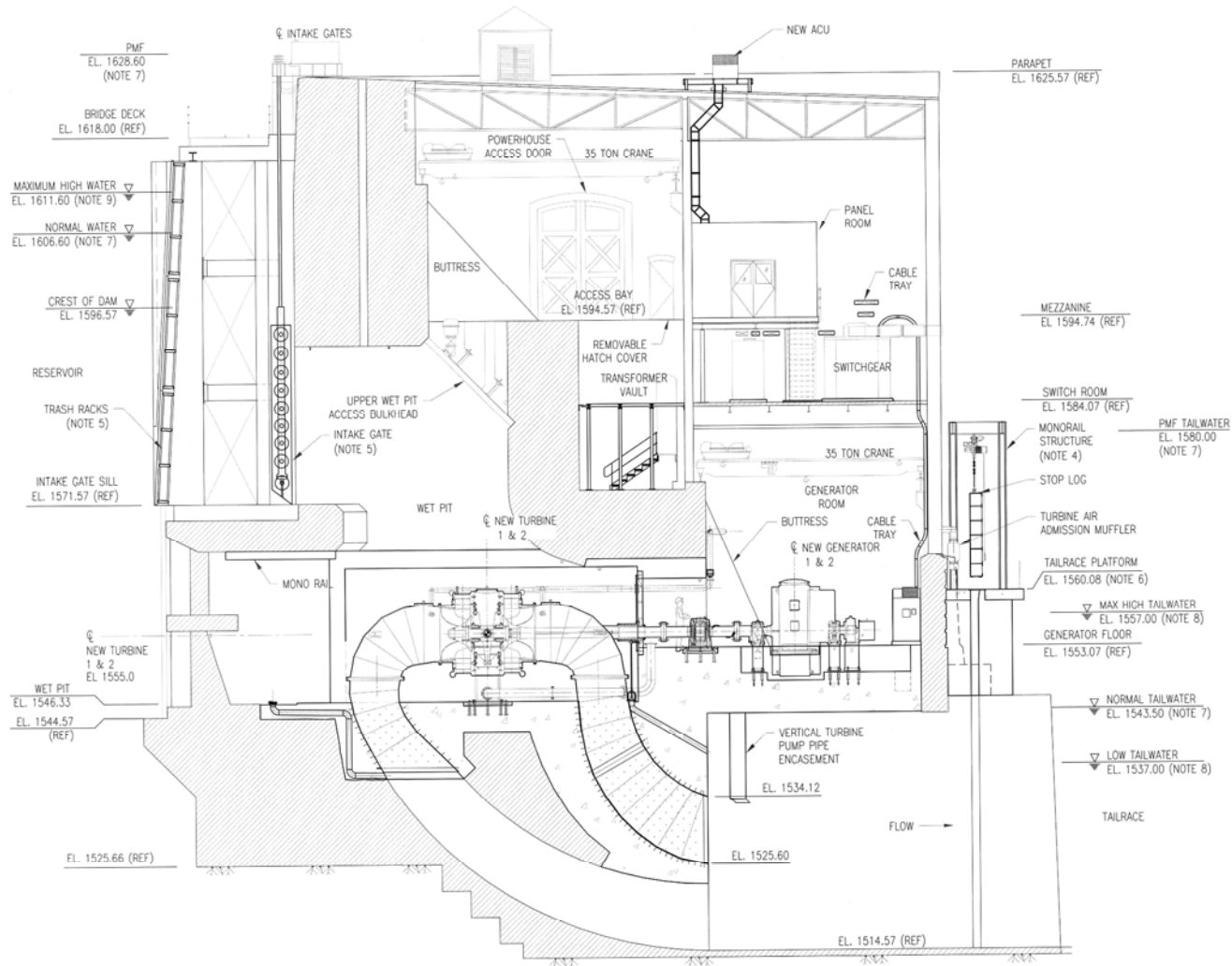
# New Warehouse



# New Warehouse



# Unit 1 and 2 Upgrade



# Unit 1 and 2 Upgrade – PH Demo



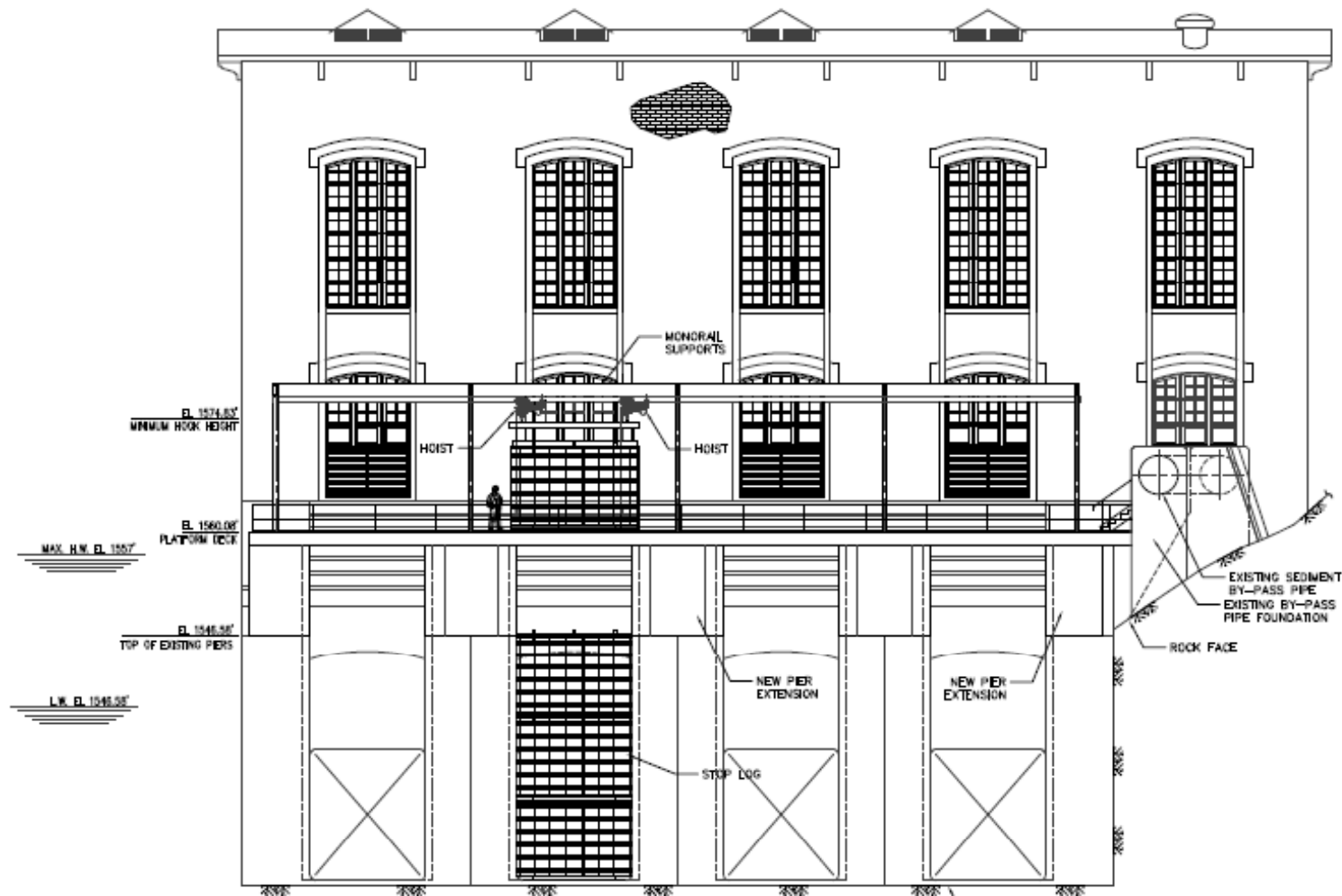
Unit 1 Generator Floor  
Prior to Dewatering

# Unit 1 and 2 Upgrade – PH Demo



Unit 1 Generator Floor  
After Dewatering

# New Tailrace Gate System



# Unit 1 and 2 Upgrade – Stoplogs In



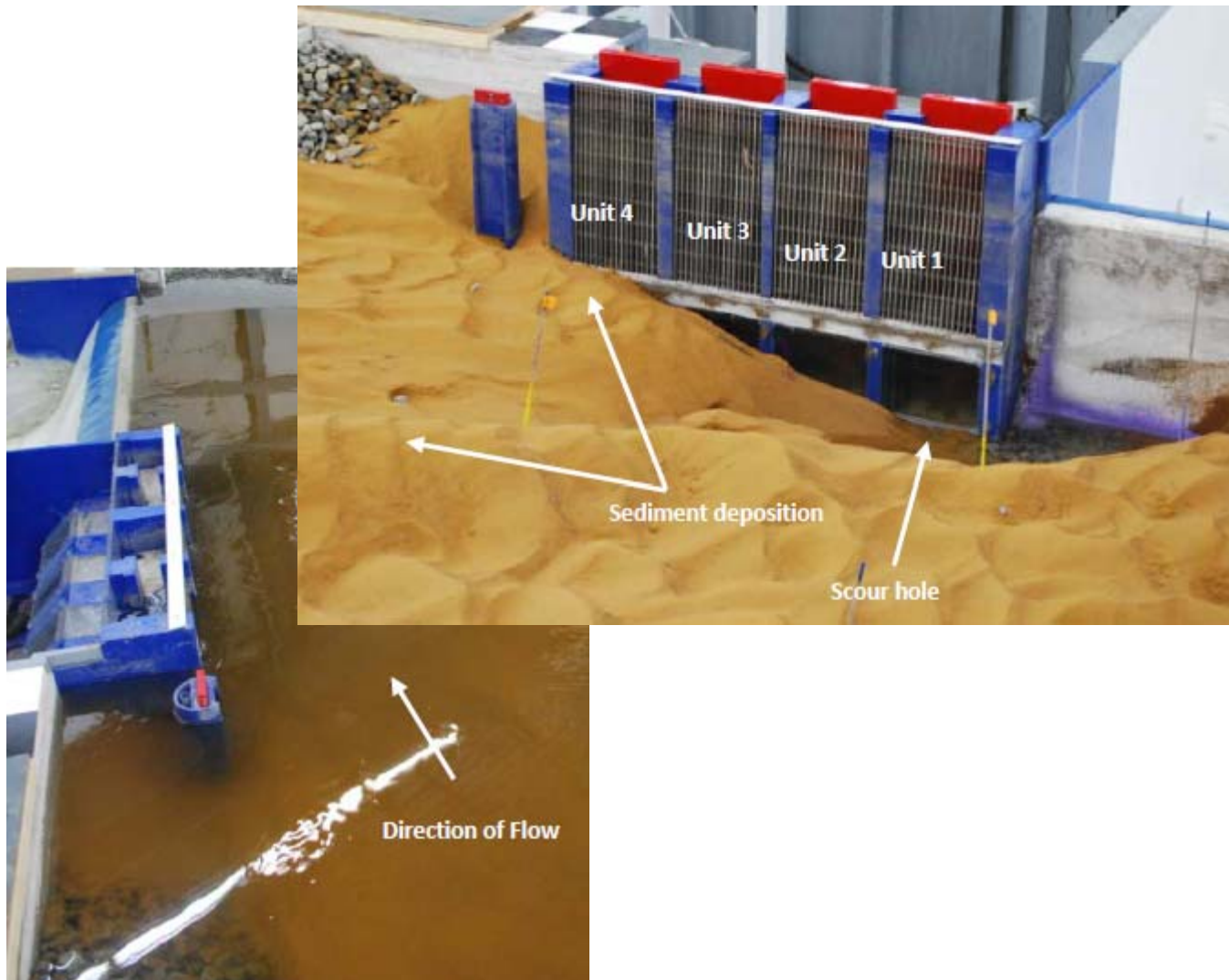
# Unit 1 and 2 Upgrade – Stoplogs In





# Sediment Bypass System

- Hydraulic Modeling Studies Completed 2013





# Nine Mile Rehab Program

## Status Update:

Project	Scope	Schedule	Budget
Warehouse	Green	Red	Green
U1-U2	Green	Yellow	Yellow
Sediment Bypass	Green	Green	Green
Communications Upgrade	Green	Yellow	Yellow



# Questions?

