

## CHRONOLOGICAL ORDER OF EVENTS LEADING TO THE COLLISION BETWEEN COURAGEOUS AND ANL

Time	Courageous	ANL
23:20	<ul style="list-style-type: none"> <li>Course 050°. Speed 9 knots</li> <li>Proceeded in eastbound lane of the TSS</li> </ul>	<ul style="list-style-type: none"> <li>Course 051°. Speed 23 knots</li> <li>Proceeded in eastbound lane of the TSS</li> </ul>
23:24		<ul style="list-style-type: none"> <li>Tracked <i>Courageous</i> on its radar</li> </ul>
23:24:20	<ul style="list-style-type: none"> <li>Trainee OOW ordered port helm to “U-turn”</li> <li><b>Operational decision to keep <i>Courageous</i> close to Horsburgh Lighthouse</b></li> </ul>	
23:25	<ul style="list-style-type: none"> <li>Swung to port and steadied on 235°</li> <li>Proceeded in eastbound lane, against traffic flow</li> </ul>	
23:26		<ul style="list-style-type: none"> <li>Noted <i>Courageous</i>’ alteration to 235°</li> <li>Observed <i>Courageous</i> with their eyes &amp; on radar</li> <li>Assessed that <i>Courageous</i> would pass safely on its port side</li> </ul>
23:30	<ul style="list-style-type: none"> <li>Trainee OOW ordered port helm of 10° to remain closer to Horsburgh Lighthouse</li> <li><b>Contravened COLREGS Rule 14(a)</b></li> </ul>	

23:32	<ul style="list-style-type: none"> <li>• Radar plotter reported that ANL &amp; Courageous were expected to pass each other at &lt; 3 cables (0.3nm or 500m)</li> <li>• <b>Distance between ANL &amp; Courageous reduced to 1.7nm(nautical miles) (which is equal to about 3km)</b></li> </ul>	
23:33	<ul style="list-style-type: none"> <li>• 2331-2333hrs: Trainee OOW ordered two more alterations first to 210°, and then to 200°</li> <li>• Trainee OOW assumed that ANL would not alter course</li> <li>• <b>Contravened COLREGS Rule 14(a)</b></li> <li>• <b>Contravened COLREGS Rule 8</b></li> </ul>	<ul style="list-style-type: none"> <li>• Passed Horsburgh Lighthouse on starboard side</li> <li>• Master ordered alteration to starboard to give <i>Courageous</i> wider berth</li> <li>• <b>Alteration to starboard was correct under COLREGS</b></li> <li>• A little after 2333hrs, Master ordered further alteration to starboard</li> </ul>
23:34	<ul style="list-style-type: none"> <li>• Trainee OOW ordered another alteration to 190° &amp; increased speed to 11-12 knots</li> <li>• <b>Distance between ANL &amp; Courageous reduced to 0.8nm (1.4km)</b></li> </ul>	<ul style="list-style-type: none"> <li>• Sounded prolonged blast to alert <i>Courageous</i></li> </ul>
23:35	<ul style="list-style-type: none"> <li>• Trainee OOW ordered helm to “hard-a-port” &amp; OOW ordered full throttle</li> </ul>	
23:35:34	<b>Collision</b>	