## CHAPTER 15 ACCIDENT ANALYSES

### TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	
15.0	ACCIDENT ANALYSES	15.0-1	
15.0.3.2 15.0.15 15.0.16	Initial ConditionsCOMBINED LICENSE INFORMATIONREFERENCES	.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			
15.7	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	

LIST OF TABLES

<u>Number</u> <u>Title</u>

None

## LIST OF FIGURES

<u>Number</u>	<u>Title</u>
None	

## 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

#### 15.2 DECREASE IN HEAT REMOVAL BY THE SECONDARY SYSTEM

### 15.3 DECREASE IN REACTOR COOLANT SYSTEM FLOW RATE

#### 15.4 REACTIVITY AND POWER DISTRIBUTION ANOMALIES

### 15.5 INCREASE IN REACTOR COOLANT INVENTORY

#### 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.

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.

#### 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

LNP COL 15.7-1 This COL Item is addressed in Section 2.4.13.

#### 15.8 ANTICIPATED TRANSIENTS WITHOUT SCRAM

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:

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.

APPENDIX 15B REMOVAL OF AIRBORNE ACTIVITY FROM THE

CONTAINMENT ATMOSPHERE FOLLOWING A LOCA