Inquiry: Under what conditions may an alternate tension test specimen be used for graphite compound material in a Section VIII, Division 1 pressure vessel?

Reply: It is the opinion of the committee that when graphite compound material is produced in such a way that tension test specimens cannot be manufactured per Figure UIG 76-1 due to product dimensional limits, then an alternate tension test specimen may be used provided the following requirements are met:

a. The alternate tension test specimen shall comply with the figure below.
b. The tensile strength testing shall be performed as described in Mandatory Appendix 37.
c. The results of the tensile strength testing shall be documented on the CMQ Form.
d. The testing frequency shall be the same as described in Table UIG-84-1 for block material.
e. This code case number shall be referenced on the Manufacturer’s Data Report.
General Notes:

(a) All dimensions are in inches.
(b) Except as noted, tolerance = ±0.010.