

# CITY OF SANTA BARBARA WATERFRONT DEPARTMENT

## MEMORANDUM

**Date:** February 15, 2018  
**To:** Harbor Commission  
**From:** Scott Riedman, Waterfront Director  
**Subject:** **Facilities Management Report**

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### CITY PIER HOISTS

There are four hoists on the City Pier that serve the needs of commercial fishermen, research vessels, boat maintenance companies, and private boaters. All hoists are inspected daily and serviced by Waterfront staff to the extent possible. More complicated repairs, replacement, load testing, and certification are done by qualified companies.

**Hoists 1 and 2** – Located on the south side of the City Pier, these hoists are set on a tripod frame with a lifting capacity of 1,000 lbs. They are primarily used by commercial fishermen and receive the most use of all the hoists. Considering their age and use these hoists will likely be replaced as part of a future capital improvement.

**Hoist 3** – Also located on the south side of the City Pier and set on a tripod frame, this hoist has a lifting capacity of 2,000 lbs. The hoist motor and steel frame the motor is attached to are severely damaged and need to be replaced. A new hoist motor was recently purchased for \$18,000 and an engineering analysis conducted to redesign the steel mounting frame. Staff is considering refurbishing the tripod frame prior to installation of the new hoist motor and frame. These improvements will extend the useful life of this hoist for many years.

**Hoist 4** – Located on the north side of the City Pier, this hoist is set on a 30” steel column supporting a horizontal steel beam. The hoist motor is set on a trolley that can move along the steel beam for precise placement of the hoist over any vessel. The hoist motor and trolley are over 30 years old and no longer serviceable. Although the hoist can still operate, the load limiter failed and could not be replaced. It is essential to have a load limiter on a hoist of this type set on a pier to ensure that loads in excess of the rated capacity are not lifted.

Staff recently received a low bid of \$29,750 to replace the existing hoist and trolley. Installation was completed the week of February 5. Although the hoist motor has a lifting capacity of 6,000 lbs., this hoist has a rated lifting capacity of 4,500 lbs. due to the structural capacity of the hoist base and City Pier based on a 2008 engineering analysis. Staff will consider updating the engineering analysis to assess the feasibility of increasing the capacity of Hoist 4. It's possible that improvements to the City Pier may be necessary and feasible which would greatly improve the ability to conduct a wide variety of activities from the City Pier that require hoists.

Prepared by: Karl Treiberg, Waterfront Facilities Manager