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NAUTICUS HULL
RELEASE NOTE

JANUARY 2008 - PATCH 1

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REVISION 10.52

DET NORSKE VERITAS

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Contents

1 Introduction

1.1 Purpose

The purpose of this document is to inform the users about enhancements and bug fixes in the Nauticus Hull January 2008 from the main release to Patch 1.

1.2 Updates in this Release Note

This release note might be updated with new information after the distribution of this patch. To check the latest updated version of this document, please see our Internet page ***DNV Software Download and Updates.*** To open this page you can follow this Link.

1.3 Installation

Prior to this upgrade you must have the Nauticus Hull January 2008 version installed, and in most cases you need the install files from this installation when running this upgrade.

2 Program Updates

2.1 Nauticus Workflow Manager

2.1.1 Error Corrections:

1) Draught for CSR-Tank fatigue loading conditions (IM 1302)

If the draught for a CSR-Tank fatigue loading condition was changed by the user in the loading conditions grid, the mean value of the original draught and the updated draught was used in the fatigue calculations in Section Scantlings.

The error has been corrected.

2) Frame No aft and Frame No fwd for compartments (IM 1303)

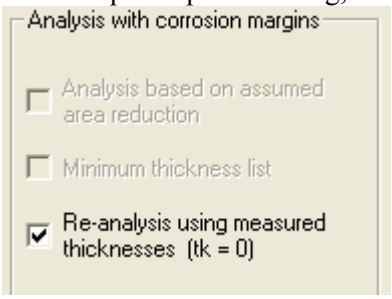
If the bounding geometry for a compartment was changed by the user in the compartment data grid the *Frame No aft* and *Frame No fwd* attributes for the compartment was not updated, and incorrect values were printed in the Section Scantlings report.

The error has been corrected.

2.2 Section Scantlings

2.2.1 Error corrections

a) Re-analysis using measured thicknesses (IM 1295)
In the Report Options dialog, consider the re-analysis option as shown below:



If this option is set, the corrosion additions for plates and stiffeners are to be taken as 0 in the calculations. However, the standard corrosion additions were applied anyway.
As a result of this error, the re-analysis option had no effect on the results.

The error has been corrected.

b) Insufficient section modulus of stiffeners: The marker * was missing (IM 1305)
(CSR-Tank only)
In the results report, consider the local Rule requirements table for stiffeners as shown below

Local Rule Requirements - Stiffeners

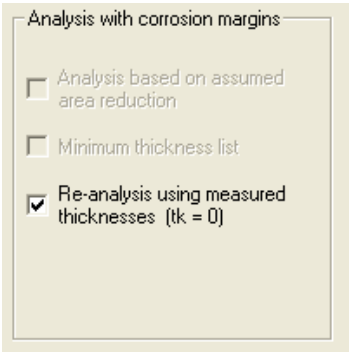
Stiff. No	ACT ACT	Pos Z_{net} cm^3		Type Type	h t_w (mm)
	LOC	$Z_{r\,net}$ cm^3	Exc. %	t_{min} (mm)	$t_{w\,shear}$ (mm)
	BUC	$I_{r\,net}$ cm^4	I_{net} cm^4	$t_{f\,buc}$ (mm)	$t_{w\,buc}$ (mm)
19	ACT	Strdk		31	300
	ACT	505		Angle	11.0
	LOC	924 *	-45	11.0	8.6
	BUC	3344	12858	11.6	8.38

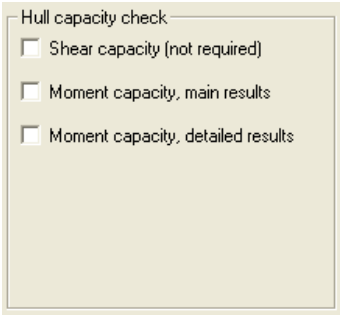
In the Jan 2008 version of the program, the trailing marker * that indicates an insufficient section modulus was missing. The marker was OK in previous versions of the program.

The error has been corrected.

2.2.2 Other changes

Options for ultimate shear and moment capacity (offshore ships) (IM 1301)
For offshore ships designed for operation in benign waters, checking the ultimate shear and bending capacity of the hull girder is not required. Therefore the related options in the "Report options" dialog were disabled. However, checking the shear and bending capacity for old offshore ships is quite relevant and has been requested.
Now this option has been made available, as follows:
In the Report Options dialog, check the option "Re-analysis using measured thicknesses". Then the three options related to the shear and moment capacity will become visible, as shown below.





2.3 Rule Check XL

2.3.1 Error corrections

- CSR-Bulk_HoldMassCurves.xls: When importing main ship data the parameters for draught and depth were interchanged. (IM 1311)

- CSR-Tank_PressureLocSupMemb.xls: Added the possibility to specify a static overpressure for cargo tanks to be included in the load condition S+D. (IM 1296)

2.4 Modelling And Analysis

2.4.1 Error Corrections

2.5 PULS Advanced viewer

2.5.1 Error Corrections (IM 1307)

In the release the graphical plots of the panels were not updated when the user changed input and recalculated. This is now corrected.

3 Known Issues

In Known issues, program errors and limitations are found in the online **Status List**:

Nauticus Hull status list