

Chapter 19 Table of Contents

<u>Section</u>	<u>Title</u>	<u>Page</u>
Chapter 19	Probabilistic Risk Assessment and Severe Accidents	19-1
19.1	Introduction	19-1
19.2	PRA Results and Insights	19-1
19.2.6	COL Information	19-1
19.3	Severe Accident Evaluations	19-1
19.4	PRA Maintenance	19-1
19.5	Conclusions	19-2
Appendix 19A	Regulatory Treatment of Non-Safety Systems (RTNSS)	19-2
Appendix 19ACM	Availability Controls Manual	19-2
Appendix 19B	Deterministic Analysis for Containment Pressure Capability	19-2
Appendix 19C	Probabilistic Analysis for Containment Pressure Fragility	19-3

Chapter 19 Probabilistic Risk Assessment and Severe Accidents

19.1 Introduction

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

19.2 PRA Results and Insights

This [section](#) of the referenced DCD is incorporated by reference with the following departures and/or supplements.

19.2.3.2.4 Evaluation of External Event Seismic

Significant Core Damage Sequences of External Event Seismic

Replace the second and third sentences of the first paragraph with the following.

STD COL 19.2.6-1-H

As-built SSC High Confidence Low Probability of Failure (HCLPF)s will be compared to those assumed in the ESBWR seismic margin analysis shown in [DCD Table 19.2-4](#). Deviations from the HCLPF values or other assumptions in the seismic margins evaluation will be analyzed to determine if any new vulnerabilities have been introduced. This comparison and analysis will be completed prior to fuel load.

19.2.6 COL Information

19.2.6-1-H Seismic High Confidence Low Probability of Failure Margins

STD COL 19.2.6-1-H

This COL Item is addressed in [Section 19.2.3.2.4](#).

19.3 Severe Accident Evaluations

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

19.4 PRA Maintenance

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

19.5 Conclusions

This [section](#) of the referenced DCD is incorporated by reference with the following departures and/or supplements.

After the last paragraph of the section add the following:

VCS SUP 19.5-1

In accordance with 10 CFR 52.79(a)(46), a description of the plant-specific PRA and its results is required. As part of the incorporation of the DCD PRA, site and plant specific information was reviewed to determine if any changes from the DCD PRA were warranted. This review included consideration of site-specific information such as site meteorological data and site-specific population distributions, as well as plant-specific design information that replaced conceptual design information described in the DCD. [Section 1.8.5](#) was also reviewed to determine if there were any departures affecting the PRA results.

The review of site-specific information and plant-specific design information determined that: 1) the DCD PRA bounds site-specific and plant-specific design parameters and design features and 2) these parameters and features have no significant impact on the DCD PRA results and insights. Therefore, based on this review, it is concluded that there is no significant change from the DCD PRA. In that there are no significant changes from the DCD PRA, incorporation of [DCD Chapter 19](#) into the FSAR satisfies the requirement of 10 CFR 52.79(a)(46) for a description of the plant-specific PRA and its results.

Appendix 19A Regulatory Treatment of Non-Safety Systems (RTNSS)

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

Appendix 19ACM Availability Controls Manual

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

Appendix 19B Deterministic Analysis for Containment Pressure Capability

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

Appendix 19C Probabilistic Analysis for Containment Pressure Fragility

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.