(1) Samshin has successfully completed the functional qualification test at the Wyle Laboratory in the USA and Samshin's own test facilities for all active type motor operated valves for 1,000MW PWR of Korean nuclear power plants.

(2) Samshin has verified the design validity and capability of design and manufacturing of nuclear valves through the functional qualification tests and successful operation of more than 20 units of nuclear power plant.

(3) Qualification is based on tests demonstrating the ability of the valve assembly to perform its safety related functions under extremely adverse conditions of vibration, temperature, pressure, mechanical loading and flow dynamics.

(4) Successful commercial operation under normal condition is not represented the valve can be accepted by qualification test per ASME QME-1, design basis accidents are applied during functional qualification tests.

(5) The Korean nuclear power plants such as UCN 3&4 and YGN 5&6 have required the qualification test per ASME B16.34 but UCN 5&6 have required the qualification test per ASME QME-1 which is the latest Standards for qualification test requirements. Especially, ASME QME-1 requires the valve torque and thrust during flow initiation and interruption test. The ASME QME-1 also requires the qualification test for check valves which is not required in the ANSI B16.41.

(6) The UCN 5&6 is the first nuclear power plants equipped with the valves qualified by ASME QME-1 in the world and Samshin Limited is the only one company who has supplied the valves qualified by ASME QME-1 for nuclear power plants.

(7) Samshin valves have already qualified and verified the structural integrity and operability under the severe seismic conditions.