

September 19, 2006

Mr. Gary Van Middlesworth  
Vice President  
Duane Arnold Energy Center  
3277 DAEC Road  
Palo, Iowa 52324-9785

SUBJECT: DUANE ARNOLD ENERGY CENTER - RE: STATE-OF-THE-ART REACTOR  
CONSEQUENCE ANALYSES

Dear Mr. Van Middlesworth:

The purpose of this letter is to provide you with information on a new study underway at the Nuclear Regulatory Commission (NRC), the State-of-the-Art Reactor Consequence Analyses (SOAR CA) study. The objective of the study is to perform a realistic evaluation of offsite consequences, using an improved understanding of source terms and severe accident phenomenology, and crediting the use of Severe Accident Management Guidelines and other procedures that were not in place when the 1982 siting study (NUREG/CR-2239, Technical Guidance for Siting Criteria Development) was performed.

Over the next 3 years, the NRC plans to: (1) evaluate and update, as appropriate, analytical methods and models for realistic evaluation of severe accident progression and offsite consequences and (2) develop SOAR CAs for each nuclear power plant. The goal is to accurately represent offsite consequences at each plant based on current, rather than past, plant operations. To that end, the NRC seeks your assistance in acquiring plant-specific design and operation information, including enhancements, so that your plant is accurately represented. Information supplied to support the project does not need to be docketed, and the NRC staff will provide you the opportunity to review draft study reports to ensure accuracy.

The request for information will be voluntary, but your cooperation is essential to ensure accurate representation of your plant. If you have any questions, please contact Karl Feintuch at (301) 415-3079.

Sincerely,

**/RA/**

Richard B. Ennis, Senior Project Manager  
Plant Licensing Branch III-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-331

cc: See next page

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