Item #: 6F
Date: 5/4/23

Spreader Bay Door Replacement

Rick Atkinson, Director, Equipment Maintenance

POT Regular Meeting

May 23, 2023

Port of Tacoma
People. Partnership. Performance.

Action Requested

Request authorization in the amount of $370,000 for a Spreader Bay Door replacement. The Port of Tacoma spreader bay has curtain style doors that are failing and need to be replaced.

- New doors - $315,000
- Labor for retrofitting - $55,000
- Total - $370,000

Background

The Port of Tacoma equipment maintenance team is needing to replace the defective curtain style doors to our spreader bay maintenance area with a high-speed fold up door designed for large openings.

- This is our primary repair area for the spreaders and where the technicians perform welding, painting, and electrical repairs.

- The current curtain doors only cover one side of the spreader bay and the bay has two major openings. Rain and wind gust into the bay and damages electrical components when the equipment is opened for repairs and painting is difficult in those conditions.

Background

- This set-up does not effectively keep the elements and cold temperature out which makes it difficult to preheat the metal when welding in the winter due to the area cannot be heated properly.

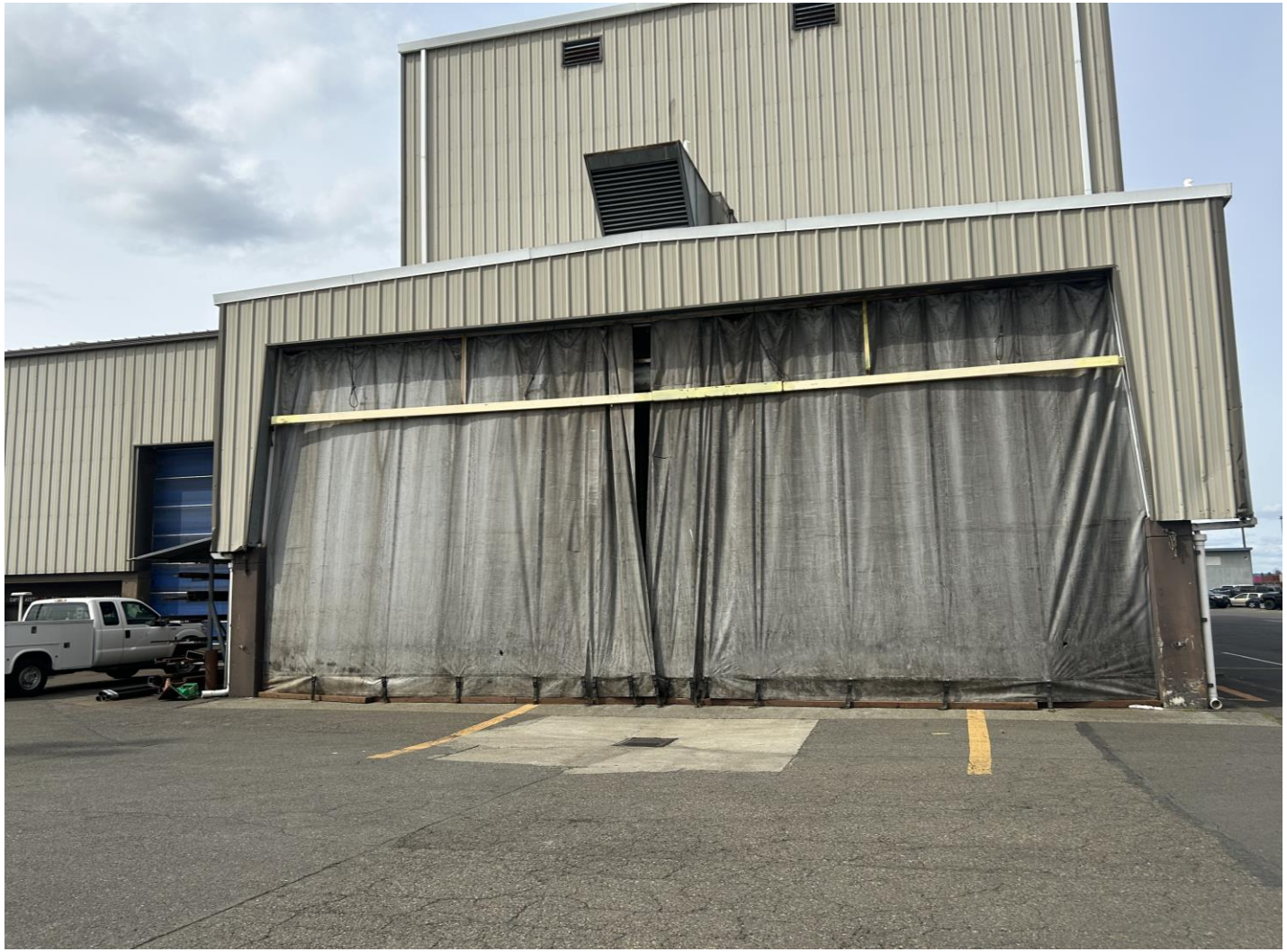
- The current curtain doors are difficult to close in the wind and present a safety issue.

- The new doors will seal off the area from the elements and allow for more efficient repairs getting the equipment back to the customer in a timely manner.

Spreader Bay Door Replacement - Current

Current Door

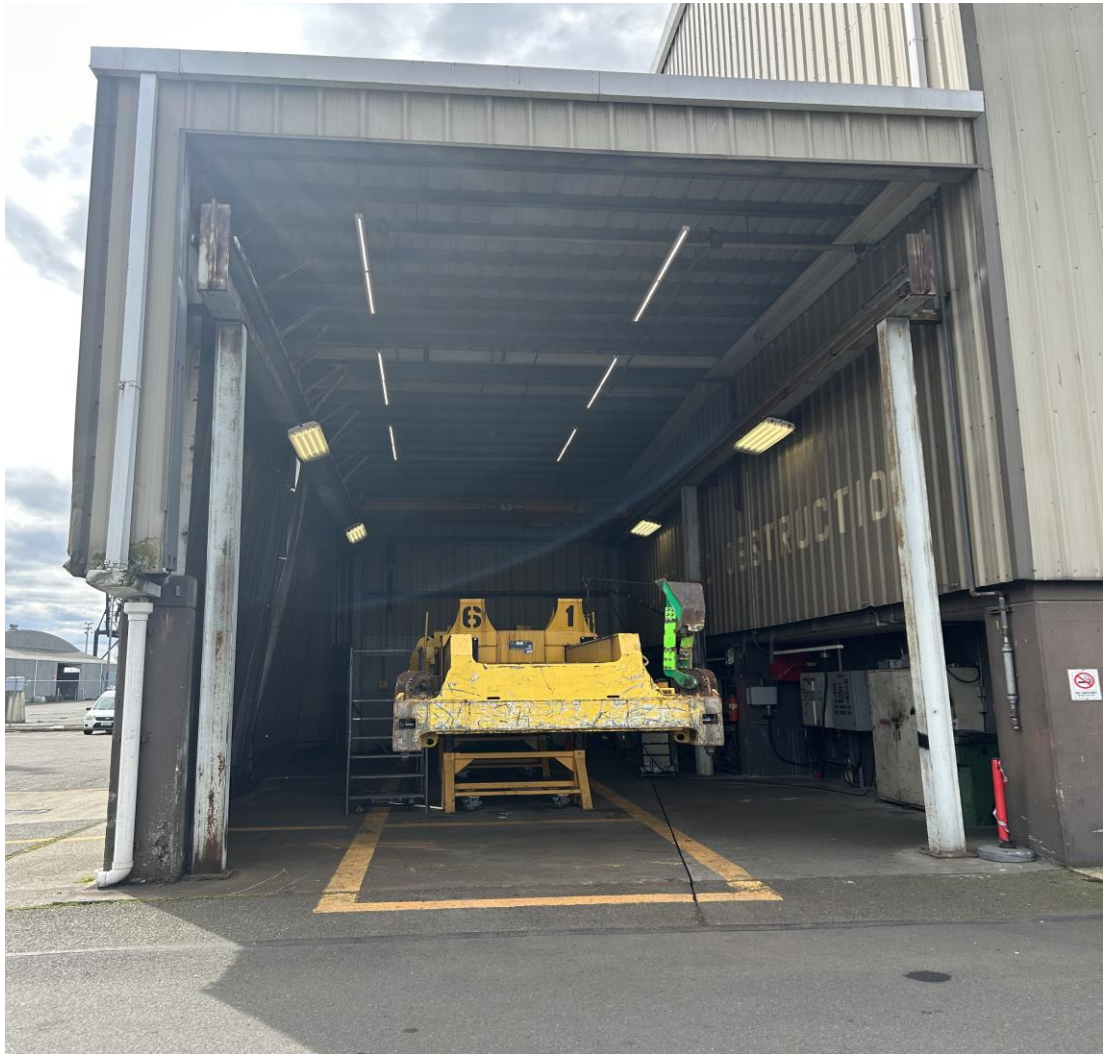
- In closed position, curtain is difficult to close. Does not effectively keep rain, wind, and cold temperature out.



Spreader Bay Door Replacement - Current

Second Opening of Spreader Bay

- This end does not have a door to keep the elements out.
- The proposal includes a second door to cover this opening.



Spreader Bay Door Replacement - Proposed

Port of Tacoma

Proposed Roll Up Door

TECHNICAL DATA

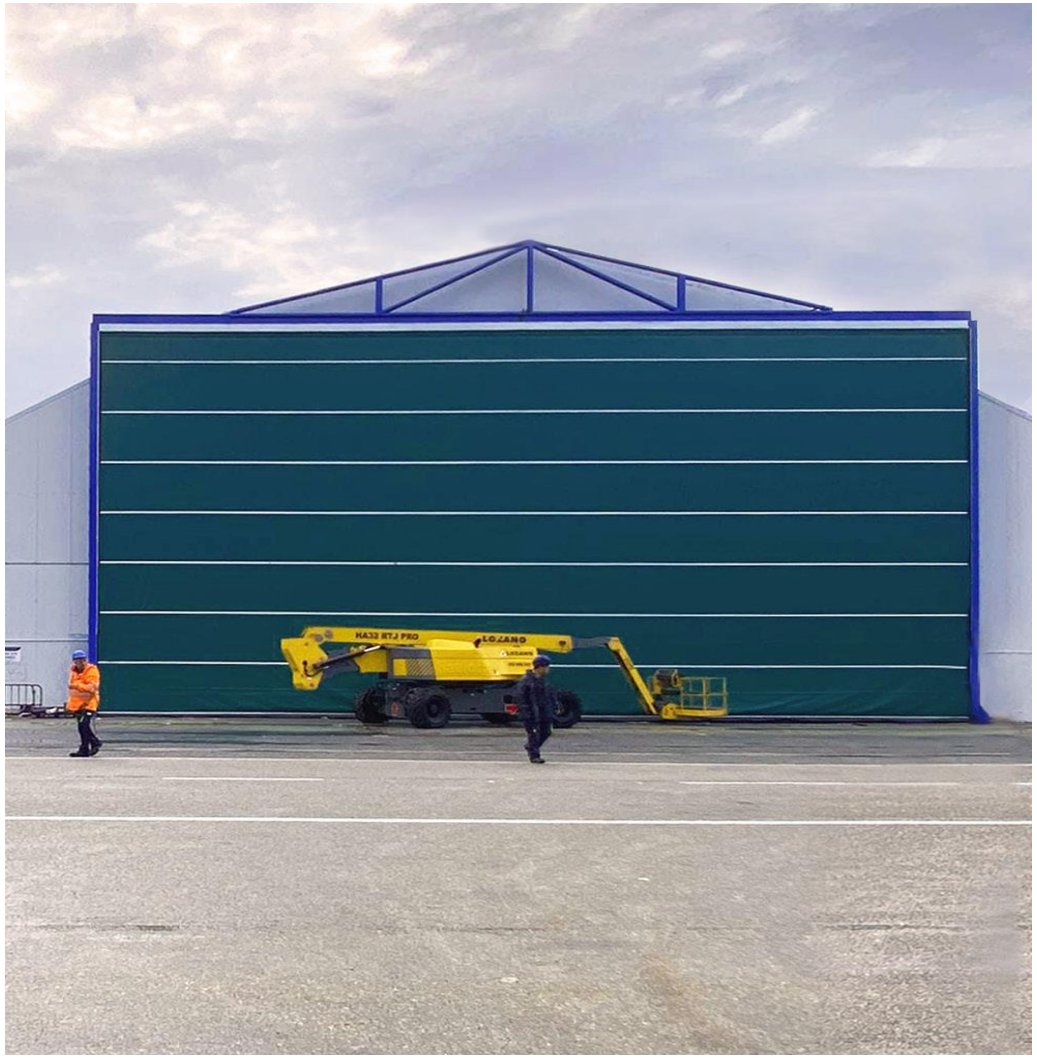
OUTDOORS | LARGE OPENINGS | WIND RESISTANCE | ENERGY SAVING | DOUBLE CURTAIN | SOLID STEEL STRUCTURE | FOLDING TECHNOLOGY

MEGAPACK 200 an high speed fold up door designed for large openings, where it is necessary to make large logistics movements.

WATCH THE VIDEO!

DOOR THICKNESS	300 mm
WINDOWS	1200 x 300 mm
SEALS	Lateral PVC
SPEED	0,2 - 0,3 m/s
WIND RESISTANCE* *DIFFERENTIAL PRESSURE*	Classe EN 12424
WIND SPEED DURING DOOR OPENING	< 20 m/s (72 km/h)
SOUNDPROOFING *STANDARD*	15 dB Rw (ISO 717)
WATER RESISTANCE	0,11 kPa (close door) Class 3, EN12426
AIR PERMEABILITY	12m³ / (m²h) Class 3, EN 12426
OPERATING TEMPERATURE OPERATING ENVIRONMENT	-10°C a +70°C

*The door, according to the directive 13241/EC, needs to be checked every six months.

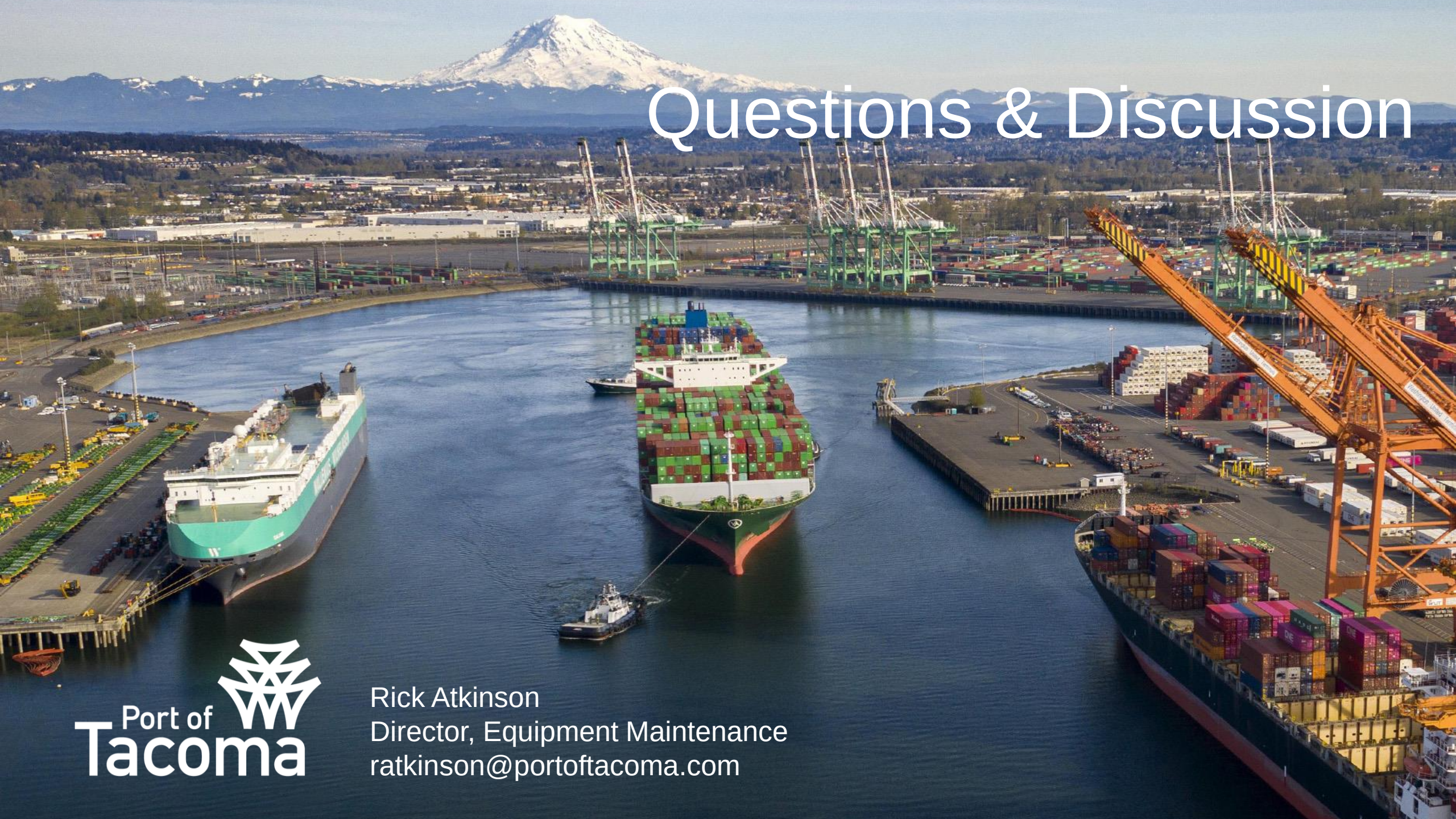


Spreader Bay Door Replacement - Financial Impact

Item	Budget Estimate	Expenditure to Date	Additional Anticipated Expenditures	Anticipated Future Expenditures
On-Call Design Consultant	$26,000			$26,000
Procurement	$230,000			$230,000
Construction	$30,000			$30,000
Other*	$84,000			$84,000
TOTAL	**$370,000**			**$370,000**

***Other includes Washington State sales tax, contingency, permitting and miscellaneous costs

Questions & Discussion



Port of Tacoma

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