



United States Nuclear Regulatory Commission

Protecting People and the Environment

**EPR Process Information and Control System
and
10 CFR Part 50, Appendix A,
General Design Criteria 1**

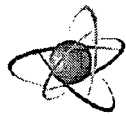
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INTRODUCTION

- EPR Process Information and Control System (PICS)
- 10 CFR Part 50, Appendix A, GDC 1
- NRC Staff Position
- Questions

PICS

- PICS is credited as being diverse from SICS
- PICS is the Human-Machine Interface that will normally be used by operators for all operating situations
- PICS is classified as non-safety related
- PICS provides the following functions:
 - Alarms (GDC 13)
 - Diverse Controls and Indications (SECY 93-087 pt. 4)
 - TMI Action Item Instrumentation
 - Non-safety Post Accident Instrumentation (GDC 13)
 - Remote Shutdown Station I&C (GDC 19)



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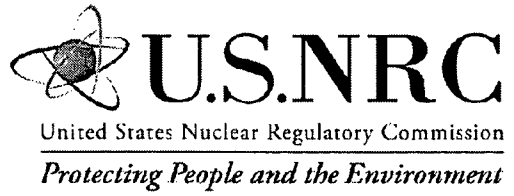
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General Design Criteria 1

- 10 CFR Part 50, Appendix A, GDC 1 - structures, systems and components important to safety shall be designed, fabricated, erected, and tested to quality standards commensurate with the importance of the safety functions to be performed
- PICS
 - Identified to have supplemented grade (NS- AQ) quality in Chapter 3 of the US EPR FSAR
 - Items with supplemented grade quality are those deemed “important to safety” by NRC staff

NRC Staff Position

- Loss of PICS significantly impacts operator ability to address:
 - emergency operations
 - plant recovery
 - other emergency responses
- Due to the functions performed by PICS and the operators reliance on the system, the staff considers PICS to be important **to safety** (it is also noted that European EPR PICS is important to safety commensurate with IEC classification)



Questions

