

IACS Common Structural Rules for Double Hull Oil Tankers, January 2006

Background Document

SECTION 8/7 – SCANTLING REQUIREMENTS APPLICATION OF SCANTLING REQUIREMENTS TO OTHER STRUCTURE

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7 APPLICATION OF SCANTLING REQUIREMENTS TO OTHER STRUCTURE

7.1 General

7.1.1 Application

7.1.1.a This sub-section addresses a means for Rule evaluation of local and primary support members where the basic load assumptions and end support conditions of scantling requirements of *Section 8/2* to *Section 8/5* of the Rules do not accurately model the structure being evaluated. It provides a framework, which can be used to assess such members in a manner consistent with the requirement specified in *Section 8/2* to *Section 8/5*. The approach used is consistent with the practices adopted today by LR, ABS, and DNV, in a manner much like that presented in the DNV Rules Pt. 3 Ch.1 Sec.3 B400.

7.2 Scantling Requirements

7.2.1 General

7.2.1.a It is considered that for this topic, no information in addition to that shown in the Rules is necessary to explain the background.

7.2.2 Plating and local support members

7.2.2.a The criteria in this sub-section provide the framework for determination of local plate thickness, stiffener section modulus and stiffener web thickness. The information provided in the Rules does not need further explanation.

7.2.3 Primary support members

7.2.3.a The criteria in this sub-section provide the framework for determination of section modulus and web sectional area for primary support members. The information provided in the Rules does not need further explanation.