

PROPOSED CHANGE [RTS-287] TO THE DUANE ARNOLD ENERGY CENTER  
TECHNICAL SPECIFICATIONS

The holders of license DPR-49 for the Duane Arnold Energy Center propose to amend Appendix A (Technical Specifications) to said license by deleting certain current pages and replacing them with the attached, new pages. The List of Affected Pages is given below.

LIST OF AFFECTED PAGES

vii  
1.1-11  
1.1-12  
3.3-6  
3.3-7  
3.3-7a  
3.3-7b  
3.3-13  
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3.3-16  
6.11-4

SUMMARY OF CHANGES:

The following list of proposed changes is in the order that the changes appear in the Technical Specifications (TS).

<u>Page</u>	<u>Description of Changes</u>
vii	Deletes the reference to Figure 3.3-1, "Thermal Power vs. Core Flow Limits for Thermal Hydraulic Stability Surveillance."
1.1-11,12	Revises the Bases of the Average Power Range Monitor (APRM) high flux scram to describe the protection the flow-biased APRM setpoints provide against exceeding fuel safety limits during all abnormal operational transients including those that may result in thermal hydraulic instability.

- 3.3-6 Clarifies specification 3.3.F.1 to state that operation in natural circulation (as defined in a footnote at the bottom of the page) is not permitted. The specification will further state that should operation in natural circulation occur, that the reactor shall be scrammed.
- 3.3-6 Clarifies 3.3.F.2 to state that no recirculation pumps shall be placed in operation while the reactor is in natural circulation (as defined by footnote).
- 3.3-6,7 Replaces 3.3.F.3 with the requirement that operation in the Exclusion Region of the power/flow map described in the Core Operating Limits Report is not permitted. In addition, the specification will state that should entry into this region occur, control rods are to be immediately inserted or core flow is to be immediately increased to exit the region. The surveillance requirements of 4.3.F.3 are also deleted.
- 3.3-7a Deletes thermal hydraulic instability related requirements for single loop recirculation operation as well as the requirements related to core plate differential pressure noise.
- 3.3-7b Deletes additional requirements related to core plate differential pressure noise.
- 3.3-13,14 Revises the Technical Specification Bases 3.3.F related to recirculation pumps and thermal hydraulic instability concerns.
- 3.3-15 Add reference to General Electric topical report GENE-A0000-04021-01, Application of the "Regional Exclusion with Flow-Biased APRM Neutron Flux Scram" Stability Solution (Option I-D) to the Duane Arnold Energy Center
- 6.11-4 Add specification 6.11.2.a.5) to include the Exclusion Region in the power/flow map (Specification 3.3.F.3) in the Core Operating Limits Report.