May 3, 2010

MEMORANDUM TO: Eileen M. McKenna, Chief
AP1000 Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

FROM: Sikhindra Mitra, Project Manager
AP1000 Projects Branch 2 ***/RA/***
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: SUMMARY OF CATEGORY 1 PUBLIC MEETING WITH WESTINGHOUSE ELECTRIC COMPANY TO DISCUSS REQUEST FOR ADDITIONAL INFORMATION SRP2.2-RSAC-01, HYDROGEN EXPLOSION AND OTHER CHEMCAL HAZARD OF THE AP1000 REACTOR SITE

The U.S. Nuclear Regulatory Commission (NRC) held a Category 1 public meeting on April 15, 2010. The Office of New Reactors (NRO) met with Westinghouse Electric Company (WEC) to discuss RAI−SRP2.2-RSAC-01, hydrogen explosion and other chemical hazard of the AP1000 reactor site. The meeting was held at the NRC office in Rockville, Maryland.

The NRC made brief opening comments, introductions were made by all in attendance. The WEC made a presentation (enclosed) regarding evaluation of hydrogen explosion and other chemical hazards to the AP1000 reactor plant. The NRC staff and the WEC representatives discussed the issues according to the enclosed agenda. The discussions resulted in WEC action items (enclosed).

Enclosed with this summary are the materials relevant to this closed meeting. The enclosed documents are as follows: (1) agenda for the public meeting (2) action items, (3) attendee list, and (4) WEC presentation.

Enclosures:
As stated

CONTACT: Sikhindra Mitra, NRO/DNRL
301-415-2783
Sikhindra.Mitra@nrc.gov

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OFFICE	LA: DNRL/NWE2	PM: DNRL/NWE2	BC: DNRL/NEW2:
NAME	RButler	SMitra	EMcKenna
DATE	04/28/2010	05/03/2010	05/03/2010

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AGENDA

9:00 a.m. – 11:00 a.m.

Thursday, April 15, 2010

- The evaluation of design certification explosion hazards (RAI−SRP2.2-RSAC-01).
- Design Control Document changes and Combined Operating License Applicant (COLA) actions.
- Evaluation of chemical hazards by Westinghouse Electric Company and COLAs.
- Review of calculations and analyses for chemical and explosion hazards.

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Enclosure 1

Action Items

The following are the four Westinghouse Electric Company actions from the subject meeting on Thursday, April 15, 2010:

1) Provide a parametric/sensitivity analysis of stability class and wind speed for all chemicals.

2) Explain the venting of the hydrazine tank, and explain how the evaporation of hydrazine . effects calculations for flammability

3) Provide the results of the 500 cu.ft of hydrogen gas explosion scenario calculations.

4) Provide either any detection/alarm system to alert the operator to take action within two-minutes of a chemical release or demonstrate with HABIT run that the maximum allowed control room concentration is reached and below is immediately dangerous to life and health.

Attendee list

April 15, 2010

Attendee(s):

- Westinghouse
  - Donald Lindgren
  - Gordon Israelson
  - Nick Salkeld

- NuStart
  - Eddie Grant
- Bechtel
  - Bob Prunty
  - Dan Patton
  - Mary Richmond
  - David Wagner
- SNC
  - Amy Aughtman
- SCANA
  - James Fender
- NRC
  - Perry Buckberg
  - Eileen McKenna
  - Shei-Jeng Peng
  - Donald Habib
  - Seshagiri Rao Tamara

Enclosure 3