

NextEra Energy Seabrook, LLC
(Seabrook Station, Unit 1)
License Renewal Application

**NRC Staff Answer to Motion for
Summary Disposition of Contention 4B**

ATTACHMENT 4B-A

FOR IMMEDIATE RELEASE

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CONTACT: Ashley Swanson
630-887-5269

Swanson@fauske.com

AnnMarie Fauske

630-887-5213

Afauske@fauske.com

FAUSKE & ASSOCIATES, LLC

COMPLETES DEVELOPMENT OF MAAP5

Fauske & Associates, LLC (FAI) announced today that it has developed an innovative Modular Accident Analysis Program (MAAP)5 code designed to provide a wide range of integral plant evaluations in support of probabilistic risk assessment (PRA), design basis evaluations and plant evaluation for all operating needs. MAAP5's predecessor, MAAP4 had supported the nuclear industry for the past 15 years.

Code documentation for MAAP has been delivered to the Electric Power Research Institute (EPRI) and is available to MAAP5 sponsors through EPRI.

In early 1981, as a result of the accident at Three Mile Island, FAI developed the MAAP code under the sponsorship of EPRI and the MAAP Users Group (MUG). The accident led the nuclear power plant industry to develop the MAAP computer code as part of the industry degraded core rule-making (IDCOR) program. Upon the dissolution of IDCOR, ownership of the modular code transferred to EPRI and a period of enhancements began. Since that time, FAI has maintained and continued to improve MAAP.

According to Robert Henry, Ph.D., senior vice president for FAI, "MAAP5 code builds on the MAAP4 code severe accident knowledge base and has substantial modeling enhancements that extend the representation of plant-specific features that are considered in the state-of-the-art models for PRAs/PSAs, SAMGs, EOPs and full-scope control room simulators."

These are the major advances provided by the MAAP5:

- New PWR RCS Model
- Generalized Containment Model (GCM)
- New MAAP5-GRAAPH Representation for PWRs and BWRs
- MAAP5-DOSE
- 1-D Neutronics Model

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FAUSKE & ASSOCIATES LLC COMPLETES DEVELOPMENT OF MAAP5, P.2

- Models for Shutdown Configurations
- Additional Benchmarks
- Enhanced Accumulator Drainage Model
- Enhanced BWR Suppression Pool Nodalization
- Enhanced BWR Steam Line Model
- Enhanced BWR Gas Thermodynamics
- Enhanced Modeling of H₂ Combustion

Founded in 1980 by Hans K. Fauske, D.Sc., president and Henry, FAI became a wholly owned, independently operated subsidiary of Westinghouse Electric Co. in 1986. FAI is recognized in the nuclear industry for its expertise in modeling severe accident phenomena and conducting comprehensive plant evaluations. FAI's Nuclear Systems Group helps its customers enhance the availability and reliability of their operating plants while maintaining regulatory compliance, extending plant life, and reducing operation and maintenance costs.

For more information, please contact Ashley Swanson at Swanson@Fauske.com, +1630-887-5269 or AnnMarie Fauske at afauske@fauske.com, +1630-887-5213. Please visit www.Fauske.com or call 1-877-Fauske-1.

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