Background Document

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

NOTE:
- This TB is published to improve the transparency of CSRs and increase the understanding of CSRs in the industry.
- The content of the TB is not to be considered as requirements.
- This TB cannot be used to avoid any requirements in CSRs, and in cases where this TB deviates from the Rules, the Rules have precedence.
- This TB provides the background for the first version (January 2006) of the CSRs, and is not subject to maintenance.
TABLE OF CONTENTS:

7  APPLICATION OF SCANTLING REQUIREMENTS TO OTHER STRUCTURE .................. 4

7.1 General ....................................................................................................................... 4
7.2 Scantling Requirements ............................................................................................ 4
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.