



Entergy Operations, Inc.
17285 River Road
Killona, LA 70057-3093
Tel 504 464-3786

Paul Wood
Manager, Regulatory Assurance
Waterford 3

10 CFR 50.46

W3F1-2019-0043

July 1, 2019

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Subject: Annual Report on Westinghouse Electric Company LLC Combustion
Engineering Emergency Core Cooling System Performance Evaluation
Models for Calendar Year 2018
Waterford Steam Electric Station Unit 3
Docket No. 50-382
Renewed Facility Operating License No. NPF-38

This letter provides the Waterford Steam Electric Station Unit 3 (Waterford 3)
10 CFR 50.46(a)(3)(ii) reporting information pertaining to the Westinghouse Electric
Company Emergency Core Cooling System (ECCS) performance Evaluation Models
(EMs) for calendar year 2018.

There were no changes, error corrections, or enhancements to the 1999 Evaluation
Model (EM) which is used in the Large Break Loss-of-Coolant Accident (LBLOCA)
Emergency Core Cooling Systems (ECCS) performance analysis. In addition, there were no
changes, error corrections, or enhancements to the Supplement 2 Evaluation Model (S2M)
which is the EM used in the Small Break Loss-of-Coolant Accident (SBLOCA) ECCS
performance analysis.

This letter contains no new commitments.

Please contact Paul Wood, Regulatory Assurance Manager, at 504-464-3786 should you
have any questions regarding this submittal.

Respectfully,

A handwritten signature in black ink that reads "Paul Wood".

PW/llb

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Attachment: Waterford Steam Electric Station Unit 3 10 CFR 50.46 Annual Notification and Reporting for 2018

cc:

NRC Region IV Regional Administrator
NRC Senior Resident Inspector – Waterford 3
NRC Project Manager – Waterford 3

Attachment to

W3F1-2019-0043

Waterford Steam Electric Station Unit 3

10 CFR 50.46 Annual Notification and Reporting for 2018

**Waterford Steam Electric Station Unit 3
10 CFR 50.46 Annual Notification and Reporting for 2018**

There were no changes, error corrections, or enhancements to the 1999 Evaluation Model (EM), which is the EM used in Waterford 3 Large Break Loss-of-Coolant Accident (LBLOCA) Emergency Core Cooling System (ECCS) performance analysis in calendar year 2018. In addition, there were no changes, error corrections or enhancements to the Supplement 2 Evaluation Model (S2M), which is the EM used in Waterford 3 Small Break Loss-of-Coolant Accident (SBLOCA) ECCS performance analysis in calendar year 2018.

The limiting PCT results for the large and small break LOCAs continue to meet the criteria of 10 CFR 50.46, paragraph (b) for calendar year 2018.

A summary of the information related to peak clad temperatures (PCT) and adjustment to peak clad temperatures is provided in the following table:

Summary of Information for Waterford 3 10 CFR 50.46 Annual Report for 2018

	Analysis of Record (AOR) Peak Cladding Temperature (PCT), °F Evaluation Model (EM) Used AOR Date	Adjustment as of End-of-Year (EOY) 2018, (°F)	Net PCT at the EOY 2018, (°F)
Small-Break Loss-of-Coolant Accident (SBLOCA)	1925 S2M 6/19/2009	-27	1898
Large-Break Loss-of-Coolant Accident (LBLOCA)	2092 1999EM 7/16/2009	-3	2089