

**PORT OF BROOKINGS HARBOR**  
**Board of Commissioners**  
**Special Meeting Agenda**  
Port Office  
16330 Lower Harbor Rd  
Brookings OR 97415

**Friday, January 5, 2018 • 6:00 pm**

**Agenda**

1. **Call to Order and Roll Call**
2. **Approval of Agenda**
3. **Agenda Related Public Comments \***
4. **New Business**
  - a. **Fuel Dock**
5. **Non-Agenda Related Public Comments \***
6. **Executive Session – pursuant to ORS 192.660(2)(b)**
  - a. **Personnel Issues**
7. **Adjournment**

\* Limited to a maximum of three minutes per person. A “Public Comment Request”, located near the entrance, must be completed and turned into the Chairman prior to the beginning of the meeting.

*FULL MEETING PACKET AVAILABLE AT [www.portofbrookingsharbor.com](http://www.portofbrookingsharbor.com)*

# NEW BUSINESS AGENDA ITEM

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**DATE:** *January 5, 2018*  
**RE:** *Fuel Dock*  
**TO:** *Port of Brookings Harbor, Board of Commissioners*  
**ISSUED BY:** *Gary Dehlinger, Port Manager*

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## OVERVIEW

- Fuel dock was closed on Friday 12-22-17 due to failing aluminum ramp connection and continuing slope failure.
- Jack Akin/EMC was requested by me to inspect the slope and ramp connection and provide a report on 12-22-17.
- Carson Oil did not have a transfer tanker available for temporary use.
- Port decided to remove the aluminum ramp connection and reconnect it to lower portion of the failing structure to reopen the fuel dock for the commercial and sport vessels.
- Fuel lines were drained on 12-27-17 before any work took place on the ramp.
- Jack Akin/EMC was contacted again to confirm the relocation was in the best interest at this time. Jack provided updated report on 12-29-17.
- Port requested vender John's Welding to perform the welding work on the relocated ramp. Staff assisted with the work and reopened the fuel dock on 12-30-17.
- Top and bottom of the ramp was barricaded off to prevent use of the ramp.

## DOCUMENTS

- EMC Report dated 12/29/17, 2 pages
- Photos, 4 pages

## COMMISSIONERS ACTION

- Approval from Board will be needed for rerouting all lines, either temporary or permanent, to repair the slope and install new ramp.



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- *Engineers/Scientists, LLC*

12/29/17

**MEMO-122917-01**

To: Gary Dehlinger  
Manager, Port of Brookings  
From: Jack Akin  
EMC-Engineers/Scientists, LLC  
RE: Landing to the Port Fuel Dock

### **Introduction**

On Tuesday, December 22, 2017, Jack Akin of EMC-Engineers/Scientists, LLC (EMC) discussed temporary (120 days) action at the concrete landing system that provides the access to the fuel dock. Expressed concerns (see **MEMO-11917** and **MEMO-122217-01**) bring forth the concern that the failure may sever fuel and other lines mid-point beyond break-away connections. Additionally, Port staff has expressed concern regarding the poor condition of the existing gangway hinge connection to the failing pad.

To reduce this risk Port staff is considering the following temporary steps:

1. Drain fuel lines from the aboveground fuel storage tanks;
2. Weld or otherwise adequately fix pinned gangway end location;
3. Assure gangway roller end position on fuel dock.
4. Reposition the fixed gangway end to the end connection.

### **Review Elements**

1. Structural integrity degrees of freedom (heave, surge, sway, pitch, roll and yaw) have not been calculated from live and dead loads caused by wind/waves, current/surge. The support strength of the proposed new based is assumed, but not known, to be adequately fixed by concrete so as to be considered a rigid body with the existing concrete pad base. The new pinning location has not been analyzed. The Port staff is cautioned that the proposed fixing and support for new pins has not been engineered. It would be a good idea, therefore, to closely simulate existing pin strength and flex;
2. When the movable end (roller) of a 60' gangway, fixed on the other end, moves 10' vertically, it will move a bit less than a foot horizontally. Vertical movement at any location along the length of the gangway is proportional to its distance from the fixed end to its total length. For example, a 10' vertical movement at the movable end results in approximately a 0.8' (5/60) vertical movement at a point five feet from the fixed end.





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- Engineers/Scientists, LLC

Lateral movement of the movable end can be estimated by determining the potential sideways movement of the dock within its restraints ("play" within hoops plus pile movement). Therefore the Port staff is cautioned to account for the altered lateral and vertical positions of the rollers on the fuel dock, and also to assure that the gangway does not come in contact with the slope near its fixed end;

3. Relocation of the gangway constitutes a new installation, and so the gangway, once moved, is likely not going to be compliant with ADA requirements. The Port staff is therefore cautioned to take adequate steps to ensure that this gangway is not used as public or routine employee access.

4. Finally, it is mentioned that, as expressed in above-cited memos, the entire subgrade supporting rock and soils structure beneath this concrete pad and gangway is not stable. Therefore Port staff should take into account that the steps being considered to temporarily reduce the risk of service (fuel, water, wastewater, power) lines a) can not be permanent, and b) should not be thought of as that which could entirely eliminate risk of service line severing, damage to the gangway, danger to person(s) on or near the fuel dock or gangway, or damage to the fuel dock.

### Conclusion

Temporary repositioning the gangway as described by Port staff as a method to reduce risk, keeping above Review Elements in mind, is a relatively inexpensive set of actions.

Sincerely

Jack (John) Akin, MS, PE, IC, HMS, CAI  
EMC-Engineers/Scientists, LLC



BEFORE



AFTER









## **Notice of Executive Session**

The Port of Brookings Harbor will hold an executive session at 6 p.m. at the Port Office, 16330 Lower Harbor Rd, Brookings, OR 97415 on Friday, January 5, 2018. The session will consider the following: Personnel issues.

The executive session is being held pursuant to ORS 192.660(2)(b), To consider the dismissal or disciplining of, or to hear complaints or charges brought against, a public officer, employee, staff member or individual agent who does not request an open hearing.