UNITED STATES COAST GUARD

Address Reply to: COLMANDANT U. S. Coast Guard Headquarters Washington, D. C.

EVI 26 April, 1951 (STALL LAVESTUR -ASTRA(Denich) CoS Ed)

From: Chief, Lerohant Vessel Inspection Division

To: Commandant

Via: Chief, Office of Horohent Marine Safety

Subj: Marine board of Investigation; SS STEEL INVESTOR - SS ASTRA - collision on 30 waroh, 1951 off Little and Inlet, New Jersey.

- lo Pursuant to the provisions of Title 46 CFR, Part 136, the record of the Marine Board convened to investigate subject casualty, together with its Pindings of Pact, Conclusions, and Recommendations, has been reviewed and is forwarded herewith.
- 2. The SS STEEL laveleton, a freight vessel of 5686 g.t., and the SS ASTRA, a Danish freighter of 2709 g.t. were inbound to New York. The weather was dense fogo and both vessels, although sounding regulation fog signals, were proceeding at excessive speeds. At approximately 0617 on 30 karch, 1981 the STARL INVENTOR and the ASTRA collided approximately 15-20 miles Southeast of Atlantic City, New Jersey. As a result of the collision the ASTRA sonk and the STARL INVENTOR sustained \$25,000.00 in dranges. No lives were lost and no injuries were sustained in this casualty.
- 5. The Beard made the following Findings of Fact:
 - "lo The American freight vessel STANL LEVENTOR and the Danish freight vessel ASTRA collided at approximately 6:17 A. H. on 50 March, 1951 in a position 39° 11' north, 74° 72' west. At the time of the collision fog prevailed with a visibility of less than 1,000 feet, a southeast wind, force 5 to 4 and moderate sea.
 - 2. The STEEL INVENTOR is a freight vessel of 5,686 gross tons, efficial number 220776, built in 1920, owned and operated by the Isthmian Steemship Co., of 71 breadway, New York City. The vessel was in command of single serew powered by fareons cross compound turbine of \$100 horsepower. Her propeller pitch is 14' 6.5", and under 62 R. P. H., her maximum speed loaded is slightly better than 11 knote.
 - 5. The ASTRA is also a steam vessel of 2.709 gross tone built in 1945 and owned and operated by The Steamship Orion Inc. of Amaliegade 36 Copumhagen, bennark. The vessel's propulsion is steam, double compound oxhaust turbine, rated horsepower 1800, propeller pitch 4.4 meters, 86 R. P. M., speed about 11 kmots. Her master was Captain of Lannosvei & Copenhagen, Denmarke

The STEEL INVENTOR had departed Philadelphia on 29 wareh, 1951 partly laden, bound for New York. Her cargo consisted of 1,756 tome of general cargo and steel, and her draft forward was 13' 8" and aft 18' 6". After having possed everfalls light Vessel the course was set for Five-Fathom Bank which was passed about at 5:10 Ac Mo A course of 40 degrees true was set from Five-Pathon Bank, per gyre compass, which had one degree easterly error. Shortly after 5:00 A. E., the mester, who had been sleeping in the chart room, was called to the bridge by the chief mate who was on watche. The reason for summoning the master at this time, was that fog had set in, reducing visibility to approximately 1/2 mile. The telegraph was placed on standby and the revolutions of the engines reduced to 60, which would provide a speed of approximately 8 knots or slightly overs Fog signals were sounded at regular intervalss At about 6:15 Ao ho a fog signal was heard shead clightly on the pert bewo and the STELL INVENTOR's engines were stoppedo "ithin seconds thereafter emother fog eignal was heard on the port bow, close sboard, and the engines were ordered full estern; her wheel also ordered hard right. Samultaneously, the ASTRA hove into sight, approximately a ship length shead, and the STEEL INVESTOR's wheel was immediately put hard lefto This maneuver was made almost immediately upon the right wheel order, which had not as yet affected the ship's heading. The vessel swung left, and while so swinging, collided with the ASTRA, her stem striking the starboard side of the ASTRA in way of the bulkhend between numbers 5 and 4 hatches at an angle of about 50 degrees,

The STAL LAVENTOR's bow penetrated into the ASTRA's side approximately 10 feet, neusing severe damage, as a result of which the ASTRA's after holds were fleeded, causing the after end to sink deeks to elmost immediately. The STEEL INVESTOR maneuvered in close preximity to the ASTRA in order to render essistance, and at 6:30 A.Mo. the ores of the latter vessel were ordered to abandon ship using their own lifeboots. All hands of the Danish vessel were taken on beard the STREEL INVENTOR which continued to remain in the vicinity of the striken vessel. At 9:30, the master of the ASTRA with six members of his erew. returned to the vessel in order to make further determination as to her condition and also to drop her anchor, which was done. After the master had determined that the vessel was apparently in a sinking condition and that the engine room bulkhead might let go any time, he again left with his orew and returned to the STEEL INVESTOR. The STEEL IN-VENTUR's master also offered to put a houser on board the ASTRA and take her in tows This offer was declined by Capthin reasons as stated by him that he did not consider it said for the STEEL INVESTIR to memouver into position for such operation, due to the increasing wind and sea, and further, that he would prefer the assistance of a regular towing vessel. In this connection it is noted that a towing vessel was requested by radio, but due to weather conditions, as well as the condition of the ASTRA, no contact was made. At 10:20 P. M. on 50 Harch, the STEEL INVENTUR, after communicating with the Coast Guard Cutter TANAROM which was in attendance, reseived instructions to preceed to New York, which it did with the entire eres of the ASTRA on board his vessel.

The ASTRA had departed from Fier 14, ... ast River, New York on 50 Sarch, 1951, bound for Havana, Cube, The vessel was partly laden estrying a total tonnege of 1,163, and drawing 11' 3" ferward and 16' 10" aft. In addition to her cargo, she also carried her ballast tanks filled with ballast water, totaling appreximately 870 tonse After disemberking her pilot at Ambrose, a course was not for Barnegat Light Vessel per standard compass, and Bernegat was passed about close to port at 2:48 A. Ne From this point a course of 190 degrees true was maintained calculated to take the wessel 5 miles off Diamond Shoels Light Vessele The wind was southeasterly force 4 to 5 with a head see, which reduced the vessel's speed through the water to approximately nine knote, At 4:00 As he, the watch was changed and the chief officer took overs Chortly after 5 o'cleck, fog set in with the visibility reduced to less than 2,000 feet. The master was called to the bridge and the engine room telegraph was placed on standby. Other than that, no reduction of speed was ordered, Regulation fog signals were sounded and at about 6:10 A. Ho, the first fog signal of the STEEL IN-VEHTOR was heard on the ANTAL's starboard bows and speed was then reduced to slow. Four more fog signals were subsequently heard from the STEEL I VERTIKe appearing to broaden, and shortly before the collision, the STEAL LAVERTOR was eighted about four points on the starboard bow of the ASTRA, approximately three ship-lengths away, sporesching at ma angle, and apparently swinging left, At that time, Captain ordered full speed sheed on his engine and hard right rudder, thereby attempting to meneuver his vessel perallel to the STELL INVENTIR, in order to minimize the effect of the cellision. The vessels subsequents ly came together as described, at an ample of about 50 degrees. The legation of the collision as determined by Dead Rockening was Laty 590-11' north, longe 740 72' west,

7. As to the final disposition of the ASTRA, she is considered a total loss, when the STEEL INVENTOR departed the seems at 10:20 P. F. on 30 kareh, the forward and was still affect but her after-body was submerged and apparently touching bettom. The vessel subsequently settled with both topmasts above the surface in 76 feet of water, 10% miles, 097.5 degrees true from Atlantic City Light, and was also marked by a budy located 200 yards and 120 degrees true from the wreak. The damage to the STEEL INVENTUR was above water, and forward of her collision bulkhead, and is estimated at \$25,000,000.

to The Beard made the following Comelusions:

"l. It is evident that the actions of both navigators contributed to the collision, and the resulting major damage. The master of the STREL INVANTOR, in preceeding at a speed of 8 kmots or better, with a tail wind and in a trafficked eres, should have realized that he was at a disadvantage to hear fog signals sheed, under the preveiling conditions, and governed himself secondary. It is not considered that by reducing speed to 8 kmots or better, he thereby placed his vessel in a position to maneuver effectively to avoid collision. Although he heard two fog signals of the ASTRA, the time interval, as

well as his headway were such that any naneuver attempted after the ASTRA was sighted would be ineffective. He should have, after the vessel entered fog, made a more substantial reduction in speed, and indicated same on his engine room telegraph. Under the existing conditions it is not believed that the speed of the STEAL INVENTOR was moderate, and to that extent, Captain the speed is considered remiss under h. S. 4450, as amended. He was therefore charged with negligence with an appropriate specification and cited for hearing on 16 april, 1951.

2. As to the mavigator of the ASTRA, it is equally evident that he did not navigate his vessel in secondance with the governing rule in fog. when his vessel entered fog, no appreciable reduction in speed was made until he heard the first fog signal of the STAGL INVANTUR. At this time he placed his engine room telegraph on slow. Further, although he continued to hear the encoming vessel's fog signals, he can obviously unable to determine the position of the STAGL INVANTUR, and for that reason should have stopped his engines, if necessary, and navigated with continuously danger of collision was passed. There is no doubt, that had both navigators reduced their vessel's speed substantially or sufficient to maintain here steerageway, they would have been able to estimate more accurately their relative position during the approach, and thereby passibly avoided collision, or at least minimized its effect.

So The board made the following Recommendation:

and further, since no jurisdiction exists with respect to proceedings against the Danish master, no additional action is considered necessary. In recommending that the case be closed, the Board calls attention to the apparent practice of placing the engine order telegraph on standby while underway in fogs whereas some slight reduction of speed by pre-errangement is also used subsequent to the standby signal, the effect usually falls far short of the intent of the Governing Rule. It is suggested that this subject be publicised in the Council Proceedings, stressing the duty of navigators to substantially reduce speed in fog, and to use the engine order telegraph for its intended purpose, so that all engine maneuvers may be properly registered and acknowledged, and also recorded."

RULLARIES

6. It is recommended that the Findings of Fact, Conclusions, and Recommendation of the Marine board of Investigation be approved.

Chief, LVI bivision to

26 April, 1951 (STLEL INVAMBOR - / STRA CoS Ld)

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From: Chief, Office of Merchant Marine Safety (STABL 16VASTOR-ASTRA C-3 Ed)
To: Commandant

Forwarded, recommending approval.

APPROVED: May 4, 1951

WERLIN O'NEILL
Vice Admiral, U. S. Coast Guard
Commandent