

Component Examination (Complete Battery):	E417.5	
Visual Examination	E417.5(b)	100%
Battery Case Integrity ⁽³⁾	E417.22(k)	100%
Post acceptance discharge and storage	E417.22(h)	100%

⁽¹⁾ Each test that requires a nickel-cadmium battery to undergo a charge or discharge must satisfy paragraph (a)(2) of this section. Unless otherwise specified, each test must begin with the battery fully charged.

⁽²⁾ All cells used in each qualification or flight battery must be from a production lot that has successfully passed the cell lot acceptance tests required by Table E417.22-1.

⁽³⁾ This test is required only for any sealed battery.

⁽⁴⁾ The battery must undergo an electrical performance test under ambient conditions before the first operating environment test and while the battery is subjected to each environment as required by each operating environment test.

⁽⁵⁾ The battery must undergo continuous monitoring of its voltage while subjected to the expected steady-state flight load during the random vibration environment. The monitoring must have a sample rate of once every 0.1-millisecond or better, and demonstrate that the voltage does not does experience any dropout.

⁽⁶⁾ The lot sample quantity must be no less than five samples or 10% of the production lot, whichever is greater. The sample venting devices need not undergo this test in the battery assembly.