

## AP1000DCDFileNPEm Resource

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**From:** Loza, Paul G. [lozapg@westinghouse.com]  
**Sent:** Thursday, March 11, 2010 11:48 AM  
**To:** Mitra, Sikhindra; Jaffe, David  
**Cc:** Buckberg, Perry; Butler, Rhonda; Lindgren, Donald A.  
**Subject:** Acknowledgement of RAI-SRP2.2-RSAC-01

SK,

I acknowledge receipt for Westinghouse of RAI-SRP2.2-RSAC-01.

Thanks,

Paul

**RAI SRP2.2-RSAC-01 related To Section 2.2.3:** To ensure compliance with the siting criteria of 10 CFR 100.20 and 10 CFR 100.21, RG 1.206 provides guidance regarding the information that should be utilized in assessing potential hazards in the vicinity of the site and an approach for the evaluation of the impact of these hazards on the NPP.

In AP1000 Design Control Document Section 2.2 the applicant discussed the impact on the proposed NPP from explosion hazards without tabulating the standard chemicals considered as sources nor the distance of the source from the nearest Category 1 structure.

The COLA FSAR Table 6.4-201 tabulated three categories of chemicals, the AP 1000 standard supplemental chemicals, the standard COL chemicals and the site specific chemicals. Some of the chemicals listed are both explosive as well as toxic, which may require additional evaluation for control room habitability.

In COLA FSAR Section 6.4, Table 6.4-201, the COLA applicant has established minimum distances from the source to the MCR intake based on the toxicity of the source chemical. For example for hydrogen gas, and hydrazine the computed safe distance is 375ft and 245ft respectively.

However, the potential explosion hazard from explosive chemicals listed has neither been evaluated nor their minimum safe distances from the nearest SSC (i.e., control room) provided. Provide the calculated minimum safe distance such that for each chemical that is explosive an overpressure less than 1 psi peak (RG 1.91).is maintained.

### **Paul G. Loza**

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