

Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR

CHAPTER 15
ACCIDENT ANALYSES

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
15.0	ACCIDENT ANALYSES	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

**Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR**

CHAPTER 15

ACCIDENT ANALYSIS

15.0 ACCIDENT ANALYSES

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

**Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR**

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.

**Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR**

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.

Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR

15.3 DECREASE IN REACTOR COOLANT SYSTEM FLOW RATE

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

**Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR**

15.4 REACTIVITY AND POWER DISTRIBUTION ANOMALIES

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

**Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR**

15.5 INCREASE IN REACTOR COOLANT INVENTORY

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

Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR

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.

BLN 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**.

**Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR**

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

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

**Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR**

15.8 ANTICIPATED TRANSIENTS WITHOUT SCRAM

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

Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR

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:

BLN 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**.

**Bellefonte Nuclear Plant, Units 3 & 4
COL Application
Part 2, FSAR**

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.