BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION, Complainant,

Docket TP-220513

v.

PUGET SOUND PILOTS,

Respondent.

REBUTTAL TESTIMONY OF PHILIP ESSEX ON BEHALF OF PUGET SOUND PILOTS

MARCH 3, 2023

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1		I. <u>IDENTIFICATION OF WITNESS</u>
2	Q:	What is your name and current occupation?
3	A:	My name is Philip Essex, and I am the president of Moorsom Consulting Group, LLC.
4		
5		II. PURPOSE OF TESTIMONY
6	Q:	Have you reviewed the testimony submitted by Phillip Morrell in this rate case?
7 8	A:	Yes, I have.
9		
10	Q:	In Mr. Morrell's testimony, he compares the TEU carrying capacity of TOTE's
11	ORG	CA class ships with that of a container ship of similar GT ITC. Is this an appropriate
12	or re	elevant comparison?
13	A:	In my opinion, Mr. Morrell's comparison is irrelevant to an analysis of the vessels'
14		ective volumetric size and therefore to calculating the appropriate tonnage charge for
15		age. The relative risk of piloting larger vessels is an appropriate basis on which to
16	•	
17		rentiate pilotage charges according to a vessel's volumetric size (tonnage). As I explained
18 19	in m	y prior testimony, GT ITC is the most accurate measure of a vessel's volumetric size. This
20	is tru	ne regardless of a particular vessel's TEU or cargo carrying capacity. In other words, the
21	fact	that a particular vessel design may allow for greater TEU capacity has no bearing on the
22	ship	's volumetric size, which is the relevant proxy for assessing relative risk for the purpose of
23	settii	ng pilotage rates.
24		In one sense, the results of Mr. Morrell's apples-to-oranges comparison of the cargo
25	carry	ving capacity of a container ship to TOTE's roll-on/roll-off ("RO/RO") ORCA class ships
26	is no	t surprising. One would expect that a container ship constructed specifically for the

	purpose of carrying TEU containers would have greater capacity than a similarly sized RO/RO
1 2	ship. However, the fact that these two ships have roughly equivalent GT ITC means by
3	definition that they are approximately the same size. Put differently, because pilots pilot the
4	whole ship (not just the cargo space) the most appropriate measure of pilotage is GT ITC
5	which, unlike GRT, does not exempt non-cargo spaces or spaces that are otherwise exempt, for
6	example, based on the inclusion of tonnage openings such as those that are located at the stern
7	of the ORCA class ships' main and second decks.
8	
9	Q: In his testimony, Mr. Morrell characterizes certain "exempted space" aboard the
1011	ORCA class ships as non-cargo carrying. Do you agree with this characterization?
12	A: No, I do not. I have reviewed the ABS regulatory tonnage calculation for the ORCA
13	class ships prepared by D.W. Goebel in September of 2001. Mr. Goebel correctly exempts as
14	"open space" 17,953 tons on the ORCA class vessel's main deck and an additional 15,050 tons
15	on the second deck. The aggregate total of these spaces – over 33,000 tons – translates into
16	over 3.3 million cubic feet of space that is exempt from GRT and represents the large majority
17	of the difference between the ORCA class vessels' GRT and GT ITC. Looking at the inboard
18 19	profile of the vessels for a graphic depiction, it is clear that these two decks comprise
20	approximately half of the vessel's hull.
21	It is inaccurate, however, for Mr. Morrell to suggest or imply that this space is not used
22	for cargo carrying. To the contrary, these two decks represent a substantial portion of the
23	ship's cargo carrying capacity. In fact, more than 93% of the main deck volume and more than
24	95% of the second deck volume that are exempt from the ORCA class ships GRT, but not
2526	GT ITC, are used for cargo carriage. These spaces are exempt from GRT based purely on

	TOT	E's use of tonnage openings, which as I described in my initial testimony are commonly		
1	used by ship designers to reduce a ship's GRT based on a variety of regulatory advantages to			
2	lower	lowering a ship's tonnage. A copy of the relevant excerpt from the ORCA class ships' ABS		
4	tonna	age calculation with my notation added is attached to my testimony as Exh. PE-09.		
5				
6	Q:	Does Mr. Morrell's testimony in any way affect your opinion that GT ITC is a		
7	more	appropriate metric for setting pilotage rates than GRT?		
8	A:	Mr. Morrell's testimony has no effect whatsoever on my conclusions. Again, my		
9	under	rstanding is that a ship's volumetric size correlates to the relative risk of piloting that ship,		
11	which should in turn be reflected in tonnage-based pilotage rates. Proceeding from this			
12	premise, it is beyond reasonable dispute that GT ITC is the more appropriate metric because it			
13	provides a more consistent and accurate measure of the ship's volumetric size. That is true			
14	regardless of a particular ship's cargo carrying capacity.			
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17		III. <u>CONCLUSION</u>		
18	Q:	Does this conclude your testimony?		
19	A:	Yes.		
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