



TECHNICAL CIRCULAR No. 557 of 09<sup>th</sup> April 2019

To: All Surveyors/Auditors

Applicable to flag: All Flags

**Risk Assessment**

Reference: CONARINA Instructions

**RISK ASSESSMENT**

The risk evaluation foresees following steps:

- 1) Identification of existing dangers;
- 2) Identification of causes that can lead to a dangerous situation when the activity is carried out;
- 3) Identification of measures taken in order to mitigate it (devices, procedures, training, IPD, etc.);
- 4) Description of possible consequence for persons, ship, and environment, considering measures taken;
- 5) Probabilistic evaluation of event occurrence, considering measures taken;
- 6) Evaluation of consequences of the event as per point 4, considering measures taken;
- 7) Level of risk evaluation through the matrix in which on columns it is indicated the probability that the event will occur and on rows consequences are indicated;
- 8) Identification of measures to be taken in order to improve prevention and/or protection in order to reduce risk level (if necessary).

The activity has an acceptable risk level if this is inside the green area of the matrix, tolerable if inside yellow area and intolerable if in the red area.

For those activities with an acceptable risk level no improvement measures are requested.

If an activity has a tolerable risk level, preventative and/or protection measures shall be taken (if reasonably possible) to turn risk level into green area; such activity cannot be carried out until such measures are in place.

If an activity has an intolerable risk level, it cannot be started until proper means able to reduce risk level are in place.

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	Consequences (C)		Probability (P)				
			A	B	C	E	
	Persons	Ship	Environment	Rare in ships working environment	Several times per year in ships working environment	Once a year on board of a Company ship	Several times per year on a ship
1	None/ minor injury Minor illness/ soreness	None/ minor damage	None/ minor effects	Acceptable			
2	Non serious injury Illness that may lead to a temporary reversible disability	Minor damage	Minor effects	Acceptable		Tolerable	
3	Serious injury Illness that may lead to a minor permanent disability	Local damage	Local effect	Acceptable	Tolerable		Intoleraile
4	Death or very serious injury Illness that may lead to death or serious permanent	Extended damage	Extended effects	Tolerable	Intolerable		

REFERENCES:

- SOLAS-ISM

- ATTACHMENTS: No

kindest Regards,  
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