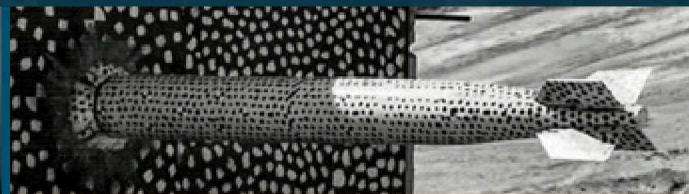


Terry Turbine Users' Group Meeting - TTEXOB



PRESENTED BY

SNL Technical Staff



SNL MELCOR Modeling Efforts Pursuant to TTEXOB

B. Beeny, L. Gilkey, M. Solom (SNL)

C. Faucett (SNL/TAMU)



- Previous work added mechanistic RCIC models to MELCOR (2015-2017)
 - Homologous pump model
 - Terry turbine pressure and velocity stage models
 - Rigid shaft model (torque-inertia equation)
 - Miscellaneous features
- Probabilistic Risk Assessment (PRA) type study on BWRs
 - Demonstrate MELCOR capabilities for modeling RCIC intervention in one or more selected severe accident scenarios
 - Demonstrate the PRA process as a means of risk-informing certain decisions (e.g. severe accident mitigation and response)
 - Support Texas A&M University as required (funding and technical staff resources) for combined milestone 5&6
- Nuclear Energy University Programs (NEUP) project on combined RCIC/ATF strategies for accident mitigation
 - SNL/TAMU/industry cooperative effort
 - SNL technical staff responsible for MELCOR modeling/development
 - SNL technical staff regularly consult with TAMU experimentalists and will advise on future TAMU MELCOR modeling