

Tug Escort Rulemaking Stakeholder Workshop 11 February 2025





Zoom Reminders, Meeting Logistics

- Please use the raise hand function.
- Please use the comment function.
- Please mute while not speaking.
- Transcript of the meeting to support note-taking only.
- Please don't interrupt others. We want to hear from everyone today.
- Closed captions are available.





Meeting Objectives

- Gain a clear understanding of the EIS and preliminary costbenefit analysis and least-burdensome alternatives analysis findings to inform decision-making
- ✓ Review rule components needed to draft WAC
 - Functional and operational requirements
 - Geographic escort area
 - Mitigation measures
- \checkmark Review potential rule proposals to be recommended by the Oil Transportation Safety Committee and voted on by the Board of **Pilotage Commissioners**





Ground Rules

- **Respectful Dialogue:** Speak courteously, focus on ideas, not individuals.
- Share Your Perspective: Represent your own expertise, views, and knowledge.
- Agree to Disagree: Acknowledge different opinions respectfully.
- Focus on Solutions: Aim for constructive outcomes and actionable steps.
- Respect Time Limits and Agenda: Aim to keep comments on topic and concise. Allow space for everyone to contribute.

• One Voice at a Time: Allow everyone to finish before responding.



Introductions and Overview





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Rulemaking Overview (ESHB 1578)

Vessel Types: The BPC, in consultation with Ecology, must adopt tug escorts rules for the following vessels:

- Oil tankers, 5,000 40,000 DWT
- ATBs, and towed barges greater than 5,000 DWT designed to transport oil in bulk internal to the hull





Tanker

ATB



Tank Barge

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BPC vote: Alternatives under consideration



BPC Vote: Elements of the environment

Element

- *Air Quality and GHG Emissions
- Water Quality
- *Plants and Animals (incl. SRKW, marine mammals)
- **Energy and Natural Resources**
- *Environmental Health: Releases (oil spills)
- *Environmental Health: Noise (incl. underwater noise, ambient/operationa
- Aesthetics, Light, and Glare
- ***Tribal Natural and Cultural Resources**
- *Transportation: Vessel Traffic
- Recreation

Note: BPC support for focus on environmental justice – to be integrated throughout and included as its own chapter * = Priority Element as identified by the BPC

	Include in EIS
	Yes
al noise)	Yes
	Yes
	Yes
	Yes
	Yes

BPC vote: Functional and operational requirements (FORs)

Functional requirements

Tug escorts must have a minimum of:

- 3,000 horsepower
- Twin-screw propulsion

Operational requirement

A pre-escort conference shall be held before commencing an escort.



Environmental Findings (15 min)





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Determination of Significance (WAC 197-11-794)

- Reasonable likelihood of more than a moderate adverse impact on environmental quality.
- Involves context and intensity (magnitude and duration of impact).
- Not a formula or quantifiable test.
- May vary with the physical setting.
- The severity of an impact should be weighed along with the likelihood of its occurrence. An impact may be significant if its chance of occurrence is not great, but the resulting environmental impact would be severe if it occurred.

EIS: Preliminary Significance Determinations



Element of the Environment	Alternative A (No Action)	Alternative B (Addition of FORs)	Alternative C (Expansion)	Alternative D (Removal)
Vessel Traffic	No	No	No	No
Oil Pollution	No	No	No	Yes
Tribal Resources	Yes 🎍	Yes 🛓	Yes 🎍	Yes
Plants and Animals	Yes 📢 »	Yes v	Yes 📢 🥠	Yes
Underwater Noise	Yes 📢 🥠	Yes v	Yes 📢 🥠	No
Air Quality	No	No	No	No
Environmental Justice	Yes	Yes	Yes	Yes

ssel Traffic	
nderwater Noise	
l Pollution	

EIS: Preliminary Significance Determinations Cont'd



Element of the Environment	Alternative A (No Action)	Alternative B (Addition of FORs)	Alternative C (Expansion)	Alternative D (Removal)
Water Quality	No	No	No	Yes
Recreation	No	No	No	Yes
Visual Resources	No	No	No	No
Energy and Natural Resources	No	No	No	No

essel Traffic
Inderwater Noise

Significance Findings

Tribal Resources (Alternatives A, B, C) 1. Environmental Justice

- 2. Underwater Noise (Alternatives A, B, C)
 - 1. Plants and Animals

3. Oil Pollution (Alternative D)

- 1. Tribal Resources
- 2. Plants and Animals
- 3. Environmental Justice
- 4. Water Quality
- 5. Recreation

C)

Tribal Resources Significance Finding (Alternatives A-C)

- Vessel traffic impacts to Tribal fishing
 - Relevant Threshold: Impacts to treaty fishing
- Tribes have stated that current levels of vessel traffic negatively impact treaty fishing.
- Incidents with tugs described specifically to Ecology





"The designated shipping lanes and anchorages in that same area take up 27% of the same waters of the Salish Sea."

"The current amount of vessel traffic interferes with Swinomish treaty fishing in important fishing areas."

Loomis, L. (2021). Vessel Traffic Impacts Swinomish Treaty Fishing. Shared with the Puget Sound Harbor Safety Committee.

Tribal Resources & Environmental Justice (Alternatives A-C)

- EJ Analysis includes:
 - Populations of color
 - Low-income populations
 - Tribes
- Impacts to Tribes are also EJ impacts



Underwater Noise Significance Findings (Alternatives A-C)

- Relevant Threshold: Increase in exceedance of 120 dB NMFS threshold (10% increase in time or area)
- Alternative A (No Action):
 - Average noise levels at most receiver locations higher than Alt. D
 - All 7 receiver locations reach the 120 dB threshold
 - Increase of > 10% in time over 120 dB from Alt. D at: Rosario, Anacortes, and Lummi locations



Underwater Noise Modeled Receiver Locations

- 1. Strait of Georgia
- 2. Boundary
- 3. Lummi
- 4. Anacortes
- 5. Rosario
- 6. Haro
- 7. Puget



Underwater Noise Significance Findings (Alternatives A-C), Cont'd

- Alternative B (Addition of FORs):
 - Same as Alternative A, possible minor increases in noise due to FORs
- Alternative C (Expansion):
 - Time over 120 dB remains the same as Alternative A
 - Minor increase in the area over 120 dB
 - Average noise levels: Minimal increase during winter at Boundary and Lummi locations. Minimal decrease in summer at Lummi and Anacortes locations.
- Alternative D (Removal) Note: Harmful levels of underwater noise still exist for all modeled locations.



Underwater Noise Finding Affects (Alternative A-C):

Element of the Environment	Relevant Significance Thresholds
Plants and Animals	 More than a moderate increase in adv. special-status species degradation of sensitive ecological Impacts expected to affect the viab Marine mammals: increase of at least NMFS behavioral disturbance thresho



/erse impacts to:

areas ility of a population or ecosystem 10% in noise levels above the ld.

Oil Pollution Significance Finding (Alternative D)

- Relevant Threshold: Reasonable likelihood of increase in frequency, severity, and/or extent of spills from target vessels Probability of a target vessel drift grounding in the EIS Study Area increases by 11.84% compared to Alternative A. 167-year event (Alt. D) vs. 186-year event (Alt. A) • Within the rulemaking area, the increase is 90.5% (0.00042/year in Alternative A vs. 0.00081/year in Alternative D)

Oil Pollution Affects (Alternative D) :

Element	Relevant Significance Threshold
Tribal Resources	 Adverse impacts to Wildlife or habitats of cultural significance Tribes' water-dependent activities (water quite of the second se
Environmental Justice	Disproportionate adverse impact to population and/or Tribes
Plants and Animals	 More than a moderate increase in adverse important of special-status species degradation of sensitive ecological areas Impacts expected to affect the viability of a
Water Quality	Meaningful increase in frequency of acute wat from spills
Recreation	Long-term or permanent changes to recreation

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ns of color, low-income populations,

pacts to

population or ecosystem ter quality standard exceedances

nal access or quality

EIS: Significance Findings

Alternative	Proposed Sign
Alternative A (No Action)	Underwater Noise
Alternative B (Addition of FORs)	 Underwater Noise
Alternative C (Expansion)	Underwater Noise
Alternative D (Removal)	 Oil Pollution Water Quality Procreation
	Recreation



Mitigation Measures Included in the EIS

- In Rulemaking Language
- Required by Other Regulations
- Voluntary

Mitigation Measures Included in the EIS

In Rulemaking Language

Elements of the Environment	Mitigation Measures
AII	 Selection of geographic alternative Inclusion of FORs
Tribal Resources	• Operators must consider opportu- interested Tribes to avoid/reduce
Underwater Noise, Plants and Animals	 Operators must consider opportu- voluntary noise reduction efforts

ve

unities to coordinate with e impacts

unities to participate in

Mitigation Measures Included in the EIS

Already Required by Other Regulations

Elements of the Environment	Mitigation Measures
All	 Existing vessel traffic safety requirement Existing oil pollution regulations
Underwater Noise, Plants and Animals	 Existing federal and state regulations p marine mammals (e.g. reducing speed,
Water Quality	 Existing water quality and vessel dischard
Tribal Resources	 Northwest Area Contingency Plan policity response and cultural resource protect

nts

rotecting SRKW and other maintaining distance)

arge regulations

ies and procedures for oil spill ion.

Mitigation Measures Included in the EIS Voluntary

Elements of the Environment	Mitigation Measures
AII	 Continued participation in PSHSC Standard Extension of applicable PSHSC Standards of escorts
Underwater Noise, Plants and Animals	 Voluntary noise reduction efforts in the EIS Adoption of Be Whale Wise guidance Transition to quieter, hybrid, and/or electric make this feasible.
Plants and Animals	Voluntary environmental certification program
Tribal Resources	 Encourage operators to develop agreement communication and reduce impacts to treat Encourage operators to limit waiting time a

ds of Care and industry best practices of Care to 5,000 – 40,000 DWT

Study Area

propulsion when technology and cost

ams

ts with interested Tribes to improve aty fishing. t rendezvous locations

Proposed Mitigation Rule Language

Operators must consider:

- 1) Opportunities to coordinate with interested Tribes to avoid or reduce impacts of tugs to treaty fishing and
- 2) Opportunities to participate in voluntary underwater noise reduction measures and best practices where safe and feasible to do so.



Economic Findings (10 min)







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Administrative Procedures Act Chapter 34.05.328 RCW

1. Cost-Benefit Analysis (CBA)

- The benefits of the proposed rule must outweigh the costs
- Qualitative and quantitative measures are equally considered

2. Least-Burdensome Alternatives Analysis (LBA)

- The chosen alternative must meet the goals and objectives of the authorizing statute
- Among the options considered, the least burdensome alternative for those that must comply with it must be chosen

tweigh the costs equally considered

sis (LBA) als and objectives of the

Engrossed Substitute House Bill 1578 (2019)

"...it is the intent of the legislature to enact certain new safety requirements designed to reduce the current, acute risk from existing infrastructure and activities of an oil spill that could eradicate our [Southern Resident] Killer] whales, violate the treaty interests and fishing rights of potentially affected federally recognized Indian Tribes, damage commercial fishing prospects, undercut many aspects of the economy that depend on the Salish Sea, and otherwise harm the health and well-being of Washington residents..."



Framework for Spill Prevention

Chapter 90.56 RCW

Oil and Hazardous Substance Spill Prevention and Response

"...the legislature finds that the primary objective of the state is to achieve a zero spills strategy to prevent any oil or hazardous substances from entering waters of the state."



Quantitative Oil Spill Costs





Clean up costs

Damage Costs



SRKW Premium





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Cleanup Costs

• Factors influencing cleanup costs: Oil type, spill location, timing, sensitive areas affected, liability limits, laws, and cleanup strategy.

 Modern costs: A 2019 California study estimated cleanup costs in various scenarios. We took from that \$29,539 per barrel (~\$36,403 per barrel in 2024). The authors note this reflects recent higher public expectations for cleanup standards.



Damage Costs

- Natural resource and community impact costs: Lost tourism, fishing revenues (including Tribal), recreation, and commerce.
- San Juan Islands spill damage estimates: 2019 Earth Economics study estimated \$84.3M-\$243.2M in damages for a 24,000barrel heavy fuel oil spill across five impact categories, including property values, tourism, and ecosystem services.
- Damage costs per barrel: High-end damage estimate of \$243.2M translates to \$12,578 per barrel in 2024 dollars.



Total Costs per Barrel





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The Southern Resident Killer Whales were declared endangered nearly 20 years ago.



SRKW Premium

- Contingent valuation survey in 2010.
- Valuation was for conservation efforts that would in 50 years move the SRKW from "endangered" to "recovered".
- Households were willing to pay (WTP) roughly \$1,000 over 10 years.
- This survey was mailed 8 years prior to global headlines.
- Adjusting this WTP from 2014 to 2024 dollars and multiplying the value by Washington State's 3 million households we obtain \$3.5 billion.

Public preferences for endangered species recovery: an examination of geospatial scale and nonmarket values -Kristy Wallmo and Daniel K. Lew (Frontiers in Marine Science, 2015) 39



Worst-case* spill method

- Assumes a drift grounding will occur and that it will result in a worst-case spill (a spill of the entire cargo and fuel of the vessel).
- The largest target vessel has a cargo capacity of 259,000 barrels.
- Possible damage costs to vessels from drift grounding is \$10 million (D)

Calculation:

(\$10 million + (259,000 barrels X \$50,000/barrel)) + \$3.5 billion =

\$16.46 billion

*Defined in statute, RCW 90.56.010

Low Probability, High Impact

CBA Methods

- The methods estimate expected avoided spill costs by considering the probability of a drift groundings.
- A drift grounding is one specific type of incident escort tugs are well suited to addressing.
- While drift groundings are rare, they have the potential to result in catastrophic consequences.

Alternative	Reoccurrence interval for a drift grounding*	% chance of drift grounding in 20 years
A and B	186 years	10.8% chance over 20 years
С	189 years	10.6% chance over 20 years
D	167 years	12% chance over 20 years

*Chance of a spill from a grounding estimated at 0.73%

Method factoring in probability of a drift grounding (Example calculation)

- Assumes a drift grounding will result in a worst-case spill.
- The largest target vessel has a cargo capacity of 259,000 barrels.
- Includes the difference in the odds of a drift grounding occurring using the Spill Risk Model (O). Possible damage costs to vessels from drift grounding is \$10 million (D.)

<u>Calculation of expected avoided oil spill cost benefit from Alternative C</u>

O X ((D + (259,000 X C)) + SRKW) = Benefit $(1/186 - 1/189) \times ((\$10 M + (259,000 barrels \times \$50,000 barrel)) + \$3.5 billion) =$ \$1.4 million /yr

*Factoring in probability of a drift grounding AND probability of a spill from a grounding (0.73%) would result in benefit of \$11,101 /yr.

Some quantitative cost estimates

- Pre-escort conference: Total cost per year based on time spent per escort, number of escorts per year, and hourly wage: \$15,581 /yr
- Additional costs of serving expansion area: Includes extra tug operation time and conference costs. \$850,000 /yr
- Expense of added (since 2020) tug escorts: Total cost per year based on number of escorts per year and average price of an escort based on sheets from providers operating in the area: \$20 million /yr

Qualitative Oil Spill Costs



Unquantifiable impacts: devastating, immeasurable harm to ecosystems, cultural heritage, and community well-being, threatening critical habitats and biodiversity.



Tribal resources: Tribal nations would face severe cultural and spiritual losses, disruption of treaty fishing and harvest rights, and exacerbated social and economic inequities due to their place-based rights.



Widespread community impacts: Loss of natural and cultural resources would harm livelihoods, mental health, and public health, with long-term consequences for both Tribal and non-Tribal communities.

CBA Summary Alternative B – Addition of FORs

Benefits

- No quantified change from Alterative A, Drift Grounding is 186-year event.
- FORs are considered to enhance safety and ensure adequate power and maneuverability to prevent drift grounding

- Pre-escort conference = \$15,851/yr
- EIS adverse significant impacts:
 - Plants and animals from underwater noise
 Tribal resources from
 - Tribal resource vessel traffic

Costs

CBA Summary Alternative C – Expansion

Benefits

- DG risk goes from a 186-year event to a 189-year event.
- FORs
- Avoided spill costs up to \$1.4 million/yr IF DG→ WCS. Total cost of WCS is \$16.46 B.
- Local geography and ecosystem
- Efficiency and suitability of geographic area

- - noise

Drift grounding (DG) Worst-case spill (WCS)

Costs

 Pre-escort conference + extra operation time = \$850k/yr

• EIS adverse significant impacts: Plants and animals from underwater

Tribal resources from vessel traffic

CBA Summary Alternative D – Removal

Benefits

- Amount saved on tug escorts
 ~ \$20 million/yr
- Less vessel traffic
- Reduction in underwater noise
- Reduction in impacts to Tribal resources

- DG goes from a 186-year event to a 167-year event. 10.8% to 12% chance of a DG / 20 yrs
- IF DG → WCS \$10.1 million/yr, using WCS cost of \$16.46 billion.
- EIS adverse significant impacts:
 - Increased Oil pollution risk affects:
 - Tribal resources
 - Plants and animals
 - Water quality
 - Recreation

Drift grounding (DG) Worst-case spill (WCS)

Costs

Least-Burdensome Alternatives Analysis

The rule requirements must:

- 1. Achieve the goals and objectives of the authorizing statute; and
- 2. Be the least burdensome to those required to comply with them

1. Identify whether it achieves statutory goals and objectives

2. Choose which alternative is the least burdensome

Goals and Objectives of Chapter 88.16

- Be designed to achieve Best Achievable Protection (BAP), which considers:
 - "(a) The additional protection provided by the measures;(b) The technological achievability of the measures; and(c) The cost of the measures."
- Reduce spill risk
- Specify functional and operational requirements
- Consider geographic area for tug escort requirements
- Avoid or minimize additional vessel noise
- Reduce Tribal impacts

LBA Summary

Alternative	Estimated Cost to Comply (per year)	Drift Grounding Risk Over 20 years	Other Statutory Considerations	Does it achieve BAP?
A – No Action	\$20M	186-year event (10.8% chance)	Vessel noise and Tribal impacts	No
B – Addition of FORs	\$20M+ \$15k (FORs)	186-year event (10.8% chance)	Vessel noise and Tribal impacts	TBD
C- Expansion	\$20M+ \$15k+\$850k	189-year event (10.6% chance)	Vessel noise and Tribal impacts	TBD
D - Removal	\$O	167-year event (12% chance)	Significant oil spill risk impact	No



Discussion and Questions (10 min)





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Draft Rule Language (30 min)





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EIS Significance Finding Summary

Alternative		Proposed Sigr
Alternative A (No Action)	•	Underwater Noise
Alternative B (Addition of FORs)	•	Underwater Noise
Alternative C (Expansion)	•	Underwater Noise
Alternative D (Removal)	•	Oil Pollution
	•	Water Quality
	•	Recreation



Cost Benefit Summary

	Cost (qualitative & quantitative)	Ben
B	 \$15,851 per year (FOR) Underwater noise, tribal, and plants and animal impact 	 FORs ens sufficient Drift Gro 10.8% cl
С	 \$850,000 per year (FOR and expansion) Underwater noise, tribal, and plants and animal impact 	 Save up to of worst prevented Drift Group a drift group of the second secon
D	 Up to \$10.1 M in spill costs per year. Total cost of worst possible spill is \$16.46 B if spill occurred due to removal of escorts. Drift Grounding 167-year event. 12% chance of a drift grounding / 20 yrs Oil Pollution, water quality, and recreation impact 	 Save \$20 escorts) Reduced

efit (qualitative & quantitative)

- sure escorts communicate and have maneuverability and power unding is **186-year event** nance of a drift grounding /20yrs
- to **\$1.4 M** in spill costs per year. Total cost possible spill is **\$16.46 B** if spill
- d by expanded escorts.
- unding **189-year event. 10.6%** chance of ounding/ 20yrs
- n provides high escort efficiency, refines a based on model and OTSC input.
- **M** in escort costs (removal of Alt A
- noise and vessel traffic.

Least Burdensome Alternative Summary

	Α	B	С	D
Cost to comply	 Status quo costs \$20 million \$0 additional costs to comply 	 Status quo costs \$20 million \$15,851 additional cost per year to comply (FOR) 	 Status quo costs \$20 million \$850,000 additional cost per year to comply (FOR and expansion) 	• \$0 to comply
Goal: Spill risk reduction	 Drift Grounding is 186-year event 10.8% chance of a drift grounding /20yrs 	 Drift Grounding is 186-year event 10.8% chance of a drift grounding /20yrs 	 Drift Grounding is 189-year event 10.6% chance of a drift grounding /20yrs 	 No spill reduction achieved, Drift Grounding is 167-year event 12% chance of a drift grounding /20yrs
Goal: Consider Tribal Impacts and Noise	 Vessel noise, Tribal impacts found significant in the EIS 	 Vessel noise, Tribal impacts found significant in the EIS 	 Vessel noise, Tribal impacts found significant in the EIS 	 Oil spill risk to Tribal Resources found significant in the EIS
Goal: BAP	• No - no FORs	TBD	TBD	 No – no spill reduction achieved

Rule components needed to draft WAC text

Functional and operational requirements

Geographic escort area

Q Mitigation measures

Potential rule language with placeholders for rule components

WAC 363 – 116 – 600: Tug escort requirements for tank vessels up to 40,000 DWT.

- (1) Escort requirements in WAC 363 116 600 do not apply to: a)vessels providing bunkering or refueling services, as defined by the Board; b)towed general cargo deck barges; or c)vessels in ballast or unladen, as defined by the Board.
- (2) The following vessel types shall not operate in [geographic area] unless they are under the escort of a tug with [functional requirements]:
 - a)Oil tankers of between five thousand and forty thousand deadweight tons; b)Articulated tug barges that are designed to transport oil in bulk internal to the hull and greater than five thousand deadweight tons; and c)Towed waterborne vessels or barges that are designed to transport oil in bulk internal to the hull and greater than five thousand deadweight tons.
- (3) [Placeholder for additional functional requirements]
- [Placeholder for operational pre-escort requirement] (4)
- (5) [Placeholder for mitigation]

Functional and Operational Requirement Rationale

Requirement	Rationale
Pre-escort conference	Ensures both vessels have a selements of the escort operation
Twin-screw propulsion	Provide a higher level of confid able to successfully maneuver grounding and subsequent sp
2,000 horsepower tug for 5,000 – 18,000 DWT vessels	Current industry practice for e 18,000, least burdensome alt
3,000 horsepower tug for 18,000 - 40,000 DWT vessels	Provides a higher level of conf sufficient power to successful grounding and subsequent sp

hared understanding of key ion

dence that the escort tug will be r to intervene to prevent a drift oill.

scorting of vessel less than ernative for these DWT vessels.

Fidence that the escort tug will have ly intervene to prevent a drift fill.

Geographic escort area rationale

Area	Rationale
None (Removal)	This was considered to have a balternatives against with the awaincrease in oil spill risk but could related impacts.
Rosario Strait and connected waterways to the east (current escort area)	This is the no action alternative considered.
Expansion area	This area is adjacent to the Rosa The Ecology model showed this efficiency, and the OTSC agreed zone make it a good candidate f

baseline to compare other areness that it could result in an d reduce tug escort traffic and

which was required to be

ario and waters east escort area. area to have a high escort that the characteristics of this for an escort requirement.



Rosario Strait and connected waterways to the east

Or

Rosario Strait and connected waterways to the east and expansion area



B

$\ensuremath{\underline{Q}}$ Mitigation Measures Included in the EIS

In Rulemaking Language

Elements of the Environment	Mitigation Measures
AII	 Selection of geographic alternative Inclusion of FORs
Tribal Resources	 Operators must consider opportu- interested Tribes to avoid/reduce
Underwater Noise, Plants and Animals	 Operators must consider opportu- voluntary noise reduction efforts

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Mitigation Measures – Rule Language

Operators must consider:

- 1) Opportunities to coordinate with interested Tribes to avoid or reduce impacts of tugs to treaty fishing.
- 2) Opportunities to participate in voluntary underwater noise reduction measures where safe and feasible to do S0.

Mitigation Measures - Voluntary

Elements of the Environment	Mitigation Measures		
AII	 Continued participation in PSHSC Standard Extension of applicable PSHSC Standards of escorts 		
Underwater Noise, Plants and Animals	 Voluntary noise reduction efforts in the EIS Adoption of Be Whale Wise guidance Transition to quieter, hybrid, and/or electric make this feasible. 		
Plants and Animals	Voluntary environmental certification progra		
Tribal Resources	 Encourage operators to develop agreement communication and reduce impacts to treat Encourage operators to limit waiting time a 		



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Study Area

propulsion when technology and cost

ams

ts with interested Tribes to improve ity fishing. t rendezvous locations



Q&A Time







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Narrowing to preferred Alternative

Suggest not continuing consideration of the following Alternatives:

- A: Does not pass the Least Burdensome Alternative criteria of achieving the Best Achievable Protection since it does not include the functional and operational requirements.
- D: Does not pass the Least Burdensome Alternative criteria of meeting the spill risk reduction intent of this rulemaking and does not achieve best protection.

Proposal #1 : Alternative B + mitigation measures

- All functional and operational requirements
- Escorts in Rosario Strait and connected waterways to the east



Proposal #2 : Alternative C + mitigation measures

- All functional and operational requirements
- Escorts in Rosario Strait and connected waterways to the east
- Escorts in expansion area





Next Step: OTSC to develop a rule recommendation for the Board



OTSC and BPC Meeting Timeline

Date (2025)	What	Objective
February 13	OTSC Meeting	Workshop 11: Recommend proposed r
February 20	BPC Meeting	Update on rule developme
March 6	OTSC Meeting	Recommend proposed r
March 20	BPC Meeting	Vote on proposed rule
June	BPC Meeting	BPC briefing before CR-1 filing



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Final Questions or Discussion?

BPC Point of Contact: Jaimie Bever, Executive Director BeverJ@wsdot.wa.gov or (206) 305-2296

Ecology Point of Contact: Sara Thompson Sara.Thompson@ecy.wa.gov or (360) 280-5128



