		Exh. MM-01
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6	BEFORE THE STATI	E OF WASHINGTON
7	UTILITIES AND TRANSPO	ORTATION COMMISSION
8	WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,	Docket No. TP-190976
9	Complainant,	
10	V.	TESTIMONY OF CAPTAIN MICHAEL MOORE ON BEHALF OF PACIFIC
11	PUGET SOUND PILOTS,	MERCHANT SHIPPING ASSOCIATION
12 13	Respondent.	
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2		I. INTRODUCTION
3	Q:	Please state your name, position and business address.
4	A:	Captain Michael Moore, Vice President, Pacific Merchant Shipping Association, 2200
5		Alaskan Way, Suite 160, Seattle, WA 98121.
6	A	Pacific Merchant Shipping Association's Interest in this Proceeding
7	Q:	Describe the Pacific Merchant Shipping Association.
8		
9	A:	The Pacific Merchant Shipping Association ("PMSA") is a mutual benefit trade
10		association which represents ocean carriers, marine terminal operators, and other
11		companies with interests in the successful operations of seaports on the US West Coast
12		in legal, public policy, and regulatory matters which impact maritime commerce.
13	Q:	Describe the interest of PMSA in this present proceeding.
14	A:	PMSA represents ocean carriers and vessel operators which are consumers of the
15		services provided by state-licensed pilots. PMSA is an interested stakeholder in this
16 17		proceeding as a representative of its member companies which are required to pay state-
18		licensed pilots the rates established by the tariff, and appears in this proceeding (Docket
19		TP-190976) pursuant to Order No. 2, issued December 17, 2019.
20	R	Background of Witness
21		
22	Q:	Provide a brief description of your educational background.
23	A:	I graduated from the Coast Guard Academy in 1977 with a Bachelor of Science in
24		Mathematical Science. Post-graduation I completed training regarding Rules of the
25		Road, Navigation, and Bridge Team Training with the US Navy, and Explosives and
26		Demolition training with the US Marine Corps for application in icebreaking scenarios,

in addition to training in marine inspection, investigations, waterways management,
emergency response, oil spill response, contingency planning, media training and
leadership. I earned a Master of Marine Affairs degree at the University of Washington
School of Marine Affairs, along with a certificate from the University of Washington
Business School, in 1991. A copy of my CV is attached to this testimony. [Exh. MM-2]
Please describe your initial Coast Guard service and experience.

A: After the Academy, my first assignment was as Deck Watch Officer and later Operations Officer on the first crew for the icebreaker USCGC Polar Sea stationed in Seattle, WA at Pier 36. This assignment included navigation and bridge watch duties, conning the vessel, and leading the bridge team.

Q: Please describe the nature of your subsequent assignments in the Coast Guard.

A: After completing assignment on the Polar Sea, my positions and duties ran the entire spectrum of marine safety, including waterways management, investigations, inspections, plan review, pollution response, and preparation for and response to port, ship and maritime emergencies including responsibilities for maritime security highlighted in the post 9-11 world. My officer duties included both watchstanding and managing watchstanding systems and over the course of my career spanned the setting and adjusting of watch schedules on a ship underway or in port, 24 hours operations centers, 24 hour vessel traffic centers, on call duty, and managing leave, sick leave, training and temporary duty assignments while meeting the fluctuating demands of a multi-mission agency.

My career with the Coast Guard concluded upon serving as Captain of the Port, Puget Sound. The Captain of the Port position comes with an exhaustive list of duties

Testimony of Capt. Michael Moore, Exh. MM-01-2

Q:

ranging from waterways management, supervising the Vessel Traffic Service, mitigating risk of vessel transits and incidents, inspections and examinations of U.S. and Foreign vessels, and responding to all reports of pollution, maritime security and much more. I also developed and implemented numerous port procedures to augment regulations and enhance safety. I supervised the Regional Exam Center, where I worked earlier in my career, which issues licenses through examinations including first class pilotage endorsements required by all Puget Sound pilots as well as WSF masters and mates, in Puget Sound.

Q: In those positions held with the United States Coast Guard, please describe your experiences licensing, regulating, investigating, disciplining, and working with pilots.
A: As a licensing officer, I have created, proctored, and graded numerous exams regarding rules of the road, radar observer endorsements, and pilotage charts, amongst other navigation and waterways safety topics. It was my responsibility to ultimately evaluate the pilotage endorsement exams, including chart exams, and determine whether an applicant passed or failed.

As a regulator, I investigated casualties including those involving mariners holding pilotage endorsements including masters, mates, and state-licensed pilots. This required determining what caused the incident in part by interviewing those involved to help make that determination with follow on actions recommended to hold those involved accountable if necessary and to recommend other actions to prevent recurrence. For example, I conducted the investigation the January of 1981 collision between the WSF FERRY KLAHOWYA and the outbound Liberian-flag freighter MV SANKO GRAIN with a Puget Sound pilot at the con.

Testimony of Capt. Michael Moore, Exh. MM-01-3

In my capacity as Chief of Port Operations in LA/LB all pilotage grounds in our area of responsibility operated exclusively under federal pilotage endorsements. We worked with pilots, tugs and others to develop standards of care for tug escorts, underkeel clearance, movement in limited visibility, anchoring management and many others and also reviewed internal pilot procedures and training, use of simulators for waterway development and to plan for larger ship calls on the horizon and of course in how we dealt with incident and near miss investigations and corrective actions. I had a particularly close working relationship with the Jacobsen Pilotage Service, the Port of Long Beach, and the Port of Los Angeles to develop a Harbor Safety Plan, voluntary tug escort standards, technology introduction to help pilots in the San Pedro Bay to safely transit and dock/undock with increasingly larger vessels in relatively constricted waterways and berths in a variety of weather conditions, and creation and management of a new VTIS Coast Guard/Marine Exchange (now a VTS) which handled outside the breakwater traffic. I provided supervision, Coast Guard personnel, training and COTP decision making authority as needed including with respect to pilotage issues, which was highlighted by necessary actions in response to a pilot strike at the Port of LA that lasted more than 4 months. I worked to establish, and then was responsible for implementation of, a safety zone so that a vessel of a certain size wanting to transit inside that zone without a pilot could proceed upon Coast Guard review of whether the bridge team possessed sufficient local knowledge of things like ongoing construction and dredging in the port at that time. I was directly involved with adjusting ship schedules, developing rest procedures, and facilitating safe and efficient vessel operations.

As Captain of the Port Puget Sound, I led the transition to the Harbor Safety

Testimony of Capt. Michael Moore, Exh. MM-01-4

Committee to develop Standards of Care for the first Harbor Safety Plan, held quarterly VTS/Pilot meetings to address improvements of the system, and reviewed vessel transits of concern to determine ways to address those concerns. I regularly reviewed vessel volumes and fluctuation of vessel traffic, monitored potential issues of fatigue and workloads including sponsoring fatigue management studies for WSF and a review of tug/barge watchstanding and rotation scenarios given a tug/barge allision with the 520 bridge. I also worked directly with the President of PSP on various studies and risk assessments regarding ship traffic and on continuous improvement efforts to enhance safety, and we worked closely in the aftermath of 9-11 regarding a host of scenarios and procedures.

Q: Provide a brief description of your experience with navigational safety, vessel inspection, and maritime law enforcement and maritime industry affairs with the US Coast Guard.
A: I taught marine science with a marine safety emphasis at the Coast Guard Academy and taught cadets navigation both underway and in simulator settings. Aside from my time in graduate school, I nearly always had a job which involved navigational safety and interacting in all aspects of marine safety and related maritime operations, interacting with stakeholders including industry in multiple Puget Sound tours. My additional assignments in San Francisco, and LA-Long Beach included all California ports other than San Diego including Humboldt Bay to the north and inland to Stockton and Sacramento and oil terminals in Benicia and Martinez encompassing all types of cargo operations as well as fishing, charter boats, harbor cruises, ferry operations, shipyards, oil terminals and other facilities, offshore moorings, drilling rigs and all the activities one might envision with ships, and terminals and port facilities.

Testimony of Capt. Michael Moore, Exh. MM-01-5

Q: Provide a brief description of your experience with navigational safety, vessel inspection, and maritime industry affairs since your retirement from service with the US Coast
 Guard and during your tenure with PMSA.

A: I have remained involved in work to achieve the goals of safe, efficient, and environmentally sound marine transportation and remain aligned with experience from my Coast Guard jobs in my present responsibilities. I have maintained participation on the Harbor Safety Committee as Operations Chair and serve on the Executive Committee, serve on various oil spill prevention or response committees/groups and participate in risk studies around vessel traffic, serve on the state ballast water work group, ports air emissions advisory group, and am currently involved with several risk mitigation projects in Canada regarding vessel traffic at their request. I chair the Emergency Response Towing Vessel Compliance Group providing a tug stationed at Neah Bay to mitigate risk of any vessel in trouble. I am proud to serve as Chair of the Alaska Maritime Prevention & Response Network which provides an oil spill prevention and response system serving vessels on the Great Circle route to and from Asia with routing procedures, early detection of problems and response capacity. The Coast Guard just recognized the Network's outstanding achievements in marine environmental protection to support safe, sustainable shipping by awarding the prestigious, top-level Rear Admiral William M. Benkert Marine Environmental Protection Osprey Award of Excellence. The Coast Guard only selects one organization nation-wide every two years for this coveted award. I serve in both the ECHO program out of the Port of Vancouver and on the Quiet Sound group in Puget Sound both dealing with mitigation of vessel traffic noise impacts on Southern Resident Killer Whales primarily through targeted

Testimony of Capt. Michael Moore, Exh. MM-01-6

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slow-downs while technology on noise suppression is introduced.

- Q: Describe your experience in the types of pilotage rate issues involved in these tariff proceedings since your retirement from service with the US Coast Guard including the provision of testimony in similar pilotage tariff proceedings before and in what jurisdictions?
- A: Yes. From 2006 to present I have testified as the lead industry representative on behalf of PMSA in each of the rate setting processes held by the Washington state Board of Pilotage Commissioners. In 2010, I testified in a rate setting hearing held by the California state Board of Pilot Commissioners, where I appeared as an expert witness on behalf of PMSA.
- Q: Have you testified as an expert witness before or otherwise participated in any other types of cases related to navigational safety?
- A: I have participated in formal hearings regarding mariner's licenses or documents as lead investigator for a major marine casualty on behalf of the United States government. I have participated in producing findings and recommendations for consideration by the Commandant with respect to Coast Guard legal and operational matters. I have testified before the United States Senate regarding maritime security issues and other core US Coast Guard Captain of the Port missions.

II. PURPOSE AND SUMMARY OF TESTIMONY

- Q: Please provide a brief summary of PMSA's position with respect to this rate-setting proceeding.
- A: On behalf of consumers of the services provided under the State of Washington compulsory pilotage system, PMSA has intervened in opposition to the Puget Sound

Testimony of Capt. Michael Moore, Exh. MM-01-7

Pilots ("PSP") Petition to increase and revise the current tariff. The existing tariff sets the cost of services for ocean-going vessels utilizing a state licensed pilot in the Puget Sound. PMSA opposes the PSP Petition to increase pilotage rates because the current tariff is producing more than sufficient revenue to accommodate the provision of safe, fully regulated, efficient, and competent pilotage service in the Puget Sound. PSP has not demonstrated that the current rates are insufficient to provide safe, fully regulated, efficient and competent pilotage service or that they are unfair, unjust, or unreasonable and on that basis, this Petition should be denied.

Q: Provide a brief summary of the scope and purpose of your testimony on this matter.A: My testimony consists of three main points.

First, PSP has not proven its case for any increases in the tariff rates charged to vessels for the provision of state compulsory pilotage. The current tariff rates generate record high revenues per unit of service provided. The current tariff rates are more than sufficient to cover essential pilot expenses and supply robust individual pilot income without any need for rate increases. PSP's internal decisions about how, when, and in what amount to share compensation amongst members - including for their own selfcreated, inefficient, and unfunded internal deferred compensation agreements and assignment policies - are immaterial to the cost of service. All costs of pilotage are already adequately compensated for by vessels at the time of service under the current tariff.

PSP does not present a compelling safety, operational, or policy basis for an increased rate. PSP's requested increase is not based on any evidence of any significant changes in the present conditions of pilotage, including any risks to pilots or vessels of

Testimony of Capt. Michael Moore, Exh. MM-01-8

the provision of the pilotage service which are not already accounted for in the current tariff and covered by current tariff revenues. PSP's projections of the need for additional pilots, as well as its logic for why a rate increase is necessary to pay for an increase in the number of pilots and increased non-essential expenses, are faulty, speculative, conclusory, and unproven. PSP has not addressed basic policy considerations under the Pilotage Act, including the need to consider and preserve the State's interests in protecting and growing waterborne commerce and improving the competitive position of seaports in the Puget Sound.

Second, PSP's Petition proposes numerous wholesale revisions and rewrites of the present tariff structure without adequate explanation. Some of these revisions may have merit individually, like reducing upper tonnage rates, but it is impossible to determine from the testimony how and why PSP would seek to increase charges at one rate on some vessels while others may change at completely different rates at different times for different years. The rate of increase on numerous vessels is significant. Moreover, given the wholesale revision and hundreds of non-identified changes, it is facially impossible for PMSA, the UTC, or the public to divine if there are some revisions which should be isolated as solely tied to rate increases and others which are meant to solely be structural revisions; all are part of a tariff meant to result in significant increases in pilot revenues. PMSA would welcome a tariff revision and restructuring process which includes all stakeholders with the goal of creating a tariff which is simpler, less opaque, and directly related to the costs of services. For such a process to be fair and inclusive we recommend that the Commission direct such a process which is revenue neutral.

Testimony of Capt. Michael Moore, Exh. MM-01-9

Third, PSP's Petition was submitted prior to the current COVID-19 crisis. Certainly, PSP could not have anticipated the pandemic and the resulting economic disruption which is severely impacting the supply chain and port and maritime operations. Nevertheless, these coronavirus impacts are significant, dynamic, rapidly evolving, and material to the assumptions upon which this Petition is based. The maritime industry has yet to find its new baseline or a stable operating environment and is adapting to these dramatic disruptions to maritime commerce and changes in the fabric of our entire global economy. Given the radical and fundamental changes posed by the pandemic and current economic disruption, it is impossible to rely on most of the economic presumptions or projections included in PSP's original testimony. **III. THE CURRENT TARIFF PROVIDES RATES THAT ARE FAIR, JUST, REASONABLE, & SUFFICIENT** A. The Current Tariff Structure Is Fair, Just, Reasonable, & Sufficient Q: How would you describe the current tariff? A: The current tariff imposes rates for pilotage services provided to vessels calling on ports in the Puget Sound by pilots licensed by the state Board of Pilotage Commissioners ("BPC") under the state of Washington's Pilotage Act at Chapter 88.16 RCW. Q: What charges comprise the schedule of rates for pilotage services provided to vessels under the current tariff? A: The current tariff is a schedule of rates and charges which are imposed on various bases, including per vessel call transits within the Puget Sound, the distance traveled within different geographic zones of the Puget Sound, the tonnage and length overall of a particular vessel, or a particular service provided to a vessel by a pilot. The current tariff

Testimony of Capt. Michael Moore, Exh. MM-01-10

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is published at WAC 363-116-300.

Q: What provisions under the Pilotage Act governed the creation of the current tariff?
A: Prior to the adoption of SSB 6519 (Chapter 107, Laws of 2018), the BPC was required to "[a]nnually fix the pilotage tariffs for pilotage services provided under" the Pilotage Act. RCW 88.16.035(1)(e).

Q: How long has the current tariff structure been in place?

A: The current tariff has been in place since July 1, 2015. The current tariff was adopted by the BPC for the period July 1, 2015 through June 30, 2016. At tariff hearings held on May 12, 2016 and November 10, 2016 the Board of Pilotage Commissioners did not support any changes in the current tariff and extended its terms with an effective period through December 31, 2017. Thereafter, the only tariff actions in 2017 and 2018 were rolling over the effective dates of the Puget Sound Pilotage District Tariff through 2018 and subsequently extending the current tariff through 2019. In 2018, the Legislature transferred rate setting responsibilities to the Utilities and Transportation Commission and enacted RCW <u>81.116.050</u>, which concluded that the "tariffs established by the board prior to July 1, 2019, shall remain in effect and be deemed pilotage tariffs set by the commission until such time as they are changed by the commission pursuant to this chapter." As a result, the current tariff is essentially the same tariff effective on July 1, 2015, providing for no substantive changes in the tariff rates.

Q: Is the current tariff is fair, just, reasonable, and sufficient?

A: It is fair, just, reasonable, and more than sufficient. Since the Washington State Legislature has determined that the only way in which the UTC may enact a tariff is to "ensure that the tariffs provide rates that are fair, just, reasonable and sufficient for the

Testimony of Capt. Michael Moore, Exh. MM-01-11

provision of pilotage services," (RCW 81.116.020(3)), and because any "tariffs established by the board [of pilotage commissioners] prior to July 1, 2019 shall remain in effect and be deemed pilotage tariffs set by the commission until such time as they are changed by the commission," (RCW 81.116.050), the Legislature has adjudged the current tariff to be treated as fair, just, reasonable, and sufficient for the provision of pilotage services until proven otherwise by a Petitioner to the UTC.

B. The Current Tariff Generates Record High Revenues for Pilots

Q: Can you provide a simple but accurate explanation of what the pilotage tariff is?
A: The current pilotage tariff, as well as all previous pilotage tariffs, is a schedule of all of the mandatory charges set by the State of Washington to be billed by a state licensed pilot to an ocean-going vessel in exchange for services rendered to that vessel by the pilot.

- Q: Is a pilot allowed to charge, or is a vessel allowed to pay, a charge for a service rendered which is not listed in the current schedule of pilotage charges in the tariff?
 - A: No. Pursuant to RCW 88.16.120 and WAC 363-116-300, the charges established by the tariff are the only costs to be paid by a vessel in exchange for a vessel service.
- Q: Is there a way to measure the average charge paid under the pilotage tariff by a vessel for a pilot's services?
- A: There are hundreds of potential vessel movement services with specific rates covered by the tariff. The best measure of the average charge which is paid by a vessel after being moved by a pilot under the pilotage tariff is the "Average Revenue per Vessel Move".
 Q: What is the significance of measuring the Average Revenue per Vessel Move?
 - A: The Average Revenue per Vessel Move is the most direct, simple, and accurate

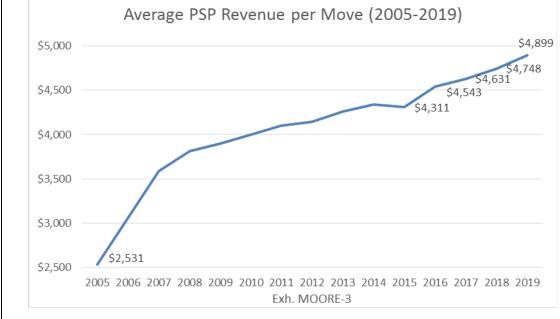
Testimony of Capt. Michael Moore, Exh. MM-01-12



expression of the application of tariff rates to pilotage services provided to a vessel when it requires to be moved.

- Q: What was the most recent annual Average Revenue per Vessel Move under the current tariff?
- A: In 2019, the Average Revenue per Vessel Move was \$4,899. [Exh. MM-3]
- Q: What is the history of the Average Revenue per Vessel Move?
- A: From 2005 to 2019, Average Revenue per Vessel Move has increased by 93.6%, from
 - \$2,531 to \$4,899. [Exh. MM-03]

Figure A. Average PSP Revenue Per Move (2005-2019)



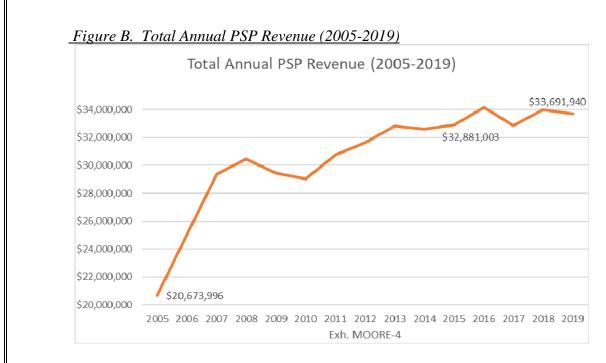
Under the current tariff, which has remained unchanged since 2015, describe how

Average Revenue per Vessel Move has increased.

- A: From 2015 to 2019, Average Revenue per Vessel Move has increased by 13.6%, from \$4,311 to \$4,899. [Exh. MM-03]
- Q: Under the current tariff, how much has Average Revenue per Vessel Move increased

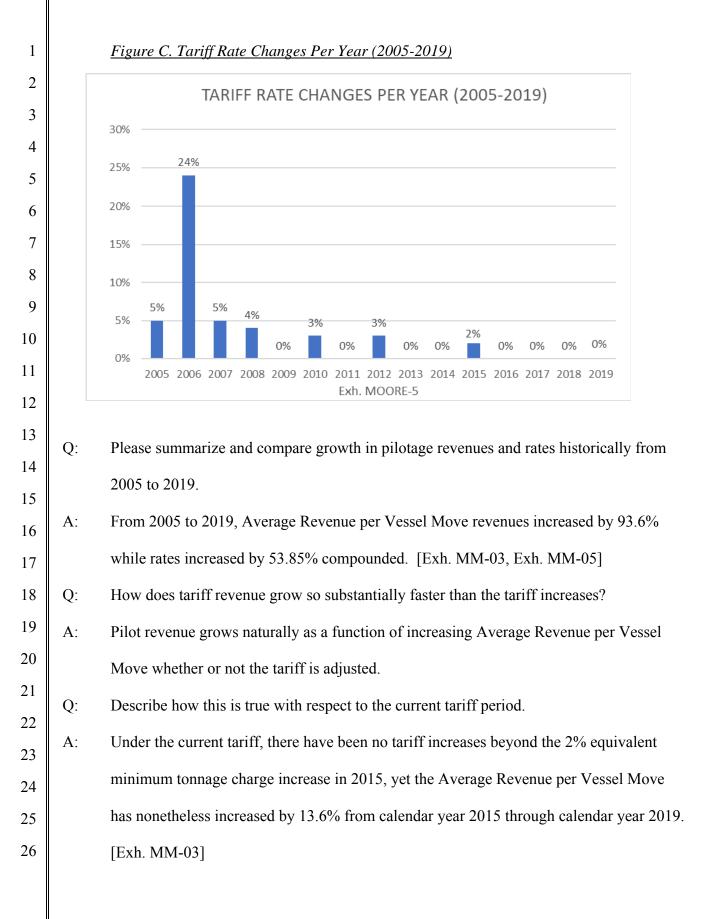
Testimony of Capt. Michael Moore, Exh. MM-01-13

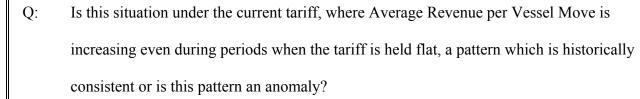
1		during the PSP Test Period?
2	A:	The PSP Test Period crosses two annual periods, 2018 and 2019, so accounting for both
3		years here Average Revenue per Vessel Move has naturally increased 3.2% from 2018 to
4		2019 without any increase in the tariff. [Exh. MM-03]
5	Q:	Has the Average Revenue per Vessel Move ever been higher than under the current
6 7		tariff?
8	A:	No, at \$4,899 the Average Revenue per Vessel Move is at a record high and the average
9		pilot in the Puget Sound has never generated more revenue per vessel move than in 2019.
10		Or put another way, no pilotage tariff has ever generated a higher average charge to
11		pilotage customers than the current tariff did in 2019.
12		phouge customers than the current tarm and in 2013.
13	C.	Tariffs Generate Naturally Increasing Revenues Over Time Even Without Rate Increases
14	Q:	Please describe historic annual total revenues generated by the Puget Sound pilotage
15		tariff structure and how they have changed over time.
16 17	A:	Total pilotage revenues have increased significantly despite significant decreases in ship
17		calls, pilot assignments, and workload. In total, pilot revenues have grown over time
19		from \$20,673,996 in 2005 to \$33,691,940 in 2019, representing an increase of 63%.
20		[Exh. MM-04]
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	Testim	nony of Capt. Michael Moore, Exh. MM-01-14
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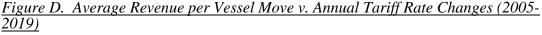
Q: Describe how the historic rates in the pilotage tariff have changed from 2005 to 2019?
A: Tariff rates have been increased by 46% from 2005 to 2019. [Exh. MM-05] Most of the tariff increase occurred in one large tariff spike in 2006 which occurred after tariff decreases in preceding years under a formula agreement prompted PSP to cancel the prior rate agreement. Since 2006, there have been more years without a rate increase than with one, and when there have been rate increases they have tended to be relatively small. Nevertheless, when these percentage increases are applied to actual tariff rates over time, they have compounding effect, whereby this results in a cumulative increase of 53.85%.

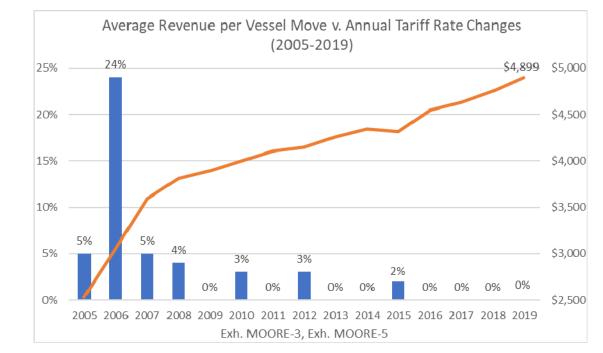
Testimony of Capt. Michael Moore, Exh. MM-01-15





A: This is consistent with the history of the Puget Sound pilotage tariff. The tariff has been held flat many times - in 8 out of the past 15 years - while Average Revenue per Vessel Move continues to increase over the period of 2005-2019. [Exh. MM-03, Exh. MM-05]

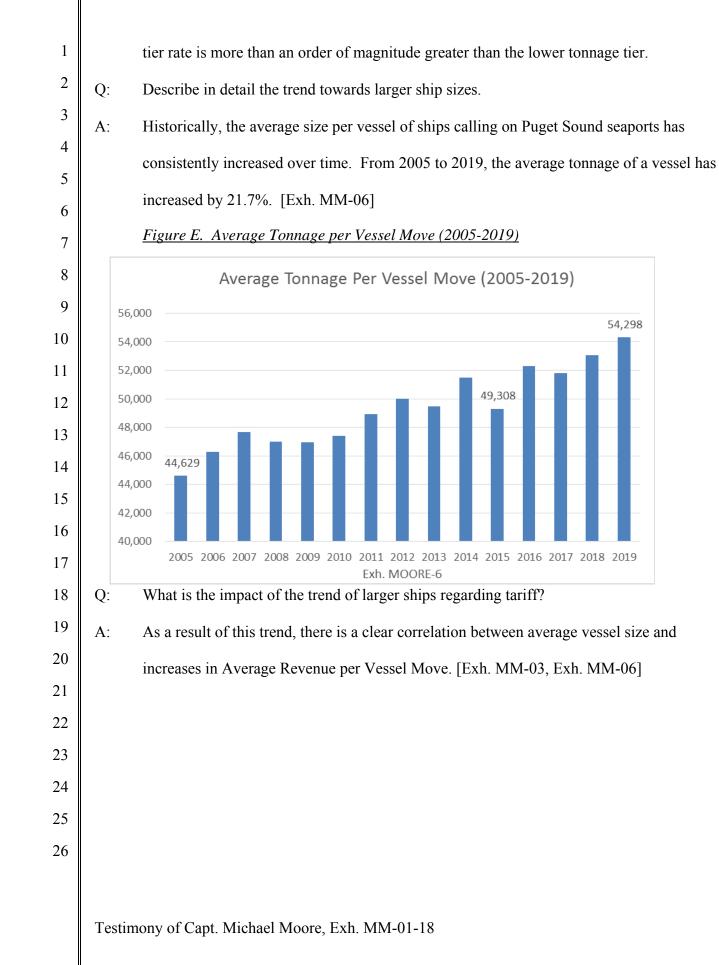




Q: Describe why increases in pilot revenues on an average per vessel basis regularly occur even when rates are held constant.

A: Pilotage revenues increase naturally on an average per vessel basis due to the continuous and regular trend of increases in ship sizes, particularly in the container and cruise sectors. The tonnage charges escalate as a ship gets bigger such that the upper tonnage

Testimony of Capt. Michael Moore, Exh. MM-01-17



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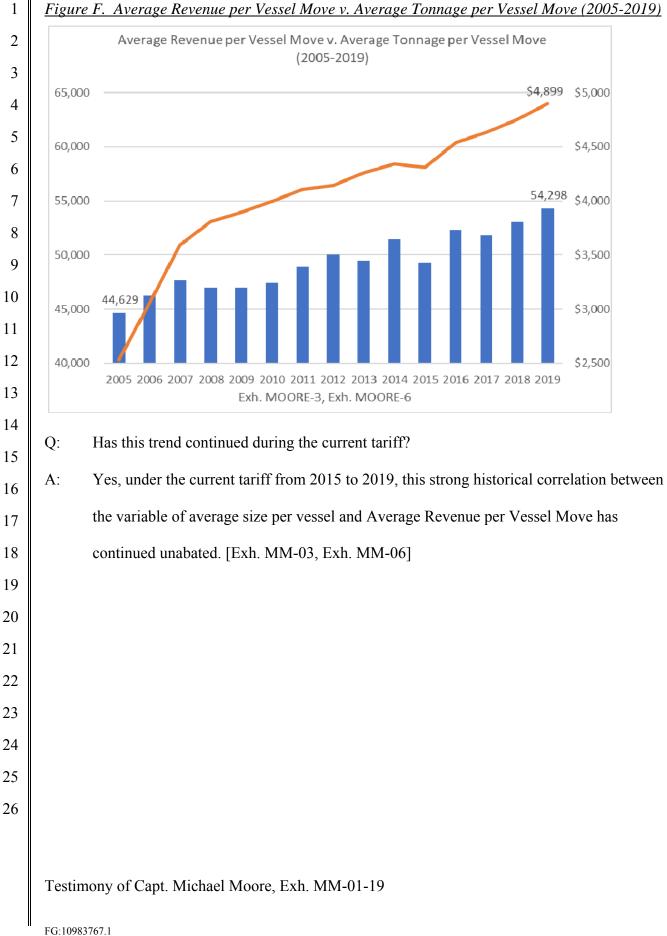
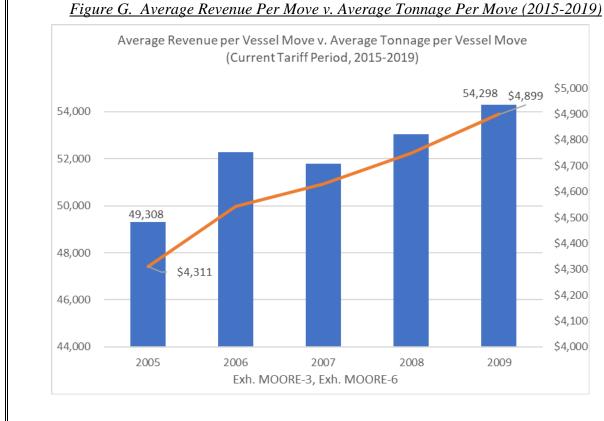


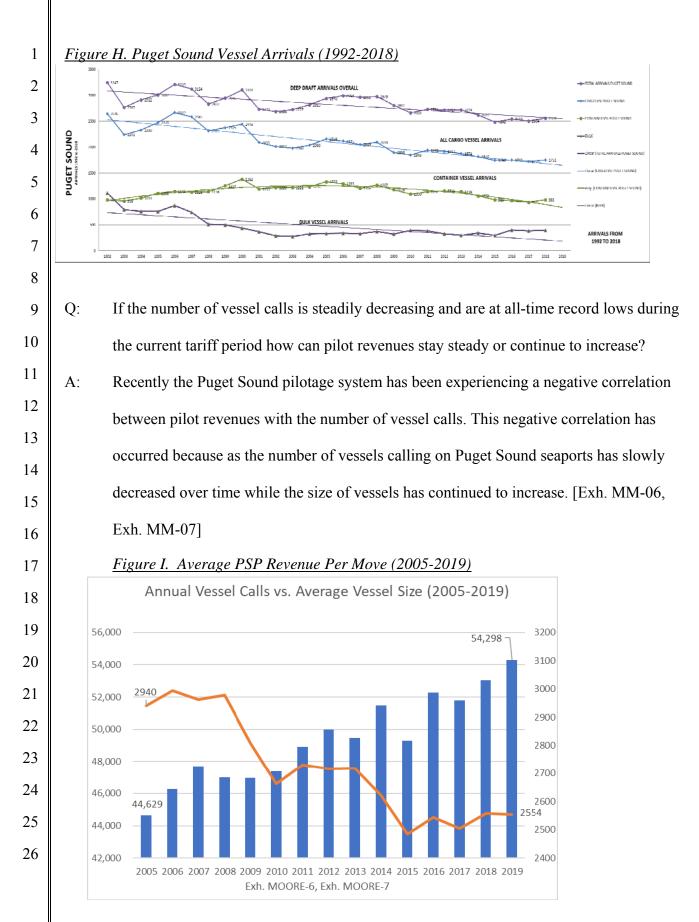
Figure F. Average Revenue per Vessel Move v. Average Tonnage per Vessel Move (2005-2019)



Q: Is growth in the number of ships which are coming to do business at the seaports of the Puget Sound a variable which contributes to increases in pilot revenues?

A: Not under the current tariff, as in fact, we have been losing ship calls consistently for over a decade and saw only 2,554 vessel arrivals in 2019. Relative to the history of our vessel traffic on record since 1992, according to the Marine Exchange of Puget Sound, total vessel calls have never been lower than they have been during the current tariff period of 2015-2019. And, if one excludes cruise ships and articulated tug/barge units, the reductions in deep draft cargo ship would stand out even more significantly. [Exh. MM-07]

Testimony of Capt. Michael Moore, Exh. MM-01-20



1	Q:	Do these trends of larger per vessel size and lower overall vessel calls hold true when
2		comparing the data from the current tariff period with historical averages?
3	A:	Yes, with the caveat that the overall number of vessel calls has plateaued during this
4		period at historic lows, but the decline continued for non-cruise deep draft cargo vessels.
5		Nonetheless, the average size of vessels in 2015-2019 continued to increase to record
6		
7		highs, with the Puget Sound welcoming its largest vessels ever, in a trend which is
8		definitively not positively-correlated with the number of vessel calls which remained at
9		historic lows.
10	Q:	Historically, including the 2015 to 2019 current tariff period, which of the following
11		variables has shown the most positive correlation with increasing pilot revenues: tariff
12 13		rate changes, the number of vessel calls, or changes in the size of vessels?
13	A:	Changes in the size of vessels shows the most positive correlation with increases in
15		average pilot revenues.
16	Q:	Given this correlation, what is your conclusion regarding whether a rate increase is
17		required in order to raise pilot revenues?
18	A:	It is unnecessary to raise the rates in the Puget Sound pilotage tariff in order for pilots to
19		see increases in their revenues per vessel move.
20		see mercuses in their revenues per vesser move.
21	D.	Already Record High Pilotage Revenues per Vessel Call Will Continue to Increase with Unchanged Tariff
22	Q:	Do you believe that the Average Revenue per Vessel Call will continue to increase under
23	Q.	
24		the current tariff without any changes or increases in the rates?
25	A:	Yes, as there is no reason to believe that the historic global trend of the average size of
26		vessels continuously and steadily getting larger will not continue, and we expect that the

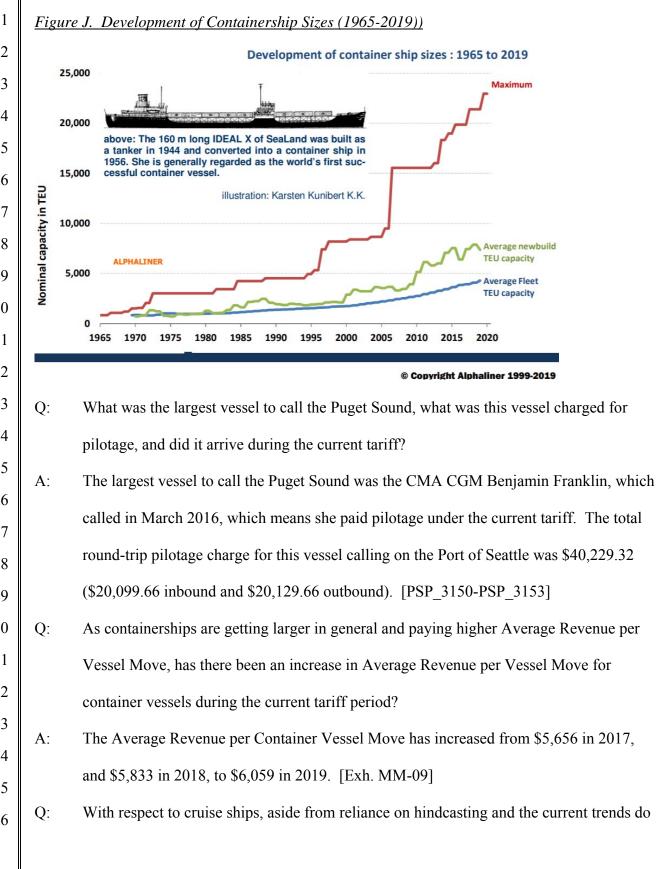
average size of vessels continuously and steadily calling in the Puget Sound will continue to get larger as well. Due to the tariff structure this will naturally result in continued increases in Average Revenue per Vessel Move.

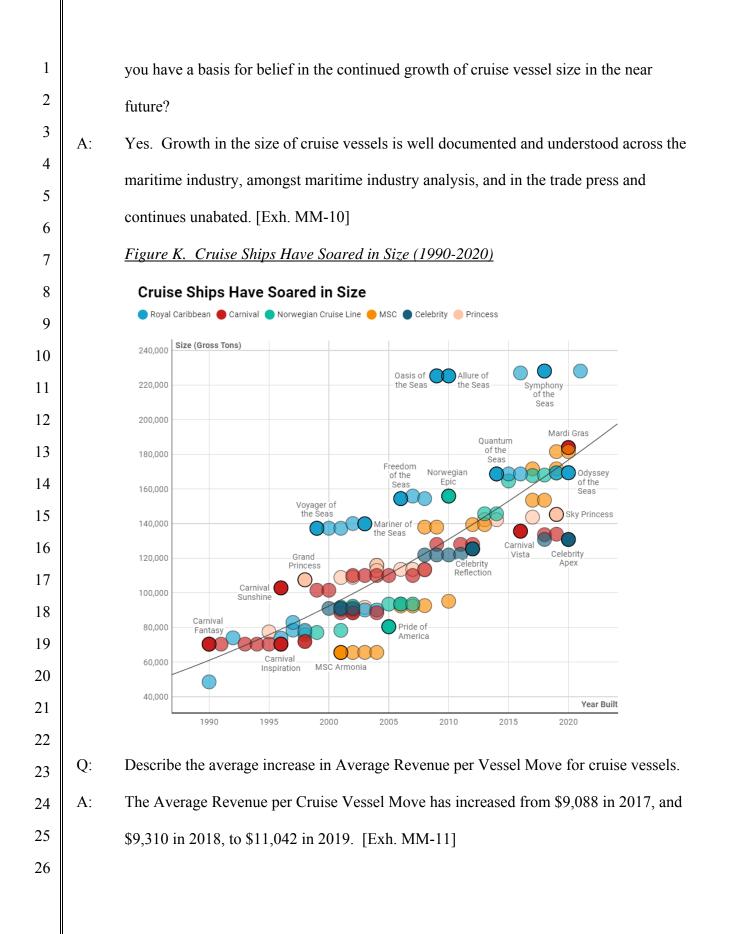
Q: With respect to containerships, aside from reliance on hindcasting and the current trends do you have a basis for belief in the continued growth of container vessel size in the near future?

A: Yes. This continued growth is universally well known and understood in the maritime industry and acknowledged by PSP. With respect to container vessels, industry economics consistently push towards lower unit costs along with economies of scale for cargo owner customers. As the current average new-build container ship capacity (measured in twenty-foot equivalent units (TEUs)) is higher than the current year average fleet TEU capacity, the historical trend of the global container fleet consistently getting larger on average has accordingly continued unabated through 2020. This will result in average fleet sizes continuing to increase.

This trend was recently summarized in an Alphaliner publication which demonstrated average new-build TEU capacity significantly higher than average, and maximum vessel sizes continuing to increase. [Exh. MM-08]

Testimony of Capt. Michael Moore, Exh. MM-01-23





1 2	E.	Puget Sound Pilots Earn Record High Average Revenues Even While Providing Fewer Vessel Services Under the Current Tariff
2	Q:	If under the current tariff pilots have never earned higher average revenues per move,
4		then are they also providing higher than average services to vessels?
5	A:	No, while pilots in Puget Sound in 2019 enjoyed record-high per-vessel move revenues
6		of \$4,899 on average, they spent less time piloting than in prior years.
7	Q:	How does this correlate to pilot assignments and workloads?
8	A:	As the number of vessels declines but is inversely correlated with increased pilot
9		revenues, we are left with simple arithmetic: if you make more money while doing less
10		work, then your average pay has increased.
11	Q:	As a matter of industry economics, why are pilots' average earnings increasing if they
12	Q.	
13		are actually doing fewer jobs?
14	A:	As individual ships get larger and move more cargo per vessel, over time this trend is
15		replicated across multiple fleets and carriers, and over time the macro result is that more
16 17		cargo can be moved with fewer vessels. The current tariff requires larger vessels to pay
17 18		much higher pilotage costs per an average-sized vessel. The relative increases in tariff
19		revenues from larger ships are so dramatic that the increased revenues from larger ships
20		more than offset the revenues lost by piloting fewer ships.
21	Q:	Describe what metrics would best account for pilot revenues increasing per unit of
22		pilotage service provided.
23	A:	The two most comprehensive metrics for evaluating pilot revenues per unit of work
24	A.	
25		necessary to provide a vessel move are either Average Revenue Per Assignment or
26		Average Revenue Per Bridge Hour. Both measure slightly different bases of how often a
		pilot is actually providing the services necessary to move a vessel under the current tariff.
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Q: Describe Average Revenue Per Assignment.

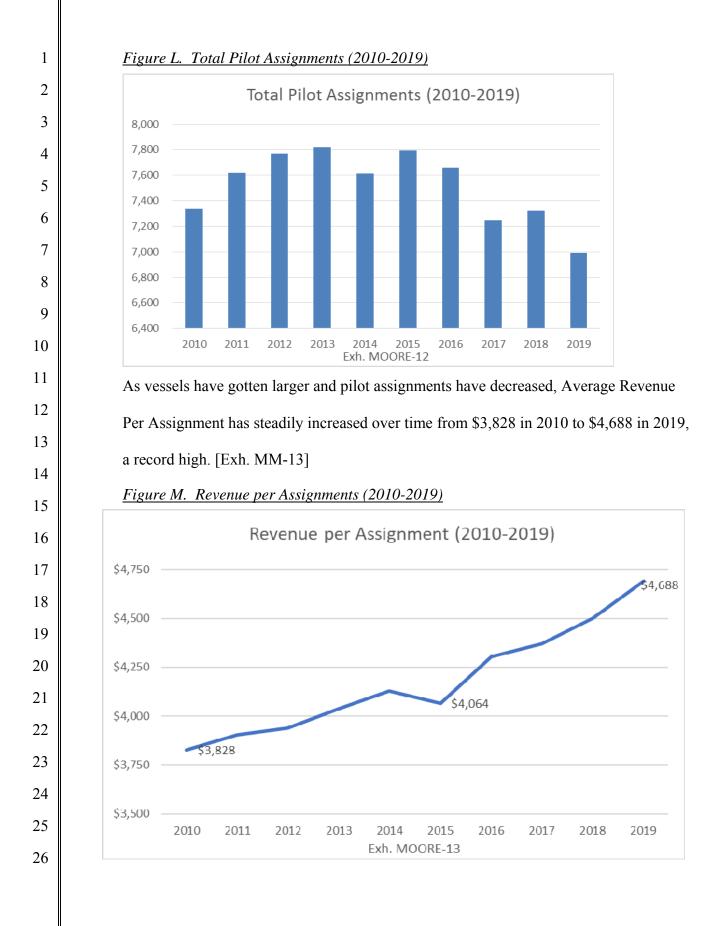
A: Average Revenue Per Assignment accounts for the fact that vessels only pay for and only receive pilotage services upon a pilot being assigned a job by PSP. The pilotage
"Assignment" is a standard work metric used by PSP to evaluate their own work-cycles, as defined at §3.8 of the PSP By-Laws. Both Assignments and Revenue Per Assignment is tracked in BPC Spreadsheets based on reports from the pilots required by the Pilotage Act. [Exh. JR-09]

9 Q: Describe Average Revenue per Bridge Hour.

A: Average Revenue Per Bridge Hour accounts for the fact that not every vessel assignment is created equal - for example, some assignments may involve long stretches of open waterway transits while other assignments may be of a very short duration in time. The pilotage "bridge hour" is a work metric which aligns with provisions in the tariff related to vessel efficiency and in the Pilotage Act related to limitations on pilotage hours of service and rest. "Bridge Hour" is used to evaluate pilot workload and is tracked in the PSP submission work papers with respect to Revenue Calculations. (PSP Exh. WTB-11)
 Q: Describe how Average Revenue Per Assignment has historically changed over time in the Puget Sound.

A: Assignments grew slightly from 2010 to 2013 but they have since decreased to the present record low period we are experiencing now during the current tariff period. The reduction of vessel calls, and reduced demand for pilotage services, has also resulted in a plateau at decreased levels in overall pilot assignments as well. [Exh. MM-12]

Testimony of Capt. Michael Moore, Exh. MM-01-27



1	Q:	Do these historical trends hold true for the recent period under the current tariff where
2		existing rates that have been held constant since 2015?
3	A:	Yes. The Average Revenue Per Assignment increased by 15%, from \$4,064 in 2015 to
4		\$4,688 in 2019, even though the rates were held unchanged over this period. [Exh. MM-
5		13]
6	0.	-
7	Q:	Describe how pilot Bridge Hours have historically changed over time in the Puget
8		Sound.
9	A:	We do not have historic data for pilot Bridge Hours available to analyze.
10	Q:	How are you able to analyze Bridge Hours for your testimony if it is not historically
11		available?
12	A:	PSP was required to submit its projected revenue calculations as part of this petition and
13		Bridge Hours is a subset field of the Revenue Calculations spreadsheet at PSP Exh.
14		
15		WTB-11. Thus, there is only one year of data available for PMSA to analyze, but we
16		have done so for the purposes of this testimony.
17	Q:	What were the total pilot Bridge Hours for the 2018-2019 PSP Revenue Calculation
18		period?
19	A:	After making some adjustments for anomalies in PSP Exh. WTB-11, which included
20		negative bridge hours for some vessel moves, the total Bridge Hours in the 2018-2019
21		test period were 34,886.63 hours, and average Bridge Hours per move were 5.03 hours.
22		
23		[Exh. MM-14]
24	Q:	Did you calculate Bridge Hour revenues from these totals?
25	A:	Yes, after adjustment, the Average Revenue Per Bridge Hour was calculated at \$971.69.
26		[Exh. MM-15]
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Q: Can you confirm the accuracy of your adjustment methodology?

A: Yes, to confirm the accuracy of both PSP Exh. WTB-11 and the PMSA adjustments, by applying the average of 5.03 hours per move to the \$971.69 Average Revenue per Move on a Bridge Hour basis, the total is \$4,887.60, which is a close approximation of Average Revenue per Move of \$4,899.

- Q: When evaluating revenue earned by pilots for a unit of work associated with moving vessels, does the current tariff present higher revenues than the historical averages?
- A: Yes. The Average Revenue per Assignment in 2019 was the largest ever. Or put another way, pilots have never been better compensated on a per job basis than they were in 2019

F. Under the Current Tariff Pilotage Revenues Are More Than Sufficient to Cover the Organizational Overhead Costs of the Puget Sound Pilots

- Q: Does the current tariff structure produce revenue for pilots over and above growth in the pilots' overhead and essential costs of doing business?
- A: Yes. Revenues from the current tariff more than adequately cover the essential

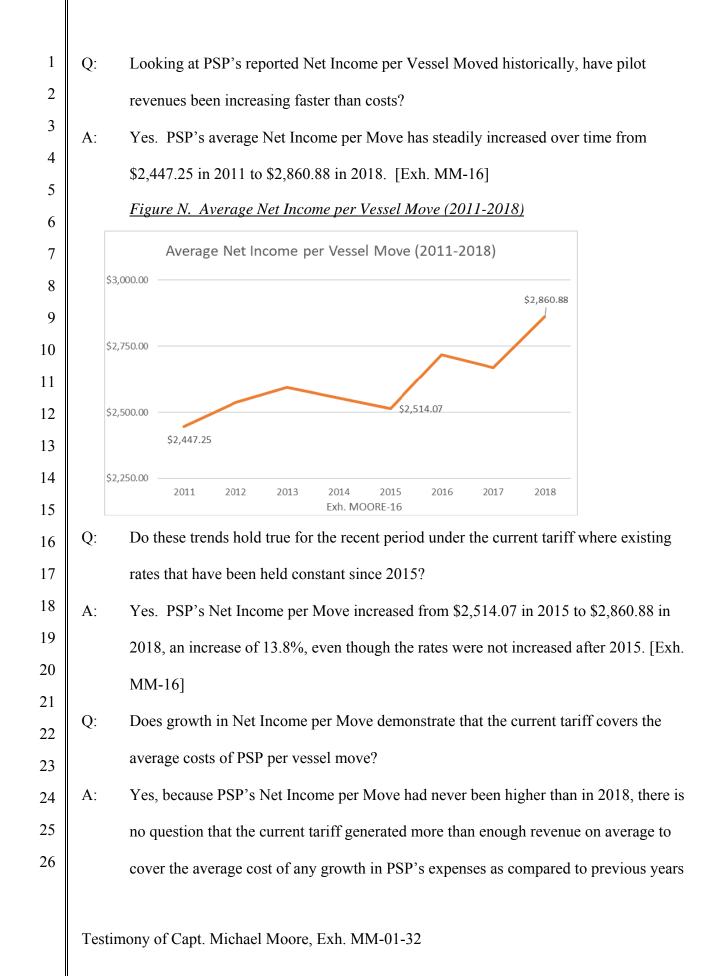
operational expenses required to run the pilots' business through PSP.

- Q: Does PMSA agree with PSP's general approach of sharing tariff revenue amongst pilots to cover the overhead costs of doing business?
 - A: Generally, the concept that individual pilots have voluntarily organized themselves into an association, in this case PSP, in order to share overhead and operating expenses is a reasonable one, and we agree that tariff-setting should be done in a way that enables pilots or pilot organizations to recover basic direct operating costs. For instance, PSP provides essential elements of the pilots' business including dispatching, pilot boat

Testimony of Capt. Michael Moore, Exh. MM-01-30

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1		operations, equipment purchases, invoicing, collections, accounting, and other
2		administrative functions which are categories of essential expenses which are necessary
3		to provide pilotage service. Unfortunately, PMSA has also identified non-essential
4		expense elements that PSP seeks to cover with pilotage revenues, so with respect to
5		multiple expense items, PMSA disagrees with PSP's accounting of what should be
6		covered by the tariff as discussed in Section IX below.
7		
8	Q:	Setting aside the issue of expense recovery, for purposes of comparing pilotage revenues
9		with pilotage expenses generally, how might one account for a comparison of pilot
10		revenues and pilot expenses under the current tariff?
11	A:	The simplest metric to measure whether PSP's revenues are growing faster than PSP's
12		expenses is to look at PSP's reported Net Income per Vessel Moved, because the Net
13		
14		Income is the average result of PSP Total Revenue per Vessel Moved minus PSP
15		Expenses per Vessel Moved.
16	Q:	What is the last year reviewed with respect to pilot expenses and net income?
17	A:	We are using 2018 data with respect to the evaluation of pilot expenses and net income.
18	Q:	Why is PMSA using 2018 data for evaluation of this expense category but using 2019
19		data for evaluation of income and vessel moves?
20	A:	PMSA is using the latest publicly available PSP Financial disclosure for a full calendar
21	A.	r MSA is using the fatest publicity available r Sr Timancial disclosure for a fun calendar
22		year, which is from 2018 (Exh. JN-04). PMSA asked for disclosure of PSP Financial
23		reports for 2019 but was advised that "[t]he audited financial statement for 2019 has not
24		been finalized." (PSP Response to PMSA Data Request 219) PMSA is able to use full
25		calendar year 2019 data with respect to pilotage revenues and vessel calls due to
26		availability of reports and spreadsheets from the BPC and provided by PSP.
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when the Net Income, naturally post-expense, was lower.

Q: How accurate is overall, cumulative PSP Net Income when compared to Average Net Income per Vessel Move?

A: Overall PSP Net Income is a crude tool because it hides numerous variables that can lead to misleading conclusions, for instance, the fact that expenses and revenues increase and decrease at different rates due to a variety of factors, including changes in the number of vessel calls and shifts and potential changes in non-essential expenses and benefits which PSP counts in their expenses. For instance, when there are more vessels calling Puget Sound, the pilot boat is in service more, burning more fuel, utilizing more staff, and requiring more dispatch services. This can increase overall PSP expenses, but so long as the growth in vessel revenues also provides additional revenues, then the average additional costs to PSP of these expenses are covered.

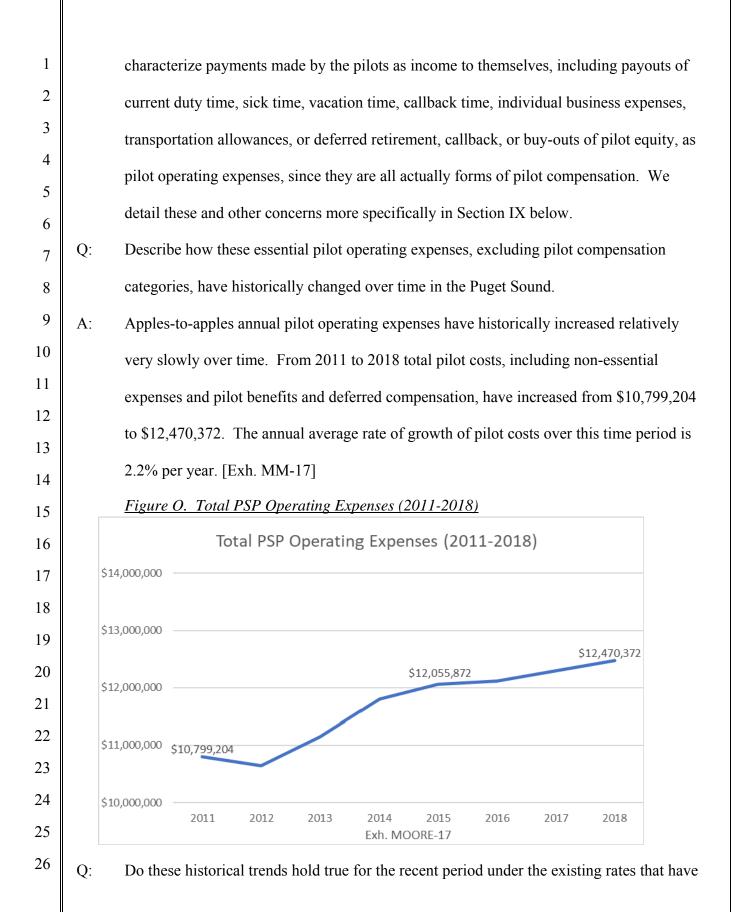
Q: Are there other ways in which Overall PSP Net Income is potentially misleading?

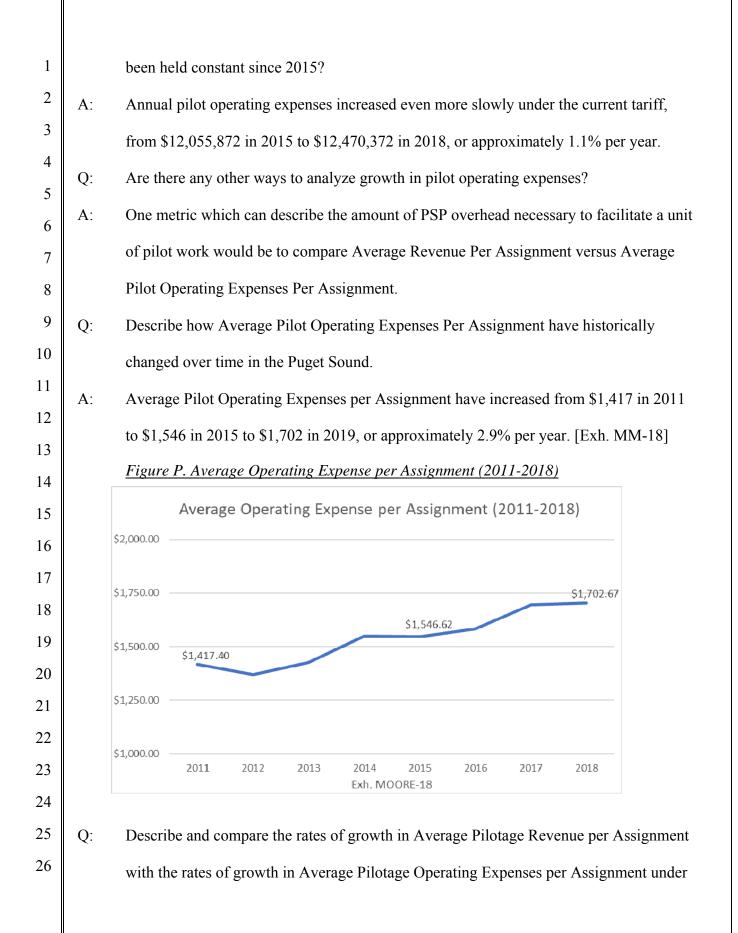
A: We are concerned about the use of Net Income, generally, because it does not account for all the pilot earnings, nor is it normalized for the various changes at the organizational level which occur over time with respect to how PSP books its expenses and internal deferred compensation. So, both of these metrics can yield results that are apples-tooranges.

Q: In order to maintain a comparison of actual pilot operating costs and essential pilot operating costs, are there any categories of actual pilot spending that PMSA would exclude for purposes of the comparison?

A: Yes. We would exclude all payments to pilots as compensation, both current compensation and deferred compensation, and benefits as an expense. We do not

Testimony of Capt. Michael Moore, Exh. MM-01-33





the current tariff where rates have been held constant since 2015. When comparing Average Pilot Revenue per Assignment with Average Pilot Operating A: Expenses per Assignment under the current tariff where there were no rate increases, the growth in Revenues outpaces the growth in Expenses. In 2015, Average Revenues per Assignment exceeded Average Costs per Assignment by \$2,518 per Assignment, and by 2018, the exceedance of Average Revenues over Average Operating Expenses had grown to \$2,798 per Assignment. This means that growth in revenues under the current tariff outpaced growth in pilot operating expenses by 11.1%, or about 3.7% per year. [Exh. MM-13, Exh. MM 18] *Figure Q. Average Revenue per Assignment vs. Average Operating Expense per* Assignment (2011-2018) Average Revenue per Assignment vs. Average Operating Expense per Assignment (2011-2018) \$5,000.00 \$4,500 \$4,064 \$3,903 \$4.000.00 Net Per Assignment \$2,798 \$3,000.00 Net Per Assignment Net Per Assignment \$2,518 \$2,000.00 \$2,486 \$1,702.67 \$1,546.62 \$1,417.40 \$1.000.00 \$0.00 2017 2018 2011 2012 2013 2014 2015 2016

IV. TARIFF REVENUES ARE UNRELATED TO THE NUMBER OF PILOTS & PILOT ASSIGNMENT RULES

Exh. MOORE-13, Exh. MOORE-18

A. The Relationship Between the Tariff and Number of Licensees, Generally

Q: Does the current tariff reflect a specific number of pilot licensees?

Testimony of Capt. Michael Moore, Exh. MM-01-36

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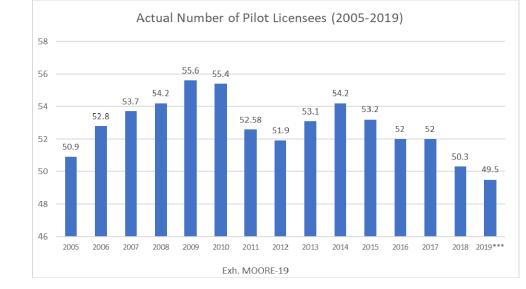
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1	A:	No. There is no specific relationship between the tariff and the number of pilot licensees.
2	Q:	Under the current tariff are there any functions whereby the overall number of pilot
3		licensees are part of a formula paid by vessels?
4	A:	No. The current tariff, as adopted at WAC 363-116-300, and as codified at RCW
5		81.116.050, does not vary by the number of authorized licenses or the actual number of
6		pilots licensed. In addition, the tariff does not vary by the number of pilots on duty, on
7		
8		watch, or actually available to pilot each day, or the number of pilots on vacation, or
9		when all the pilots count a watch day on the same day, or the number of pilots on
10		callback, or the number of pilots on comp days.
11	Q:	Does the tariff increase under any formula when there are increases to the number of
12		pilot licensees?
13	A:	No.
14		
15	Q:	Does the tariff decrease under any formula when there are decreases to the number of
16		pilot licensees?
17	A:	No.
18	Q:	If there is no formulaic relationship between the tariff and the number of pilots working
19		or licensed, how does the tariff generate more revenues for pilots when there are more
20		assignments and vessels needing pilot services?
21	A .	
22	A:	Simply stated, when there are more vessel calls and pilots provide more service, overall
23		pilot earnings increase based on larger per vessel revenues and additional vessels
24		demanding pilot service. When there are fewer vessel calls and pilots provide less
25		service, pilots can still increase earnings based on larger per vessel revenues even
26		without additional demand for pilot service.

B. Number of Actual Licensed Pilots in the Puget Sound

What has been the number of pilots actually licensed by the BPC from 2005 to 2019?
The annual number of pilots actually licensed by the BPC from 2005 to 2019 fluctuated from a high of 55.6 in 2015 to a low of 49.5 in 2019. [Exh. MM-19] The average annual number of pilots from 2005 to 2019 is 52.8 pilots per year.

Figure R. Actual Number of Pilot Licensees (2005-2019)

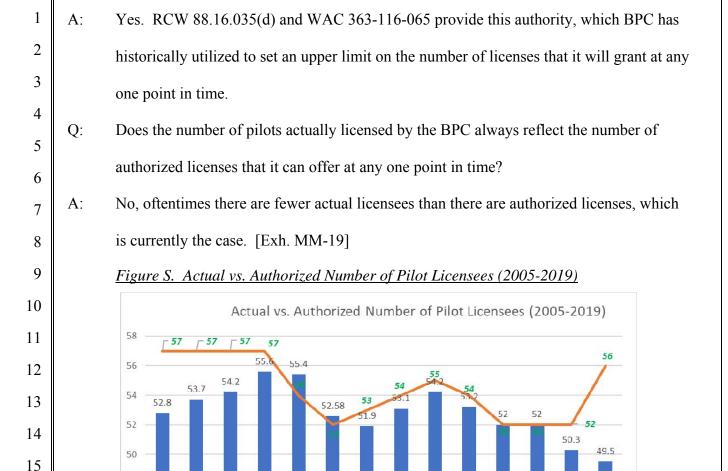


How does this compare with the number of pilots actually licensed by the BPC under the current tariff period from 2015 to 2019?

A: 2015 to 2019 is a period of low numbers of pilots actually licensed by the BPC when compared to historical averages. 2016, 2017, 2018, and 2019 were all below the historic average of 52.8 pilots licensed per year, and demonstrate a consistent reduction in the size of the pilotage corps from a peak at 53.2 in 2015 to the lowest annual number of pilots of 49.5 in 2019. 2019 is the only year where the annual number of licensed pilots has dipped under 50. [Exh. MM-19]

Q: Does the BPC have the authority to limit the number of authorized licenses that it can offer at any one point in time?

Testimony of Capt. Michael Moore, Exh. MM-01-38



Q: Please provide an example of this scenario at present.

Actual Pilots Licensed* Fxh. MOORE-19

A: For example, last July, at the request of PSP to increase the number of authorized licenses in advance of the submission of this Petition, the BPC agreed to increase the number of authorized licenses to 56 from 52. [Exh. JR-17]. However, simply changing an authorization for a future number of licensees does not immediately change the number of working pilots. But, by the end of 2019, there were still only 51 licensed pilots [Exh. JR-09] - not only well below 56, but still below the prior authorized licensed

2018 2019***

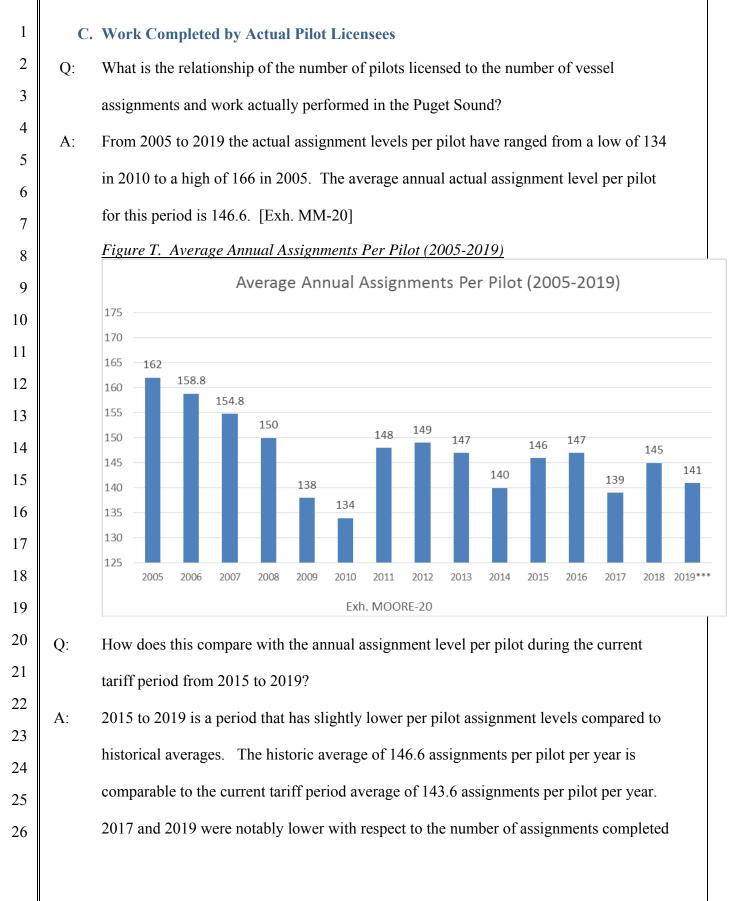
Testimony of Capt. Michael Moore, Exh. MM-01-39

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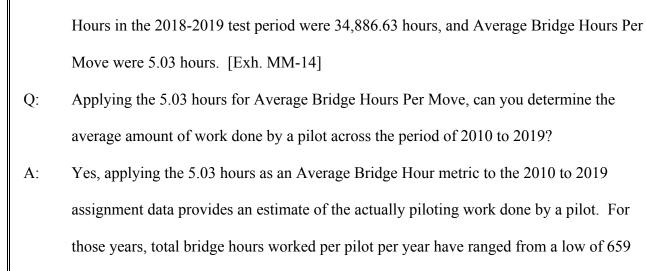
amount of 52.

- What factors does the BPC consider when changing the number of authorized licenses? **O**: A number of factors are listed in WAC 363-116-065, including the current economic A: trends in the industry, fluctuations in the number of calls, the types of assignments, the size of vessels, the cyclical nature of the traffic and whether traffic is increasing or decreasing. The BPC also receives input on the actual average assignment level for a pilot per year compared to the Board-set Target Assignment Level (TAL). Have requests from PSP to change the number of pilots been consistent from year to year Q: with respect to the need to increase or decrease the number of pilots? No, the most recent requests by PSP are contradictory and inconsistent with prior A: requests. Upon comparison, PSP's various requests for changes impacting the current tariff period do not reflect previous methodology, formula, or policy. For example: there were 7,795 assignments in 2015, the same year that PSP requested a decrease of working pilots down to 52 authorized licensees [Exh. JR-18]; but, by comparison, when there were 6,993 assignments in 2019, PSP sought to add the largest number of new pilots ever, up to 63 licensees. [Exh. JR-17]. These positions are wholly inconsistent with one another and belie the lack of a clear policy or theory for setting the number of pilots via recommendations from PSP over the current tariff period. In the most recent actions taken by BPC under the current tariff to authorize an increase Q: in the number of authorized licenses from 52 to 56, did the BPC change the average target assignment level? No, the BPC declined to change the target assignment level from 145 despite increasing A:
 - the number of authorized licenses to 56 from 52 in 2019. [Exh. JR-17]

Testimony of Capt. Michael Moore, Exh. MM-01-40



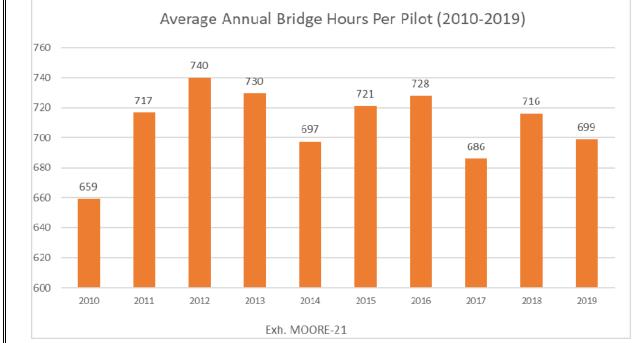
1		per pilot, with 2019 approximately 5 assignments per year per pilot lower than the
2		historic average. [Exh. MM-20]
3	Q:	How does the annual assignment level per pilot during the current tariff period from 2015
4		to 2019 compare to the current target assignment level set by the BPC?
5	A:	The current tariff period is very well correlated with the BPC current Target Assignment
6		Level, which continued to be set by the BPC at 145 in July 2019 [Exh. JR-17]. The
7		
8		current tariff period average of 143.6 assignments per pilot per year is slightly below the
9		145 target. Moreover, the actual assignment average in 2018 was 145 - spot on with the
10		target assignment level.
11	Q:	What is the significance of the average number of assignments by pilots being lower in
12		the current tariff than the historic average?
13	A:	Pilots in the Puget Sound are, on average, doing significantly less piloting per pilot now
14		
15		than in the period of 2005-2008. Specifically, compared to the productivity peak in
16		2005, pilots in 2019 performed 21 fewer jobs per pilot, or about 13% fewer, than the
17		average pilot did in 2005. [Exh. MM-20]
18	Q:	Does this leave a significant amount of time when pilots are not working?
19	A:	Yes, the average annual assignment per pilot was 141 in 2019. Even if one were to
20		presume that every single pilot assignment (including cancellations) was a representation
21		
22		of a full day's work – which it most assuredly is not – this would still leave 224 days of a
23		year when pilots are not providing pilotage services to a vessel.
24	Q:	Could one calculate the average bridge hours needed to provide services to a vessel?
25	A:	Yes. Bridge Hours is a subset field of the Revenue Calculations spreadsheet at Exh.
26		WTB-11. After making some adjustments for anomalies in the spreadsheet, total Bridge



in 2010 to a high of 740 in 2005. The average annual bridge hours per pilot for this

period is 709. [Exh. MM-21]





Q: What does this bridge hour calculation demonstrate about the amount of time when pilots are not working?

A: In 2019, the 699 bridge hours that each pilot worked on average breaks down to 58.25 average bridge hours per pilot per month. Since each month has on average 730.5 hours,

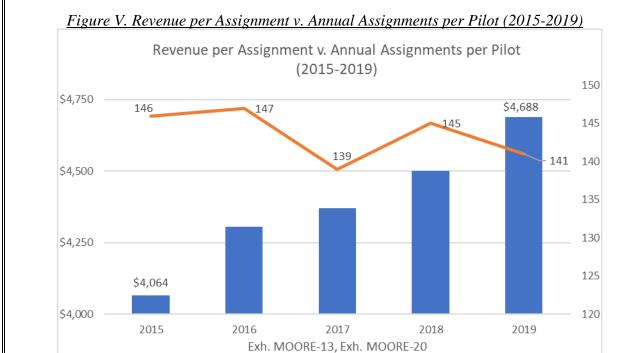
Testimony of Capt. Michael Moore, Exh. MM-01-43

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Q:

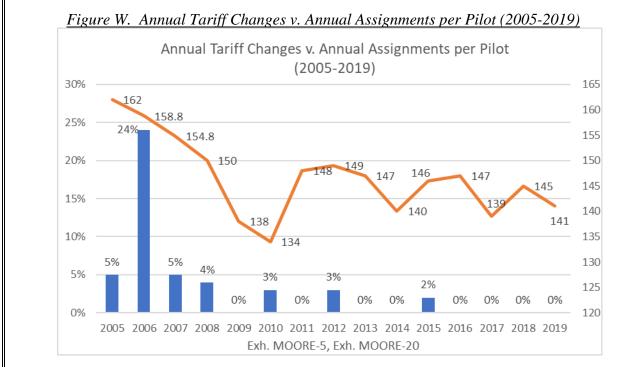
pilots are, on average, not piloting or providing pilotage services to a vessel for 672.25 of those hours. D. There Is No Correlation Between the Tariff and Number of Pilots, But as Pilots Work Less, They Earn More What is the relationship between average pilot assignments and revenue per assignment? So long as average revenues per assignment are increasing and the average number of

A: pilot assignments is flat or decreasing, pilots are earning more while working less. During the current tariff period, the average number of assignments by pilots have decreased over time from 146 and 147 in 2015 and 2016 to141 in 2019. [Exh. MM-20]. Over the same time, average revenue per assignment has grown from 2015 at \$4,064 per assignment to \$4,688 in 2019. [Exh. MM-13]. In sum, pilots have seen a slight decrease in their workload of -3.5% during the current tariff period while enjoying increases in their revenues per assignment of +15.4%.



Testimony of Capt. Michael Moore, Exh. MM-01-44

Q: Is there a correlation between average annual pilot assignments and changes in the tariff?
A: No. The tariff establishes a cost of service for a particular ship and a particular transit. It does not adjust with pilot workloads, and the number of average annual pilot assignments is not adjusted by the tariff. There are no formulaic ways in which the number of pilot licensees are related to the cost of service put forward in the tariff. This is borne out in a graphical comparison of these two factors. [Exh. MM-5, Exh. MM-20]



Q: Describe how tariff change trends and annual assignment per pilot trends compare.
A: The only clear trend which is apparent from the complete historic comparison of these variables is that they are unrelated. When rates are held constant, such as in 2009, 2011, 2013, 2014, 2016, 2017, 2018, and 2019, the assignment levels vary with increases up and decreases down just as frequently. These changes are not the result of changes in the tariff. There was one subset trend of note, that in the period of consistent rate increases on an annual basis, from 2005-2008, every year thereafter, from 2006-2009, saw

Testimony of Capt. Michael Moore, Exh. MM-01-45

decreases in the annual assignments per pilot. If this is indeed a corollary trend, then if the goal of a rate adjustment is to improve pilot workload, efficiency, and reduce callback stressors, then one should avoid periods of ongoing rate increases.

- Q: Is there any correlation between the overall number of licensed pilots and changes in the tariff?
- A: No. A historic review of the number of pilot licensees reinforces the fact that when BPC makes changes to the number of authorized pilot licensees and has made changes to the tariff that these changes were not correlated. Every peak and valley with respect to the number of authorized pilot licenses occurred in a year with a 0% tariff increase: 2009 peak at 57 with a 0% tariff change, 2011 trough at 52 with a 0% tariff change, 2014 peak at 55 with a 0% tariff change, 2016-2018 tough at 52 with a 0% tariff change, and 2019 with a peak at 56 authorized pilot positions but still with a 0% tariff change. [Exh. MM-5, Exh. MM-19]

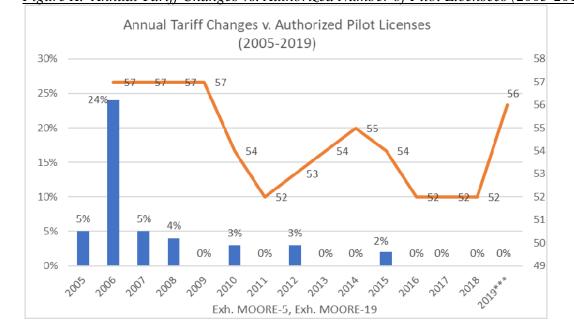


Figure X. Annual Tariff Changes vs. Authorized Number of Pilot Licensees (2005-2019)

Testimony of Capt. Michael Moore, Exh. MM-01-46

1	E.	Assignment Levels of Individual Pilots Vary Widely Within PSP
2	Q:	Is it possible to see beyond the average assignment level to analyze the actual amounts of
3		work that individual pilots do?
4	A:	Yes, one can analyze the individual workload of each pilot based on the PSP Earned
5		Revenue Reports required to be provided to the BPC. [Exh. JR-6]
6	Q:	Which pilots in 2018 had the highest assignment levels above PSP's average assignment
7	C.	level that year of 145?
8		
9	A:	In 2018, three pilots with the highest number of assignments included individuals with
10		222, 191, and 183 assignments. [Exh. MM-22]
11	Q:	Which pilots had the lowest 2018 assignment levels below the annual target assignment?
12 13	A:	In 2018, the four pilots with the lowest number of assignments, setting aside others that
13 14		had lower workloads due to injury or retirement, included individuals with 89, 112, 113,
15		and 118 assignments. [Exh. MM-23]
16	Q:	Is it fair to say that there is a wide variety of assignment levels of pilots within PSP?
17	A:	Yes, the range of assignment levels within PSP in 2018 was between 222 assignments
18		and 89 assignments.
19	Q:	Are these wide variations in assignment levels within PSP a normal and regular
20		occurrence?
21		
22	A:	Yes, there are many different workloads amongst pilots, both above and below the
23		average assignment level. Because BPC regulates to an average assignment level, the
24		required reporting focuses on average assignment levels, and as PSP pays an average net
25		income a casual observer might presume that all pilots are doing about the same amount
26		of work, but a closer review demonstrates quite a wide variation of workloads.

1 0: How would you describe the impacts of having significant differences in actual 2 assignment levels amongst pilots and large deviations from the average pilotage 3 assignment level? 4 A: The PSP watch system is inefficient, and this inefficiency results in an outcome which 5 allows most pilots to be flexible and maximize their time not working. As the 6 watchstanding policies prioritize schedule flexibility for pilots, individual pilots can 7 choose to be more productive or less productive with their time and can choose when to 8 9 participate in callbacks and when not to participate in callbacks. Q: Can or should one presume that licensed pilots with higher assignment levels were or are more likely to be involved in a vessel incident or safety occurrence? A: No. So long as all of these pilots remain licensed and regulated by the State of Washington through the BPC, ratepayers, the UTC, and the public should be able to presume a level of piloting safety, competency, and skill in accordance with their licensing, training, standards of care, state and federal law, and with utmost regard for safety, fatigue, and competency. If there is any deviation from these norms, such deviations would be reported, investigated, and, if necessary, mitigated by regulators including the BPC and Coast Guard as appropriate. Q: Have any identified "high assignment" pilots submitted notice of a violation of rest rules? A: Pilots are required to report fatigue and submit violations of rest rules under RCW 88.16.103. To our knowledge, BPC has not received any such reports and no such violation has been reported in the BPC Annual Reports. Q: Do you have any basis to believe that any of the licensed pilots with the highest

Testimony of Capt. Michael Moore, Exh. MM-01-48

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assignment levels in 2018 were any less safe, skilled, rested, or competent than any other licensed pilots?

A: No.

Q: Aside from the incident mentioned below, do you have any basis to believe that any of the other licensed pilots with the lowest assignment levels in 2018 were any less safe, skilled, rested, or competent than any other licensed pilots?

A: No.

Q: Relying on the BPC incident data, is it possible to draw the conclusion that pilots with fewer days off are less safe or more fatigued than other licensed pilots?

A: No. To the contrary, in 2018, the BPC Annual Report identified only one incident where a pilot suffered from fatigue: "The assigned pilot fell asleep on the bridge. At no time was the vessel in danger of grounding or collision. The Board issued a reprimand with the requirement for a specific training exercise. The Board also revised the policy for the resumption of duties out of rotation." That incident did not involve a pilot with higher than average assignments, it involved a pilot with lower than average assignments and, a pilot that was presumably well-rested as he was coming off of a period of non-pilotage. [Exh. JR-6]

Q: On the basis of the BPC incident reports, can you draw any conclusions regarding pilot safety on the basis of the number of assignments completed by pilots?

A: No, there are no trends implicated by a single data point with respect to the pilot with very few assignments and there are no other incidents which pointed to fatigue as a basis for discipline, whether by pilots with very many assignments or very few assignments.

Testimony of Capt. Michael Moore, Exh. MM-01-49

F. The Tariff Does Not Determine Pilot Workload Decisions or Net Income Per Pilot Q: Is there any provision of the tariff which requires a specific division of pilot workload or a workload formula to determine average pilot Net Income? A: No. Q: Could pilots choose to divide their Net Income on a pro-rata share or on some other comparable basis which is commensurate with their actual workloads? Yes. A: 0: Theoretically, if pilotage was provided in 2018 at the maximum actual per pilot assignment level of 222 assignments [Exh. MM-22], how many pilots would have been needed to move all of the vessels that called on the Puget Sound that year? A: In 2018, at the actual high per pilot assignment level of 222, only 33 pilot licensees could have completed all of that year's 7,324 assignments. [Exh. MM-12, Exh. MM-22]. Q: If PSP had only 33 working licensees in 2018, and all of these pilots shared all of the same PSP-reported Gross Income, Costs, and Net Income in 2018, what would the average net income per pilot have been in 2018? A: In 2018, with the reported "Balance of Pilotage Revenue Pooled" of \$20,245,370 (Exh. JN-04, pg. 22), if PSP had 33 licensees, plus 1 for the non-working PSP President, the Average Net Income per pilot would have been \$595,452. That is equal to 2.9% of the total pooled net revenue of PSP. So, if pilots were paid for work at the maximum assignment level actually logged and Q: done safely in 2018, the current tariff would be capable of providing these pilots with an average net income of \$595,452 per year? A: Yes.

Testimony of Capt. Michael Moore, Exh. MM-01-50

1	Q:	If pilotage was provided in 2018 at the lowest per pilot assignment level of 89
2		assignments, how many pilots would be needed to move all of the vessels that called on
3		the Puget Sound in 2018?
4 5	A:	In 2018, at the actual lowest level of 89 assignments per year, 83 pilots would have been
6		required to complete all of that year's 7,324 assignments. [Exh. MM-20, Exh. MM-23].
7	Q:	If PSP had 83 working licensees in 2018 who shared all of the same PSP-reported Gross
8		Income, Costs, and Net Income in 2018, what would the average net income per pilot
9		have been in 2018?
10	A:	In 2018, with the reported "Balance of Pilotage Revenue Pooled" of \$20,245,370 (Exh.
11		JN-04, pg. 22), if PSP had 83 licensees, plus one for the non-working PSP President, the
12		Average Net Income per pilot would have been \$241,016. That is equal to 1.2% of the
13		total pooled net revenue of PSP.
14 15	Q:	So, if pilots were paid for work at the minimum assignment level which was actually
16		logged by a full-time, non-injured pilot in 2018, the current tariff would be capable of
17		providing these pilots with an average net income of \$241,016 per year?
18	A:	Yes.
19		
20	Q:	Is it fair to say that under this theoretical methodology of adjusting the number of pilots,
21		the current tariff is capable of producing a range of pilotage average Net Incomes of
22		\$241,016 to \$595,452 in 2018 without any other changes in the rates?
23	A:	Yes.
24	Q:	Is this range of possible Net Incomes in 2018 consistent with a pro rata share analysis of
25		assignments and Average Net Income Per Pilot?
26	A:	Yes, considering Average Net Income per Assignment in 2018 was \$2,796.82 [Exh.
	Testin	nony of Capt. Michael Moore, Exh. MM-01-51

MM-24] The pro rata income of the highest producing pilot at this Net Income per Assignment rate is \$620,894. The pro rata income of the lowest producing pilot at this Net Income per Assignment rate is \$248,916. Under this pro rata methodology, the range of revenues capable of being generated by the current tariff is very comparable. Q: Is it fair to say that under this analysis of a pro rata share, the current tariff is capable of producing a range of pilotage average Net Incomes of \$248,916 to \$620,894 in 2018 without any other changes in the rates? A: Yes. Q: Are these estimates of pro rata Net Incomes in 2018 consistent with an evaluation of the percentage share of overall revenues earned versus an average? A: Yes, utilizing the PSP Earned Revenue Reports for 2018 [Exh. JR-6], of the highest assignment pilots the largest producing pilot earned gross pilotage revenues of \$1,174,065. Of the lowest assignment pilots, the lowest earned gross pilotage revenues were \$246,332. [Exh. MM-22, Exh. MM-23] Comparing these revenue shares against the total Pilotage Revenue of 2018 of \$33,996,799 (Exh. JN-04), the highest and lowest revenues represent 3.45% and 0.72%, respectively. Q: What is the range of Net Incomes in 2018 which could be estimated by this methodology? A: Applying these percentages to the reported "Balance of Pilotage Revenue Pooled" of \$20,245,370 (Exh. JN-04, pg. 22), the current tariff is capable of producing a range of pilotage average net Incomes of \$145,767 to \$698,465. Q: Using the Pro Rata Share range of possible net incomes described above, please describe the difference in income between the actual Average Net Income distribution and to what

Testimony of Capt. Michael Moore, Exh. MM-01-52

1	extent then the pilot who worked the most assignments in 2019 could have beer	n noi
	extent then the phot who worked the most assignments in 2017 could have been	n pai
2 A:	The pilot in 2019 who performed the maximum number of assignments safely e	earne
;	PSP-reported Net Income of \$402,219 (Exh. JN-04, pg. 22) instead of the Net I	Incon
ŀ	could have earned at \$620,894. This represents a difference in income of -\$218	8.675
Q:	Using the Pro Rata range of possible net incomes described above, please descr	
Q.		
	difference in income between the actual Average Net Income distribution and to	
	extent then the pilot who worked the least assignments in 2018 could have been	-
A:	The pilot who performed the minimum assignments in 2018 also earned a PSP-	-repo
	Net Income of \$402,219 (Exh. JN-04, pg. 22) instead of the Net Income he cou	ıld ha
	earned at \$248,916. This represents a difference in income of +\$153,303.	
Q:	What is the difference in the range of these pro rata net income variances?	
Q: A:	What is the difference in the range of these pro rata net income variances? The difference in the range of potential incomes from the \$248,916 to \$620,894	4 pos
Q:		-
Q: A:	The difference in the range of potential incomes from the \$248,916 to \$620,894	71,97
	The difference in the range of potential incomes from the \$248,916 to \$620,894 under the current tariff, if pilots had chosen a pro rata net income model, is \$37 <i>Figure Y. Pro Rata Net Income Variances for Highest and Lowest Assignment I</i> Pro Rata Net Income Variances for	71,973
	The difference in the range of potential incomes from the \$248,916 to \$620,894 under the current tariff, if pilots had chosen a pro rata net income model, is \$37 <i>Figure Y. Pro Rata Net Income Variances for Highest and Lowest Assignment I</i> Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots (2018)	71,973
	The difference in the range of potential incomes from the \$248,916 to \$620,894 under the current tariff, if pilots had chosen a pro rata net income model, is \$37 <u>Figure Y. Pro Rata Net Income Variances for Highest and Lowest Assignment P</u> Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots (2018)	71,973
	The difference in the range of potential incomes from the \$248,916 to \$620,894 under the current tariff, if pilots had chosen a pro rata net income model, is \$37 <i>Figure Y. Pro Rata Net Income Variances for Highest and Lowest Assignment P</i> Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots (2018) \$700,000 \$620,894 \$600,000 \$500,000 Average Net Income Paid	71,973
	The difference in the range of potential incomes from the \$248,916 to \$620,894 under the current tariff, if pilots had chosen a pro rata net income model, is \$37 <i>Figure Y. Pro Rata Net Income Variances for Highest and Lowest Assignment P</i> Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots (2018) \$700,000 \$620,894 \$600,000 \$500,000 Average Net Income Paid \$400,000	71,973
	The difference in the range of potential incomes from the \$248,916 to \$620,894 under the current tariff, if pilots had chosen a pro rata net income model, is \$37 <u>Figure Y. Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots (2018)</u> Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots (2018) \$700,000 \$620,894 \$600,000 \$500,000 \$500,000 \$500,000 \$400,000 \$300,000 +\$153,303	71,973
Q: A:	The difference in the range of potential incomes from the \$248,916 to \$620,894 under the current tariff, if pilots had chosen a pro rata net income model, is \$37 <i>Figure Y. Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots</i> Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots (2018) \$700,000 \$620,894 \$600,000 \$500,000 \$500,000 \$500,000 \$620,894 \$600,000 \$500	71,973
Q: A:	The difference in the range of potential incomes from the \$248,916 to \$620,894 under the current tariff, if pilots had chosen a pro rata net income model, is \$37 <u>Figure Y. Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots (2018)</u> Pro Rata Net Income Variances for Highest and Lowest Assignment Pilots (2018) \$700,000 \$620,894 \$600,000 \$500,000 \$500,000 \$500,000 \$400,000 \$300,000 +\$153,303	71,97

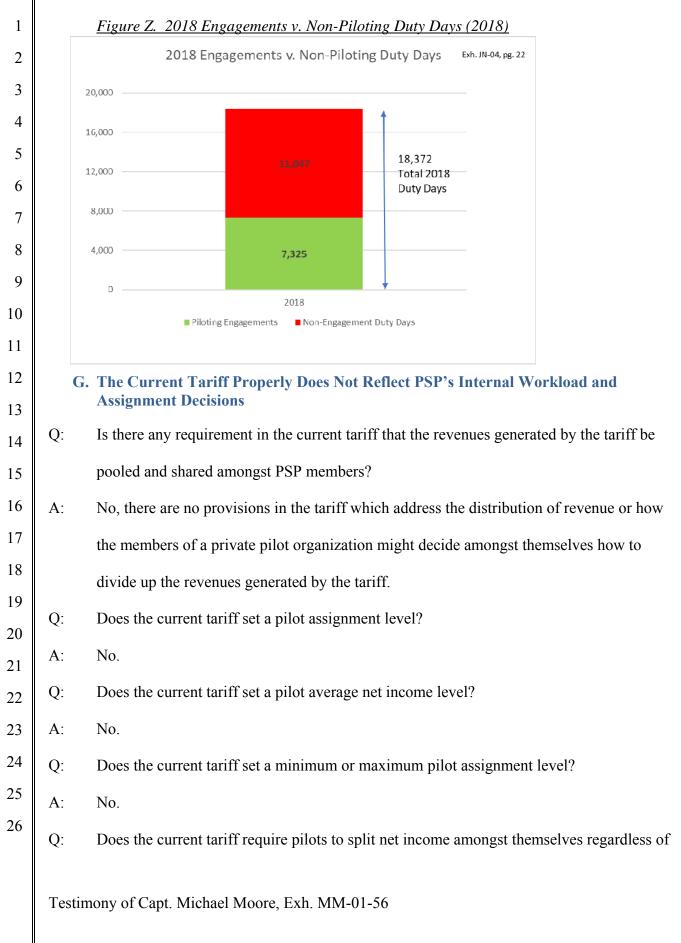
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1	A:	The reason why pilots are paid the same relative to each other is because PSP by-laws
2		require that all revenues and all expenses be pooled and then earnings are distributed on
3		the basis of a specific formula to PSP members. PSP members have decided amongst
4		themselves that they would prefer not to be paid on the basis of the work actually
5		
6		performed by each individual pilot but by collective redistribution of revenue per this
7		formula, which is described as based on "days of service." As a practical matter, what
8		this meant in 2018 was that nearly everyone in PSP was paid the average Net Income of
9		\$402,219 based on 365 "days of service" but completely independent of any actual work
10		that was completed. (Exh. JN-04, pp. 22-26)
11	Q:	What is the difference between a "day of service" and when a pilot is earning a "duty
12		day"?
13		
14	A:	The terms are used interchangeably in the PSP Audited Financials. For example, a "day
15		of service" is defined as "the total number of days the pilot was an active pilot on pilot
16		roster." Financials. JN-04, pg 26, (A)(a). In 2018, the "Schedule of Days of Service and
17		Distribution of Pilotage Revenue and Expense" demonstrated a total of 18,372 "Days of
18		Service" with nearly every pilot (all pilots other than those which retired or starting to
19		pilot in 2018) being credited with 365 days of service Financials. JN-04, page 22 and pp.
20		
21		23-25, column (1). In the summary of the financials, the 18,372 "Days of Service" are
22		described as "Total annual duty days" in a section named "FEATURES OF
23		INDIVIDUAL DISTRIBUTIONS" and the determination of the size of the working pilot
24		roster is described as "duty days divided by days in year, rounded to nearest tenth."
25		Financials. JN-04, pg 262 (A)(1)-(2)1. In short, according to PSP's Audited Financials,
26		every day that a pilot is on the PSP roster, that pilot is "on duty" – and at 365 days of
	1	

service credited every year, every pilot is always "on duty."

- Q: When a pilot is on a "duty day" does that mean that a pilot is working an assignment, moving ships, and generating revenue under the tariff?
- A: No. Standing by in the region and waiting to be called to work is what PSP categorizes as a pilot "duty day" and, as noted above, a pilot "duty day" can also just be a day that a pilot was active and on the roster. A "duty day" includes days "on watch" but performing no service and days where pilots are doing nothing more than being listed on the PSP roster, neither of which is the same as actually performing piloting duties on board a ship.
- Q: With respect to the tariff, is there any revenue associated with a pilot standing "duty" if the pilot is not providing a service to a vessel?
- A: No. The tariff is a schedule of payments to be made by vessels to pilots for services provided, so when pilots are not working, even if standing "duty," that pilot is not earning revenues under the tariff.
- Q: Can you show where PSP has acknowledged actual working engagements under the tariff and compared pilots' actual working assignments with their "duty days"?
 A: Yes, in the PSP Audited Financials, PSP compares "Total annual duty days" to overall "Piloting engagements." For example, in 2018, while there were pilots on "duty" for 18,372 days that year, pilots only performed 7,325 "Piloting engagements." PSP Financials, JN-04, pg. 22, (A)(1)-(3). Assuming each pilot engagement was equal to one day of service per pilot, in 2018 there were 11,047 days of pilots who were on "duty" but not working, which means that pilots were not working on 60.13% of their "duty" days.

Testimony of Capt. Michael Moore, Exh. MM-01-55



assignments actually completed by any individual pilot?

A: No.

Q: Does the current tariff control how and when PSP divides up revenues generated by pilots pursuant to PSP by-laws?

A: No.

Q: Does PMSA believe that PSP as a private entity should be able to choose to share resources and revenues amongst its members as it sees fit, independent of the tariff?
A: Generally, yes, so long as the tariff is set lawfully, PSP is transparent with the public and ratepayers, and pilots are following all state and federal laws. If those requirements are met, then PMSA concurs that pilots may decide amongst themselves privately how to pool and distribute their revenues and expenses so long as they do not create inefficiencies that undermine service and increase cost.

Q: Why do you believe that PSP's internal decisions should be respected in the UTC process?

A: So long as the tariff is fair, just, reasonable, and sufficient, then under the current system the costs to vessels will remain the same regardless of how pilots choose to subsequently pool and divide their revenues and expenses amongst each other. If these matters are truly kept private, and PSP does not attempt to make its internal decisions about revenue sharing a basis for a rate increase (or for a service disruption), it should matter little to the state or to ratepayers how pilots choose to keep their earnings in the year they are earned, including a decision to enter into a collective deferred compensation agreement amongst themselves to pay out earnings subsequent to billing in a future year.

Q: Does PMSA believe that PSP's choice to share resources and revenues amongst itself as

Testimony of Capt. Michael Moore, Exh. MM-01-57

it sees fit independent of the tariff should directly impact tariff setting?

A: Generally, no. PSP can specifically choose amongst its membership to make inefficient decisions under its own by-laws. This was illustrated in Subsection F above, whereby the highest assignment pilot surrendered an estimated \$218,675 pro rata in 2018, while the lowest assignment pilot benefitted by an estimated \$153,303 pro rata in 2018, purely of their own accord. While tariff rates are presumptively set for efficient operations, if the pilots privately insist on setting up inefficient incentives for pilots, that inefficiency should not be used as a justification to adjust rates.

Q: Do the BPC and UTC have an obligation to prevent inefficiency in the tariff itself?

A: Yes. The Board has duties to ensure efficiency in the pilotage system and in setting the number of pilots under the Pilotage Act. RCW 88.16.035. Likewise, the UTC must set rates for the efficient delivery of a regulated service and should not set rates supporting inefficiency. If PSP subsequently chooses to act privately in an inefficient manner, PSP should not then turn around and claim that the current tariff is unfair or unreasonable based on its own decisions on how to allocate workload and subsequently divide moneys generated by the tariff.

Q: Is it PMSA's position that the current average net income is primarily a construction of PSP's internal by-laws, and it is not a measure of either an adequate or an inadequate tariff?

A: Yes, under the current tariff revenues are not a function of the number of pilot licensees nor is the number of pilot licensees related to the revenues generated by the tariff. The tariff generates revenues from vessels per pilotage task performed and does not generate revenues based on a number of pilots expecting to share the revenues from vessel tasks

Testimony of Capt. Michael Moore, Exh. MM-01-58

1		performed. There are many ways in which PSP and individual pilots certainly might be
2		interested in the relationship between the number of pilots and the tariff, but those issues
3		are related to their own internal determinations of how to divvy up pilotage revenues
4		amongst themselves subsequent to it being earned under the current tariff. The real
5		question in our view is whether the tariff is fair and sufficient to provide the service.
6		
7	Q:	Is this true for the proposed PSP tariff that is the subject of this Petition?
8	A:	Yes, under the proposed tariff revenues remain independent of the number of pilot
9		licensees still, and despite the arguments made to justify an increased tariff on the
10		number of pilots, PSP is under no obligation to sustain such a number of pilot licensees.
11	Q:	Does PMSA view PSP management of watch standing, vacation, comp days, meetings,
12		and assignment dispatch to be efficient?
13		
14	A:	No. We believe that with a more efficient dispatch and watch standing system PSP has
15		more than enough pilots with more than enough days of the year where they are not
16		piloting to safely provide pilotage services while minimizing callback days and
17		eliminating delays. Given this, it seems that the recent requests for more pilots at the
18		BPC and in this petition for increasing overall tariff charges are based less on a need for
19		additional pilots to complete assignments and more on a desire to secure higher pay for
20		
21		less work without instituting improvements to PSP's watch and callback systems to
22		better match rested pilots to demand.
23	Q:	Do you believe it would be appropriate for PSP's internal decisions on how to share
24		revenues to dictate a finding of whether or not a tariff is fair and reasonable?
25	A:	No, absolutely not. If PSP wanted its pilots who worked more to get paid more, it could
•		

guarantee that outcome immediately under the current tariff by simply amending its by-

Testimony of Capt. Michael Moore, Exh. MM-01-59

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laws to pay pilots on a pro rata share for their actual work performed. If they had done so in 2018 the current tariff was capable of delivering pilot earnings pro rata to the hardest working pilot of up to \$620,894. Of course, that would also mean that other pilots who actually worked less than the average pilot would also earn less. This outcome is antithetical to what PSP is asking for in this Petition: a guaranteed increase in average net income while asking pilots to handle fewer vessels – more pay for less work.

V. CALLBACKS ARE NOT A FUNCTION OF THE TARIFF; PILOTS ARE PAID AT THE TIME SERVICE IS RENDERED, AND NO EXTERNAL CALLBACK "LIABILITY" EXISTS

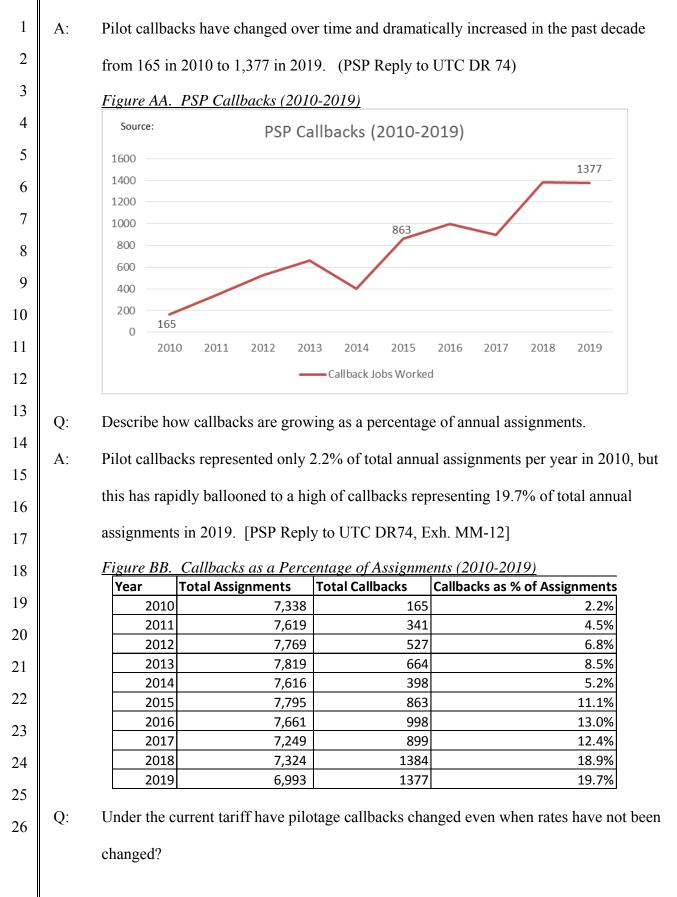
A. Callbacks Exist Independent of Tariff Rate Changes, Number of Pilots, and Pilot Net Income

- Q: Are "callbacks" one of the ways in which PSP members decide amongst themselves how to divide up assignments and the revenues from vessel assignments?
- A: Yes, callbacks are a regular component of PSP's management of its internal assignment
- policies. Callbacks are a function of the PSP By-laws that they have decided to account

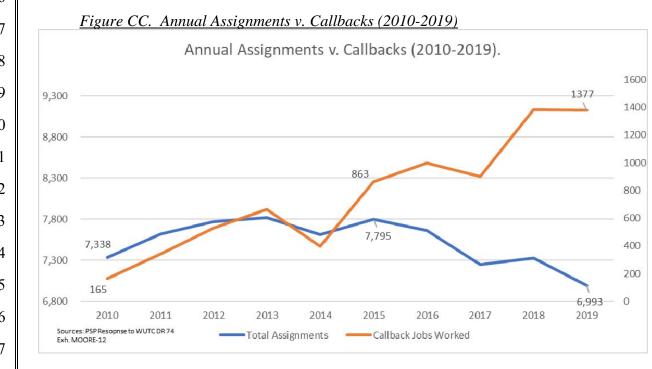
for callbacks in a manner which impacts how they share revenues.

- Q: What is a "callback"?
- A: When PSP establishes its watchkeeping rotation it designates some pilots as on-watch and other pilots as off-watch. A callback occurs when a pilot who is off-watch agrees to take an assignment to move a vessel.
- Q: Is being "on-watch" the same as being on "duty"?
 - A: No. Under the PSP by-laws keeping watch is an internal assignment and scheduling function, while being on duty is a payment and income distribution function.
 - Q: Please describe how callbacks have increased or decreased over time.

Testimony of Capt. Michael Moore, Exh. MM-01-60



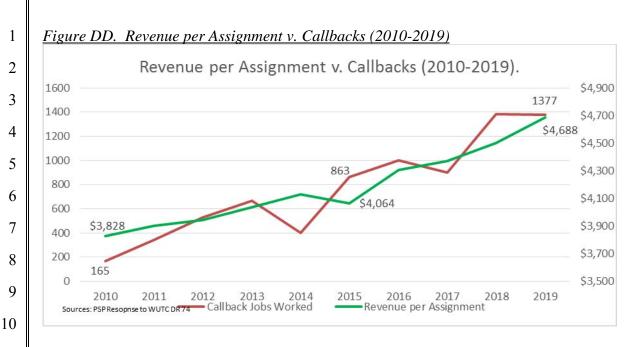
A: Yes, while the rates in the current tariff have not been increased since July 1, 2015, pilot callbacks have increased, even while assignments have dropped. In fact, callback growth was clearly positively correlated with growth in vessel assignments from 2010-2015, but from 2015-2019 callback growth has become negatively correlated with vessel assignments.



Q: Is the growth in callbacks from 2010-2019 correlated with Average Revenue per Assignment?

A: Yes. Average Revenue per Assignment and Callback growth are very clearly correlated.[PSP Reply to UTC DR74, Exh. MM-16]

Testimony of Capt. Michael Moore, Exh. MM-01-62



Q: How would you explain a strong correlation between Revenue per Assignment and growth in callbacks?

A: Under the PSP By-laws pilots get paid under a revenue pooling agreement, so every pilot gets paid a portion of the net revenues earned for every vessel moved. This occurs independent of their own individual workload - even if they refuse a callback. As the rate of pay per assignment increases, underperforming pilots are paid more regardless of their actual assignment level or of that individual pilot's contribution to PSP revenue generation. For a pilot disinclined to work an off-watch job, the higher the revenue per assignment payment climbs the stronger the disincentive to take a callback.
Q: What could PSP do to interrupt this incentive to avoid a callback?
A: Strong watch scheduling, dispatch rules, and management aimed at increasing underperforming pilot workloads are all necessary to counter the disincentive to work. Until that occurs, underperforming pilots will have no incentive to accept more call back assignments or to maximize their availability to pilot while on watch.

Testimony of Capt. Michael Moore, Exh. MM-01-63

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1	Q:	What does this correlation say about the premise underlying the PSP Proposal that
2		increases in tariff are necessary to solve their callback "liability" problem?
3	A:	That is exactly the wrong thing to do at this time. If the growth of callbacks is strongly
4		correlated with growth in average revenue per assignment, then throwing more ratepayer
5 6		money at what is very obviously an inefficiency and a management problem will likely
7		be counterproductive and is likely to make the problem more acute.
8 9	B.	All Services by Pilots Are Paid by Vessels at the Time Services Are Provided Under the Tariff and Therefore No Callback Liabilities Accrue to Vessels
10	Q:	Please describe how vessels pay for pilotage services provided regardless of PSP's
11		internal pilot assignment policies or agreements.
12	A:	When a vessel calls on a port in the Puget Sound, it receives an invoice and pays the
13		current tariff for the pilotage services rendered. A vessel pays the tariff-approved rates
14		no matter whether the pilot was on an A watch or B watch, or on a regular assignment or
15 16		a callback assignment, or whether the pilot only performed 89 vessel assignments per
10		year or whether the pilot performed 222 vessel assignments per year. As far as the
18		vessel is concerned, the service has been delivered and the tariff charge for that service
19		has been paid.
20	Q:	If the service has been provided and the current tariff rate has been paid for that service is
21		there any other future "liability" associated with the provision of that service?
22	A:	No. If PSP has received payment for a pilotage service provided pursuant to the tariff,
23 24		then any effort to collect any revenues other than those imposed exclusively by the tariff
24 25		would be unlawful. RCW 88.16.120.
25 26	Q:	If the collection of additional revenues for a service which has already been provided and

payment received would be unlawful, is it true that any comp day "liability" that exists would exist only on PSP's own books?

- A: Yes. To do otherwise, and to increase the tariff to pay for this "liability," would result in PSP being paid twice for the same service: first by the vessel that actually hired the pilot at the time the service was provided, and second by all of the vessels subject to a new and higher rate at a future time under a future tariff for many future years to come.
- Q: What is an indicator that PSP acknowledges that it manages comp day "liability" internally and independent of the tariff?
- A: One indicator of this is the acknowledgement that the level of the "liability" is exclusively within the control of PSP and can be eliminated through their own scheduling practices. For instance, "because a significant percentage of Callback Days earned by pilots are used to take a day off during their career, those days never required additional funding in the tariff." (Exh. WT-1T)
- Q: Do you agree with this statement?
- A: Yes, when PSP pilots choose amongst themselves to trade their days in order to perform callbacks there is no "liability" here and thus no tariff issue. They are choosing how they distribute their earnings distributions internally, and those decisions do not "require" any additional consideration in tariff setting decisions.
 - Q: Independent of the question as to whether or not the callback system is efficient or a good operating model or not, what is the relationship of this type of assignment to the current tariff?
- A: There is no relationship between the tariff and callbacks because the tariff is not variable based on the number of total assignments by pilots or individual assignments by pilot.

Testimony of Capt. Michael Moore, Exh. MM-01-65

1		Callbacks can be a way to address inefficient matching of pilots to demand and to
2		address reasonably unforeseen pilot demand, but these assignment specifics occur
3		independent of the tariff.
4	Q:	Does the current tariff account for variables in pilot assignments or for the existence of a
5		callback?
6		
7	A:	No. The tariff generates revenues from vessels per task performed, and how PSP has
8		decided amongst itself to share tariff revenues subsequent to the performance of that task
9		and the payment by the vessel is not a variable in the tariff.
10	Q:	Does the proposed PSP tariff account for variables in pilot assignments or callbacks?
11	A:	No.
12	Q:	Should the tariff charge a different rate for the same service based on the internal revenue
13		distribution agreements amongst the pilots of PSP?
14	A:	No.
15	11.	
16 17	C.	Callback Generated "Comp Days" Represent an Internal Agreement on Deferred Compensation
18	Q:	Can pilots choose to share all proceeds from piloting equally and by pooling all vessel
19		revenues on one hand but then create individual debits for some pilots based on a concept
20		of actual work completed on the other hand?
21	A:	It is a situation which defies logic and is wholly internally inconsistent, but as noted
22		above in Section IV. F., PSP has the discretion to make internal decisions that are
23		
24		inefficient, and pilots can agree to transfer payments relative to each other by private
25		agreement.
26	Q:	Why does PSP maintain this internal accounting if it yields illogical results?
	I	

1	A:	We do not presume to know how or why this seems logical for PSP or why they persist
2		with this very expensive system of deferred compensation. We respect that these are
3		PSP's internal decisions. But, on behalf of the ratepayers, we do not agree with the
4		generation of large number of banked "comp days" under these agreements being used to
5		put pressure on the tariff. PMSA believes that it is entirely inappropriate to apply these
6		inherently inefficient and unsustainable internal revenue sharing positions or deferred
7		
8		compensation agreements to the tariff. It is our recommendation that the UTC institute a
9		study of efficiency in order to help restructure the tariff so it creates natural incentives for
10		efficiency, and internal maximization of available pilot talent and internal minimization
11		of costs, and counters the inefficiency which can become endemic for businesses not
12		made subject to competition in a marketplace.
13 14	Q:	Have you reviewed the testimony of Capt. Ivan Carlson at Exh. IC-1T-8-13 and the
15		testimony of Walt Tabler at Exh. WT-1T-17-25?
16	A:	Yes.
17	Q:	What are your general reactions to this testimony with respect to callbacks?
18	A:	PMSA generally disputes the characterizations of industry's positions with respect to
19		callbacks and denies the claims that pilots perform work or have been performing work
20		
21		under the Pilotage Act without compensation or otherwise at their own expense, that the
22		callback system is tied to an increased provision of service not otherwise required of the
23		pilotage monopoly in a compulsory state pilotage system, and that the callback system is
24		an effective form of fatigue management. A pilot that is healthy and licensed and
25		completes 127 assignments per year but then refuses a callback is obviously
26		underperforming. Any pilot who refuses to carry a full, fair share of the workload should

not be empowered to make a decision to not work and still be paid for a duty day as if they had worked. PSP should address those who feel an entitlement to not work, establish an effective management structure that ensures a responsible distribution of work, or create incentives to have rested pilots available. Obviously, PSP should be able to manage a watch schedule where a pilot will actually be able to provide vessel services for 145 days out of 365. Q: Do you believe from this testimony that the PSP Petition is asking for rate increases to cover future "funding for the workload we perform despite our acute understaffing" as well as to reimburse PSP for "all Callback Days that accrued prior to implementation of revised rates" going back to 2005 (IC-1T-13)? A: Yes, that is my understanding. Q: What is PMSA's response to the request for future "funding for workload"? A: We completely oppose this effort to require ratepayers to pay twice for a service previously provided. The tariff does not fund specific pilot workloads. PSP determines its own workloads amongst itself, and those workloads vary widely by pilot. Whether PSP agrees with the number of pilot licenses which are granted by the State of Washington or not, so long as there are no violations of the fatigue or rest rule limitations on the pilots' collective ability to provide services to vessels, pilots are compelled to provide such service. The provision of the compulsory pilotage service remains regardless of whether they agree with the rate set by the tariff, whether they like what they are paid individually by agreement with their fellow pilots, whether they agree with the target assignment levels set by the BPC, or whether they agree with the position of ratepayer representatives in 2005 or 2020. These considerations, including the rates set

Testimony of Capt. Michael Moore, Exh. MM-01-68

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1		in the tariff, are irrelevant to internal pilot decisions about sharing workload.
2	Q:	What is PMSA's response to the request for reimbursement to "fund all Callback Days"
3		since 2005?
4	A:	PMSA vehemently objects to the idea that vessels should pay twice for the same service.
5		Once at the time of service and then again through a higher future rate for a deferred
6		
7		compensation not accounted for at the time of service. Or, worse still, to pay a higher
8		tariff in order to pay for the potential for additional pilots to address PSP-created
9		inefficiencies in their own assignment and dispatch policies.
10	D	Changes to the Tariff Do Not Change Delays, Callbacks, Pilot Productivity, the
11	<i>D</i> .	Number of Pilots On-Watch, Pilot Assignments, or Create Marginal Benefits for
12		Vessels
13	Q:	Do you agree with the testimony of Capt. Carlson that PSP is "obligated to provide
14		efficient and timely service, meaning we move ships on time and without delays if at all
15		possible," and that a component of PSP's obligation to provide a service requires that
16		PSP "call pilots to perform callback jobs" when needed. (Exh. IC-1T-7)?
17	A:	Yes, we agree that state licensed pilots have acted collectively to form PSP as a
18		monopoly responsible for providing compulsory state services and that it is therefore
19		
20		obligated to provide services under the tariff. We further agree that in the event that their
21		regular watch system proves inadequate to provide the services that they are obligated to
22		provide that they need to adjust their watchkeeping in order to provide adequate
23		availability of those on watch and off watch.
24	Q:	Capt. Carlson identifies that pilot shortages and callbacks which cause delays are "first
25		the result of setting the number of pilots at too low a level" and "second the
26		confluence of factors, including a greater mandatory rest period that was needed to

1 address fatigue, a maximum 13-hour time limit on working multiple consecutive harbor 2 shifts, trainees who were unable to complete the training program, and pilots who 3 became medically unfit for duty and were unable to move ships." (Exh. IC-1T-7-8). 4 Setting aside whether you agree or disagree with Capt. Carlson on these specific factors 5 of delay, do you agree with Capt. Carlson's exclusion of tariff rates from the list of 6 factors which cause pilot shortages and vessel delays? 7 A: Yes, I agree with Capt. Carlson's exclusion of the tariff and pilotage rates from the list of 8 9 factors which cause callbacks, delays, and pilot shortages. Adjusting the current tariff 10 will not change callbacks, delays, or pilot shortages. 11 Q: Further regarding the subject of "PSP reliance on callbacks," Capt. Carlson concludes 12 that "[i]f we were properly staffed, callbacks would only occur a small percentage of 13 days in the year. Instead, it seems like our dispatchers are having to beg pilots to take 14 jobs on their respite in order to avoid or limit delays." (Exh. IC-1T-8). Do you agree 15 16 with Capt. Carlson's assessment that callbacks would be reduced with a proper 17 management of its staffing, so PSP need not "beg pilots to take jobs"? 18 A: Yes, absolutely. PSP does not have a shortage of pilots paid and on duty and ready to 19 work. Rather, it is improperly managing its watch and pilot availability. If dispatchers 20 are "having to beg pilots to take jobs," it only serves to prove that the internal incentives 21 set up by PSP are actually disincentivizing some pilots to go to work. To be fair, the facts 22 indicate that there is also a harder-working segment of the pilotage corps that steps up to 23 24 do more than their allotted share of the work. But the fact that others are allowed to sit 25 back, get paid, and watch others do large portions of the work is quintessentially a 26 staffing mismanagement issue, not a resources issue. Therefore, I agree, that if PSP

Testimony of Capt. Michael Moore, Exh. MM-01-70

1		properly managed its pilot resources "callbacks would only occur a small percentage of
2		days in the year."
3		This also affirms that changes in the tariff will not alleviate callbacks, stop delays, or
4		change the number of pilots. Indeed, increasing pilot pay without first addressing pilot
5		staffing and assignment management issues will likely only make the incentive to get
6 7		paid for not working even greater. This is backwards and would force further
8		inefficiency onto customers and into the pilotage system.
9	Q:	Have you reviewed the testimony of Dr. Sami Khawaja at Exh. SK-1T-5 to SK-1T-10?
10	A:	Yes.
11		
12	Q:	Do you agree with Dr. Khawaja that a change to the tariff by the UTC should be based
13		on an assertion of "the marginal benefit of adding a pilot" versus "the marginal cost
14		[which] is the income of the added pilot" (Exh. SK-1T-5)?
15	A:	No. The tariff sets the cost of providing pilotage services to vessels, not the income of a
16		pilot. The income of a pilot is a function of the private by-laws of PSP and is not set by
17		the tariff. There is no specific function of marginal benefit or marginal cost to vessels
18		associated with the number of pilots. Moreover, vessels only pay the published tariff
19		rate, which is not variable with the number of pilots or with pilotage assignments or
20		callback status.
21 22	Q:	Do you agree with the assertion that callbacks "represent time pilots are working while
23		off duty" (Exh. SK-1T-6)?
24	A:	No. According to PSP's Financials, pilots are never off-duty and are credited for 365
25		days of duty time per year. Exh. JN-04, pg. 23-26.
26	Q:	Do you agree with the assertion that there is an identifiable "trend" which "implicates the
	Testin	nony of Cant. Michael Moore, Exh. MM-01-71

need for additional licensed pilots in order to avoid the unpredictable expansion of the callback calculation accrual" (Exh. SK-1T-6)?

A: No, there are no identifiable tariff-related trends which are a variable correlated with callbacks. I do agree with Dr. Khawaja that callback calculation accrual is "unpredictable." This unpredictability is due to lack of management of the watchkeeping system, not the tariff. The tariff is exceedingly predictable. The unpredictability here only serves to confirm that there is no identifiable trend upon which UTC can rely with respect to PSP's callback inefficiencies. And, even if there was a trend of an "expansion" of callback accruals, the simplest, cheapest, and most direct way to avoid such an expansion of callback accruals would be for PSP to make its assignment and watch standing system more efficient, not to raise rates.

Q: Do you agree with the scenario submitted by Dr. Khawaja (Table 4, Exh. SK-1T-6-7) whereby adding new pilots will eliminate callbacks and that there are clear marginal reductions in callbacks associated with adding pilots?

A: No. As mentioned before, there is no clear consistent correlation between adding pilots and reductions in callbacks. It is naïve to believe that adding pilots will reduce callbacks unless PSP adjusts its by-laws to make pilots more available for assignment. Dr. Khawaja believes that there will be fewer vessels and assignments (Exh. SK-1T-4-5), so he doesn't believe callbacks will increase because of additional increases in demand for pilotage assignments. Instead, his only recommendation to reduce callbacks is to increase the number of pilots, so he must believe that there is an insufficient supply of existing pilots and existing pilot duty days. This is simply untrue. Note in the PSP 2018 Financials (Exh. JN-04, pg. 22), there were 11,047 days, over 60% of the 18,372 pilot

Testimony of Capt. Michael Moore, Exh. MM-01-72

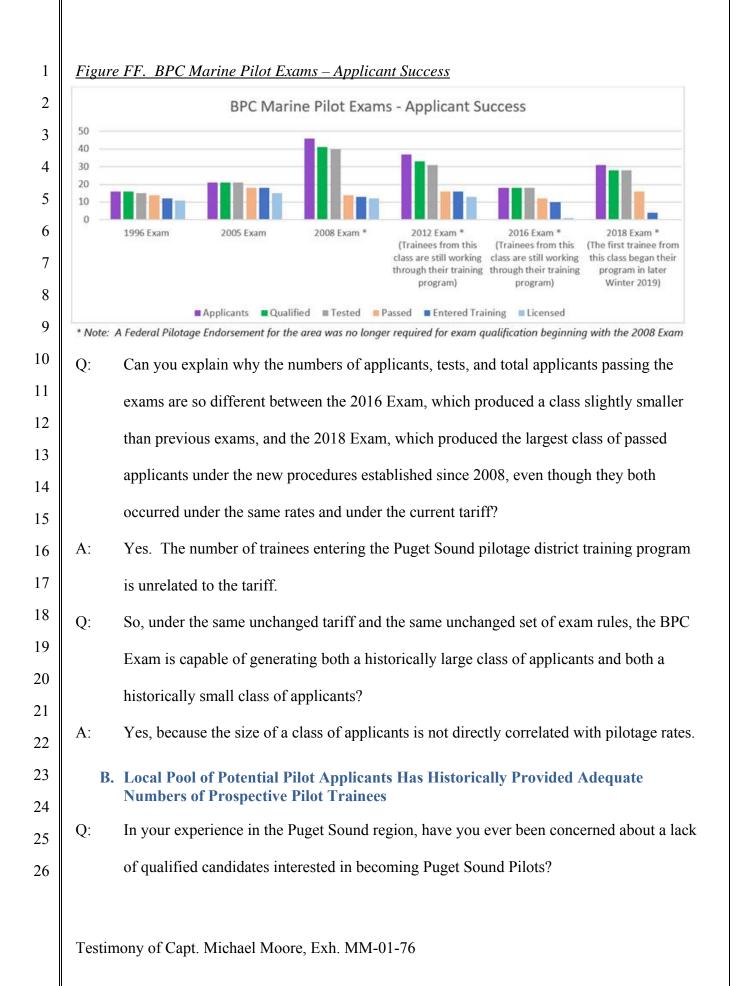
"duty" time days that year, when pilots were on "duty" and being paid, but not moving any ships. There is obviously no shortage of actual "duty" days when pilots could be assigned to cover assignments.

- Q: Should the UTC set a tariff based on an assumption that it needs to underwrite the income of 11 new pilots that do not exist and at a Target Assignment Level of 118 assignments per year?
- A: No. The regulations adopted by UTC for the purposes of governing this tariff setting process do not account for ghost pilots or some other theoretical number of non-existent licensees. Instead, to the extent that the UTC considers the number of pilots it should only take notice of the actual number of licensed pilots set by the BPC, consistent with WAC 480-07-525(4)(n), respecting that Board's determinations with respect to their obligation under the Pilotage Act to set a number of pilots capable of providing an efficient pilotage service. Under this authority, the BPC reaffirmed in July 2019 that the Target Assignment Level is 145 (Exh. SK-1T-9)
- Q: Does recognition of the current "number of pilots licensed in the pilotage district" generate the revenues necessary to support the actual, and essential, operations of PSP?
 A: The tariff is not a theoretical construct and it must be based on actual costs and service provided to vessels. To do otherwise would be to admit that the tariff is not set based on actual pilot assignments and service but instead set simply to accommodate PSP's desires to share greater future tariff revenues amongst themselves. As this is the first time proceeding through this process, the UTC and BPC must work together to respect the legal bifurcation of their duties and also jealously guard their own authorities to ensure efficiency, competitiveness, transparency, and accountability. The state's policy goals,

Testimony of Capt. Michael Moore, Exh. MM-01-73

1	vessel safety, and fairness to ratepayers are not served if either the UTC or BPC even
2	inadvertently devolve their powers to one another.
3	
4 5	VI. THE PUGET SOUND IS AN EXCEPTIONALLY ATTRACTIVE PILOTAGE GROUND TO PROSPECTIVE TRAINEES AND THE CURRENT TARIFF IS MORE THAN CAPABLE OF PRODUCING ADEQUATE NUMBERS OF PILOT TRAINEES
6	
7	A. The Pool of Pilot Applicants and Trainees Has Never Been Bigger Than Under the Current Tariff
8	Q: Has the Puget Sound ever seen bigger classes of prospective pilot candidates than the
9	BPC has experienced since 2015 under the current tariff?
10	A: When the latest class of new Pilot Candidates in waiting is added to the previous exam
11	class, the list of all candidates is the biggest ever. We have never seen a larger queue of
12	potential pilot trainees than we are experiencing right now under the current tariff, as
13 14	shown by the chart below. [Exh. JR-4]
14	Figure EE. Trainees and Trainees Waiting, by Month
16	Washington State Board of Pilotage Commissioners Trainees and Trainees Waiting, by Month
17	16 (lighter color indicates trainees who did not go on to become licensed) February 20, 2020
18	8
19	
20	-8
21	trainees starting
22	91- 91- 91- 91- 91- 91- 91- 91-
23	
24	■ 2008 Exam ■ 2012 Exam ■ 2016 Exam ■ 2018 Exam
25 26	 Counts above zero line represent trainees actively training. Counts below zero line represent trainees waiting to begin training.
	Testimony of Capt. Michael Moore, Exh. MM-01-74

1		To read this chart, one analyzes the overall height of the bar, including the counts of
2		trainees actively training in the BPC program above the zero line and the counts below
3		the zero line which indicate candidates waiting to begin training, which is the combined
4		total queue of Board qualified candidates.
5	Q:	Is the current large class in excess of the regular pattern in growth of the candidate
6 7		queue?
8	A:	Yes. After every exam the queue naturally gets larger but there have never been as many
0 9	11.	
10		queued up as there have been the last two years under the current tariff and including the
11		PSP test period. After the 2018 exam results, there were a record high number of 26
12		candidates in queue.
13	Q:	Can you please describe the size of the 2016 class and the 2018 class of candidates, both
14		of which were selected under the current tariff?
15	A:	There was a smaller group of initial applicants and individuals taking the 2016 exam than
16		in prior years, but the actual class of candidates who made it onto the Board list of exam
17		qualified candidates was adequate and only slightly smaller than in previous exams and
18		under different qualification and exam procedures. Meanwhile, from 1996-2018, no
19		exam has had more applicants pass than the 2018 Exam. [Exh. JR-5] This is illustrated
20		in the BPC 2018 Annual Report:
21		
22		
23		
24 25		
25 26		
20		
	Testin	nony of Capt. Michael Moore, Exh. MM-01-75



1	A:	No. There have always been qualified candidates in queue either training or waiting to
2		start training. The BPC regularly publishes exam results and the Training Evaluation
3		Committee of the BPC maintains a current list of trainees and those on the waiting list.
4		At no time since I have been engaged in the Puget Sound has the BPC ever announced,
5		
6		discussed or produced evidence that there were no qualified candidates in training or
7		waiting to train.
8	Q:	How does the candidate pool break down by the industry source of the trainees?
9	A:	The most consistent sources of pilot applicants and trainees tend to come from the local
10		ranks of the regional tug companies in the Puget Sound, from cargo and tank vessels, and
11		from Washington State Ferry system masters. [Exh. JR-20] See this excerpt from the
12		
13		JTC Report, at Exh. 13:

Figure GG. Sea Service Experience of Pilot Exam Applicants, 2008, 2012, and 2016

Pilot exam applicants come with a range sea service experiences. In 2016, seven of the 19 applicants came from towing vessels, while five applicants came from cargo or tanker vessels (**Exhibit 13**). *Please note a previous section of this report describes in greater detail typical "feeders" into pilotage*.

Exhibit 13. Sea Service Experience of Pilot Exam Applicants, 2008, 2012, and 2016

Sea Services Category	2008	2012	2016
Cargo or tanker vessels	14	11	5
Organized pilot association or government	7	4	0
employed pilot			
Passenger or ferry vessels	8	7	3
Special purpose (e.g., fishing and research vessels)	1	2	2
Towing vessels	14	12	7
U.S. flagged government vessels or military	2	1	2
Total	46	37	19

Source: Washington State Board of Pilotage Commissioners, 2017.

Testimony of Capt. Michael Moore, Exh. MM-01-77

Q: Is this consistent with the historical candidate pool breakdown?

Yes, the candidate pool breakdown provided by the BPC for the last 5 exams has been very consistent with respect to candidate pool breakdowns. [Exh. JR–31] I have not seen or heard of other pilotage districts attracting this level of diversity, including other pilots, to their exams.

Q: Why is the Puget Sound so attractive to a diverse array of potential trainee candidates?
A: The Puget Sound is blessed with a regional maritime workforce that is home to many more mariners with existing federal pilotage endorsements than most other areas of the country. A large tug fleet, the largest ferry system in the U.S., a large costal trade presence with U.S. Jones Act cargo and oil tankers, and the Alaska Marine Highway masters serving as pilot and pilots from Alaska willing to give up pilot licenses there to train and pilot here, all constitute a large candidate pool. We also have a military vessel presence with the Navy and Coast Guard producing candidates from time to time.

Q: Do these potential pilot labor pools work comparable hours or earn comparable wages to Puget Sound Pilots?

A: No, these potential pilot trainees come from sectors that work on board vessels for many more hours and for much less compensation than a Puget Sound Pilot. For example, tug operators typically requiring masters to work a full and traditional maritime schedule and they do not go home when not on watch as they are still on board. They are well regarded for their long hours and stand-by service capabilities and like other maritime sectors have made changes to do that while managing fatigue. Tug operations have remained a significant source of pilot trainees. In addition, masters of vessels in the Washington State Ferry system must carry a federal pilotage endorsement, similar to that held by a

Testimony of Capt. Michael Moore, Exh. MM-01-78

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A:

Puget Sound Pilot (see Section XI, below), but WSF masters are working a full-time schedule, based on a standard full-time pay period, and as of July 1, 2020 their earnings will be based on a wage with a range of \$55/hour to \$71/hour. [Exh. JR-21]

Q: Are you concerned by PSP claims that the Puget Sound pilotage district is losing candidates to other districts, specifically to San Francisco?

A: No, and for multiple reasons. First, the breadth and depth of our local pool of candidates is exceptional and has never resulted in us not having enough local and regional candidates for local and regional jobs. Second, the 2018 exam class produced the most candidates to make the list, thereby making the queue of candidates the largest. This actually means that it will potentially take some of our trainees longer to get into our Puget Sound program than it will other places. While waiting longer may mean some trainees choose to take another opportunity, this is not a reason to be concerned about our ability to attract talent. Indeed, being popular doesn't mean that our training program is less attractive; when your training program is so popular that you're turning people away, it actually means that your training program is very attractive.

Q: Has the Puget Sound been competitive for trainees with other pilotage grounds?

A: Yes, the Puget Sound remains competitive for pilot trainees. PSP is bemoaning the loss of potential trainees to San Francisco, but it omitted the critical fact from its testimony that the Puget Sound is already attracting the same trainee candidates as San Francisco. This is prima facie evidence that the Puget Sound and San Francisco are both competitive for pilot trainee candidates. [Exh. MM-31, Exh. JR-13] The current lists show that trainee candidates have taken exams and joined candidate lists in both of these pilotage grounds. What the data shows is that these candidates who are on both the Puget Sound

Testimony of Capt. Michael Moore, Exh. MM-01-79

and San Francisco lists started training in the grounds that offered the first opportunity. With trainee lists that have yet to be exhausted, both pilotage grounds are effectively competing for trainees without any detriment.

Q: Have you ever been concerned about the qualification, screening, or testing criteria of the BPC or seen any indication that they were lowering application standards for prospective trainees?

A: No. With respect to testing and qualification criteria, to the contrary, during my time in Puget Sound the BPC has sought to improve their qualification and screening procedures through a revamped test development and evaluation and through the addition of a simulator evaluation. PMSA has been supportive of the BPC's move towards more rigorous testing and additional evaluations of potential new trainee applicants. With respect to "lowering" the application criteria, in 2008 the BPC made one major change in the criteria for applicants with respect to the need for them to hold an appropriate federal pilotage endorsement prior to application, and instead made this a criteria of progression through the training program for trainees, so if they did not already hold federal pilotage endorsements for the district that one could be earned concurrently with state license training. I did not view this as a problematic change since the federal endorsement is still required and this functionally only changed the standards for application to take the exam, and the exam no longer needed to include local knowledge questions as that would be covered in the training program. As a result, you'll note that in 2008 and 2012 the BPC received record numbers of applications to sit for the exam, but the standards required to make the cut created passage rates which were exceptionally low and the ultimate size of each exam class was in line with normal historic numbers. [Exh. JR-20]

Testimony of Capt. Michael Moore, Exh. MM-01-80

1 2	C.	Qualified Licensed Mariners with Pilotage Endorsements Changing Pilotage Grounds Mid-Career are Rare, But Multiple Licensed Pilots from Other Pilotage Districts Have Come to the Puget Sound
3	Q:	Are there other pilots who work in other pilotage areas who come to work in Puget
4		Sound?
5	A:	Yes. Puget Sound has seen state licensed pilots in Alaska and masters serving as pilots
6	11.	
7		with federal endorsements working in the Alaska Marine Highway System choosing to
8		give up their licenses mid-career and leave those pilot grounds for the opportunity to
9		train and be licensed to operate in Washington. [Exh. JR-14]
10	Q:	Did you review the testimony of Stephan Moreno at Exh. SM-1T-1-23 and his answers to
11		PMSA's Discovery Requests?
12	A:	Yes.
13		
14	Q:	Do you agree with Capt. Moreno's assessment that "[i]t is rare that a pilot is licensed in
15		one district and then subsequently relocates" (Exh. SM-1T-6)?
16	A:	Yes, I agree.
17	Q:	Are you at all surprised by Capt. Moreno's testimony that it is his "understanding that
18		there are approximately twelve hundred state licensed pilots in the United States. In my
19		twenty-nine years of piloting I am aware of roughly ten pilots who have left their district
20		for another pilotage district" (PSP Response to PMSA DR 359)?
21		
22	A:	No, I'm not surprised and I agree with him that it is indeed a very rare event and find his
23		estimate that mid-career relocation out of one state pilotage ground into another
24		nationwide to be only about 00.83% of all possible employment scenarios to be credible.
25	Q:	What does this testimony demonstrate to you?
26	A:	Once a pilot is licensed in one pilotage ground, there are virtually no factors which
	1	

suggest that they will not be retained in that pilotage ground through the entirety of their careers. Moreover, in Captain Moreno's testimony, he asserts that 30% of the identified pools of those who have transferred mid-career between pilotage grounds chose to go to the Puget Sound, so obviously it is one of, if not the, most attractive place to pilot in the country. The Puget Sound has been able to benefit from what is relatively rare everywhere else in the country: pilots who have chosen to leave active and existing pilotage licenses somewhere else in the country for the opportunity to enter into another training program. I agree with Capt. Moreno that the Puget Sound is one of the few attractive pilotage grounds where mariners will choose to come and "effectively start all over." (Exh. SM-1T-6)

Q: Have any pilots licensed by the State of Washington to pilot in the Puget Sound ever left actively piloting to start all over with a new licensing program somewhere else in the country?

A: We have no evidence that any pilot licensed to serve and serving in the Puget Sound has ever left.

D. PSP Claims About Attracting "Best" Candidates Are Subjective and Arbitrary

Q: Do you agree with PSP testimony that "the best qualified and most desirable candidates will naturally compete for the openings in the pilot associations that have the highest income and best working conditions" (Exh. GQ-1T)?

A: No. The working theory that only some candidates are "best" or "most desirable" even if they otherwise meet all of the state's licensing standards of qualification, have passed the exam, and completed state-required training are inconsistent with the facts, subjective, and arbitrary. We strongly disagree with any implications that the BPC standards of

Testimony of Capt. Michael Moore, Exh. MM-01-82

qualification for potential qualified candidates, including the requirement that trainees acquire their federal pilotage endorsement prior to state licensing, are good enough for purposes of providing navigationally competent and safe services to vessels, but then these same standards are somehow lacking when it comes to setting a tariff for these same services.

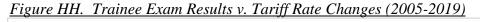
Q: Do you know how one would determine whether or not pilots which met a licensing threshold for competency still would not qualify as the "best" potential candidates? A: No, this is a binary operation, either a potential licensee qualifies under the licensing standards or they do not. The state fortunately provides clear guidance with respect to their qualifications for potential licensees, and the pipeline of potential candidates is consistent and continuous. Statements like these by PSP imply that some Puget Sound pilots are less than qualified – but neither BPC nor the Training and Evaluation Committee have moved to revoke a license, and they provide no public evidence of cause to do so. The BPC has determined, and improved, the standards that must be met in order to earn a license and candidates must meet them (or not). If PSP or individual pilots think the process has produced substandard pilots that shouldn't be licensed then there should be documentation of such concerns and votes by pilots on the BPC and TEC reflective of such concerns on record against licensing someone that PSP thought was not deserving of a license.

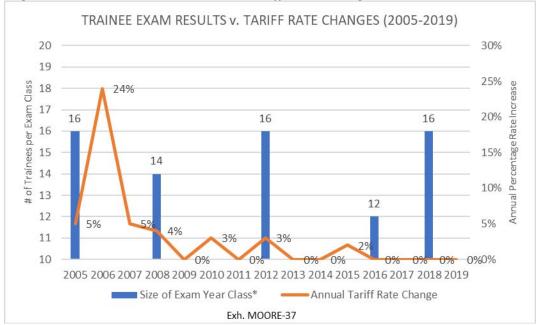
E. There is No Correlation Between Number of Applicants and Changes in Tariff Rates

Q: Historically, has the number of pilot candidates been correlated with tariff rate changes?A: No, changes in the tariff are not correlated with increases or decreases in the number of

Testimony of Capt. Michael Moore, Exh. MM-01-83

pilot candidates. In short, we have the same size of successful trainee classes in 2018 that we had in 2005 and 2012, all very different tariff rate change years, at 16 per class. While there are not very many data points, the only conclusion that can be inferred from the past 15 years of trainee exam data is that there is no correlation between tariff increases and the size of qualified trainee classes. For example, the largest increase in the tariff (24% in 2006) was followed by a drop in the size of the next trainee class in 2008. By contrast, during the current tariff period, when there were no approved rate increases, we saw successful applicants grow the exam successful trainee class size from 12 in 2016 to 16 in 2018. [Exh. MM-37]





Q: Under the current tariff has the number of pilot candidates changed even when rates have not been changed?

A: Yes, while the rates in the current tariff have not increased from 2015 to 2019, the number of successful pilot candidates in the queue over that same time period has

Testimony of Capt. Michael Moore, Exh. MM-01-84

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increased. [Exh. MM-27]

Q: What do you conclude from this data comparison?

A: There are plenty of high-quality candidates that can pass the exam and simulator to join a screened and approved candidate list regardless of actions taken to change the tariff. The Puget Sound is an attractive pilotage district under the current rate structure and the history demonstrates that the pool of applicants to fill license slots as determined by the BPC has been consistently more than enough to ensure a candidate training queue is always available to start a candidate training when the Board deems it necessary. No training slot has ever gone unfilled by a qualified and approved and trainee licensed candidate at any tariff level, at any revenue level, or at any pilot assignment level. In my opinion this shows that our training program is a tremendous success and our pilotage ground has always been attractive to potential trainees – this is the opposite of a problem.

VII. THE CONDITIONS OF PILOTING IN THE PUGET SOUND

A. No Material Changes in Piloting Service Have Occurred from 2015 to Present

Q: Have there been any significant or material changes in the standards of care applicable to state pilot licensees from 2015 to present?

A: No.

Q: Have there been any significant or material changes to the navigational rules of the road applicable to the navigable waterways of the Puget Sound from 2015 to present?A: No.

. . .

Q: Have there been any significant or material changes to the training required of state pilot licensees from 2015 to present?

Testimony of Capt. Michael Moore, Exh. MM-01-85

1	A:	No.
2	Q:	Have there been any significant or material changes to the civil liability statutes which
3		impact state pilot licensees from 2015 to present?
4	A:	No.
5	Q:	Regarding PSP claims summarizing "Piloting in the Puget Sound," have you reviewed
6 7		the testimony of the PSP President at Exh. EVB-1T-6 to EVB-1T-11?
8	A:	Yes.
9	Q:	Without agreeing or disagreeing with any of the specific claims therein, do any of the
10	χ.	PSP claims regarding "Piloting in the Puget Sound" demonstrate any significant or
11		
12		material changes in the nature of the task of piloting in the Puget Sound from 2015 to
13		present?
14	A:	No.
15	Q:	Without agreeing or disagreeing with any of the specific claims therein, do any of the
16		PSP claims regarding "Piloting in the Puget Sound" demonstrate any significant or
17		material changes in the inherent risks associated with the provision of pilotage in the
18		Puget Sound from 2015 to present?
19	A:	No.
20	Q:	Without agreeing or disagreeing with any of the specific claims therein, do any of the
21		PSP claims regarding "Piloting in the Puget Sound" demonstrate any significant or
22		
23		material changes in the safety afforded pilots in the Puget Sound from 2015 to present?
24	A:	No.
25	Q:	Without agreeing or disagreeing with any of the specific claims therein, do any of the
26		PSP claims regarding "Piloting in the Puget Sound" demonstrate any significant or
	Testimony of Capt. Michael Moore, Exh. MM-01-86	

1		material changes in the requisite training or education required of existing licensees in
2		the Puget Sound from 2015 to present?
3	A:	No. Of course, there is always some information sharing when appropriate between the
4		US Coast Guard, the Harbor Safety Committee, PSP, and the maritime community with
5		respect to changes in pilot guidelines or the Harbor Safety Plan or actions by the Board
6		or other procedures that are appropriate for all pilots, but none of these routine updates or
7		
8		revisions from 2015 to 2019 were particularly substantial.
9	B.	Funding for PPUs Was Provided in the Tariff Prior to 2015 and that Tariff Increase Has Continued Since 2015
10		
11	Q:	What resources to assist in piloting are provided to pilots in the Puget Sound to assist
12		them in completing their tasks?
13	A:	All pilots in the Puget Sound are provided with Portable Pilot Units (PPUs) by PSP.
14		PPUs are specialized laptops provided to each pilot that give pilots additional
15 16		navigational data and information to consider as they complete a pilotage assignment or
17		vessel move. PPUs were provided over the period of 2013 - 2014, and the BPC adopted a
18		PPU training regimen in January 2014. [Exh. JR-22]
19	Q:	Did the provision of PPUs to pilots in the Puget Sound occur before 2015?
20	A:	Yes.
21	Q:	Has PSP already asked for the tariff to be increased to account for the cost of PPUs in
22		prior tariff requests?
23	۸.	
24	A:	The inclusion of the cost of PPUs in the existing tariff was made explicit by PSP in their
25		ask for a 15% rate increase at the November 2012 rate hearing. [Exh. JR-23] Ultimately,
26		in response to this request, the BPC agreed to a 3% tariff increase "with the expectation

1		the PPUs be purchased." [Exh. JR-23]
2	Q:	For the entirety of this current tariff period has the additional revenue provided in an
3		increased tariff before 2015 been continuously available to PSP to provide for the
4		continued provision of PPUs to pilots?
5 6	A:	Yes. The increase in the tariff effective January 1, 2013 means that PSP was collecting
7		this increased tariff revenue well before the purchase of the initial PPUs. However, the
8		BPC did not set a specific tariff rate or surcharge to "fund" specific costs related to
9		PPUs, so if PSP chose to use those revenues for some other purpose, like for pilot
10		income distributions, there is no prohibition of such a use of tariff proceeds.
11	Q:	Has PSP collected sufficient revenue under the current tariff to fund the purchase and
12		costs of PPUs for its members?
13	A:	Yes, under the current tariff, PSP will have collected more revenue than the costs of the
14 15		PPUs many times over since 2012.
16	Q:	If the current tariff structure and rates remain unchanged will pilots in Puget Sound still
17		be able to utilize PPUs?
18	A:	Yes, PPUs are a tool available for pilots to use independent of any level of tariff set by
19		the UTC.
20	Q:	Has PSP asked the BPC for any other changes to the requirements of pilotage or material
21	Q.	provisions of service which are remarkably different than that required for the regular
22		provisions of pilotage since 2015?
23 24	A .	
24 25	A:	No.
26		
	Testir	nony of Capt. Michael Moore, Exh. MM-01-88
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1 C. Risks to Pilot Safety are Regulated, Mitigated, and Enforced and Those Risks Have Not Increased Since 2015 2 Q: Can you describe risks to pilot safety involved in the act of pilotage and what precautions 3 the industry takes to address and mitigate these risks? 4 5 A: Yes. Pilot safety is an important consideration of vessel operations and it is important 6 that all vessels follow international, federal, and state laws which exist to protect the 7 safety of all of the professional mariners onboard their vessels, not the least of which 8 include the pilots. The principal risk to the safety of the pilot occurs when boarding or 9 disembarking a vessel when underway via a pilot ladder or under circumstances when an 10 accommodation ladder is appropriate. 11 What rules require vessel operators to provide for pilot safety and how are these rules Q: 12 13 enforced in the Puget Sound? 14 A: At the international level, SOLAS provides for pilot ladder regulations at Chapter V, 15 Regulation 23. These rules were first adopted in 1974 and were most recently updated 16 and amended in 2011. IMO, Resolution A.1045(27). At the federal level, the US Coast 17 Guard enforces these international pilot ladder regulations along with inspections under 18 both port-state control and flag-state control mechanisms against vessels in port with 19 20 reported pilot ladder deficiencies. At the state level, the BPC can investigate pilot ladder 21 incidents just as they review any reported marine safety occurrence. 22 Q: Is it fair to say that in your experience both in the US Coast Guard and as a maritime 23 industry executive that vessel owners and operators are aware of these rules and place a 24 premium on the observation of these rules? 25 Yes. It is my personal experience that rules which deal with mariner safety, including A: 26 these provisions with respect to pilot safety, are typically well-understood, respected, and

Testimony of Capt. Michael Moore, Exh. MM-01-89

1		executed by vessels that are operating in US waters. And pilot ladders are used routinely
2		in their operations. Vessels that don't maintain their equipment in good operating order
3		are subject to denied entry and black marks on their record which impacts whether they
4		can enter port, require special operational measures and receive more frequent and
5		comprehensive port state control examinations. Nevertheless, all in the safety system
6		must remain diligent to maintain compliance and meet or exceed standards.
7		must remain ungent to maintain comphance and meet of exceed standards.
8	Q:	Do pilots have remedies and processes in place whereby they can bring complaints
9		against vessels which have substandard or insufficient accommodations for pilots or to
10		advise authorities when they believe pilot safety is compromised?
11	A:	Yes. Pilots can, should, and do raise these complaints both directly to the US Coast
12		Guard and to the BPC through these complaint processes and have the ability to
13		determine if a situation is unsafe, refuse service, or anchor the vessel safely.
14		
15	Q:	Has the enforcement of rules regarding pilot ladder conditions received more scrutiny or
16		become more lax since 2015?
17	A:	Pilot ladder conditions have received additional scrutiny recently as a result of some
18		unfortunate accidents and experiences by pilots. As a result, pilot ladder conditions have
19		been highlighted for attention and additional focus from time to time by Coast Guard and
20		BPC. This additional focus and attention should continue as vigilance and reporting
21		should continue to maintain reduced risks and additional safety benefits to pilots.
22		
23	Q:	Are pilots the only maritime workers who utilize the pilot ladder or an accommodation
24		ladder as a means of vessel boarding and departure while underway, at anchor, or even at
25		the dock on occasion?
26	A:	No.

- Q: What other workers might also utilize a pilot ladder or accommodation ladder and how does that enhance safety for pilots?
- A: The US Coast Guard itself, both for marine safety and law enforcement purposes, trains and then boards on vessels when underway, at anchor or alongside, which means that the individuals who are responsible for enforcing the rules on pilot ladder safety also know that their colleagues are also potentially at risk if faced with a deficient or unsafe ladder on a vessel during such boardings.
- Q: In your experience, who is exposed to greater variables of risk associated with boarding vessels underway, pilots or members of the US Coast Guard?
- A: They are very different jobs, pilotage and law enforcement, so it is nearly impossible to compare. When the US Coast Guard is performing a law enforcement or marine safety task, the nature and types of risk can be numerous and vary widely given the potential circumstances of the boarding. I am familiar with very challenging Coast Guard situations where in difficult conditions with vessels that, while hardly cooperative, needed to be boarded. I am also aware of pilot boarding situations that were very challenging in terms of timing movements to get on the ladder due to difficult conditions. Boardings for pilots as discussed above, are regulated by international, federal, and state authorities with the express intention of mitigating risks to pilot safety and managing the variables. We are very fortunate that, for the most part, these regulations work to keep pilots safe, that vessels have compliant ladders and boarding areas when required which are designed to facilitate effective pilot transfers, and we have very few complaints about inadequate ladders. I have done my share of boardings and have always been impressed with the ability and focus of mariners, including pilots and US Coast Guard boarding

officers to professionally assess the situation and make smart risk-based adjustments to ensure safety.

Q: Are vessel boardings in the Puget Sound different based on the types of vessels calling?
A: Yes, different vessel types require different types of pilot boarding or disembarkation.
For example, some vessels require a pilot to climb a certain distance up the side of the ship to get to a main deck, but a cruise ship or large container vessel or a car carrier due to their construction utilizes a pilot port which is much nearer to the level of a pilot boat, making the exchange easier and safer. The more prominent appearance of Articulated Tug-Barge (ATB) traffic on the Puget Sound, with a relatively low profile and pilot ladder has lower freeboard and mitigates some of the pilot boat-to-ship transfer risks. Every boarding has its own dynamics.

Q: Does the current vessel mix calling the Puget Sound pose lower, the same, or higher safety profiles with respect to the pilot exchange than compared to before 2015?

A: We have a similar mix now, however as we see fewer cargo ship calls and assignments, risks are reduced simply because there are fewer pilot exchanges. With respect to the vessels that are calling, larger container ships, cruise ships and ATB's continue to be a significant percentage of pilot assignments and have been for several years, which comparatively reduces overall risks related to transfers. These are trends which should reduce risks and enhance safety over time.

Q: The Puget Sound Pilots' testimony claims that the risks related to the operations of vessels are imputed to the pilots themselves. For example, on page EVB-1T-6, Capt. Von Brandenfels states that in certain instances "a pilot… is the person ultimately responsible for ensuring [a vessel's] safety. For pilots, that means we are the one ultimately

Testimony of Capt. Michael Moore, Exh. MM-01-92

responsible ..." Do you agree with this characterization of pilot responsibility for vessel safety?

A: No. Pilots are not on-board to replace the vessel master's ultimate responsibility for the safety of the vessel, crew, and operations. A pilot is an important advisor to a vessel's master when on-board, yet a master does not, cannot, and has not surrendered final say, control, or responsibility over his or her vessel to a state-licensed compulsory pilot.

D. Risks to Vessel Safety from Pilotage in the Puget Sound Have Been Decreasing

Q: One of PSP's justifications for an increase in rates is that they are exposed to risks based on vessel safety issues as ships get larger, do you believe this to be true?

A: No, that has not been my experience, and often the opposite is true.

Q: Do general industry trends enhance vessel safety or increase risks to vessel safety?
A: There is absolutely no debate on this question, the general industry trends of introduction of newer vessels, the leveraging of better designs, and use of rapidly improving technology in the maritime industry each contribute to continuously improved marine safety. Newer ship dynamics related to safety improvements include the increased use of AIS, GPS, ECDIS as enhancements, automation systems for engine control are more advanced (necessarily so due to more complex engine emission management), and propulsion systems are more efficient and responsive and include improvements in propeller design and type, and rudder design. All of these factors contribute to vessel based marine safety and risk management improvements as the industry reinvests in itself and its assets.

Q: If there were enhanced risks to pilots from vessel safety, how would you recommend one evaluate whether the risks associated with state licensed pilotage and their claimed

Testimony of Capt. Michael Moore, Exh. MM-01-93

1		responsibility for vessel safety issues are increasing or decreasing?
2	A:	A primary source for the reporting of all Marine Safety Occurrences and Incidents which
3		involve a state licensed pilot in the Puget Sound to the public is the BPC Annual Report.
4		The BPC Annual Report is required by RCW 88.16.035 to include a summary of the
5 6		Board's Navigational Incidents.
7	Q:	Has PMSA analyzed the relative increase or decrease in risks to pilots from vessel
8		operations and safety from 2015 to 2018?
9	A:	Yes, we have analyzed the data in the BPC Annual Reports from 2005-2018 [Exh. JR-8],
10		annotated it by adding in data procured from various sources online to provide us with
11		vessel particulars, including vessel age, vessel size, and vessel type [Exh. JR-19], and
12 13		compared the data from 2005-2018, 2005-2014, and 2015-2018 with respect to incidents
13		by vessel size, vessel length, vessel type, vessel age, incident location, and average
15		incidents per year. [Exh. MM-25]
16	Q:	Describe the results of your analysis of vessel Incidents in the Puget Sound.
17	A:	BPC's incident reports demonstrate that vessel safety on the Puget Sound is not
18		degrading or presenting additional risks to pilots. The rate of vessel incidents from 2015
19		to 2018 decreased to an annual average of incidents per year of 5.25. This is down
20 21		nearly 20% compared to the 2005-2018 average of 6.5 incidents per year. [Exh. MM-25]
22		Generally, during the current tariff period, the rate of likelihood that a pilot will be
23		exposed to any vessel-based incident-related risk is low.
24	Q:	Does vessel age correlate with an increased risk of having an incident while under
25		pilotage in 2015-2018?
26	A:	No. Vessel aging has not resulted in an increased risk of having an incident while under

pilotage, in fact the overall average age of a vessel in an incident has stayed nearly unchanged in 2015-2018 at 10.1 years. The largest growth in the age of vessels with incidents occurred in the 11-15-year vessel age category. As for the newest vessels, the risks posed by these vessels decreased. [Exh. MM-25]

Q: Are there certain waterways that correlate more heavily with additional pilotage incidents?

A: This is hard to quantitatively determine without analyzing the relative number of trips to each berth, port, or waterway, which we did not attempt to do in this analysis, and one would need to establish a baseline number of trips against which a very small number of incidents and then review the qualitative circumstances of each incident. And, changes in terminal and port operations over that same period may impact an ability to determine such a correlation. At any rate, with those provisos, it is possible to summarize the raw data without additional analysis with respect to the total number of incidents in each waterway and normalized by ship call mix and other related factors. What we found was that 70% of incidents from 2005-2018 occurred in locations which did not establish a pattern, as they had only experienced 1-3 incidents over 14 years. Three locations, the Blair Waterway, Cherry Point, and the Duwamish Waterway, accounted for the remaining 30% of the incidents. When one compares the current tariff period of 2015-2018 with the prior period, these locations have either stayed nearly the same or seen fewer incidents over time. [Exh. MM-25]

Q: Based on the correlative analysis and the table of raw data provided above, would you conclude that the incident data show growing risks in 2015-2018 based on vessel category or location?

Testimony of Capt. Michael Moore, Exh. MM-01-95

1	A:	No. The largest concentrations of incidents from 2005-2018 are in Container ships,
2		33.3%, Bulk Carriers, 23.8%, and Tankers, at 14.3% of total incidents. In the current
3		tariff period review, the biggest reduction in potential incident risk came from the
4		Container sector, which decreased to 23% of all incidents, and bulkers and tankers
5		reduced too. These vessels make up the largest swaths of vessels calling in Puget Sound,
6 7		but are accounting for less of the incidents in 2015-2018. [Exh. MM-25]
8	Q:	Does pilot incident data from the BPC support a conclusion that the largest ships calling
9	ζ.	in the Puget Sound, in particular at the Ports of Seattle and Tacoma, including
10		containerships and cruise ships, present growth in the highest risk of a pilotage incident?
11		
12	A:	No, we actually found that in the current tariff period from 2015-2018 that the average
13		tonnage of a vessel involved in an incident decreased slightly from the 2005-2018
14		average, as the fastest growing category of vessel incidents was in vessels of Tonnage of
15		0-20,000 GRT, which jumped from 19% of incidents to 28.6%. Other vessel sizes don't
16		seem to establish a conclusive outcome on the basis of size, as the two biggest declines
17		were in the 20,000-40,000 GRT category, a smaller vessel category, and in the 80,000-
18		100,000 GRT category, a category of vet large vessels. Not surprisingly, due to ship
19		architecture, the same patterns are very nearly replicated with respect to LOA as they are
20		to GRT. In both categories the overall average size decrease by incident and growth in
21		smaller vessel incidents certainly don't implicate larger vessels create additional risks for
22 23		pilots. [Exh. MM-25] It is also likely not a coincidence that these larger vessels tend to
23 24		be the newest, most modern vessels.
25	0.	
-	Q:	In your opinion are there any public ports in the Puget Sound which ask pilots to move

Q: In your opinion are there any public ports in the Puget Sound which ask pilots to move vessels in waterways which are inherently unsafe?

Testimony of Capt. Michael Moore, Exh. MM-01-96

FG:10983767.1

26

1	A:	No. Not only did our simple analysis of the available data regarding incident locations
2		confirm that there are no patterns showing obviously inherent unsafe waterways, but in
3		my professional experience if a waterway is not designed for the safe operation of a
4		vessel, or a specific class of vessel, that waterway would not be operable for a specific
5		vessel or a specific class of vessel. This would be particularly true in a waterway with a
6		
7		licensed pilot employed, who is specifically employed to be a local waterway expert.
8	Q:	Have specific practices been put in place to ensure that waterways are planned and
9		operated safely?
10	A:	Yes, over the past 3 decades there has been increased use of simulators to test out
11		waterways and turning basins and transits of various size vessels under various
12		conditions. This is an excellent tool put to good use in Puget Sound. There is also a
13		multi-layer safety net in place, in addition to pilot and tug use guidelines, and regular
14		evaluations of conditions by the crew, US Coast Guard, VTS, and the pilot that manages
15		
16		the safety of individual transits.
17	Q:	Have the Ports of Seattle and Tacoma, either on their own or acting through the
18		Northwest Seaport Alliance (NWSA) worked to specifically improve vessel safety in the
19		waterways serving their berths and terminals?
20	A:	Yes. The Port of Tacoma and NWSA have increased use of simulator evaluations of
21		projected ship traffic and ship sizes prior to bringing in larger vessels to the Blair
22		
23		Waterway. They also are focused on gateway safety and efficiency and implemented a
24		team to work on that. A new position was developed to focus on managing the Blair
25		Waterway so vessels can be queued safely for navigation safety purposes, coordinating
26		cranes and bunker barges and the order of transits to help ensure safe transits particularly

1		of larger vessels. In addition, there are bathymetric checks in waterways frequent
2		enough to ensure that documented depths of water are accurate. These proactive efforts
3		have strengthened safety and waterways management and have not resulted in increased
4		risks to vessels or pilots.
5	Q:	Is there a heightened general risk to pilots in their position due to a growth in the
6		presence of substandard or unsafe vessels since 2015?
7 8	A:	No. The Coast Guard implemented a specific port state control program beginning in
8	A.	No. The Coast Guard implemented a specific port state control program beginning in
9		1994 to eliminate substandard vessels and all waterways and ports with foreign vessels
10		calling have seen significantly decreased risk. I have direct involvement in this program
11		having been responsible for implementing it first in the Ports of Los Angeles, Long
12 13		Beach, and Port Hueneme, and then as Captain of the Port Puget Sound where I ensured
13		full implementation and focus on port state control given its significant value to
15		enhancement of marine safety and environmental protection. I also initiated the creation
16		of the Puget Sound Harbor Safety Plan, with Standards of Care to augment the regulatory
17		regime similar to efforts at my previous assignment in LA-LB. This voluntary ongoing
18		effort has been widely recognized and serves as a model to other port areas that have
19		followed suit.
20		Tonowed suit.
21	E.	Changing Limits on Hours of Service Have Not Created Significant or Material Changes in the Condition of Pilotage
22		
23	Q:	Are you familiar with the recent changes to the Pilotage Act that expanded and clarified
24		the rules and regulations surrounding pilot rest periods and limitations on hours of
25		service?
26	A:	Yes. The legislation changed the rest period requirement at RCW 88.16.103 from the
	Testin	nony of Capt. Michael Moore, Exh. MM-01-98
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1		previous seven hour minimum rest period to a ten-hour minimum rest period with an
2		opportunity for eight hours of uninterrupted sleep following an assignment. It also
3		addressed circadian misalignment after three consecutive night assignments and imposed
4		a maximum limit on pilots of performing no more than 13 hours of work when
5		performing multiple assignments in combination.
6 7	Q:	Does this new statute create a noticeable change in how the pilotage business in the
8		Puget Sound is conducted?
9	A:	No. Vessel activity which impacts these limits is not a significant percentage of
10	11.	assignments to begin with and PSP had already implemented an 8 hour minimum rest
11		
12		rule and the "three and out" rule in 2015, so much of these statutory limits had already
13		been implemented. As described by Capt. Carlson, PSP had "adhered to more vigorous
14		rest requirements at the suggestion of fatigue management experts starting in 2015."
15		(Exh. IC-1T-5)
16	Q:	Did you participate in the process at the BPC leading up to a recommendation to the
17		Legislature to make these changes and did you participate in the process at the
18		Legislature to amend RCW 88.16.103?
19 20	A:	Yes.
20 21	Q:	Does PMSA support having adequate rest periods for pilots and maximum limitations on
21		the number of hours worked and on consecutive night assignments?
23	A:	Absolutely.
24	Q:	Do you agree with the PSP assertion that the primary method to address issues of fatigue
25		management is to add more licensed pilots, and that this should be a justification for an
26		increase in the tariff?
	Testin	nonv of Cant Michael Moore Exh MM-01-99

A: No. Aside from my personal objection to any assertion that there is a trade-off between maritime safety and changes in the tariff, the fact remains that changing the tariff will not impact pilot fatigue, because the tariff is unrelated to pilot assignments. Efforts to manage pilot assignment-related fatigue or encouraging PSP to more effectively and efficiently manage pilot assignments, should be occurring no matter what the tariff level is and should not be conditioned on pilot incomes.

Q: Aside from the fact that fatigue issues are not resolved by tariff changes, why do you believe that changing the existing fatigue rules do not represent a significant or material change to the present conditions of pilotage on the Puget Sound?

A: The changes in the regulations regarding fatigue were not significant or material for many reasons.

First, and foremost, the change in the statute did not change the fact that the average pilot is only piloting on average 145 days per year or less. So, with 220 days off in a year, there is no shortage of rest and fatigue management time, without any impact to the pilotage service volume provided by PSP or to the assignment of pilots.

Second, there are no significant or material changes in conditions as a result of this statutory change because in 2015 PSP had already adopted and was adhering to more stringent internal fatigue limitations and mitigation measures years before the formal change in the RCW.

Third, the only true measure of when fatigue is an impact on pilotage is when "there are no rested pilots available at all, [and] the vessel will be delayed waiting for a pilot." (Exh. IC-1T-7) But these delays have been infrequent, so much so that in 2018, a year when the more "vigorous rest requirements" were already being adhered to, there

Testimony of Capt. Michael Moore, Exh. MM-01-100

were 70 instances of a vessel delay of any duration (Exh. IC-1T-8), out of 7,325 piloting engagements - representing less than 1% of total engagements. And this presumes that the reason for the delay is actually fatigue related and not simply a result of PSP inefficiency or a by-product of mismanagement of its watch standing. With proper management and the amount of time pilots have not piloting, there should be no delays.

Fourth, mitigation of 70 instances of vessel delay are well within PSP's ability with existing staffing without stressing the pilotage system through improvements in staffing management, efficiency, scheduling, and addressing less productive pilots' unwillingness to make themselves available to even up the workload distribution particularly when several pilots were simultaneously on not fit for duty status. What are the principle pieces of evidence that demonstrate that PSP pilots can effectively mitigate the roughly 1% of additional pilot assignments potentially impacted by the

statute without causing excess fatigue or triggering the limitations of hours of service regulations?

A: First, currently, PSP pilots have demonstrated that they can safely perform in excess of
 200 assignments per year without triggering any violations of the existing safety or
 fatigue limitations that are currently in place. See Section IV above.

Second, in years when they had more vessels to move, PSP has managed pilots with higher target assignment levels per year and done so without triggering fatigue issues or significant delays. [Exh. MM-20]

Third, many pilots are working assignments well under the average target assignment level, leaving plenty of capacity for fatigue mitigation. For example, note that in the PSP 2018 Financials, JN-04 there were 11,047 days, over 60% of pilot "duty"

Testimony of Capt. Michael Moore, Exh. MM-01-101

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Q:

time that year, when pilots were on "duty" and being paid but not moving any ships. There is obviously no shortage of actual "duty" days when pilots could be assigned to cover jobs without implicating fatigue. In 2018, 70 days of work out of 11,047 nonworking "duty days" represents 00.63% of outstanding pilot duty time. This level of impact hardly represents a significant or material change, especially when one considers that 29 pilots in 2018 averaged 22 assignments more than the target assignment level all while managing fatigue in full compliance with rest rules. VIII. PILOTS ARE FULLY COMPENSATED BY VESSELS AT THE TIME SERVICE IS RENDERED AND NO EXTERNAL RETIREMENT "LIABILITY" EXISTS A. PSP is Fully Paid by Vessels for All Costs of the Provision of Pilotage Service in the **Current Tariff, Including Any Internal Obligations for Pilot Retirement Programs** Earned at the Time of Service 0: Are you aware of the existence of the "Amended Retirement Program of Puget Sound Pilots" (PSP 000384 – PSP 000400)?

A: Yes.

- Q: How would you characterize the PSP Retirement Program?
- A: The PSP Retirement Program is a deferred compensation benefit for pilots, fashioned as an unfunded defined benefit retirement, which is agreed to be paid out of pilot income by

all of the active members of PSP under Section 16.9 of the PSP By-laws.

- Q: Are benefit payments made to the PSP Retirement Program by existing pilots subsequent to receipt of tariff revenues paid by vessels for current pilotage services?
- A: Yes, as described in the PSP Financials, the "[r]etirement payments are made from

currently earned PSP income," which revenues are derived from the tariff which PSP

Testimony of Capt. Michael Moore, Exh. MM-01-102

"management believes ... will continue to provide adequate funds, directly or indirectly, in the tariff for the annual funding of the retirement plan expense." PSP Financials, Exh. JN-04, at 16, Note 6.

- Q: Please describe how vessels pay for the costs of pilotage services provided, regardless ofPSP's internal deferred compensation or retirement benefits agreements.
- A: When a vessel calls on a port in the Puget Sound, it pays the current tariff for the pilotage services rendered at the time of that port call. A vessel pays the tariff-approved rates no matter whether the pilot providing the service or PSP is putting aside a portion of those revenues for a defined contribution plan, or paying benefits on a pay-go basis, or whether there is no functional retirement plan for a pilot. There is simply no provision in the tariff which is a variable based on whether pilots' agreements for retirement benefits amongst each other or for themselves are funded, unfunded, defined benefit, or defined compensation. Under the PSP By-laws revenue is collected and pooled amongst all of the pilots and then paid out to distributions, benefits and expenses subsequent to revenue collection. As far as the vessel is concerned, the service has been delivered and once the tariff rate designated for that service has been paid there are no further liabilities associated with that pilotage engagement.

Q: If the service has been provided and the current tariff rate has been paid for that service is there any other future "liability" associated with the provision of that service?

- A: No. If PSP has received payment for a pilotage service provided pursuant to the tariff, then any effort to collect any revenues other than those imposed exclusively by the tariff would be unlawful. RCW 88.16.120.
- Q: So if the collection of additional revenues for a service which has already been provided

Testimony of Capt. Michael Moore, Exh. MM-01-103

and payment received would be unlawful, any retirement benefits "liability" that exists would exist only on PSP's own books for its own internal deferred compensation accounting purposes?

A: Correct.

- Q: Independent of the question as to whether or not the current unfunded defined benefit retirement plan is a sustainable retirement system, what is the relationship of this retirement to the current tariff?
- A: There is no relationship between the tariff and the PSP Retirement Program because the tariff is not variable based on the Benefits agreed to be paid by current active pilots to retired pilots under a voluntary deferred compensation agreement. The tariff generates revenues from vessels per task performed, and how PSP members decide amongst themselves to share tariff revenues subsequent to the performance of that task and the payment by the vessel is not a variable in the tariff.
- Q: Should the tariff charge a different rate for the same service based on the private, internal defined benefits agreements set by the pilots of PSP?

A: No.

Q: Does anything prohibit PSP from deciding to fully fund or partially fund its internal retirement plan obligations?

A: Nothing other than the state and federal laws governing retirement plans and pensions.

Q: Does the current tariff include a specific funding provision or formula based on the existence of, provision of, or payment of benefits of the Amended PSP Retirement Program?

A: No.

Testimony of Capt. Michael Moore, Exh. MM-01-104

1	Q:	Does the PSP proposed tariff include a specific funding provision or formula based on
2		the existence of, provision of, or payment of benefits of the PSP Retirement Program?
3	A:	No.
4	Q:	Does the lack of specific provision of funding or a formula based on the existence of,
5 6		provision of, or payment of benefits of the PSP Retirement Program in any way, shape,
0 7		or form limit the members of PSP from maintaining their own deferred compensation,
8		benefits, or retirement programs?
9	A:	No.
10	D	DCD and Individual Dilat Manulaus And Consultation and Englacingly in Constant of
11	В.	PSP and Individual Pilot Members Are Completely and Exclusively in Control of Their Own Private Pilot Retirement and Deferred Compensation Programs and
12		Satisfaction of Liabilities for those Programs and Retirements
13	Q:	Who are the participants in the PSP Retirement Program?
14	A:	Active and retired PSP Pilots or their surviving spouses.
15	Q:	Who has voting rights in the PSP Retirement Program?
16	A:	Active and retired PSP Pilots.
17	Q:	Who established the PSP Retirement Program?
18	A:	PSP created the current Retirement in 1982 and PSP has subsequently amended the plan.
19 20	Q:	Has PMSA or any other industry group ever been a signatory to the PSP Retirement
21		Program?
22	A:	No.
23	Q:	Has PMSA or any other industry group ever been a beneficiary of the PSP Retirement
24		Program?
25	A:	No.
26	Q:	Has PMSA or any other industry group ever been a participant in the PSP Retirement
	Testim	ony of Capt. Michael Moore, Exh. MM-01-105
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1		Program?
2	A:	No.
3	Q:	Has PMSA or any other industry group ever been vested with a right to vote on the terms
4		of the PSP Retirement Program?
5 6	A:	No.
7	Q:	Has PMSA or any other industry group ever signed a contract with PSP committing to
8		fund any specific expenses of pilots?
9	A:	No.
10	Q:	Has PMSA ever signed a contract with PSP committing PMSA or its members to fund,
11		assume liability for, or guarantee funding of pilot deferred compensation or pilot
12		retirement benefits administered by PSP?
13 14	A:	No.
15	Q:	Does PMSA have the authority or ability to commit members and other vessel
16		owners/operators to pay for charges which are extra-legal or beyond the tariff as
17		established by the State of Washington?
18	A:	No. Vessels are required to pay, and PSP is required to charge, the full tariff costs as
19		established by the state for pilotage services - not one penny more or one penny less.
20		RCW 88.16.120. Every vessel must pay in full at the time of service, allowing for
21 22		invoice and payment processing, and no private industry association has any authority to
22		assert differently. Neither the pilots, or their representative PSP, nor the vessels, or their
24		representatives, have any authority or ability to commit vessels to being liable for any
25		charges for any pilotage service which are not included within the four corners of the
26		tariff which is in place and applicable at the time that the pilotage service is provided.

1	Q:	Are there any rules that you are aware of that would prohibit PSP from partially funding
2		their own deferred compensation benefits from current pilotage revenues?
3	A:	No, none at all. If there are any restrictions on the PSP's internal funding or non-
4		funding decisions, they are entirely imposed on the pilots by their own collective actions
5		themselves under their PSP By-laws or PSP Retirement Program contract.
6		
7	Q:	To the best of your understanding, are individual pilot members of PSP eligible as
8		independent contractors also allowed under state and federal laws to establish individual
9		SEP IRA plans?
10	A:	Yes, state and federal law allow self-employed and independent private contractors to
11		participate in a SEP IRA program. The SEP IRA retirement funding vehicle was set up
12		by the federal government specifically for the self-employed and independent contractors
13		
14		who are not employees.
15	Q:	What is the incentive for PSP member pilots to participate in a SEP IRA program?
16	A:	PSP member pilots would establish and participate in SEP IRA plans to take advantage
17		of their associated tax savings and high contribution levels. These plans have the
18		highest tax-free contribution limits and are strongly recommended by financial advisors
19		for those individuals that qualify, and those contributions can be invested to grow
20		
21		significantly tax free. If pilots collectively are taking advantage of these tax-free
22		contribution limits, they would be allowed to make individual contributions totaling up to
23		nearly \$3 million per year to their SEP IRA plans.
24	Q:	To the best of your knowledge, do PSP member pilots participate in SEP IRA plans?
25	A:	Yes, while I have no direct evidence of the participation of any specific PSP member
26		pilots in SEP IRA plans, this participation has been confirmed in numerous conversations
	1	

1		in public and private settings regarding retirement, and given the size of pilots' annual
2		income it would frankly be surprising to me if they all were not taking advantage of the
3		SEP IRA benefit in order to minimize their tax liabilities while providing a significant
4		retirement benefit.
5	Q:	Are there other retirement benefits beyond the PSP Retirement Plan and SEP IRA that
6		individual pilots participate in?
7	A:	
8	A.	Pilot contributions to social security are also derived from pilot tariff revenues, as
9		required by federal law. Obviously, those benefits and payments are dependent upon
10		individual situations.
11	Q:	Are there any other retirement benefits that are available to PSP pilots in addition to the
12		PSP Retirement Plan, SEP IRA, and Social Security?
13	A:	Yes, most pilots have had a substantial career elsewhere in the maritime community prior
14		to joining PSP. See Section VI. As employees of the companies or entities that
15		to joining 151. See Section VI. As employees of the companies of entities that
16		previously employed them, for instance as masters in the Washington State Ferry system,
17		most pilots would have earned some specific form of retirement benefit prior to their
18		career as a PSP pilot. Of course, these benefits and payments are dependent on
19		individual situations and unknown to PMSA and earned outside of their piloting career
20		
21		and without any revenues generated by the tariff.
22	Q:	In addition to the PSP Retirement Plan, SEP IRA, Social Security, and any previously
23		earned retirement or pension benefits from a pre-PSP employment, are there any other
24		retirement benefits that are paid to a PSP pilot?
25	A:	Yes, under the PSP By-laws pilots are equity participants in PSP as each individual
26		licensee is required to "buy in" to the PSP partnership structure. This equity

participation in PSP of each individual pilot is then "bought out" and paid out over several years as a long-term capital gain on their investment in the PSP business when that pilot retires.

- Q: So, the current PSP system facilitates pilot retirement benefits from at least 5 separate sources?
- A: Yes, PSP pilots are likely eligible to receive at least 5 retirement payments, including from 1) the PSP Retirement Program, 2) the pilot's SEP IRA, 3) Social Security, 4) the retirement program from a pilot's pre-PSP career employer, and 5) the PSP equity "buy out" requirement upon retirement.

C. PSP Cannot Transfer Its Internal Obligations for Pilot Retirement Programs to the State

- Q: Is the State of Washington funding or obligated to fund the private PSP Retirement Program?
- A: No, the Legislature has specifically and explicitly taken steps to preclude the state from taking any liability for the private obligations regarding retirement entered into by PSP.
 Pursuant to RCW 81.116.020, while the UTC "may consider pilot retirement expenses" as an element of the tariff, which includes consideration of funded SEP IRA plans "under no circumstances shall the state be obligated to fund or pay for any portion of retirement payments for pilots or retired pilots."
 - Q: Are there any protections in law for the beneficiaries of an existing private PSP Retirement Plan?
 - A: Yes, the Legislature has specifically taken steps to ensure that if PSP presents the costs of a retirement plan to the state at the time a tariff is adopted as a basis for setting the rate

Testimony of Capt. Michael Moore, Exh. MM-01-109

1		then it must distribute benefits according to that plan. RCW 88.16.055.
2	Q:	Does that rule make the state responsible for reimbursing the specific costs of a pilot
3		retirement plan in a tariff?
4	A:	No, this statute only ties the hands of the active pilot members of PSP, not the State.
5	Q:	Is there any rule that says the tariff must be adjusted to address the specific costs of a
6 7		pilot retirement plan?
8	A:	No, and in fact, in years of tariff reductions, tariff freezes and non-adjustments in the
9		tariff there was no increase in the tariff to address specific and escalating costs of the
10		
11		pilot retirement plan. There were 8 years since 2008 when the tariff was not increased.
12		[Exh. MM-5]. Yet, despite this, payments from pilot incomes were paid out to retirees
12		without any correction or action taken to arrest these payments by PSP.
14	Q:	Is there any indication that the PSP Retirement Program should be treated as a public
15		retirement plan?
16	A:	No, if this were a public retirement plan then it would be governed by public rules and
17		administered and overseen by the Washington State Department of Retirement Systems,
18		meetings regarding administration of the plan would be given through public notice, the
19		public would be allowed to comment on the administration of the plan, all records
20		
21		regarding the plan would be subject to regular public scrutiny, and funding requirements
22		and accounting obligations applicable to public plans would need to be followed. None
23		of those conditions exist here.
24	Q:	Is there any publicly-approved, publicly-controlled, or publicly-audited fund into which
25		contributions which "fund" the PSP Retirement Program could be deposited?
26	A:	No.

IX. PSP'S PROBLEMATIC TREATMENT OF EXPENSES, COMPENSATION, AND INCOME ADJUSTMENTS

A. Essential versus Non-Essential Expenses

Q: Does PMSA agree with PSP that all operating expenses as reported in their financials are essential to the provision of PSP's monopoly pilotage service?

A: No. Regular essential expenses such as boat fuel, billing, and dispatching, which are components of providing the services to vessels covered by the tariff, are not the same as non-essential expenses extraneous to the provision of pilotage services to vessels.
Ratepayers should not be paying for the lobbying, political contributions, dues, license fees, conferences, or entertainment, consulting, and marketing efforts by a monopoly to perpetuate their monopoly over and above the actual costs of service. Reasonable consulting tied to essential services like pilot boat or computer issues is an exception but consulting to get more tariff is not in the same category.

Q: Should PSP be engaging in activities as if it were the pilots' employer?

A: No, PSP is an unincorporated association which was primarily formed to facilitate the provision of shared overhead of its member pilots, who are all independent contractors.
 Only those expenses which are necessarily shared overhead for all pilots, and not the personal expenses of an individual pilot or pilot corporation, are essential expenses.

Q: Provide an example of an expense that is non-essential for PSP because the expense is not a component of vessel service and PSP is not a pilot employer.

A: PSP has chosen to involve itself in the business of obtaining individual medical insurance coverage for pilots, which because it is not part of the provision of services to vessels, was a private business expense traditionally left to each independent contractor pilot or

Testimony of Capt. Michael Moore, Exh. MM-01-111

pilot corporation. In 2018, this was a \$1.5 million dollar expense for PSP. Exh. JN-04, pg. 28.

Q: Are there any other expenses which PMSA objects to as non-essential?

A: Yes, the payment of "Former director retirement" of nearly \$70,000 per year for an individual who is no longer a PSP employee. Compensation for the work completed by this individual should have been made during the term of his employment when it may have benefitted vessels and provided services to current pilots. However, a retired employee is, by definition, no longer providing any benefit or service to vessels. Moreover, when this individual was an employee, PSP should have provided for the funding of future liabilities of his retirement. For example, the 2018 PSP Financials indicate that the current Executive Director has a 401(k) and PSP paid payroll taxes to cover her social security obligations. If PSP did not previously provide these benefits for the prior Executive Director at the time of his employment, the payment for such a benefit now should come out of PSP's pocket, not out of current vessel tariff revenues.
Q: Provide a description of which PSP expense categories you consider essential and subject to reasonable recovery through a tariff.

A: Categories that we would categorize as essential are those that are "Direct Operating Expenses," this includes most operating expenses in the Seattle office actually essential to the delivery of the pilotage service, some of which may be direct or discretionary, all current expense categories at the Port Angeles Station, and all Pilot Boat operations expenses. For a list in more detail, please see attached a summary of PMSA-proposed "Puget Sound Pilots Expense Categories." [Exh. MM-36]

Q: What PSP expense categories may be considered non-essential or properly categorized as

Testimony of Capt. Michael Moore, Exh. MM-01-112

a distribution of revenue, benefits, or compensation to pilots?

A: Categories that we would characterize as non-essential are labeled "Discretionary Association Expenses" attached PMSA-proposed "Puget Sound Pilots Expense Categories." [Exh. MM-36] In this proposal we include several categories as both essential and non-essential, such as conferences or attorneys' fees, as they may be direct or discretionary depending on the nature of the expense. With respect to "expenses" that are actually payments to PSP pilots, including all benefits and payments, these should not be treated as direct operating expenses to PSP; they are distributions of income (see subsection B, below).

B. PSP Financials Do Not Include the Value of Pilot Benefits and Deferred Compensation and Equity Payouts in Computation of Average Net Income of Pilots

Q: Do PSP's financial documents capture actual total compensation of pilots?A: Absolutely not. The reported Average Net Income of pilots is reported as \$402,219 for

2018, labeled either "Annual earnings after deductions" or "Balance of Pilotage Revenue

Pooled Per Pilot" (Exh. JN-04, pg. 22-26). This per pilot Average is based on the reported "Net Income from Pooled Operations" revenue of \$20,490,266 (Exh. JN-04, pg.

7). But the reported \$402,219 average Net Income is an unclear and potentially

misleading statement which understates actual compensation to pilots.

Q: What are some examples of how pilot compensation exceeds the reported Net Income?

A: Various items listed as "Expenses" in the PSP Financials are actually payments from PSP to pilots as compensation, yet they are not included in per pilot income. For example, in 2018, \$1,036,161 in Transportation Fees were listed as "paid directly to pilots" as well as Individual Business Expenses, but both are included above the line as "Expense – other"

Testimony of Capt. Michael Moore, Exh. MM-01-113

1		(Line 8) and deducted from Revenues prior to the "Balance of Pilotage Revenue Pooled"
2		(Line 9). Exh. JN-04, pg. 22. While both of these are distributions of tariff revenues to
3		pilots, and are not association expenses, the PSP Financials include these in their
4		"Expense" category and not as part of the distribution of income to pilots.
5	Q:	Has PSP confirmed that Individual Business Expense and Transportation payments are
6 7		payments to pilots as reimbursement for out of pocket expenses?
8	A:	Yes. PSP has confirmed that "IBE are expenses paid personally by pilots – not paid to
9		individual pilots by PSP" and that Transportation is paid to pilots that "incur personally
10		
11		the travel expenses for those jobs." (PSP Response to PMSA DR 317) The
12		transportation payments are confirmed as paid to pilots after the "Pool Share Less
12		Operating Expense Share," thus not a part of PSP expenses and rightfully included in the
14		accounting for Net Income to pilots. (PSP Response to PMSA DR 332)
15	Q:	What would the proper Average Net Income be reported as in 2018 if you included these
16		"expenses" as distributions of tariff revenues to pilots as income?
17	A:	\$427, 961. The 2018 BPC Annual Report, pg. 30 [Exh. JR-5] correctly moved these
18		payments to pilots below the Expenses line, and explained that these are not Association
19		expenses, but rather payments to individual pilots in Note 3. While it does not address it
20		as such, the BPC Annual Report recalculates actual average Net Income per pilot for
21		
22		2018 upwards to \$427,961.
23	Q:	Are there other examples of pilot compensation exceeding the reported Net Income but
24		not being listed in the PSP Financials as income or compensation to pilots?
25	A:	Yes, the computation of pilot income in the PSP Financials does not include payments
26		made in the form of benefits or deferred compensation. There is no recognition in the

1		2018 PSP Financials of the compensation value to pilots of the benefits associated with
2		the \$1,560,772 payment for "Medical insurance – pilots" or of the present value of the
3		deferred compensation of "Puget Sound retirement" payment of \$4,626,971. Exh. JN-
4		04, pg. 28. At 60% of the overall claim of \$10.2 million in this category, these two items
5		of pilot benefits and compensation alone far and away represent the two largest expense
6 7		items listed in the current claim for "Seattle Office Operating Expenses." Yet, there is no
8		consideration of these in the financials as providing compensation value to pilots as
9		income.
10	0.	Are there any other pilot income variables which are accounted for outside of the
11	Q:	
12		reported average Net Income of \$402,219?
13	A:	Yes, "Note 10 – Unrecorded Liabilities" of the PSP Financials makes mention of the PSP
14		buyout, though this is not identified as a compensation item for pilots elsewhere in the
15		summation of pilot income or compensation levels. Exh. JN-04, pg. 19. The 2018
16		financials are unequivocal that pilots are "being paid out as of December 31, 2018" in the
17		aggregate amount of \$3,736,439. The 2018 annualized value of this payout to pilots is
18		listed as an additional \$246,363 in "payments to pilots" (Exh. JN-04, pg. 7)(Lines 12-
19		13), but this income is not included in the Average Net Income computation to pilots.
20	Q:	Do the PSP Financials estimate the value of the deferred compensation to pilots of the
21		PSP Retirement Program?
22	۸.	
23	A:	No. "An estimate of the unfunded retirement program liability as of December 31, 2018
24		and 2017, has not been determined." Exh. JN-04, pg. 16.
25 26	Q:	Has PMSA been able to confirm the actual amounts of income or payments made to PSP
20		members?

1	A:	No. PSP did not produce individual K-1 statements in response to PMSA discovery
2		requests. (PSP Response to PMSA DR 16).
3		
4	C.	PSP Is Inconsistent on of its Treatment of Deferred Compensation and Internal Deferred Payments
5	Q:	Is PSP consistent in its treatment of office expenses and benefits and deferred
6		compensation?
7 8	A:	No, and these inconsistencies are confusing when talking about office expenses and
9		overhead. Medical insurance benefits for current pilots as well as retirement payments to
10		former and not-currently serving pilots, are included in the \$10.2 million "Seattle Office
11		Operating Expense" category. (Exh. JN-04, pg. 22) But benefits paid to pilots are
12		neither an "Operating Expense" nor are they an "office expense." Just as other cost
13		categories are in the PSP Financials, these benefits should be clearly segregated as pilot
14		benefits and deferred compensation and should not be presented as part of the overhead
15 16		of running a specific office location.
10	Q:	Has PSP historically treated deferred compensation payments as part of the "Seattle
18		Office Operating Expense" category?
19	A:	Yes and no. These types of expenses have been included and removed from the "Seattle
20		Office Operating Expense" category, back and forth, over time by PSP. [Exh. JR-32] As
21		illustrated in the BPC-created "Puget Sound Pilots - Income & Expense Line Item
22		Comparison of Audited Financials" summary spreadsheets, prior to 2011 there was no
23 24		provision for "comp day" payments in PSP expenses, and the BPC spreadsheet notes that
24 25		these were "prev[iously] paid as distribution to active pilot." Then beginning in 2011,
23 26		PSP started to include payments for comp days in the "Seattle Office Operating

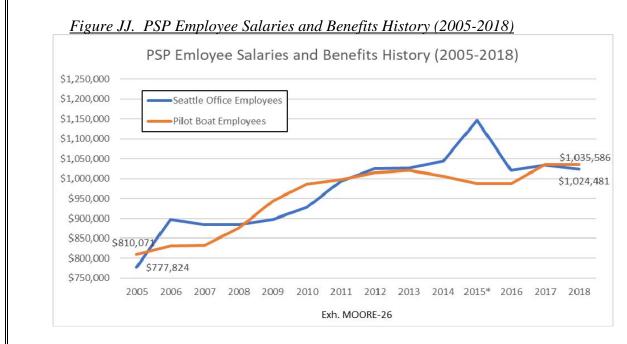
Expense." This occurred through 2015. Then PSP chose to remove these payments from the Seattle Office payment line altogether.

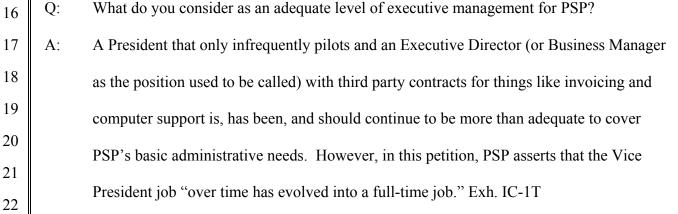
Figure II.	Income &	Expense	Line Item	Comparison	of Audited Financials	(2011-2017)

4	1 Puget	Sound Pilots - Income & Expense Line Item Comparisio	n of Audit	ted Financials		<u>, sompur</u>		11000000			<u> </u>
5	3 THE E data o are pr format	BPC makes no representations regarding the correctness of the in these pages or the validity and/or relevance of how the data esented. The Board staff has attempted to present the data in a that provides a mechanism for analysis in a manner requested	% ∆ 2017/2016	1/1/2017 +0%	1/1/2016 +0%	2015 1/1/15 Rev Neutral	1/1/2014 +0%	@ 1/1/2013	1/1/12 +0%	no Tariff change	+3% 7/1/10 4% 7/1/08
	4 5	by some Board members.	2017/2018	12/31/2017	12/31/2016	7/1/15 ~+ 2% 12/31/2015	12/31/2014	+3% 12/31/2013	12/31/2012	(18 mo tariff) 12/31/2011	12/31/2010 12/31/2009
6	20 Attorn	LE - expenses ey fees ission - SILA	27.5%	\$ 95,458 150,000	\$ 74,855	\$ 51,605	\$ 96,244	\$ 11,578	\$ 28,043	\$ 8,396	21,240 53,063
7		day expense - see Notes on f/s adjust to match 2016 & 2017		,		163,120 (163,120)	407,238 (407,238)	760,596 (760,596)	603,785 (603,785)	290,385 (290,385)	<-prev paid as distribution to active pilo
0		uter maintenance or system uter programming	12.0% 242.1%	181,189 139,579	161,841 40,804	329,568 4,862	278,310 4,466	203,166 3,541	209,101 7,041	203,750 5,531	181,837 219,927 3,479 2,936
8											
9	Q:	Is the treatment of bene	efits	and det	ferred c	ompen	sation e	expense	s consis	tent wi	th the PSP
0		By-laws?									
1	A:	Currently, these deferre	ed co	ompens	ation it	ems are	e being	treated	in a ma	nner wł	nich is
2		seemingly inconsistent	with	the PS	SP By-l	aws, w	hich dis	stinguisl	h Benef	its (Sec	. 16.9)
3					-			-			,
4		from Expenses (Sec. 16	5.6)	with rea	spect to	how the	ney nee	d to be	treated j	prior to	
4 5		distribution of pilot ear	ning	S.							
5											
6	D.	Administrative Overh Pilotage Net Income	ead	Is Inc	reasing	and Is	s Impro	operly I	ntermi	ngled v	vith
7	Q:	What concerns does PM	ЛSA	have v	vith res	pect to	PSP A	dministi	rative co	osts and	l overhead?
8						r					
9	A:	PMSA is concerned wi	th bo	oth the	size of	the Ad	ministra	ative ov	erhead	of PSP	being
20		unreasonably large and	wit	h the st	ructure	, and ac	countir	ng for, t	he creat	tion of 1	new
1		Administrative overhea	ıd.								
2	Q:	What are your concerns	s reg	arding	the size	e of Ad	ministra	ative ov	rerhead	?	
3	A:	PSP's business is not a	larg	e opera	tion no	or a com	nplex or	peration	. Of the	e 15 tot	al
4			_	-							
5		employees (Exh. JN-04	l, pg	. 31), tł	nere is o	one Exe	ecutive	Directo	r who n	nanages	5 5
26		additional office emplo	yees	s, and 9	boat ci	rew em	ployees	under	the man	agemei	nt of a Lead
		Boat Operator. There a	are e	ssentia	lly only	y two m	anagers	s and the	eir worl	c are	

Testimony of Capt. Michael Moore, Exh. MM-01-117

complemented by a licensed pilot serving as PSP President, whose duties under the PSP by-laws provide for near full time administrative and office work. This level of upper management and employee structure had resulted in a relatively stable expense level have been in place for many years. [Exh. MM-26]





Q: Why does the assertion that the pilot serving as Vice President raise administrative cost questions?

A: This arrangement will, in effect, drive up PSP administrative costs without claiming them as expenses and the Petition is seeking to intermingle and pay for this new

Testimony of Capt. Michael Moore, Exh. MM-01-118

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overhead by burying it as pilot Net Income. As testified to by the PSP Vice President in his testimony, he spends "a substantial amount of my time compiling and analyzing data to work on our tariff design..." while collecting a full pilot share of ship provided revenues. (Exh. IC-IT) For all intents and purposes it seems that PSP has created an office with 3 executives, the PSP President, Vice President, and Executive Director, supervising 5 people. The administrative cost of having these three managers alone is approximately \$1,168,690. [Exh. MM-27]

Q: How else does this executive office overstaffing negatively impact the pilotage ground?
A: This over-staffing by the PSP executives in the office not only unnecessarily increases costs to shipping it also contributes to the creation of callbacks and delays which, ironically, the PSP Vice President is testifying to in an attempt to justify more tariff. From the perspective of those required to use pilot services, this would be characterized as an unnecessary and unfair lose/lose proposition. The Vice President might want to earn a pilotage share of revenue while spending time analyzing the tariff in the office instead of working on the water, but he is not a staff analyst employee of PSP, instead he holds a state issued license to perform pilotage service, not full time administrative service at pilot income levels. Instead of focusing on piloting, the Vice President reported working on "administrative assignments" 245 times in 2019; as for time on the water, he performed 20 jobs in rotation and 12 callbacks, totaling 32 vessel moves in the entire year. (PSP Response to PMSA DR 78).

Q: Why is there concern about the proper accounting and reporting of this type of administrative overhead?

A: Taking a pilot off of the water in order to perform administrative tasks has implications

Testimony of Capt. Michael Moore, Exh. MM-01-119

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for the tariff with respect to both staffing and expenses in the office. If additional administrative office support is necessary, the most cost-effective option for providing this support would surely be to hire an administrative executive or assistant at a wage lower than that of an expensively trained mariner with a state issued pilot license. A pilot should not be paid a net income of \$402,219 plus other PSP benefits and allowances to spend the majority of the year sitting behind a desk.

With respect to impacts on piloting on the water, the Vice President himself testified that through September of 2019 that there were 72 delays due to a shortage of pilots (Exh. IC-1T). But during calendar year 2019 he completed a total of only 32 pilotage assignments. If PSP were prioritizing providing pilotage service, fatigue management, and efficiency on the water, simply having the Vice President available to pilot only 104 assignments in 2019 would have alone provided enough additional capacity to cover those delays absent efficiency improvements to their operations. The Vice President's impacts on piloting are even more concerning considering the fact that, although the Vice President only averaged to get on the water to move a vessel 2.67 times a month, 37.5% of his jobs were callbacks.

E. Self-Insurance Charges

Q: Is it appropriate for PSP to ask industry to pay the pilots' \$150,000 annual share of the self-insurance settlement charges?

- A: No, and we object to this request.
- Q: What are the Self-Insurance Charge Payments?
- A: These are charges imposed on the BPC by the Legislature to cover state costs associated with the liability attendant to a gender discrimination lawsuit. In order to pay the state

Testimony of Capt. Michael Moore, Exh. MM-01-120

back and to cover the BPC in the future, self-insurance charges are being levied on pilots and on vessels. These charges were divided by the Legislature and PSP for 6 years and the tariff was frozen so pilots couldn't expense their portion of the state-required out-ofpocket commitment and attempt to get tariff increases due to increasing these "expenses". Engrossed Substitute House Bill No. 1160, Section 108 (2017). WAC 363-116-301, the section implementing this surcharge, is in effect through June 30, 2021, and already directs the collection of an additional surcharge for the purposes of recouping the costs of the self-insurance premiums. Q: Why is PMSA opposed to this proposed charge? A: By attempting to pass along the PSP share of insurance charges by increasing the tariff, PSP is attempting to skirt the structure of RCW and WAC directed payments. Even worse, PSP is asking vessels to pay twice – once through legislatively-imposed surcharge and second through a higher tariff. This is not only untenable given the specific legislative restrictions on these surcharges but also because it ultimately forces vessels to

pick up the entirety of the cost of the liability for claims in which vessels played absolutely no role whatsoever (for instance, gender discrimination in the training program). Finally, if built into the tariff it will grow and compound and be used for general PSP income as opposed to being responsive to a specific legal requirement set out by the Legislature and administered by the BPC. We do not believe it is appropriate for PSP to ultimately profit off of the gender discrimination lawsuit to the detriment of

- ratepayers.
- F. Transportation Expenses

Q: Are transportation expenses adequately explained and consistent?

Testimony of Capt. Michael Moore, Exh. MM-01-121

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1	A:	No. PSP reported \$1,029,520 in 2017 and \$1,036,161 in 2018 which is representative of
2		charges for many years. (Exh. JN-04). For the July 1, 2018 to June 30, 2019 work period,
3		PSP's submission, which listed \$463,098 for transport to and \$465,724 for transport from
4		totaling \$928,822 (Exh. WTB-07), this is seemingly consistent with the 2017 and 2018
5		charges. However, PSP lists \$719,496 in transportation fees paid directly to pilots for the
6		twelve months ended June 30, 2019 (JN-05). And, in pro forma year 1 (Exh. WTB-03)
7		
8		they list transportation revenue at \$1,386,408.
9	Q:	Is an increase in transportation revenue consistent with other PSP projections in its
10		Petition?
11	A:	No, because Transportation expenses should track actual expenses for pilots traveling to
12		and from assignments. As clearly described by PSP testimony (Exh. SK-1T), the pilots
13 14		are forecasting even further declines in vessel traffic as well they should. Fewer vessel
14		assignments should result in reduced traveling to and from assignments, and therefore
16		lower transportation costs, but the pro forma shows a nearly 50% increase.
17	Q:	Do the Transportation expenses clearly show how charges are being assessed?
18	-	
19	A:	No, if testing with actual receipts lowered transportation revenue by some \$316,665 in
20		the twelve months ended June 30, 2019 that should be reflected in reduced charges in
20		addition to the need for clarifying repositioning volumes and actual costs.
21	G	. Attorneys' Fees
23	Q:	What concern does PMSA have with PSP's proposal to increase spending on attorneys'
24	Q.	
25		fees?
23 26	A:	The PSP Proposal significantly increases the annual Attorney Fees expenses in a manner
20		which raises questions about whether or not these services are essential to the provision
	Testin	nony of Capt. Michael Moore, Exh. MM-01-122

of a pilotage service. Historically, annual attorneys' fees have been far less than what PSP plans to spend in their proposal. [Exh. MM-28]

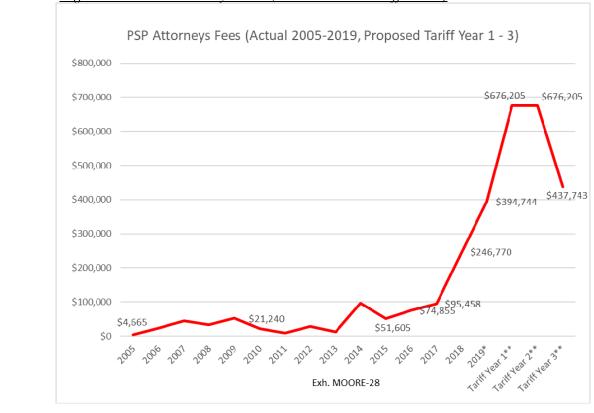


Figure KK. PSP Attorneys Fees (2005-2019 + Tariff Years)

From 2005-2017, attorney fees ranged from \$4,665 per year to \$95,458 per year, with an average of \$41,956. In 2018 they increased to \$246,770, which alone was an increase over the historic average of 488%.

Q: How do these historical attorney fees compare to the PSP proposal?

A: PSP is asking for the tariff to cover exceptionally large attorney fees compared to its historic need. While historic attorney fees through 2017 averaged \$41,956 per year, that pales in comparison to the \$1,790,153 in attorney fees PSP lists in its Pro Forma. (Exh. WTB-03, Exh. WTB-04, Exh. WTB-05) These are not reasonable, incremental increases.

Testimony of Capt. Michael Moore, Exh. MM-01-123

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PSP significantly increases attorney fees and then plans to incorporate them as a permanent fixture under the tariff.

- Q: Have you observed PSP activities which are departures from the historic practices of PSP which might explain the rapid growth in attorneys' fees?
- A: I have observed a trend towards the substitution of an attorney speaking on behalf of PSP generally. This has occurred at BPC meetings over the past year where PSP is now represented by counsel and its attorneys speak on their behalf instead of the President and Executive Director, who also both attended these meetings, even on non-legal issues. In several instances I have been surprised when the lawyer attempted to answer questions about things like pilot fatigue instead of the President or Executive Director. This is not an essential component of piloting service nor is it an effective use of tariff resources. Substituting counsel to make non-legal arguments with the BPC instead of simply having PSP executives and staff participate with respect to operational questions, as has been the historic norm, should not be enshrined in the tariff.
 - H. PSP Expense Projections Are Unjustified
 - Q: Does PMSA have concerns about other projected levels of spending proposed in the PSP Petition?
 - A: Yes, PSP expenses seem over-inflated, likely because they utilize projections based on the premise that the UTC should be funding the pilotage system on the basis of 61 licensed pilots rather than the current number of authorized pilots. With an inflated number of pilots, it would be necessary to adjust operating expenses and account for extending benefits and deferred compensation to the additional (non-existent) pilots.
 - Q: Are projected benefits subject to this over-inflated projection concern?

Testimony of Capt. Michael Moore, Exh. MM-01-124

1	A:	Yes, with respect to benefits, such as medical, license fees, and disability insurance, PSP
2		projects expenses based on 61 licensees, yet there were only 51 actual licensed pilots at
3		the end of 2019. When expenses are adjusted to the actual number of pilots as opposed
4		to an aspirational number of pilots, this means less spent on medical (approximately
5		\$31,000 per year per pilot), individual pilot license fees (\$6,500 per year per pilot), and
6 7		individual pilot disability (approximately \$5,000 per year per pilot). PSP's total over-
8		inflation of these benefits amounts to approximately \$467,500.
9	Q:	Is the projected rate of growth of operating expenses reasonable?
10	A:	No, PSP estimates that their Operating Expenses will increase 12.5% in each of the first
11		two years. Given that the trend in actual operational expenses has been decreasing or flat
12		
13		for years, and that PSP itself has projected fewer future vessels to service, there is no
14		justifiable reason to assume a 12.5% growth in operational expenses. [Exh. MM-17] If
15		applied to all expenses, this inflates expenses by \$1,500,000.
16 17		X. STATE REGULATION OF PILOTS MUST ENHANCE WASHINGTON'S COMPETITIVENESS FOR WATERBORNE COMMERCE
18 19	А.	State Policy Under the Pilotage Act is to Develop and Encourage Waterborne Commerce
20	Q:	The Legislature in RCW 88.16.005 declares that it is the "intent of the legislature not to
21		place in jeopardy Washington's position as an able competitor for waterborne commerce
22		from other ports and nations of the world, but rather to continue to develop and
23		encourage such commerce." Should the UTC's consideration of PSP's Petition be made
24 25		in the context of this Pilotage Act policy?
25 26	A:	Yes, while rate setting functions under the Pilotage Act have been transferred from the
20		
	Testim	nony of Capt. Michael Moore, Exh. MM-01-125

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BPC to the UTC, the State's findings and declarations about the importance of embracing the economic competitiveness goals of this regulation remained unchanged and are applicable to rate setting. Q: Does the Pilotage Act define "waterborne commerce"? A: It does not. Q: How does the Washington legislature use and apply this term in other statutory contexts? A: In the taxation and regulation of port and waterfront properties, the State has made it clear that waterborne commerce refers to the shipment of goods in foreign and domestic commerce by water. For example, in the state Business & Operations Tax context, there is a special rate conferred on stevedoring services, the business of loading and unloading oceangoing vessels at a marine terminal. In so limiting taxes on the business of stevedoring, the statute describes it as "activities pertinent to the conduct of goods and *commodities in waterborne interstate or foreign commerce* are defined as all activities of a labor, service or transportation nature whereby cargo may be loaded or unloaded to or from vessels or barges, passing over, onto or under a wharf, pier, or similar structure."

(emphasis added) RCW 82.04.260 (7). With respect to the usage of waterfront lands, the state often refers to the preference for the reservation of rights for waterfront property to be used for port-related activities as for the conduct of shipping goods, such as when logs are prepared or stored for "shipment in waterborne commerce." RCW 79.106.060 (10).

Q: Do these statutes refer to vessels' operations in waterborne commerce or to the shipment of goods via maritime operations in general?

A: The phrase "waterborne commerce" is very specifically used with respect to the carriage,

Testimony of Capt. Michael Moore, Exh. MM-01-126

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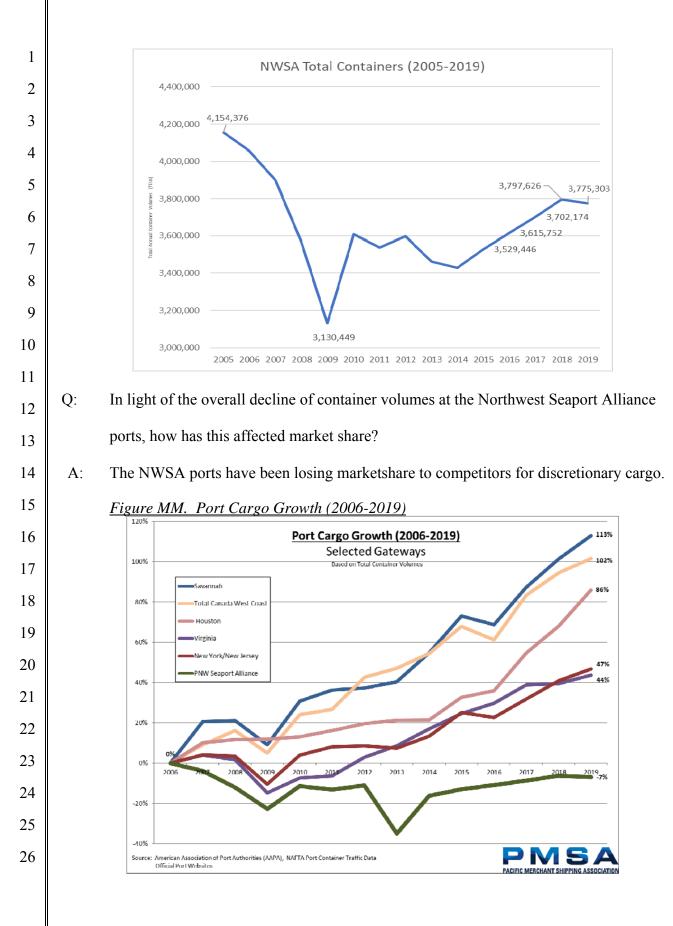
transfer, and movement of the goods in transit.

- Q: Are there statistical resources available from the state which utilize an interpretation of "waterborne commerce" to refer to the goods being moved themselves?
- A: Yes, the JTC Transportation Resource Manual, January 2019 update, continues to refer to total cargo throughput at Washington's seaports as "waterborne commerce," as the TRM has done in prior versions. [Exh. MM-29]
- Q: When the United States Army Corps of Engineers performs an evaluation of waterborne commerce, does the US Army Corps of Engineers also measure the volumes of goods shipped as a measure of waterborne commerce consistent with the JTC TRM?
- A: Yes, when publishing data about cargo volumes, the Army Corps affirmatively describes its role as capturing and reporting waterborne cargo statistics. [Exh. MM-30]
- Q: In any of these contexts where "waterborne commerce" refers to the shipment of goods via water, is the phrase used to mean the regulation of the navigation of vessels?
- A: No.
 - Q: What then is your opinion of the most reasonable context under which the Pilotage Act refers to avoiding putting Washington's ability to compete in "waterborne commerce" in jeopardy?
- A: I do not believe that the Legislature or the Board of Pilotage Commissioners, or the vessel customers of pilots, or licensed pilots themselves would ever ask vessels transiting the Puget Sound to improve the State's competitiveness by lowering safety standards or shorting the licensing requirements of pilots. Given my belief that the State would never knowingly compete for cargo by compromising safety, and the fact that waterborne commerce refers to the growth of cargoes in other statutory contexts, the only place

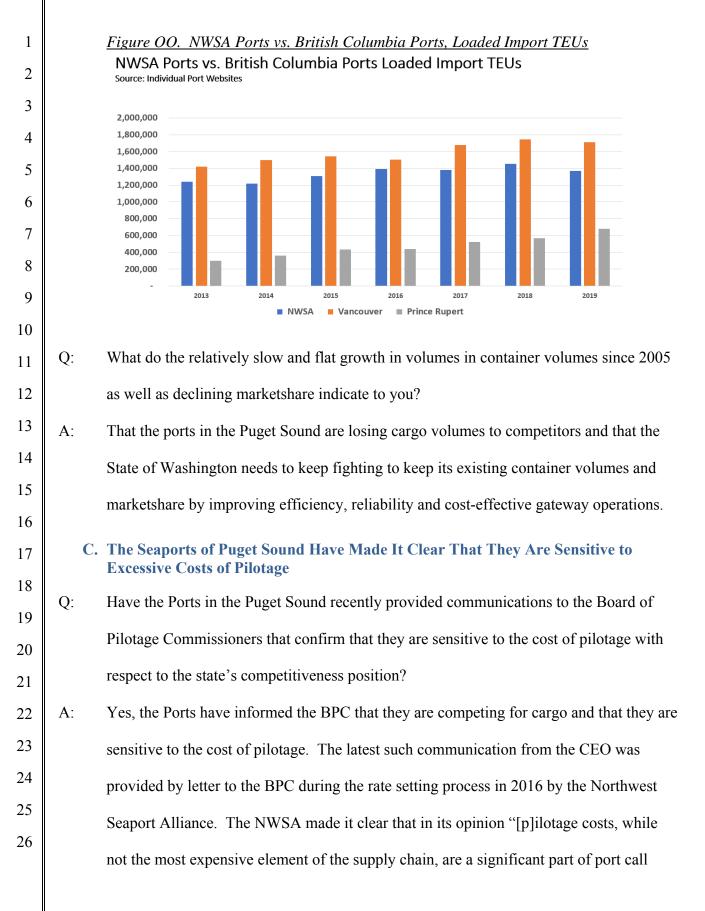
Testimony of Capt. Michael Moore, Exh. MM-01-127

1		whereby the Pilotage Act can be implemented so as to ensure that the tariff does not
2		become uncompetitive with respect to the state's position via discretionary cargoes is
3		with respect to maintaining a reasonable and manageable tariff.
4	_	
5 6	В.	Washington State's Gradual Decline in North American Marketshare in the Container Market Exposes Weaknesses in the Competitiveness of Puget Sound Seaports
7	Q:	What does PMSA suggest is the best measure of the state of waterborne commerce in
8		Puget Sound?
9	A:	With respect to the container trades at the Northwest Seaport Alliance ports, the Ports of
10		Seattle and Tacoma, total containerized tonnage and total container volumes at the ports
11		
12		are the best indications of a gain or loss of cargo and competitive market share.
13	Q:	What is the history of the volumes of the container trades at the Northwest Seaport
14		Alliance (NWSA) ports?
15	A:	The Ports of Seattle and Tacoma, now operating as the NWSA, have lost cargo since the
16		intermodal throughput peak at the ports in 2005 of 4,154,376 TEUs. At the close of
17		2019, after 5 years of steady gains, volumes crested at 3,775,303. While the NWSA was
18		very steadily productive and growing volumes from 2014 to 2018, that growth has
19		slowed. Fifteen years later, the Ports are still below their 2015 peak by nearly -10%.
20		
21		[Exh. MM-32]
22		
23		
24		Figure LL. NWSA Total Containers (2005-2019)
25		
26		
	Testimony of Capt. Michael Moore, Exh. MM-01-128	

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1 The overall lack of growth through the NWSA gateway since 2005 is starkly illustrated 2 when contrasted with many other North American ports which are growing their 3 container volumes much faster. [Exh. MM-33] 4 The NWSA Ports of Seattle and Tacoma have seen their combined overall North 5 American market share of containerized import tonnage from East Asia decrease from 6 11.9% in 2003 to 7.7% in 2019. [Exh. MM-33] 7 Figure NN. NWSA Ports' Share of US Containerized Import Tonnage (2003-2019) 8 NWSA Ports' Share of U.S. Containerized Import Tonnage from East Asia: 9 2003-2019 Source: U.S. Commerce Department 10 14.0% 11 12.0% 10.0% 12 8.0% 13 6.0% 4.0% 14 2.0% 15 0.0% 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 16 NWSA 17 Q: What is the history of the market share of the ports of the Northwest Seaport Alliance 18 when compared with the container ports of British Columbia? 19 A: The loss of marketshare in the largest trans-Pacific trade lane, East Asia to North 20 America is a primary reflection of the lower overall volumes at Puget Sound ports. The 21 biggest competitor for Puget Sound cargoes are the British Columbia ports of Vancouver 22 23 and Prince Rupert. [Exh. MM-33] 24 25 26 Testimony of Capt. Michael Moore, Exh. MM-01-130 FG:10983767.1



1		costs which continue to be a point of concern to the NWSA and to our customers it
2		is alarming to us and to our customers that at this time when pilotage revenues are at
3		record levels, rate increases are being contemplated and that increases of as much as 7%
4		are under consideration. When bigger ships call our region, revenue per pilot assignment
5		will climb. Future tariff decreases may be in order. We strongly believe tariff increases
6		
7		should only be made when necessary to ensure continued safe pilotage I urge you to
8		make no increase in tariff rates and to soon after explore and implement ways to
9		fundamentally change the basis by which rate adjustments are proposed and considered."
10		[Exh. MM-34]
11	Q:	Were these comments made with respect to the rates imposed under the current tariff?
12	A:	Yes, moreover, this letter was written with respect to a request to the current tariff of 7%,
13	11.	
14		the current PSP Petition is for a much larger increase, and before revenue per assignment
15		grew even higher to current levels.
16	Q:	Are there other examples of Port testimony provided to the BPC?
17	A:	In testimony made during the BPC rate setting hearing in 2013, representatives of the
18		Port of Seattle and Port of Tacoma testified together to oppose a proposed rate increase,
19		and stated:
20		
21		"We appeal to this Board to restore the connection between the reasonable costs of
22		pilotage services and the fees charged for those services. We ask that you seek to
23		improve, not diminish, the level of transparency relative to these costs. And we
24		particularly view these issues as important in light of the fact that there is no competition
25		for pilotage services within Puget Sound. We believe there is sufficient revenue being
26		generated for safe and reliable pilotage and that any cost increases would further impact

1		the competitive position of our region. For these reasons, we ask you to adopt our
2		proposal which consists of no tariff increase, no variable expense category, and a cap on
3		tonnage and length overall assessments for vessels greater than 1,100 feet length overall,
4		and 110,000 tons." [PMSA_000668 to PMSA_000672 (PMSA Response to PSP DR 75)]
5	Q:	Have ports in the Puget Sound competed with other ports by identifying themselves as
6	Q.	
7		low fee or no fee ports?
8	A:	Yes, most notably in a campaign in trade publications, the Port of Seattle proclaimed
9		itself "fee free" in an effort to grow market share in 2009. [Exh. MM-35]
10	D.	Relative to Seaport Revenues, Pilotage Is Not An "Infinitesimal" Supply Chain Cost
11	Q:	Is the cost of pilotage an "infinitesimal" supply chain cost in the Puget Sound?
12	A:	Absolutely not.
13	Q:	What is the total cost of pilotage in the Puget Sound?
14		
15 16	A:	Annual total pilotage revenues in 2019 were \$33,691,940 under the current tariff, but if
16 17		one steps back and looks at PSP revenues over the past 10 years, in the decade from
17 18		2010-2019, pilotage costs for vessel customers have totaled \$324,438,279. [Exh. MM-4]
18 19		I would respectfully submit that any entity which can raise revenues of nearly 1/3 of a
20		billion dollars, regardless of where they sit in the intermodal supply chain, is not
20		"infinitesimal."
22	Q:	How does this total cost of pilotage relate to other publicly-known and publicly-imposed
23		supply chain costs?
24	A:	Annual total seaport revenues from all of the public port authorities in the Puget Sound in
25	л.	
26		2018 were \$229,800,000. [Exh. MM-39]. When the total revenues of all Puget Sound
		pilotage costs in 2018 of \$33,996,994 are compared to total seaport revenues, pilotage
	—	

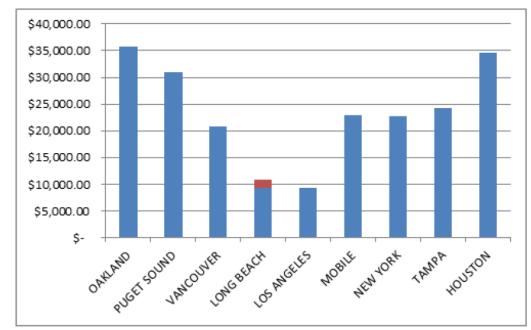
1		represents an additional 14.79% of the total revenues earned from all of the commercial
2		seaport operations at all of the public ports in the Puget Sound for an entire year. An
3		almost 15% share over and above the revenue generated to pay for the actual
4		infrastructure needed to move the cargo carried by the vessels being serviced is not
5		"infinitesimal."
6	Q:	Why is this relevant to the Pilotage Act?
7	Q .	viry is this relevant to the r houge ret.
8	A:	Most port seaport revenues are tied to volumetric leases, so they represent the health and
9		strength of total throughput of waterborne commerce. These are precisely the types of
10		policy considerations that should be viewed through the lens of the state policy
11		enunciated in the Pilotage Act, to protect and enhance state commerce.
12		
13	E.	The Relative Costs of Pilotage to Port Operations in the Puget Sound Are Significantly Higher Than When Compared to Other West Coast Competitor Ports
14	0.	
15	Q:	Based on the overall position of the ports of the Puget Sound compared to other west
16		coast ports, does Puget Sound's relative pilotage burden seem "infinitesimal" to its
17		competitors?
18	A:	No, to the extent that competitors are taking advantage of the cost structure of pilotage
19		that impacts the ports in the Puget Sound, tariff increases put Washington State ports at a
20		competitive disadvantage.
21	0.	
22	Q:	Are other West Coast ports identifying the relatively high costs of pilotage in the Puget
23		Sound when compared to their own operations?
23	A:	Yes, most recently in the Port of Long Beach, when it decided to raise its pilotage tariff
25		in 2019. The Port of Long Beach staff report specifically considered the potential of
26		pilotage costs to impact its competitive position when considering the increase:
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"Jacobsen's pilotage rates are substantially lower than any prominent port in the U.S. (except POLA) and despite the proposed pilotage rate increase, POLB would remain in a competitive position.

Jacobsen surveyed current pilotage rates for a 13,000-TEU vessel at a sample of major North American ports, including Long Beach, Houston, Los Angeles, Mobile, New York, Oakland, Puget Sound, Tampa, and Vancouver. With the exception of Port of Los Angeles (POLA), Jacobsen's pilotage rates continue to one of the lowest in the nation as illustrated in the graph below. (Note the red identifies the proposed Pilotage rate increase.)"

Figure PP. Port of Long Beach Pilot Comparison



Justification for the Port of Long Beach's rate increase included evaluation of the positions of the Ports of Long Beach and Los Angeles to its competitors for containerized cargo. Long Beach compared very favorably when compared to Puget

Testimony of Capt. Michael Moore, Exh. MM-01-135

Sound, which was identified by the Port of Long Beach staff analysis as among the most expensive ports when compared with other competitors for containerized cargoes. [Exh. MM-38]

XI. WATERWAY TASK COMPARISONS SHOULD BE LIMITED TO NAVIGATION BY SIMILAR LICENSEES ON WASHINGTON STATE WATERS

A. Comparable Pilotage Tasks in Washington Waterways

Q: How would you compare the pilotage responsibilities of all master mariners operating inWashington State waters with federal or state pilotage endorsements?

A: The responsibilities of all federally licensed pilots operating on the Puget Sound are very comparable to those of state licensed pilots, with one caveat, when a pilot operating under their federal license is also serving as a vessel master that individual has ultimate responsibilities for the safe operation of the vessel, its crew, its passengers, and cargo, which are responsibilities well beyond the role of acting only as a pilot. The process of granting federal pilotage endorsements to master mariners, and the training and background necessary for the acquisition of federal pilotage endorsements, are very similar and in many cases identical to portions of the training process for the acquisition of a pilot's license from the state of Washington.'

Q: Can you provide an example of the ways in which recipients of federal pilot licenses must be trained in ways which are similar or identical to training for a state pilot license?
A: All masters and mates go through training evolutions and required experience in order to obtain their licenses and upgrades, This typically involves radar courses, simulator training, rules of the road testing in addition to other types of training including how to

Testimony of Capt. Michael Moore, Exh. MM-01-136

respond to on board emergencies and training for specific equipment and controls on the bridge. In addition, pilotage endorsements all require drawing charts from memory to demonstrate local knowledge.

Q: Have you reviewed the testimony of Capt. Scott Coleman at Exh. SC-1T-1 to SC-1T-16?A: Yes.

Q: Is much of what is described here similar or identical to the training for a state pilot license that is described in the testimony of Capt. Coleman?

A: Yes, and now that potential applicants to be a trainee in the PSP training program are not required to have federal pilotage endorsements prior to becoming a candidate for a state license the requirements are not only very similar or identical, they are very much intertwined.

Q: Do you agree with the testimony of Capt. Coleman at SC-1T-7 that "[i]f the goal is to become a state pilot for the Puget Sound, the candidate is required to obtain an 'All Puget Sound and Connecting Waters Endorsement,'" and that to achieve that endorsement requires meeting US Coast Guard training standards and requirements?

A: Yes.

Q: Please provide a description of the authorities and duties of a federally licensed pilot sailing under a federal endorsement.

A: Pilots or masters serving as a pilot all serve the same role as far as piloting is concerned which is essentially ensuring a safe transit regardless of whether they are sailing under a state or federal license: the licensed pilot uses their experience and local knowledge to help navigate a vessel into and out of port safely or between berths and/or anchorage grounds. Of course, the master acting as pilot still has all the responsibilities of a master

Testimony of Capt. Michael Moore, Exh. MM-01-137

and so has duties beyond the pilot advisory role. One key difference between the licenses with respect to pilotage are not the type of job or service provided, but rather the different pilotage governance structures and different requirements for a license. For example, the state does not regulate WSF's masters like they do state licensed pilots as that jurisdiction remains with the US Coast Guard.

Q: Do federal and state pilots both provide the same services to the same vessels? A: Yes, the pattern of whether a vessel is piloted by a federal or state pilot is not necessarily dependent on the type of vessel or flag of vessel in every port, instead it rests on the decision of whether or not a state has asserted jurisdiction over that licensing function and against which vessels. Here on the west coast, our member vessels call on multiple ports, including the busiest ports in the country, like the Ports of Los Angeles and Long Beach, but also other smaller harbors such as Port Hueneme and the Port of San Diego, all of which have pilots which are operating under federal pilotage grounds. That same ship as it transits up the coast may then also call on harbors that are state pilotage grounds like in San Francisco, the Columbia River, or in the Puget Sound. Pilots providing service in federal pilotage grounds like Long Beach must still hold a proper license with the appropriate federal pilotage endorsements for their waters. In these federal pilotage grounds pilots are held accountable directly by the US Coast Guard as the pilots in those harbors are acting under the sole authority of the pilotage endorsements on their federal licenses. This federal endorsement requirement is also true for vessels on a coastwise voyage where the master can serve as the pilot in state waters if he or she holds the federal pilotage endorsement for those waters, then such an oceangoing vessel is not required to take a state licensed pilot, but will still have a licensed

Testimony of Capt. Michael Moore, Exh. MM-01-138

pilot on board and conducting that work.

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0: What differences exist in the Puget Sound between masters serving vessels as state licensed pilots and ferry and other vessel masters serving as federal pilots? A: Puget Sound pilots must both obtain federal pilotage endorsements along with a state license, but these endorsements are all in place to serve the same role - to help ensure a safe transit. The Puget Sound Pilots are required to obtain the pilotage endorsements from the Coast Guard before they can receive their state license. The Coast Guard retains licensing authorities over state pilots with respect to receiving medical clearances and drug testing, and obvious controls regarding waterways management, but the State of Washington has primary responsibility for direct oversight of Puget Sound Pilots including licensing and accountability. While the state pilots are directly regulated under the Pilotage Act, most pilotage on Puget Sound is directly regulated by the US Coast Guard as the masters of the Washington State Ferry system comprise the largest ferry operation in the world. Each and every WSF Master and Mate with navigational duties must hold an appropriate first-class pilotage endorsement form the Coast Guard for the route and vessel they serve on and are in fact masters also serve as the pilot. The Coast Guard has responsibility to hold them accountable should there be an incident or unacceptable performance or questions regarding fitness to serve.

Q: With respect to similarities, are WSF masters required to obtain the same federal license to operate as a pilot on Puget Sound waters as members of the Puget Sound Pilots?
A: Yes, the possession of a pilotage endorsement for Puget Sound is a requirement of being a WSF ferry master and this requirement is also spelled out unequivocally in the WSF Collective Bargaining Agreement covering masters at §5.3 [Exh. JR-21]:

Testimony of Capt. Michael Moore, Exh. MM-01-139

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2		"5.3 Pilotage Required
3		A. All vessels of the Employer, while underway, not under its own power, must be
4		under the direction and control of a pilot, who possesses a pilotage endorsement for
5		the particular waters through which the vessel is being moved.
6 7		B. Only employees on the Masters eligibility list who possess a pilotage endorsement
8		for the particular waters through which a vessel is moved under its own power shall
9		be authorized or permitted to move the vessel as its Master."
10	Q:	If WSF masters are holders of the same federal pilot's license as PSP pilots why are the
11	-	WSF masters not allowed to offer their services to the same vessels as PSP pilots?
12	A:	State law prevents such an offer of services, as RCW 88.16.070 requires that, with
13	A.	
14		respect to the piloting of specific ocean-going vessels, such an offer of service and then
15		provision of pilotage is reserved solely to state-licensed pilots. All state-licensed pilots
16		are members of the unincorporated association of Puget Sound Pilots.
17	Q:	Are there training differences between federal and state pilots?
18	A:	Yes there are, but primarily because training has been tailored to the unique waterways,
19		docks, currents, weather and overall configuration of each pilotage district and to the
20		mix, type and size of vessels calling, but not necessarily because one license is federal
21		
22		and one is state. I have been a regulator in waterways in both systems, and whether it is
23		a federal or state pilotage ground, the tailoring that hones the pilots local knowledge
24		while enhancing ship handling and use of tugs to dock and undock and how to maneuver
25		in tight waterways is critical to maintaining safety. These will change by waterway and
26		the focus of the training program, not necessarily based on whether the state or federal

Testimony of Capt. Michael Moore, Exh. MM-01-140

agency is the primary licensing entity.

Q: Are PSP pilots operating their state license on the same waterways as WSF ferry masters under the same federal pilot endorsements also completing the same workloads?
A: These two workforces have very similar licensing requirements but very different workloads. Under the WSF masters Collective Bargaining Agreement, these employees are credited with working an 80-hour bi-weekly schedule with varying degrees of vacation time based on length of service and given an opportunity for Overtime consideration. [Exh. JR-21] We are not in possession of individual WSF master time cards, but under a 40 hour work week scheduling scenario a WSF master would be working 1,800 plus hours or more on the bridge of a vessel per year. By comparison, PSP pilots working an average 5.03 hours on the bridge for the 2018-2019 PSP test year.

Q: In your opinion, are federal pilotage grounds less safe than state pilotage grounds?
A: No, as discussed, the nature of these endorsements is nearly identical in most respects. The difference is not in the skill or knowledge necessary to progress through the licensing model, it's the governance models that sit over the license that are different but the job task to be completed and skill set which is regulated by a license will be more or less the same. I have administered exams and also regulated pilotage in ports with both a primary state regulatory regime and a primary federal regulatory regime and both models can deliver impressive marine safety results.

Testimony of Capt. Michael Moore, Exh. MM-01-141

B. Other Waterways Outside of Washington State, With the Exception of British Columbia, Are Not Comparable Pilotage Grounds

Are other pilotage grounds comparable to the Puget Sound in terms of geographic Q: setting, waterway dimensions, navigational challenges presented by waterway dimensions, hydrography, length of vessel transits, and other specific waterway criteria? A: No, there are really few comparable bases for asserting that pilotage in the Puget Sound is truly like any other North American ports. I served virtually my entire career regulating vessels, mariners, and marine safety on the west coast, and I can unequivocally state that there are significant differences in all the pilotage grounds. In addition to my time serving as USCG Captain of the Port in the Puget Sound, I managed Captain of the Port responsibilities for the Ports of Los Angeles, Long Beach, and Port Hueneme, I have served as a port operations officer and investigator in San Francisco and Humboldt Bay. In the Columbia River, I had to assess Coast Guard surf boat training and operational metrics/reporting in and around the mouth of the Columbia River and I have spent time in San Diego including navigation training with the Navy. None of these harbors or waterways present the same waterway characteristics as the Puget Sound or should be presented as comparable waterways for purposes of setting rates, establishing training requirements, or creating arguments regarding attractiveness.

Q: Do you believe that the transit of vessels to the Port of Vancouver and within the waters of British Columbia are comparable to the waters of the Puget Sound?

A: Yes. The waterways are comparably wide and deep, and the length of the transit is comparable as well. Both operate in VTS areas and have relatively open steaming in traffic lanes until they get closer to the port or terminal area. We also have the same weather and similar tides and currents though currents are always unique to location and

Testimony of Capt. Michael Moore, Exh. MM-01-142

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In what other ways would you compare and contrast vessel transits and pilotage in British Columbia to the Puget Sound?

A: First, I'd start with the fact that the entrance and exit waterway is the same waterway, the Strait of Juan de Fuca. The transit from sea to each respective pilot station is virtually the same, vessels transiting in the same traffic lane interacting with the same vessel traffic system until finally an inbound vessel calling Vancouver or Delta Port or anchorages in Canada makes a course change heading to Brotchie Ledge just south of Victoria to pick up a BC pilot or, if calling a Puget Sound port or terminal, the vessel will head to the pilot pick up area off Ediz Hook near Port Angeles. Second, whether calling on Vancouver or Seattle, it is a comparable distance, with Tacoma being slightly farther. While the remaining waterways are not the exact same in dimensions and current, they are all relatively wide and deep with designated traffic lanes and a VTS. The weather is comparable on average throughout the year with localized weather and currents at the time of the transit always unique to where you are and when. Third, there are about 600 vessel calls per year in Canada that then call in Puget Sound and vice versa meaning there is a significant overlap in the mix, type and size of vessels particularly with container and cruise vessels. [Exh. MM-40] Fourth, both sides utilize assist and escort tugs as needed or required and tug capabilities have all improved with better designs over the past 30 years. Lastly, pilots on both sides have to be familiar with the specifics of calling at each other's terminals, such as a Vancouver port call that has a bridge to pass under, or that the Frazer terminals and waterways in Puget Sound are configured differently with their own water and dimension characteristics. In general, there are many

Testimony of Capt. Michael Moore, Exh. MM-01-143

comparable attributes based on shared waterways between the Puget Sound and BC, which one can't say about too many other pilot grounds.

XII. PMSA CONCURRED WITH THE DECISION AND RATIONALE TO MOVE PILOT RATESETTING FUNCTIONS TO UTC

Q: Did PMSA support SSB 6519 which moved pilotage rate setting processes from the BPC to the UTC?

A: Yes.

Q: What were some of the bases for PMSA's support of SSB 6519?

A: We believe that there will be many benefits of eliminating the annual consideration of rate-setting from the BPC in its entirety and provide the benefits to the pilotage system of falling under the UTC's existing rate-setting authority, rules, and expertise. Chiefly, safety will be enhanced at the BPC by allowing the pilots' licensing Board to focus exclusively on licensing and training matters and not be dragged into the consistent posturing and discussion on rates endemic to the prior system's required annual quasilegislative process. Of additional benefit, the ratemaking process would be improved by removing the automatic annual process from the pilotage ground in its entirety, and then by giving authority for tariff changes to the UTC to adjust only upon petition by a stakeholder that carries a specific evidentiary burden to show that the current rates are unfair, unjust, or not sufficient in a quasi-adjudicative process before disinterested, third party commissioners assisted by an administrative law judge.

Q: Did PMSA concur with many of the recommendations of the JTC Report which recommended the bifurcation of roles between the BPC, for licensing and safety expertise, and the UTC, for rate setting expertise? [Exh. JR-20]

Testimony of Capt. Michael Moore, Exh. MM-01-144

1	A:	Yes.
2	Q:	Does PMSA agree with the conclusion and recommendation of Finding Number 4 of the
3		JTC Report that the pilotage tariff and fee rate-setting processes should be transferred to
4		the UTC based on the history that BPC was making ratemaking decisions without "the
5		benefit of a well-defined methodology, data submission and review, and rate-setting
6 7		expertise"? [Exh. JR-20]
8	A:	Yes.
9	Q:	Does PMSA agree with Finding Number 5 of the JTC Report that annual tariff and fee
10	<u>ح</u> ،	rate-setting is unnecessary? [Exh. JR-20]
11	A .	
12	A:	Yes.
13	Q:	Do you believe that the JTC recommendation to eliminate an annual rate-setting process
14		and to embrace evidence-based rate hearings that reflect economic necessity would
15		incentivize stakeholders to arrive at a mutually beneficial solution outside of the hearing
16		process?
17	A:	That would be my hope. Presuming that this Petition is rejected by UTC, it would be
18		helpful for the Commission to direct would-be Petitioners to reach out to one another and
19		to encourage parties to try and gain consensus on items prior to filing a Petition,
20		something that did not happen this time.
21	Q:	Do you agree with Finding Number 8 that significant uncertainty exists regarding PSP
22		capital financing and that these expenses, like other expenses, were not previously
23 24		
24 25		subject to a defined methodology? [Exh. JR-20]
23 26	A:	Yes.
20	Q:	Do you agree with Recommendation Number 8 that the Puget Sound Pilots should
	Testin	nony of Capt. Michael Moore, Exh. MM-01-145

submit a funding plan, including capital projections? [Exh. JR-20]

A: Yes.

XIII. THE COVID-19 PANDEMIC & RESULTING ECONOMIC DOWNTURN WILL MAKE COMPETITIVENESS IMPACTS OF A TARIFF INCREASE MORE ACUTE

Q: Was the PSP Petition submission of November 2019 filed prior to the beginning of the COVID-19 pandemic?

A: Yes, the COVID-19 pandemic did not commence until the WHO declared it a pandemic on March 11, 2020 and the White House issued a National Emergency Proclamation on March 13, 2020. [Exh. JR-20]

Q: Is the State of Washington presently impacted by the COVID-19 pandemic?

A: Yes, the State of Washington is significantly impacted by the COVID-19 pandemic in multiple respects. With respect to public health, the state is under a comprehensive and unprecedented state "Stay at Home, Stay Healthy Order" issued on March 23, 2020. On April 2, 2020, the Governor extended the order to May 4, 2020. On May 1, 2020, he extended the Stay at Home Order through May 31, 2020 [Exh. JR-25] With respect to the economy, the State is also suffering from exceptionally significant economic and fiscal ramifications from the COVID-19 pandemic. On May 13, 2020, the Governor issued a freeze on hiring, personal service contracts, and equipment purchases. [Exh. JR-26] On May 13, 2020, David Schumacher, Director of the Office of Financial Management, issued a memo to all state departments that the latest unofficial state financial forecast indicated that revenues over the next three fiscal years, would be \$7 billion less than what was forecast less than three months ago. Director Schumacher's memo details proposed cuts to most state departments and agencies, targeting 15 percent in reductions.

Testimony of Capt. Michael Moore, Exh. MM-01-146

1		[Exh. JR-27] The state also reported that it has paid out nearly \$2.9 billion in
2		unemployment benefits since March 7, including \$767 million in one week. Of the
3		1,027,292 individuals who have filed unemployment claims, 751,149 have received
4		benefits [Exh. JR-28]
5	Q:	Has the COVID-19 pandemic impacted the regulation of vessel operations?
6	A:	Yes, in multiple respects, both regarding vessel regulation and the economic footing of
7	11.	res, in multiple respects, both regulating vesser regulation and the economic rooting of
8		the maritime industry. With respect to the regulation of vessels, the US Coast Guard has
9		issued multiple Marine Safety Information Bulletins on the subject of maritime
10		operations and additional restrictions and procedures for ship operators and crew. [Exh.
11		JR-29]
12	0	
13	Q:	Describe how the maritime industry, with specific emphasis on the container and cruise
14		businesses in the Puget Sound, have been impacted by the COVID-19 pandemic and the
15		resulting significant economic impacts?
16	A:	The maritime industry has suffered tremendous impacts globally from the COVID-19
17		pandemic and those impacts are being felt acutely in the Puget Sound, where the
18		container and cruise ship businesses at the Northwest Seaport Alliance ports are severely
19		contracted. [Exh. JR-28] On May 14, 2020, Holland America Line, headquartered in
20		
21		Seattle announced it was laying off approximately 2000 employees. [Exh. JR-28] The
22		NW Seaport Alliance announced May 18, 2020, that container cargo throughput in April
23		2020, was down by 24 percent compared to April of last year. [Exh. JR-30]
24	Q:	Has the COVID-19 crisis impacted the number of vessel calls in the Puget Sound?
25	A:	Yes. With respect to the container ship business, the NWSA has announced that there
26		have been 39 blank sailings through April and that they expect up to 57 total through

Testimony of Capt. Michael Moore, Exh. MM-01-147

July, and that the container volumes are down year-to-date by 17%. [Exh. JR-28] This will result in fewer pilot assignments and result in thousands of fewer goods in waterborne commerce moving across the docks in the Puget Sound.

With respect to the cruise ship business, it is decimated. Most cruise vessels will not be calling in the Puget Sound, if any are sailing at all, this season. [Exh. JR-28] If the entirety of the cruise season should be cancelled, this would result in approximately 464 fewer pilot assignments.

Q: What are the consequences of these severe contractions?

A: Companies are announcing significant and impactful restructurings of their operations, including cutting spending, reducing budgets, laying off staff, and historic losses. There are many examples of shipping lines cutting costs. One recent interview with a container carrier executive revealed that "The shape of the recovery is very uncertain. We are cutting costs as much as we can to counter the missing volume and to have sufficient liquidity." [Exh. JR-28]

Q: Are the impacts of the COVID-19 pandemic and resulting economic crisis significant or material changes to the conditions and expert testimony underlying the PSP Petition?
A: Yes. The whole world has been turned upside down by the pandemic and resulting economic downturn in the last three months and no one could have predicted last November how this crisis would have materialized and so significantly and materially undermined all traditional assumptions about the business climate in general and its impacts on the maritime industry in particular. The PSP Petition made numerous assumptions about future changes in the number of vessel calls, pilot assignments, fatigue, the need for additional pilots, anticipated costs, and anticipated revenues; none of

Testimony of Capt. Michael Moore, Exh. MM-01-148

those assumptions likely have much bearing to the reality on the ground at present.

XIV. THE DRAMATIC AND INCONSISTENT TARIFF OUTCOMES PROPOSED BY **PSP ARE NOT CLEARLY EXPLAINED, IDENTIFIED, OR JUSTIFIED** Q: Were you able to find in PSP's petition a proposed tariff which is directly comparative to the current tariff which clearly identifies all of the PSP proposed changes to the rates and charges in the current tariff? A: No. PSP did not follow WAC 480-160-110 which requires that "[e]ach change in rates, charges, terms, or conditions in a tariff must be clearly identified by including the appropriate code symbol immediately to the left of the material being changed." Q: Were you able to clearly understand how and why each proposed change was being made, identify each change proposed through a full description of each change, and read a clear reason for each proposed change in the current tariff? No. While the testimony of PSP may have nominally met the requirements of WAC A: 480-160-120 in terms of a cursory explanation of proposed changes, the changes themselves are not clearly identified and explained with respect to their relationship to the current tariff for all 3 years proposed. Q: Did PMSA ask for PSP to produce a version of the proposed tariff that was consistent with WAC 480-160-110 and WAC 480-160-120 for each of the proposed years, and if so, what was the response? A: We did ask for such production in PMSA DR 202. The PSP response was that compliance with the requirements to clearly identify and describe each of the proposed changes to the tariff "would be an exercise in futility" and our request for PSP to follow the WAC was dismissed as "make work." (PSP Response to PMSA DR 202)

Testimony of Capt. Michael Moore, Exh. MM-01-149

0: Without such descriptions as required by the WAC, is it functionally possible for you to ascertain from the PSP petition why or how the proposed tariff decreases some vessel costs in one year while increasing costs on that same vessel in another year? A: No. There is neither a specific notation nor a clear description associated with specific tariff items which describe why or how the tariff are intended to work over multiple years and vessels and why some vessel rates decrease in one year and increase in a different year for the same vessel. Q: Is it possible for you to ascertain from the PSP petition why or how the proposed tariff will increase some vessel costs by dramatic amounts in one year while increasing costs on that same vessel by a different rate in another year? No, and this was a significant and material barrier to being able to clearly evaluate the A: proposed changes in a cumulative manner across the industry. While individual vessel costs were detailed, there is no clear description of how or why the tariff increases and the proposed structural reforms of the tariff are intended to work over multiple years and vessels, and it is impossible to isolate one or any basis for a specific rate outcome under this proposal. Q: Can you provide some specific examples of these changes and how these could impact potential future rates? Yes, upon analyzing the PSP Petition's projected Revenue Calculations at Exh. WTB-11, A: we were shocked to discover that the range of proposed changes in rates to vessels is astoundingly wide. On a percentage basis, the highest increase, on the OOCL Oakland (Invoice No. 184355), is an increase of +519.7% and the lowest decrease, on the Celebrity Solstice (Invoice No. 183926), is a decrease of -63%. On a dollar charged

Testimony of Capt. Michael Moore, Exh. MM-01-150

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basis, the highest increase, on the Star Grip (Invoice No. 180327), is an increase of +\$7,220.56 and the lowest decrease, again on the Celebrity Solstice (Invoice No. 183926), is a decrease of -\$6,791.25. This is an astonishing range of outcomes on both a percentage basis and on a dollar basis, especially since no argument or justification for these individual charges can be isolated or identified in the new tariff schedule. Q: Aside from the largest and smallest individual vessel impacts, what are some other broader changes which would impact larger numbers of vessels in the PSP proposal? A: The proposed new rates don't just create impacts at the extremes, but across vast numbers of ships and fleets. Again, looking at the PSP Revenue Calculations under the proposed tariff (Exh. WTB-11), there are over 1,200 vessels which will see their tariff rates doubled under the new tariff. That is 1,200 vessels out of 7,000 that will have a 100% or greater increase in their pilotage charges overnight! That is an astoundingly large group of pilotage customers who will suffer a dramatic rate of increase and an outcome which is not explained, identified, or justified on a per variable basis anywhere in the PSP tariff submission. Q: Would these types of tariff increases be a dramatic and surprising change for pilotage

A: Yes, traditionally when a change is announced, it is described in terms of percentage increases on the current tariff, and whether proscribed as an incremental adjustment across the board or on a charge-by-charge basis, the actual changes in tariff payments would roughly approximate the change in the tariff percentage. In this process there is an average increase across the board, but individuals' changes in tariff payments could be vastly, and surprisingly, different.

Testimony of Capt. Michael Moore, Exh. MM-01-151

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1	Q:	What was your reaction to being unable to isolate any proposed variables to check or
2		evaluate how the PSP tariff could be alternatively viewed, evaluated, or modified?
3	A:	It is frustrating, because PSP is essentially changing every variable for every vessel call,
4		it is functionally impossible to isolate any individual variables for any vessel call.
5 6		Variable isolation is important in order to test or probe formula changes, relative costs, or
0 7		the fairness of the proposal across multiple vessels, vessel types, or sizes.
8	Q:	Why is the ability to adjust variables important to this rate-setting?
9	A:	Without the ability to segregate, test, and evaluate individual components of the
10		proposed tariff what PSP has proposed is essentially a take-it-or-leave it proposition.
11		There is no functional way for stakeholders or ratepayers to propose an amendment,
12		alternative, or counterproposal to achieve any specific improvement, to optimize a rate,
13 14		or achieve any specific policy with specificity. This is exactly the type of Petition that
15		the rules in the WAC are intended to discourage and the same type of Petition which the
16		JTC intended to avoid by moving this process to the UTC.
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18		XV. PMSA RECOMMENDATIONS
19	1)	UTC SHOULD REJECT PSP'S PETITION
20	Q:	Has PSP proven that the current tariff is unfair, unjust, unreasonable, or insufficient?
21 22	A:	No.
23	Q:	Should the UTC reject the PSP Petition?
24	A:	Yes, PMSA recommends that UTC reject the PSP Petition and maintain the current tariff.
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	Testir	nony of Capt. Michael Moore, Exh. MM-01-152
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2)

UTC SHOULD INVITE STAKEHOLDERS TO PROPOSE A REVENUE-NEUTRAL RESTRUCTURED PILOTAGE TARIFF

- Q: Should the UTC direct its staff to lead a tariff revision process with the stakeholders to create a set of tariff changes which are structured to result in no net additional revenue to PSP but which improves the fairness and clarity of the current tariff?
- A: Yes. PMSA recommends that UTC direct the process to evaluate restructuring the current tariff.
- Q: Does PMSA believe it would be possible to restructure the pilotage rate schedule to make it more transparent, simpler, and accountable to ratepayers, regulators, and the public?
- A: Yes. Although we do not believe that the current tariff has proven hard for customers to
 understand or is based on particularly complicated concepts, PMSA agrees that elements
 of the current tariff structure could be restructured so they are less opaque, less complex,
 and introduce fewer variables.
 - Q: What is one way in which a concept in the proposed tariff presents a likely source of consensus amongst stakeholders in a tariff restructuring process if ordered by the UTC?
 A: The proposed PSP tariff, while still increasing overall costs on vessels and ultimately exacerbating the issue in its proposal, acknowledges that the tonnage tariff at the top tiers is fundamentally unfair and needs a downward adjustment. Not only do bigger ships pay more than smaller ships, but the upper tier is an order of magnitude greater rate than the bottom tier. This is commonly referred to as a "tonnage penalty." Although we disagree with the PSP petition to UTC, PSP has agreed with PMSA and the ports that the upper tonnage costs must be reduced and the tonnage penalty needs to be addressed.
 - Q: Describe when this agreement was already reached on this subject.

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- A: Yes, all of the major stakeholders before the BPC in 2014 agreed that the tonnage rates needed reform with respect to the upper tier tonnage costs. PSP, PMSA and the Ports of Seattle and Tacoma made a joint proposal for such an adjustment at that time. [Exh. MM-41].
- Q: Is there another area of potential consensus on a revenue-neutral rate restructuring element if directed by the UTC?
- A: Yes. PSP has proposed to use hourly charges for the current tariff. PMSA does not have an official position on switching entirely to a gross or net hourly pay structure, but we agree that a move to a rate of hourly pay for bridge hours could improve accountability and transparency. We would of course expect such a charge to be imposed only for the actual provision of time of vessel services, not include time charges for non-vesselservicing tasks, and be precisely calculated – as opposed to rounded up to the next hour as it is in the PSP proposal (at significant industry expense). Such a change may improve clarity and accountability in the pilotage grounds. At present, the stated hours for work vary, and are incredibly inconsistent with actual pilot earnings per hour on assignment. One improvement may be to consider making the hourly rate the same across the board for all licensees' performance of service for vessels. For reference, the primary stated hourly wage for PSP now is \$274 per hour, but many vessel invoices reflect payments well above that standard.
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3) <u>UTC SHOULD AUDIT PUGET SOUND PILOTS</u>

Q: Should the UTC direct its staff to conduct an audit of PSP operations?

A: Yes. PMSA recommends that UTC direct an efficiency audit.

Q: Why does PMSA recommend an efficiency audit?

Testimony of Capt. Michael Moore, Exh. MM-01-154

- A: Elements of the current tariff structure should be audited in order to reduce the possibility of overcharging ratepayers for PSP inefficiencies. An efficiency audit would potentially identify efficiencies that should be implemented to improve safety and/or decrease costs. To my understanding, no comprehensive efficiency and performance audit and evaluation of PSP operations has ever been conducted.
- Q: What results would be viewed as a successful outcome of an efficiency audit?
 - A: Pilots should have a tariff that provides them with internal management incentives to be more efficient and to organize themselves in a manner where pilots are rewarded for working not for minimizing work. The present model, wherein PSP is seeking higher rates to facilitate less work, is anathema to a working environment that is based on the principle that those who perform more assignments will naturally receive higher earnings. The present incentives are upside down and this first hearing after the Legislature's shift of ratemaking from BPC to UTC provides an opportunity to evaluate a true cost-of-service model. An efficiency audit could identify areas of inefficiency in PSP that could be eliminated. It could also demonstrate to pilots where they could earn more net income per assignment by reducing their costs without a tariff adjustment. Such efficiency improvements would be a win-win for pilots and ratepayers. What are some potential areas of inefficiency that might be reviewed in an audit? Q: A: More efficient dispatch, assignment, and watch standing protocols may eliminate the present inefficiencies plaguing these aspects of pilot assignments and watch standing. Much of the PSP Petition was aimed at adding large amounts of new tariff in order to either induce or pay for future supplies of pilotage labor, but no attempt was made by

PSP to first better match pilots to demand, to address callback situations, and to remedy

Testimony of Capt. Michael Moore, Exh. MM-01-155

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1		management deficiencies. The PSP system right now facilitated an annual average
2		amongst pilots of at least 220 days not actively piloting each year, but they still could not
3		manage to avoid 70 delays for lack of pilot availability. Now in this Petition, PSP has
4		requested tariff increases based on a schedule where pilots are paid for up to 249 days of
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6		not piloting each year. We acknowledge and support some of the days not piloting are
7		involved in training and state Board meetings, but clearly there are many days available.
8		Clearly, management of assignments needs to be addressed prior to granting PSP any
9		further paid days off.
10	Q:	What other aspects of PSP operations could such a review include?
11	A:	This efficiency audit could also include an assessment of policies regarding vacations,
12		comp days, non-essential meeting attendance in lieu of piloting, and a job task analysis
13		of the Executive Director and staff to determine what tasks are essential to provide
14 15		pilotage service, and whether additional tasks could be completed by existing or new
16		staff instead of by a licensed pilot substituting time in the office for time on the water or
17		by expensive contract attorney.
18		by expensive confluer attorney.
19	4)	UTC SHOULD APPROVE TWO TARIFF INCREASES: ONE FOR UTC COSTS & ONE FOR TRAINEE STIPENDS AT BPC
20	Q:	Should the UTC approve a tariff increase for the limited purpose of compensating UTC
21		for the costs of the review of the PSP Petition?
22	A:	Yes, PMSA recommends that the tariff should be increased by an amount to be
23	А.	
24		determined by UTC pursuant to RCW 81.116.060 upon consultation and additional input
25		from ratepayers in the pendency of this process. PMSA agrees that the costs of this
26		proceeding to set the tariff rates may be recaptured as part of the tariff.

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- Should the UTC approve a tariff increase in order to increase funding for the costs of Q: Trainee Stipends at BPC?
 - Yes, PMSA recommends that the tariff should be increased from the current surcharge A: rate of \$15 to \$19 consistent with the BPC "Training Surcharge/Trainee Stipend Increase Request" (Exh. WTB-06) and pursuant to WAC 363-116-078.

XVI. CONCLUSION Do you conclude your testimony in this matter at the present time? Q: Yes, I do. A:

I declare under penalty of perjury under the laws of the State of Washington that the

foregoing is true and correct. Executed on this 27th day of May 2020 at Mukilteo, Washington. 13

Capt. Michael Moore

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UTC Docket TP-190976 CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on the 27th day of May, 2020, a true and correct copy of the foregoing Testimony of Mike Moore and associated exhibits were served by electronic mail upon each of the parties of record in this docket at the addresses shown in the Master Service List (as of 01/14/20) for Docket 190976 as listed below:

/s/ Wes Freese

Wes Freese, Paralegal Foster Garvey PC 1111 Third Avenue, Suite 3000 Seattle, WA 98101 Email: wes.freese@foster.com

For WUTC

Sally Brown Harry Fukano Assistant Attorneys General Office of the Attorney General Utilities and Transportation Division P.O. Box 40128 Olympia, WA 98504-0128 (306) 664-1225 sally.brown@utc.wa.gov harry.fukano@utc.wa.gov betsy.demarco@utc.wa.gov krista.gross@utc.wa.gov

For Puget Sound Pilots

Eric vonBrandenfels president@pspilots.org

David W. Wiley Blair I. Fassburg Williams Kastner & Gibbs PLLC Two Union Square, 601 Union Street, Suite 4100 Seattle, WA 98101 -2380 dwiley@williamskastner.com bfassburg@williamskastner.com

For Pacific Yacht Management

Monique Webber 2284 W. Commodore Way, Suite 120 Seattle WA 98199 monique@pacificyachtmanagement.com