ANS Issues Clarification on ANSI/ANS-56.8-2002, *Containment System Leakage Testing Requirements.*
(Nuclear News, October 2009)

Inquiry:

I am an engineer with Korea Power Engineering Company, Inc. I have a question regarding the containment system leakage testing requirements of ANSI/ANS-56.8-2002. Paragraph 3.2.15, Sensor Rejection Criteria, addresses the sensor rejection criteria by stating that "the rejected sensor's volume fraction is redistributed to the remaining sensors that best represent that volume fraction." However, the standard is short of mentioning methods as to how redistribution to the remaining sensors is to be made in cases where sensors are rejected. I would greatly appreciate any assistance in helping me understand how the above issue has been handled in the U.S. industry.

Response:

The redistribution is based upon the engineering judgment of the integrated leakage rate test director. The test director typically chooses to replace the deleted sensor with at least two nearby sensors that are most representative of the one that was lost. The important issue is to keep the sum of volume fractions equal to 1.0.