

**Levy Nuclear Plant Units 1 and 2  
COL Application  
Part 2, Final Safety Analysis Report**

CHAPTER 15  
ACCIDENT ANALYSES

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None

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LIST OF FIGURES

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None

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**CHAPTER 15**

**ACCIDENT ANALYSES**

15.0 ACCIDENT ANALYSES

This **section** of the referenced DCD is incorporated by reference with the following departures and/or supplements.

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15.0.3.2 Initial Conditions

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Add the following paragraph at the end of DCD **Subsection 15.0.3.2**.

STD COL 15.0-1

The plant operating instrumentation selected for feedwater flow measurement is a Caldon [Cameron] LEFM CheckPlus System (**Reference 201**), which will be calibrated (in a certified laboratory using a piping configuration representative of the plant piping design) prior to installation and will be tested after installation in the plant in accordance with the LEFM CheckPlus commissioning procedure. This selected plant operating instrumentation has documented instrumentation uncertainties to calculate a power calorimetric uncertainty that confirms the 1% uncertainty assumed for the initial reactor power in the safety analysis bounds the calculated calorimetric power uncertainty values. The calculated calorimetric is done in accordance with a previously accepted Westinghouse methodology (**Reference 202**). Administrative controls implement maintenance and contingency activities related to the power calorimetric instrumentation.

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15.0.15 COMBINED LICENSE INFORMATION

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Add the following text to the end of DCD **Subsection 15.0.15.1**.

STD COL 15.0-1

This COL item is addressed in FSAR **Subsection 15.0.3.2**.

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15.0.16 REFERENCES

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Add the following text to the end of DCD **Subsection 15.0.16**.

201. Final Safety Evaluation for Cameron Measurement Systems Engineering Report ER-157P, Revision 8, "Caldon Ultrasonics Engineering Report ER-157P, 'Supplement to Topical Report ER-80P: Basis for a Power Uprate with the LEFM Check or Checkplus™ System'," (TAC No. ME1321). August 16, 2010. ADAMS Accession No. ML102160694.

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202. Final Safety Evaluation for Beaver Valley Power Station, Unit Nos. 1 and 2 (BVPS-1 and 2) - Issuance of Amendment re: 1.4-Percent Power Uprate and Revised BVPS-2 Heatup and Cooldown Curves. September 24, 2001, ADAMS Accession No. ML012490569.

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15.1 INCREASE IN HEAT REMOVAL FROM THE PRIMARY SYSTEM

This **section** of the referenced DCD is incorporated by reference with no departures or supplements.

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15.2 DECREASE IN HEAT REMOVAL BY THE SECONDARY SYSTEM

This **section** of the referenced DCD is incorporated by reference with no departures or supplements.

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15.3 DECREASE IN REACTOR COOLANT SYSTEM FLOW RATE

This **section** of the referenced DCD is incorporated by reference with no departures or supplements.



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15.4 REACTIVITY AND POWER DISTRIBUTION ANOMALIES

This **section** of the referenced DCD is incorporated by reference with no departures or supplements.

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15.5 INCREASE IN REACTOR COOLANT INVENTORY

This **section** of the referenced DCD is incorporated by reference with no departures or supplements.

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15.6 DECREASE IN REACTOR COOLANT INVENTORY

This **section** of the referenced DCD is incorporated by reference with the following departures and/or supplements.

15.6.5.3.7.3 Atmospheric Dispersion Factors

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Add the following paragraph at the end of DCD **Subsection 15.6.5.3.7.3**.

LNP COL 2.3-4

Site-specific  $\chi/Q$  (atmospheric dilution factor) values provided in **Subsection 2.3.4** are bounded by the values given in DCD **Table 15A-5** and **Table 15A-6**.

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15.7 RADIOACTIVE RELEASE FROM A SUBSYSTEM OR COMPONENT

This **section** of the referenced DCD is incorporated by reference with the following departures and/or supplements.

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15.7.6 COMBINED LICENSE INFORMATION

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LNP COL 15.7-1

This COL Item is addressed in **Section 2.4.13**.

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15.8 ANTICIPATED TRANSIENTS WITHOUT SCRAM

This **section** of the referenced DCD is incorporated by reference with no departures or supplements.

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APPENDIX 15A      EVALUATION MODELS AND PARAMETERS FOR  
ANALYSIS OF RADIOLOGICAL CONSEQUENCES OF  
ACCIDENTS

This **section** of the referenced DCD is incorporated by reference with the following departures and/or supplements.

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15A.3.3    ATMOSPHERIC DISPERSION FACTORS

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Replace the third paragraph in DCD **Subsection 15A.3.3** with the following:

LNP COL 2.3-4

Site-specific  $\chi/Q$  values provided in **Subsection 2.3.4** are bounded by the values given in DCD **Table 15A-5** and **Table 15A-6**.

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APPENDIX 15B      REMOVAL OF AIRBORNE ACTIVITY FROM THE  
CONTAINMENT ATMOSPHERE FOLLOWING A LOCA

This **section** of the referenced DCD is incorporated by reference with no departures or supplements.