Ballot # 5858

16F 2nd Edition Addendum 2

New Section 15.4 will be added after section 15.3. Current 15.4 section to be updated to be 15.5. Current 15.5 section to be updated to be 15.6. Current 15.6 section to be updated to be 15.7. Current 15.7 section to be updated to be 15.8. Current 15.8 section to be updated to be 15.9.

15.4 Tension Ring or Hands Free Gooseneck – Secondary Locking

15.4.1 General

A mechanical secondary lock shall be installed to prevent the unintended release from the storage and operating position(s).

15.4.2 Design

The secondary lock system shall be designed to maintain engagement even if the primary unlock function is engaged. The lock system design shall account for other loads that may arise in rated operating conditions, such as back-driving.

Examples of secondary lock(s) may include:
- Hitch pins,
- Secondary bolts.

A discrete remote function to actuate the secondary lock is permissible provided that this remote function is not required to keep the lock engaged.

15.4.3 Prototype Testing

A prototype test shall validate the ability of the secondary lock mechanism to maintain the primary locks in the locked position even if the primary unlock function is engaged. This test load shall be 1.25 times the design load. Testing of the secondary lock in a fixture is permissible.

15.4.4 Production Testing

Production testing of the full ring assembly shall include a function test of the secondary unlock design load.