

# Functional Area 9 - System Safety Engineering

**ASTM Contract DE-AC01-03NE23744:** ASTM, Inc.'s tasks include the nuclear systems safety evaluations such as spent nuclear fuel container design safety evaluation and estimation and transportation safety. ASTM, Inc.'s analysis and semi-quantitative results have been presented in the Advanced Fuel Cycle Initiative Program (AFCI) national laboratories meeting.

**PSI subcontract to Northrup Grumman Corp Contract PO 36538L3V0A:** PSI supports PMS 395/350 in providing independent verification and validation of all submarine safety-of-operation critical software. Our analysts attend PDRs, CDRs and SDRs providing direct support to the government and also serve as a government representative to the system IPT and safety working groups. We review the contractor's software safety assessment report and provide comment to the government on the design proposed and the adequacy of the proposed testing plans and any recommendations or changes the government should recommend to the MMS / MMP Prime Contractor or subcontractors. We prepare briefings on the status of safety critical software, observe testing of that software to ensure test objectives and guidelines are being met, and report the results of testing to the government.