

THE NORTHWEST SEAPORT ALLIANCE
MEMORANDUM

MANAGING
MEMBERS
ACTION ITEM

Item No.

8C

Date of Meeting

October 5, 2021

DATE: September 1, 2021

TO: Managing Members

FROM: John Wolfe, CEO

Sponsor: Tom Bellerud, Chief Operations Officer

Project Managers: Rick Atkinson, Assistant Director, Equipment Maintenance,
and Joe Caldwell, Maintenance Project Manager

SUBJECT: Project Authorization for Service Crane Platform

A. ACTION REQUESTED

As referenced in NWSA Resolution No. 2020-02, Exhibit A, Delegation of Authority Master Policy, Paragraph 8.c.iii., states project costs exceeding \$300,000 require approval from Managing Members.

Request project authorization in the amount \$380,000 for work associated with the Service Crane Platform, Master Identification No. 201133.01.

B. SYNOPSIS

POT equipment maintenance needs to add maintenance platforms to all eight (8) cranes on Terminal 3 and 4. The new STS cranes were not designed with this maintenance platform and there is no safe way to perform maintenance on the backreach service cranes. Currently the only way to access the service crane is to use a ladder and harness on top of the lower platform at a height of 200ft in the air. The procedure raises safety concerns and limits maintenance actions on the crane. The new maintenance platform will ensure a safe, stable surface to perform preventive and reactive maintenance.

Maintenance is requesting engineering service to design a platform so we can fabricate and install a platform for each crane. Total number of platforms needing fabricating will be eight (8). All labor will be done in house with the exception of the engineering design.

C. BACKGROUND

The new STS cranes have large hydraulic cylinders and motors along with heavy wire rope sheaves that need to be changed from time to time when they fail or need to be serviced.

Due to the size and weight of these components they cannot be brought up the elevator or by using the machine house service crane. The crane platform is 200 ft. from the ground, and we do not have other means to hoist the parts to be repaired/replaced so the backreach service crane came with these cranes to specifically hoist these parts. The backreach service crane allows the mechanics to dismount the large/heavy items, raise them from their mounts and lower them to ground. The service crane is then used to raise the new component from the ground and place accordingly. Without these service cranes we would need to rent a mobile crane at a minimum cost of \$10K per day. This would typically take 3 days minimum (pending availability) to get the crane company in and the job may require a return visit to install. During this time the STS crane will be out of service. The backreach service cranes saves valuable time limiting the downtime of our STS cranes. We are proposing backreach service crane maintenance platforms be installed on all eight (8) STS cranes on Piers 3 & 4. This will allow the maintenance team to properly service and repair the service cranes safely and in a timely manner so the STS cranes will be operational when needed to support our customers' needs.

This project is being estimated using the fully burdened in-house labor cost at a charge out rate of \$174.49 per hr. This is a fixed cost the dept. would incur regardless if the project was completed or not. Cost of project minus labor is \$33K making it a relatively low-cost project.

D. PROJECT DESCRIPTION AND DETAILS

Project Objectives

Engineer, fabricate, and install eight (8) backreach service crane maintenance platforms.

Scope of Work

- Design service platforms
- Procure material
- Fabricate service platforms

Schedule

- Design – 4 weeks, ECD 12/15/21
- Order material – Estimated 2 weeks lead time, ETA 1/15/22
- Fabricate – 4 weeks per crane, ECD 9/15/22

E. FINANCIAL IMPLICATIONS

Project Cost Details

	This Request	Total Project Cost	Cost to Date	Remaining Cost
Procurement	\$ 20,000	\$ 20,000	\$ -	\$ 20,000
Design	\$ 13,000	\$ 13,000.00	\$ -	\$ 13,000
Construction	\$ 323,000	\$ 323,000.00	\$ -	\$ 323,000
Contingency	\$ 24,000	\$ 24,000	\$ -	\$ 24,000
Total	\$ 380,000	\$ 380,000	\$ -	\$ 380,000

Source of Funds

The current Capital Investment Plan (CIP) Budget allocates \$379,000 for this project.

Financial Impact

Project costs will be capitalized and depreciated over an estimated useful life of 20 years resulting in annual depreciation expense of \$19,000.

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F. ATTACHMENTS TO THIS REQUEST

- Computer slide presentation

G. PREVIOUS ACTIONS OR BRIEFINGS

None.