




**DESIGN ASSESSMENT CERTIFICATE**  
No. **ELE270618CS**



**This is to certify** that, at request of the Applicant, design plans and data for the products listed below have been examined against applicable sections of the Rules. This certificate is not a type approval certificate or a production control certificate and does not exempt the product from being tested in accordance with applicable RINA rules and procedures for its installation on board. It will remain valid until the expiring date and will automatically become invalid in case of, either changes in the applicable Rules or changes in the product carried out without RINA approval.

<i>Description</i>	<b>Safety Monitoring &amp; Control System (SMCS)</b>
<i>Type</i>	<b>SMCS Alert Management V.1.3</b>
<i>Applicant</i>	<b>MARTEC S.P.A. VIA DELL'INDUSTRIA 1/3 20060 Vignate (MI) ITALY</b>
<i>Manufacturer</i>	<b>MARTEC S.P.A.</b>
<i>Place of manufacture</i>	<b>VIA DELL'INDUSTRIA 1/3 20060 Vignate (MI) ITALY</b>
<i>Reference standards</i>	<b>IMO resolutions MSC.302(87), A.1021(26) and colour code according to ISO standard 2412</b>

*Issued in* **Genova** on **October 18, 2018**. *This Certificate is valid until* **October 18, 2023**

  
**RINA Services S.p.A.**  
**Valerio Bonanni**

This certificate consists of this page and 1 enclosure



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**SMCS Alert Management V.1.3**



**System Description**

The SMCS (Safety Monitoring & Control System) is a computer based system which integrates the main safety systems on board in a unique man-machine interface, accessible in operative areas where elements and alarms can be managed from the operator's workstations.

**Main Philosophy**

In order to supply the operator by "Decision Support System" in emergency procedures, the SMCS Alert Management System, divides the Faults events in "Critical Faults", managed as "Warnings", and "non-critical faults", managed as "Cautions".

The SMCS alarm categories **Active, Fault, Discrepancy, System Failure** are linked to the 3 alert priorities **Alarm, Warning, Caution**.

IMO Alert	SMCS Alert
Alarm CAT A CAT B	Active alarm Discrepancy alarm
Warning	Critical Fault
Caution	Fault

**Note:**

SMCS **Active** alarms start up usually the integrated "Decision Support System" in order to supply the operator with the emergency procedures. They fall into IMO "Category A" alerts.

The SMCS **Discrepancies** are anomaly events due to failed control operations, normally operated by the Safety Centre (e.g.: a fire door not closed following a shutdown procedure). These events are critical in emergency conditions and must be acknowledged. They fall into IMO "Category B" alerts.

**Reference Documents**

- SMCS Alers Management V.1.3

**Remarks**

SMCS is subject to case by case acceptance - plan approval - FAT - HAT - SAT

Any modification/update in the design, type of components and/or software/firmware update is to be duly communicated, giving evidence of the entity of the changes.

**Genova October 18, 2018**

