



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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MAY 20 1977

MEMORANDUM FOR: G. Arlotto, Director, Division of Engineering Standards, OSD
FROM: R. L. Tedesco, Assistant Director for Plant Systems, DSS
SUBJECT: REQUEST FOR DEVELOPMENT OF REGULATORY GUIDE FOR CLASS 2E SYSTEMS

Our comments and negative ballot on IEEE proposed standard P-466 identified the need for specific criteria for the design of instrumentation systems which have an important role in determining that nuclear plants are operated safely and reliably (but which are not part of the plant protection systems and which are not required to meet the criteria for safety systems).¹ Due to the lack of criteria for these "Class 2E" systems, considerable review effort is required on each licensing application reviewing their design bases and design criteria. This is in addition to time spent reviewing the designs for acceptability. Industry efforts with respect to developing a standard for "Class 2E" systems are lagging. Therefore, we are requesting that a regulatory guide identifying design bases and acceptable design criteria for these systems be developed. By providing a regulatory guide for reference by applicants, our review efforts in evaluating these systems would be more directly focused to establishing acceptability of their design, and the review time could be reduced. A baseline document would also simplify the task of preparing regulatory guides for specific applications or systems which may fit into this category (e.g., surveillance instrumentation, loose parts monitoring, remote bypass indication and seismic instrumentation systems).

Initial discussions have been held between personnel from OSD and NRR regarding the preparation of this regulatory guide. The Instrumentation and Control Systems Branch (ICSB) will provide assistance as required to develop design bases and acceptance criteria and to identify specific applications for "Class 2E" systems. Mr. Ron Naventi of ICSB will be our technical liaison with regard to this regulatory guide development.

R. L. Tedesco

R. L. Tedesco, Assistant Director
for Plant Systems
Division of Systems Safety, NRR

¹Memorandum for G. Arlotto from R. L. Tedesco, "Comments and Ballot - P-466, dated February 16, 1977.