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Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555

TO: T. R. QUAY

SUBJECT: AP600 EMERGENCY RESPONSE GUIDELINES STATEMENT OF INTENT

REFERENCE: DCP/NRC0702 (NSD-NRC-97-4936)

Dear Mr. Quay:

The referenced letter transmitted Revision 2 of the AP600 Emergency Response Guidelines (ERGs). Attached is a one-page statement of intent which is to be filed in your copy of the ERGs, between the cover page and table of contents. This statement of intent is unchanged from the one previously filed in some of the ERG copies. Please contact Robin K. Nydes (412) 374-4125 if you have any question regarding the ERGs or this letter.

Brian A. McIntyre, Manager
Advanced Plant Safety and Licensing

/jml

attachment

cc: T. Kenyon - NRC (w/enclosure)
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EMERGENCY RESPONSE GUIDELINES

Statement of Intent

The AP600 Emergency Response Guidelines (ERGs) provide functional guidelines for terminating accidents and transients that affect plant safety. Emergency Operating Procedures (EOPs) will be developed using the functional guidelines from the ERGs in a presentation philosophy that directs the operating staff to provide timely implementation. The EOPs and their presentation may not resemble the ERGs, but will accomplish the functional guidance provided. The use of historical terminology in the ERGs (Ex.: "status trees") does not imply any specific form of detailed implementation, therefore no constraints are placed on the MMIS design because of their use. The ERGs do not specify the complete degree of automated plant response nor the degree of user control over the pace of working through the accident response. The task allocation between the man and the computer to do this will be decided when designing the features of the Man-Machine Interface System (MMIS). The format and features of the EOPs and their presentation will be determined by the Human Factors Engineering (HFE)/MMIS design process. This process includes the development of EOPs, development of functional requirements and design basis for the computerized procedure system, man-in-the-loop prototype/concept testing, workload analysis, detailed design of hardware and software and the final HFE verification and validation.

The ERGs are formatted such that the plant functional guidelines within each ERG are represented by numbered, bold-faced steps. Under each guideline step, a number of distinct actions, responses, and/or indications are specified. These specific actions, responses, and reference to indications are provided to reflect the potential actions and responses needed to meet the functional guideline for the AP600 design. During the development of the AP600 MMIS design and Emergency Operating Procedures (EOPs) it may be shown that not every distinct action, response, or indication identified in the ERGs is required to meet the higher level functional guideline. Additionally, the extent of main control room automation versus manual operator action will also be a consideration in the achievement of the high level functional guideline.