

TEST SPEC FOR SAFETY CLASS(CLASS-1E)

Lifespan : 60 years

Normal Dose Radiation Exposure Test

TID : 1×10^7 Gamma Rads.

Dose Rate $\leq 1 \times 10^6$ rads/hr

Thermal Aging Test

Service Temperature : 50~ 120°F(10~49°C)

Ambient Pressure : Atmosphere

Relative Humidity : 5~90%, continuous

Test Spec.

- Aging Temperature : 120 °C

- Aging Duration : 322.63 hrs

- Activation Energy : 0.98 Ev

Cycle Aging Test

Total 19,000 cycle (Open/Close)

Vibration Aging Test

Seismic Test

Operating Basis Earthquake (OBE) : 4.0g

Safe Shutdown Earthquake(SSE) : 5.0g

RIM & PRS TEST

DBE Radiation Aging Test

$1.2 \times 10^8 + 10\%$ (margin) Gamma Rads

Pressurization Cycle Test

66psig. 15cycles (3min per cycle)

Combined LOCA and MSLB Exposure Test

Max. Pressure : 63psig

Max. Temperature : 375°F

Verification Authority : National Technical Systems in USA



All the processes strictly performed in accordance with the Quality Management System. ISO 9001:20000 certified by DNV

Test report for guaranteeing its performance



Tested. Verified and certified by National Technical System(NTS) in the U.S.A against Class 1E (Q-class)