**ASME B31.3[[1]](#footnote-1) Other Unlisted Non-Metallic Component Evaluation**

Does component fall into the **A304.1 Straight Pipe**, **A304.2 Curved and Mitered Segments of Pipe**, **A304.3 Branch Connections**, **A304.4 Closures**, **A304.5 Pressure Design of Nonmetallic Flanges**, or **A304.6 Reducers**? If so, evaluate per that paragraph.

Does the component fall into **A304.7.2 Unlisted Components**? Does component fall into **A304.7.2 Unlisted Components** or **A304.7.3 Nonmetallic Components With Metallic Pressure Parts**? If so evaluate per the following:

**A304.7.2 Unlisted Components** perform the following evaluation

|  |  |  |
| --- | --- | --- |
| **Item** | **Requirement** | **Completed (attached)** |
| A | extensive, successful service experience under comparable design conditions with similarly proportioned components made of the same or like material  |  |
| B | performance test under design conditions including applicable dynamic and creep effects, continued for a time period sufficient to determine the acceptability of the component or joint for its design life  |  |

For **A304.7.3 Nonmetallic Components with Metallic Pressure Parts** also complete the ADMIN-2-Form 3C.

Guidance:

For A or B above, the designer may interpolate between sizes, wall thicknesses, and pressure classes, and may determine analogies among related materials.

Materials must meet **A302.3 Allowable Stresses and Other Design Limits** and **A323 GENERAL REQUIREMENTS.**

Evaluated By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

Owner or Designee: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

1. Note: Code references herein are based on the 2022 edition. Modify as necessary to align with newer editions. [↑](#footnote-ref-1)