



**Society of Naval Architects and Marine Engineers
2009 Annual Meeting and Expo**

Title: Safe Return to Port – Challenges Ahead for Passenger Ship Design

SNAME PS#: 038.R4

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Abstract: The new SOLAS regulations II-1/8-1, II-2/21 and II-2/22 on safe return to port are introduced; it is demonstrated how the regulations will influence the design of future passenger ships. The requirements on safe areas and on propulsion system layout are discussed with the aid of examples. A software tool supporting the safe return to port assessment is proposed. The tool will assess the degraded performance of essential systems for all relevant casualty cases.

Keywords: Safe Return to Port, Safe Area, Passenger Ship, SOLAS, Assessment Software, Propulsion System