Exh. MM-23
Docket TP-250574
Witness: Michael Moore

BEFORE THE STATE OF WASHINGTON

UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION, Complainant, v. PUGET SOUND PILOTS, Respondent.	Docket No. TP-250574

EXHIBIT TO TESTIMONY OF

Captain Michael Moore

ON BEHALF OF

PACIFIC MERCHANT SHIPPING ASSOCIATION

MXPS Arrivals Correlation with PSP Assignments (2005-2025)

January 2, 2026

MARINE EXCHANGE VESSEL ARRIVALS vs PSP PILOT ASSIGNMENTS
Historical Correlation Analysis (2005-2025)

Year	Marine Exchange Vessel Arrivals (Puget Sound Ports)	PSP Pilot Assignments	Correlation Ratio	Notes
2005	2,940	8,260	2.810	
2006	2,994	8,372	2.796	
2007	2,963	8,315	2.806	
2008	2,979	8,173	2.744	
2009	2,807	7,669	2.732	lowest ratio
2010	2,666	7,338	2.752	
2011	2,731	7,619	2.790	
2012	2,717	7,769	2.859	
2013	2,719	7,819	2.876	
2014	2,621	7,616	2.906	
2015	2,484	7,795	3.138	Highest ratio
2016	2,544	7,661	3.011	
2017	2,504	7,249	2.895	
2018	2,559	7,324	2.862	
2019	2,554	6,993	2.738	
2020	2,159			Data Excluded for 2020 Pandemic Anamoly
2021	2,340	6,953	2.971	
2022	2,534	7,482	2.953	
2023	2,383	7,040	2.954	
2024	2,486	7,589	3.053	
2025	2,434	7,016	2.882	Pilot Assignments based on PSP trailing 12-month data (Dec 2024-Nov 2025)

Source: Marine Exchange of Puget Sound (John Veentjer) and PSP Financial Reports/BPC Annual Reports

STATISTICAL SUMMARY

		Rounded to .xx
Average Correlation Ratio (2005-2025, excl. 2020):	2.8764	2.88
Median Correlation Ratio:	2.8690	2.87
Minimum Ratio:	2.7321	2.73 *(2009)*
Maximum Ratio:	3.1381	3.14 *(2015)*
Pre-COVID Average (2005-2019):	2.8477	2.85
Post-COVID Average (2021-2024):	2.9627	2.96

2025 PREDICTIVE ACCURACY

Marine Exchange 2025 Arrivals:	2,434	arrivals
Historical Average Correlation (2.8764x):		
Predicted PSP Assignments:	7,001	assignments
PSP Actual Assignments (Dec 2024-Nov 2025):	7,016	assignments
Prediction Variance:	15	assignments
Prediction Accuracy:	99.789%	