CHAPTER 15
ACCIDENT ANALYSES

TABLE OF CONTENTS

Section	Title	Page
15.0	ACCIDENT ANALYSES	15.0-1
15.0.3.2	Initial Conditions	15.0-1
15.0.15	COMBINED LICENSE INFORMATION	15.0-1
15.0.16	REFERENCES	15.0-1
15.1	INCREASE IN HEAT REMOVAL FROM THE PRIMARY SYSTEM	15.1-1
15.2	DECREASE IN HEAT REMOVAL BY THE SECONDARY SYSTEM	15.2-1
15.3	DECREASE IN REACTOR COOLANT SYSTEM FLOW RATE	15.3-1
15.4	REACTIVITY AND POWER DISTRIBUTION ANOMALIES	15.4-1
15.5	INCREASE IN REACTOR COOLANT INVENTORY	15.5-1
15.6	DECREASE IN REACTOR COOLANT INVENTORY	15.6-1
15.6.5.3.7.3	Atmospheric Dispersion Factors	15.6-1
15.7	RADIOACTIVE RELEASE FROM A SUBSYSTEM OR COMPONENT	15.7-1
15.7.6	COMBINED LICENSE INFORMATION	15.7-1
15.8	ANTICIPATED TRANSIENTS WITHOUT SCRAM	15.8-1
APP. 15A	EVALUATION MODELS AND PARAMETERS FOR ANALYSIS OF RADIOLOGICAL CONSEQUENCES OF ACCIDENTS	15A-1
15A.3.3	Atmospheric Dispersion Factors	15A-1
APP. 15B	REMOVAL OF AIRBORNE ACTIVITY FROM THE CONTAINMENT ATMOSPHERE FOLLOWING A LOCA	15B-1

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.

15.0.3.2 Initial Conditions

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.

15.0.15 COMBINED LICENSE INFORMATION

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.

15.0.16 REFERENCES

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.

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.

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.

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.

15.3 DECREASE IN REACTOR COOLANT SYSTEM FLOW RATE

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

15.4 REACTIVITY AND POWER DISTRIBUTION ANOMALIES

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

15.5 INCREASE IN REACTOR COOLANT INVENTORY

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

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

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

VCS COL 2.3-4 Site-specific χ/Q values provided in Subsection 2.3.4 are bounded by the values given in DCD Tables 15A-5 and 15A-6.

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.

15.7.6 COMBINED LICENSE INFORMATION

VCS COL 15.7-1 This COL item is addressed in Subsection 2.4.13.

15.8 ANTICIPATED TRANSIENTS WITHOUT SCRAM

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

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.

15A.3.3 Atmospheric Dispersion Factors

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

VCS COL 2.3-4 Site-specific χ/Q values provided in Subsection 2.3.4 are bounded by the values given in DCD Tables 15A-5 and 15A-6.

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.