



CUSTOMER UTILITIES PROJECT RISK ANALYSIS

Project Name

North Shore Chelan Sub

Project Type

Replacement

Primary Work Order #

302921

System Engineer

Jack Nieborsky

Project Manager

John Goodwill

Design Lead

Tom Kelly

Distribution Manager Approval

A handwritten signature in blue ink, appearing to be 'J. Goodwill', written over a horizontal line.

Signature

9/23/13

Date



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Risk Identification

- **Political**

Are there political risks?

Yes ☒ No ☐

If yes, define:

Some aesthetics.

Impact to property value public.

Property owners.

Minimal City or County lost revenue from property taxes.

Conditional use permit - City or County council hearing.

SEPA.

Perception of EMF.

Noise.

- **Scope Creep**

Are there scope creep risks?

Yes ☒ No ☐

If yes, define:

Transmission routing.

Fencing and landscaping.

Water rights.

irrigation.

Undergrounding possible for distribution.

Site excavation.

Permitting.



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Land availability.

Aesthetics.

Site access.

- **Schedule Creep**

Are there schedule creep risks?

Yes ☒ No ☐

If yes, define:

Resource availability.

Permitting length of time.

Customer outreach.

Some potential to wait for actual load growth.

- **Budget Creep**

Are there budget creep risks?

Yes ☒ No ☐

If yes, define:

Land purchase and easements.

Permitting.

Aesthetics.

Site civil work.

Transmission and distribution routing.

- **Resources**

Are there resource risks?

Yes ☒ No ☐

If yes, define:



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District staff.

City/County staff for permitting.

Major equipment (build to order).

- **Permitting**

Are there permitting risks?

Yes ☒ No ☐

If yes, define:

See above.

Fence early - conditional use permit timing? Open ended date on CUP.

- **Lands**

Are there lands risks?

Yes ☒ No ☐

If yes, define:

See above.

- **Environmental**

Are there environmental risks?

Yes ☒ No ☐

If yes, define:

SEPA

- **Funding**

Are there funding risks?

Yes ☒ No ☐

If yes, define:

Subject to board approval.



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- **Procurement**

Are there procurement risks?

Yes ☒ No ☐

If yes, define:

Lead times for both sub and transmission equipment.

- **Communications**

Are there communications risks?

Yes ☒ No ☐

If yes, define:

Customer outreach strategy.

- **Construction**

Are there construction risks?

Yes ☒ No ☐

If yes, define:

Public acceptance during construction.

Contracts.

Scheduling.

Weather.

Construction traffic.

Harvest.

- **Operations**

Are there operations risks?

Yes ☐ No ☒

If yes, define:

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- **QA/QC**

Are there Quality Control/Quality Assurance risks?

Yes ☒ No ☐

If yes, define:

Equipment global market .

Factory quality control inspections (i.e. choosing not too).

Overseas equipment.

Equipment not working.

- **Safety**

Are there safety risks?

Yes ☒ No ☐

If yes, define:

Construction.

Code requirements (NESC).

- **Security**

Are there security risks?

Yes ☐ No ☒

If yes, define:

- **Legal**

Are there legal risks?

Yes ☒ No ☐

If yes, define:



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Land purchase.

Permitting.

Contracts for equipment and/or construction.

- **Other**

Are there other risks?

Yes ☐ No ☒

If yes, define:



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Risk Matrix

Project Risks	Yes	No	Risk Impact				Risk Exposure			
			4	3	2	1	4	3	2	1
Political	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Scope Creep	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schedule Creep	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Budget Creep	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Permitting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lands	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Funding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procurement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Communications	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
QA/QC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Safety	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Security	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Legal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sum			12	6	14	4	4	18	4	6
Risk Score (out of)			Impact (72)		36	Exposure (72)		32	Total (144)	68

Note: Risk scaling is Catastrophic (4 points), High (3 Points), Medium (2 Points), and Low (1 Point).