**Section 721.291 Assessment of Existing Tank System's Integrity**

a) A tank system must meet the secondary containment requirements of Section 721.293, or the remanufacturer or other person that handles the hazardous secondary material must determine that the tank system is not leaking or is unfit for use. Except as provided in subsection (c), a written assessment reviewed and certified by a qualified Professional Engineer must be kept on file at the remanufacturer's facility or other facility that stores or treats the hazardous secondary material that attests to the tank system's integrity.

b) The qualified Professional Engineer's assessment must determine that the tank system is adequately designed and has sufficient structural strength and compatibility with the materials to be stored or treated, to ensure that the tank system will not collapse, rupture, or fail. At a minimum, this assessment must consider the following:

1) Design standards, if available, according to which the tank system and ancillary equipment were constructed;

2) Hazardous characteristics of the materials that have been and will be handled;

3) Existing corrosion protection measures;

4) Documented age of the tank system, if available (otherwise, an estimate of the age); and

5) Results of a leak test, internal inspection, or other tank system integrity examination such that:

A) For non-enterable underground tanks, the assessment must include a leak test that is capable of taking into account the effects of temperature variations, tank end deflection, vapor pockets, and high water table effects; and

B) For other than non-enterable underground tanks and for ancillary equipment, this assessment must include either a leak test, as described above, or other integrity examination that is certified by a qualified Professional Engineer that addresses cracks, leaks, corrosion, and erosion.

BOARD NOTE: The practices described in the American Petroleum Institute (API) Publication, Guide for Inspection of Refinery Equipment, Chapter XIII, "Atmospheric and Low-Pressure Storage Tanks", 4th edition, 1981, incorporated by reference in 35 Ill. Adm. Code 720.111, may be used, where applicable, as guidelines in conducting other than a leak test.

c) If, as a result of the assessment conducted in accordance with subsection (a), a tank system is found to be leaking or unfit for use, the remanufacturer or other person that stores or treats the hazardous secondary material must comply with the requirements of Section 721.296.

(Source: Amended at 42 Ill. Reg. 21673, effective November 19, 2018)