**DEN 429**

**Gate 3**

**Technology Readiness Levels Checklist**

**TRL 1:** Basic principles observed and reported

**TRL 2:** Technology concept and /or application formulated

**TRL 3:** Analytical and experimental critical function and/or characteristic proof of concept

**TRL 4:** Component/subsystem validation in laboratory environment

**TRL 5:** System/subsystem component validation in relevant environment.

**TRL 6:** System/subsystem model or prototyping demonstration in a relevant end-to-end environment.

**TRL 7:** System prototyping demonstration in an operational environment.

**TRL 8:** Actual system completed and “mission qualified” through test and demonstration in an operational environment.

**TRL 9:** Actual system “mission proven” through successful mission operations