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**Use of Part UHX of ASME Section VIII Division 1
A Notification to all Manufacturers and Users of Shell-and-Tube Heat Exchangers**

Part UHX was first introduced in 2003 as part of the addenda to the 2001 edition of the ASME Section VIII Division 1 for the construction of shell-and-tube heat exchangers. Part UHX was available to be used starting July 1, 2003 and became mandatory effective January 1, 2004 for construction of shell-and-tube heat exchangers bearing ASME Code Stamping.

When first introduced, requirements of Part UHX were partly originated from the previous non-mandatory appendix AA and UW-20 with new additions not addressed in the Code before. Since 2003, numerous revisions, some of which were errata or editorial in nature, have been made to the Part UHX. However, some of these revisions could well be of significance.

We also understand that Paragraphs UHX-13 and 14 are now under review for revisions as the current formulae cover the prediction of tube stresses only at the periphery of the bundle. Possibly, tubes elsewhere in the tube field may be overloaded in tension, compression, or both.

In view of the numerous revisions to Part UHX since its introduction in 2003 and the proposed revisions, manufacturers and users of shell-and-tube heat exchangers are urged to review units produced or in operation to ensure that Code revisions to Part UHX subsequent to their unit's being constructed would not impact significantly on integrity of their units. As well, they have to assure themselves that their heat exchangers are not subject to stresses beyond Code allowables once the revisions to Paragraphs UHX-13 & -14 are published.

Also, it is important to remember that anyone manufacturing shell-and-tube heat exchangers to already registered designs must ensure that the designs are in full compliance with the latest Code edition and addenda and that all necessary revisions to such designs are submitted for review and registration.

K. T. Lau, Ph.D., P.Eng.
Administrator and Chief Inspector
Pressure Equipment
Province of Alberta