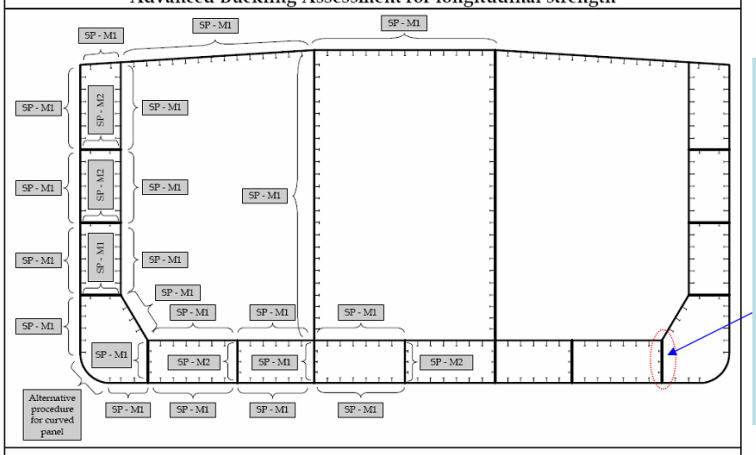
KC#704

Case 1

Figure D.5.1
Advanced Buckling Assessment for longitudinal strength



Notes

1. SP – M1 denotes stiffened panel – buckling strength assessed using Method 1
2. SP – M2 denotes stiffened panel – buckling strength assessed using Method 2

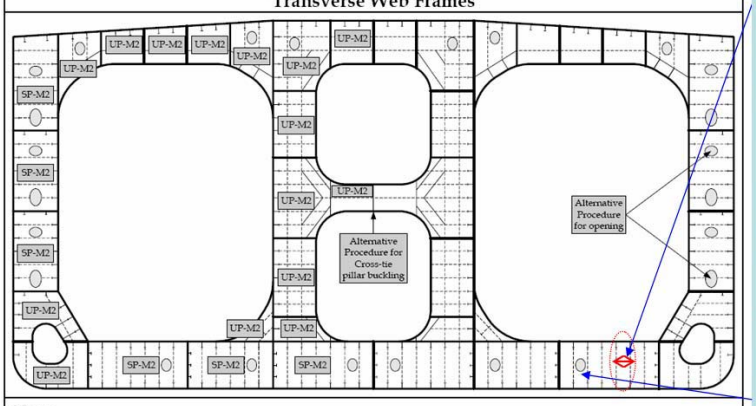
1.1

In case of snipped stiffener is appleid at side girder, which method should be applied?

SP-M1 with snipped stiffener , SP-M2 with snipped stiffener, UP-M1 or UP-M2 ?

Case 2

Figure D.5.2
Transverse Web Frames



Notes

SP – M1 denotes Stiffened Panel – buckling strength assessed using Method 1

UP – M2 denotes Un-stiffened Panel – buckling strength assessed using Method 2

SP – M2 denotes Stiffened Panel – buckling strength assessed using Method 2

2.1

In case of additional buckling stiffener is applied at floor. Which method should be applied?

2.2

And other buckling panels at the same stiffened panel SP-M2 with stiffener number of 6 is acceptable?

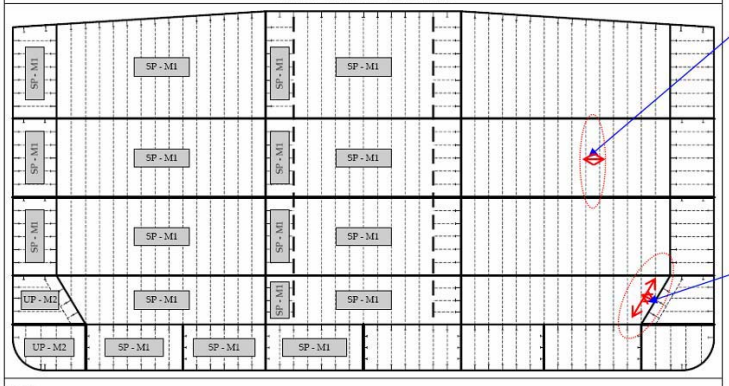
2.3

If opening is not modelled and net thickness is recuded based on Table B.2.2 in App2.

How to do buckling assessment with this buckling panel?

Case 3

Figure D.5.3
Transverse Bulkhead



Notes

SP – M1 denotes Stiffened Panel – buckling strength assessed using Method 1.

UP – M2 denotes Un-stiffened Panel – buckling strength assessed using Method 2

3.1

In case of additional buckling at Bulkhead. Which method should be applied?

SP-M1 with secondary stiffener , UP-M2 or UP-M1 ?

3.2

If stiffener is installed as shown, which method should be applied?

SP-M1, UP-M2 or UP-M1 ?