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EARL HATFIELD MARINE SURVEYORS &
ULTRASONIC GAUGING

JOINT SURVEY: 13071

Channelview, Texas

Re: Alleged Allision Damage
A/C M/V "LINDBERG CROSBY"
(02/11/19)

Official No.: 1235319
Gross: 1100

February 12, 2019

CYLINDRICAL TANK
BARGE "SHAWNEE"

THIS IS TO CERTIFY that the undersigned Marine Surveyor attended survey of aforementioned barge on February 11, 2019, while she lay afloat, empty, at Southwest Shipyard, Channelview, Texas, and subsequently, jointly on February 12, 2019, while she lay afloat, empty, at Southwest Shipyard, Channelview, Texas, at the request of Mr. Shamus O'Brien and Kirby Inland Marine, LP with documented barge owners being Kirby Inland Marine, LP, in order to determine the extent of alleged damage to the aforementioned barge while in tow of the M/V "LINDBERG CROSBY" and contact being made to the Interstate 10 Highway bridge crossing during inbound maneuvers to Southwest Shipyard, Channelview, Texas on February 11, 2019 with exact time unknown.

UPON EXAMINATION
THE FOLLOWING WAS:
FOUND:

RECOMMENDED:

BOW RAKE:

- 1.) Headlog set in 0" to 3" x 2' x 4' vertical long area, crowning adjacent main deck and bottom plate, located approximately 12' inboard of Port side plate.

Crop and renew one (1) 54" x 3/4" double shaped headlog plate approximately 6'0" long, one (1) 24" x 3/8" main deck plate approximately 5'0" long and one (1) 24" x 1/2" bottom plate approximately 5'0" long.

BOW RAKE INTERNALS:

- 2.) No. 6 Port headlog vertical channel stiffener bent, distorted and/or in way of renewals.

Crop and renew one (1) 15" channel approximately 3'6" long.

FOUND:	RECOMMENDED:
3.) No. 6 Port bottom longitudinal angle bent, distorted and/or in way of renewals.	Crop and part renew one (1) 6" x 3-1/2" x 3/8" angle approximately 3'0" long.
4.) No. 6 Port deck longitudinal angle bent, distorted and/or in way of renewals.	Crop and part renew one (1) 4" x 3" x 5/16" angle approximately 3'0" long.
5.) Port forward longitudinal bulkhead bent, distorted and/or in way of renewals.	Crop and part renew one (1) 18" x 5/16" plate approximately 4'0" long.
<u>RELIEF VALVE:</u>	
6.) Starboard cargo tank relief valve stack pipe recently set aft 0" to 1', bending and distorting stack pipe.	Remove and relief valve and send to qualified shop for inspection and testing, repairing and/or renewing as required. Remove and renew one (1) 8" OD stainless pipe approximately 5'0" long, one (1) 8" stainless ninety degree elbow complete with multi bolt flange. Set up and test vapor tightness test.

NOTES:


- A.) The aforementioned outlined repairs and/or renewals to be performed to good marine practice acceptable to owners and regulatory representatives.
- B.) The aforementioned repairs and/or renewals will "NOT" require dry-docking.
- C.) Provide intrayard shifting to perform repairs and/or renewals.
- D.) Provide shifting from repair facility to gas front. Provide shifting from gas front to repair facility.
- E.) Furnish all labor, material and equipment to perform repairs and/or renewals as per outlined survey.

- F.) Gas freeing is required to perform hot work. Gas freeing will not be included in bid submission. Last Product unknown at time of survey. Marine Chemist Certificates to be furnished, as required, to perform repairs and/or renewals.
- G.) Adequately test in way of all repairs and/or renewals, including adjacent tanks or voids, acceptable to owners and regulatory representatives.
- H.) Provide ventilation to all areas as required by Marine Chemist.
- I.) Provide required services of competent person check.
- J.) All disturbed external and internal areas to be properly prepared and coated as per Kirby provided coating specifications.
- K.) Open and close barge as required to perform all repairs and/or renewals. Clean barge and perform inspection prior to departing facility.
- L.) Perform Vapor Tightness and Cargo Pipeline Test, including all materials, as required to perform repairs and/or renewals.

ATTENDING SURVEY:

Mr. Brad Faulk, Marine Surveyor, Interest Behalf Crosby Tugs

THIS SURVEY WAS PERFORMED WITHOUT PREJUDICE FOR THE
ACCOUNT "TO WHOM IT MAY CONCERN".

 SURVEYORS, LLC

Bill Hatfield, Marine Surveyor
Interest Behalf Kirby Inland Marine, LP.

Jim Quackenbos, Marine Surveyor
Interest Behalf Crosby Tugs
With Only Exception Taken By Qubed that Relief Valve Can Be Tested In Place if Achievable and
Approved By USCG.