

## Appendix-2 Flange Rigidity per 2008 Addenda:

Have the flange rigidity requirements been annulled? No, but the 2008 Addenda to the ASME VIII-1 Boiler and Pressure Vessel Code does have an interesting revision to Appendix-2, governing custom-designed flanges. Flange rigidity calculations can be disregarded for the following conditions:

- **Field Trial:** Successful service experience
- **Fluid Type:** Nonlethal and nonflammable
- **Design Temperature:** for the range -20F (-29°C) to 366F (186°C)
- **Design Pressure:** Up to 150PSI (1,035 kPa)

This is all presented in the nicely written paragraph 2-14 shown in the figure below. The required calculation of the stresses and the determination of allowable stresses, as laid out in 2-7 & 2-1, do not change. However, it is the additional burden imposed by the rigidity calculations that is lifted for this narrow window of conditions.

### Does this really help?

For the conditions specified above, this will be a definite advantage. However, the catch will be (as it has been with Code case 2547), to demonstrate to the Canadian Jurisdictions “*successful service experience*”. We’ll have to see...

