

# METODOLOGIA DE EVALUAREA A RISCULUI MARIN UTILIZÂND EVALUAREA FORMALĂ A SIGURANȚEI ÎN BAZINUL MĂRII NEGRE

## MARINE RISK ASSESSMENT METHODOLOGY USING FORMAL SAFETY ASSESSMENT IN THE BLACK SEA BASIN

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**Abstract:** Formal safety assessment (FSA) is a structured and systematic methodology, aimed at enhancing maritime safety by using risk and cost-benefit assessment. Formal safety assessment (FSA) represents IMO's response to the necessity of a modern approach of the process of establishing regulations in order to improve safety at sea. Black Sea pollution has now reached an unprecedented level, the biggest polluter being hydrocarbons. While the level of safety at sea has in general improved in recent years, accidents still occur and improvements are still desirable. An important role in oil pollution is played by the offshore and the tanker accidents. The aim of the work proposed herewith is to present the steps of risk assessment methodology that could be incorporated in the whole process of the FSA. Risk assessment results stay on base of risk management to the adoption of measures for risk control, prevention and reduction in operating ships at sea and to the recommendation for decision-making bodies and regulators to bring risk to the lowest possible level. The best reduce measures of risk are established based on cost-benefit analysis.

**Keywords:** formal safety assessment, risk assessment, hazards identification, decision making.