March 26, 2010

MEMORANDUM TO: Charles E. Ader, Director
Division of Safety Systems and Risk Assessment
Office of New Reactors

FROM: Christiana Lui, Director ***/RA/***
Division of Risk Assessment
Office of Nuclear Regulatory Research

SUBJECT: STATUS OF AP1000 STANDARDIZED PLANT ANALYSIS RISK (SPAR) MODEL

The purpose of this memorandum is to provide the current status of research activities performed under user need NRO-2008-002. User need NRO 2008-002 requested the development of design-specific internal events Standardized Plant Analysis Risk (SPAR) model for new reactors.

Based on prioritization information provided by NRO staff, the first SPAR model developed was for the AP1000 Reactor Plant model. An initial draft of the model was completed and provided to NRO staff for review and comment on August 2009. The comments received to date have been addressed, and the final AP1000 SPAR model has been posted to the SAPHIRE website (https://saphire.inl.gov/). The model can be obtained via the "Other Models" directory under the "New Reactor Designs" dropdown menu on the SAPHIRE Users Group Members area. The AP1000 model has been transitioned to a routine maintenance status and will be optimized for the newer version of SAPHIRE (SAPHIRE 8) by June 2010.

To obtain a password to the SAPHIRE website or to obtain the SAPHIRE 8 computer code, contact Dan O'Neal at 301-251-7999, or at dan.oneal@nrc.gov.

If you or your staff should need assistance using the model, please contact the INL SPAR model help desk at 208-526-1000. For updates to the model, please contact Michelle Gonzalez at 301-251-7591, or at michelle.gonzalez@nrc.gov.

RES is continuing activities under NRO-2008-02 and is currently developing the ABWR SPAR Model.

CONTACT: Michelle Gonzalez, RES/DRA/PRAB
301-251-7591

March 26, 2010

MEMORANDUM TO: Charles E. Ader, Director
Division of Safety Systems and Risk Assessment
Office of New Reactors

FROM: Christiana Lui, Director ***/RA/***
Division of Risk Assessment
Office of Nuclear Regulatory Research

SUBJECT: STATUS OF AP1000 STANDARDIZED PLANT ANALYSIS RISK (SPAR) MODEL

The purpose of this memorandum is to provide the current status of research activities performed under user need NRO-2008-002. User need NRO 2008-002 requested the development of design-specific internal events Standardized Plant Analysis Risk (SPAR) model for new reactors.

Based on prioritization information provided by NRO staff, the first SPAR model developed was for the AP1000 Reactor Plant model. An initial draft of the model was completed and provided to NRO staff for review and comment on August 2009. The comments received to date have been addressed, and the final AP1000 SPAR model has been posted to the SAPHIRE website (https://saphire.inl.gov/). The model can be obtained via the "Other Models" directory under the "New Reactor Designs" dropdown menu on the SAPHIRE Users Group Members area. The AP1000 model has been transitioned to a routine maintenance status and will be optimized for the newer version of SAPHIRE (SAPHIRE 8) by June 2010.

To obtain a password to the SAPHIRE website or to obtain the SAPHIRE 8 computer code, contact Dan O'Neal at 301-251-7999, or at dan.oneal@nrc.gov.

If you or your staff should need assistance using the model, please contact the INL SPAR model help desk at 208-526-1000. For updates to the model, please contact Michelle Gonzalez at 301-251-7591, or at michelle.gonzalez@nrc.gov.

RES is continuing activities under NRO-2008-02 and is currently developing the ABWR SPAR Model.

CONTACT: Michelle Gonzalez, RES/DRA/PRAB
301-251-7591

DISTRIBUTION:

DRA r/f	DDube, NRO	LMrowca, NRO
MPatterson, NRO	MLombard, NRO	PAppignani, RES

ADAMS Accession Number: ML100740515

OFFICE	RES/DRA/PRAB	BC:RES/DRA/PRAB	D:RES/DRA
NAME	MGonzalez	KCoyne	CLui
DATE	3/16/10	3/17/10	3/26/10

OFFICIAL AGENCY RECORD