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May 08, 2003

WITHDRAWN November 22, 2019

VARIANCE

To Section 5(1) of the Design, Construction and Installation of Boilers and Pressure Vessels Regulations (AR 227/1975)

In accordance with Section 38(1) of the Safety Codes Act (with amendments in force as of December 4, 2002), a variance is hereby issued to the Design, Construction and Installation of Boilers and Pressure Vessels Regulations (AR 227/1975 with amendments up to and including AR 158/2002).

This Variance applies to ASME B16.5, B16.34 and B16.47 standards referenced in the codes and standards declared in force in Section 5(1) of the Design, Construction and Installation of Boilers and Pressure Vessels Regulations (AR 227/1975 with amendments up to and including AR 158/2002).

This Variance permits the use of flanges, flanged fittings and valves made from:

- a) A182 F317 materials and otherwise in compliance with ASME B16.5, B16.34 or B16.47 at the pressure-temperature ratings for Material Group 2.2 of these standards. At temperatures over 538 °C (1000 °F), this material may only be used when the carbon content is 0.04% or higher.
- b) A182 F317L materials and otherwise in compliance with ASME B16.5, B16.34 or B16.47 at the pressure-temperature ratings for Material Group 2.3 of these standards. Maximum temperature for this material shall be 455 °C (850 °F).
- c) A351 CG3M materials and otherwise in compliance with ASME B16.5, B16.34 or B16.47 at the pressure-temperature ratings for Material Group 2.2 of these standards. Maximum temperature for this material shall be 455 °C (850 °F).

This Variance may be used until it is revoked, or until the materials are included in the ASME B16 standards, in which case, the limitations of the standards will apply.

Background

The materials referenced in this Variance are listed under ASTM and ASME Section II-A and are accepted for pressure equipment applications. However, these materials are not included in the ASME B16 standards. There is an immediate need in the industry to use these materials for flanges, flanged fittings and valves.

ASME B16 Subcommittee N issued a letter on Feb. 24, 2003 informing industry that material A182 F317 will be included in the next edition of both ASME B16.5 and B16.34 standard, scheduled to be published later this year. In the same letter, ASME B16 Subcommittee N also advised that the request for the addition of A182 F317L and A351 CG3M materials has been referred to ASME B16 Subcommittees N and C for review and recommendations.

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