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10 CFR 50, Appendix E
10 CFR 50.4

RS-22-105
NMP1L3481

September 15, 2022

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Braidwood Station, Units 1 and 2
Facility Operating License Nos. NPF-72 and NPF-77
NRC Docket Nos. STN 50-456, 50-457, and 72-73

Byron Station, Units 1 and 2
Facility Operating License Nos. NPF-37 and NPF-66
NRC Docket Nos. 50-454, 50-455, and 72-68

Calvert Cliffs Nuclear Power Plant, Units 1 and 2
Renewed Facility Operating License Nos. DPR-53 and DPR-69
NRC Docket Nos. 50-317 and 50-318

Calvert Cliffs Independent Spent Fuel Storage Installation
Materials License No. SNM-2505
NRC Docket No. 72-8

Clinton Power Station, Unit 1
Facility Operating License No. NPF-62
NRC Docket No. 50-461

Dresden Nuclear Station, Units 1, 2 and 3
Facility Operating License No. DPR-2
Renewed Facility Operating License Nos. DPR-19 and DPR-25
NRC Docket Nos. 50-237, 50-249, and 72-37

James A. FitzPatrick Nuclear Power Plant
Renewed Facility Operating License No. DPR-59
Docket No. 50-333

James A. FitzPatrick Nuclear Power Plant Independent Spent Fuel
Storage Installation
General License SFGL-12
Docket No. 72-012

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LaSalle County Station, Units 1 and 2
Renewed Facility Operating License Nos. NPF-11 and NPF-18
NRC Docket Nos. 50-373, 50-374, and 72-70

Limerick Generating Station, Units 1 and 2
Renewed Facility Operating License Nos. NPF-39 and NPF-85
NRC Docket Nos. 50-352, 50-353, and 72-65

Nine Mile Point Nuclear Station, Units 1 and 2
Renewed Facility Operating License Nos. DPR-63 and NPF-69
NRC Docket Nos. 50-220, 50-410, and 72-1036

Peach Bottom Atomic Power Station, Units 1, 2, and 3
Facility Operating [Possession Only] License No. DPR-12
Subsequent Renewed Facility Operating License Nos. DPR-44 and DPR-56
NRC Docket Nos. 50-171, 50-277, 50-278 and 72-79

Quad Cities Nuclear Power Station, Units 1 and 2
Renewed Facility Operating License Nos. DPR-29 and DPR-30
NRC Docket Nos. 50-254, 50-265, and 72-53

R. E. Ginna Nuclear Power Plant
Renewed Facility Operating License No. DPR-18
NRC Docket Nos. 50-244 and 72-67

Subject: 10 CFR 50, Appendix E – Development of Evacuation Time Estimates

In accordance with the requirements of 10 CFR 50 Appendix E, Section IV, "*Content of Emergency Plans*," Constellation Energy Generation, LLC (CEG) is submitting Evacuation Time Estimates (ETE) analysis information and supporting checklists for the plants noted above. 10 CFR 50 Appendix E, Section IV, paragraph 4, specifies the following:

Within 365 days of the later of the date of the availability of the most recent decennial census data from the U.S. Census Bureau or December 23, 2011, nuclear power reactor licensees shall develop an ETE analysis using this decennial data and submit it under § 50.4 to the NRC. These licensees shall submit this ETE analysis to the NRC at least 180 days before using it to form protective action recommendations and providing it to State and local governmental authorities for use in developing offsite protective action strategies.

Due to the COVID-19 pandemic public health emergency of 2020-2021, the data from the 2020 Census was not immediately available. The NRC issued Emergency Preparedness Frequently Asked Question (EPFAQ) 2021-002, "*Clarification of NUREG-7002, 'Criteria for Development of Evacuation Time Estimate Studies'*," regarding the availability date for the census data. For the 2020 Census, the NRC considers the "date of the availability of the

most recent decennial census data" to be September 16, 2021, because that was the date that census data from the U.S. Census Bureau was first made publicly available.

The attached ETE analysis information for the CEG plants cited used 2020 decennial census data from the U.S. Census Bureau and was prepared by KLD Engineering in accordance with the Federal guidance established in NUREG/CR-7002, Revision 1, "*Criteria for Development of Evacuation Time Estimate Studies*," published February 2021.

As noted in 10 CFR 50, Appendix E, Section IV, licensees shall use NRC-approved ETEs in the formulation of protective action recommendations and provide the ETEs and ETE updates to State and local governmental authorities for use in developing offsite protective action strategies. The requirements further stipulate that licensees shall submit the ETE analysis to the NRC at least 180 days before using it to form protective action recommendations and providing it to State and local governmental authorities for use in developing offsite protective action strategies.

There are no commitments contained in this submittal.

If you have any questions concerning this letter, please contact Marino Kaminski at (610) 765-5869.

Respectfully,



David P. Helker
Sr. Manager, Licensing
Constellation Energy Generation, LLC

Attachments (DVD):

- Attachment 1 - Braidwood Station - Development of Evacuation Time Estimates
- Attachment 2 - Byron Station - Development of Evacuation Time Estimates
- Attachment 3 - Calvert Cliffs Nuclear Power Plant - Development of Evacuation Time Estimates
- Attachment 4 - Clinton Power Station - Development of Evacuation Time Estimates
- Attachment 5 - Dresden Nuclear Station - Development of Evacuation Time Estimates
- Attachment 6 - James A. FitzPatrick Nuclear Power Plant and Nine Mile Point Nuclear Station - Development of Evacuation Time Estimates
- Attachment 7 - LaSalle County Station - Development of Evacuation Time Estimates
- Attachment 8 - Limerick Generating Station - Development of Evacuation Time Estimates
- Attachment 9 - Peach Bottom Atomic Power Station - Development of Evacuation Time Estimates
- Attachment 10 - Quad Cities Nuclear Power Station - Development of Evacuation Time Estimates
- Attachment 11 - R. E. Ginna Nuclear Power Plant - Development of Evacuation Time Estimates

cc: w/o Attachments (DVD)

Regional Administrator - NRC Region III
Regional Administrator - NRC Region I
NRC Fleet Project Manager, NRR
NRC Senior Resident Inspector - Braidwood
NRC Project Manager, NRR - Braidwood
NRC Senior Resident Inspector - Byron
NRC Project Manager, NRR - Byron
NRC Senior Resident Inspector - Calvert Cliffs
NRC Project Manager, NRR - Calvert Cliffs
NRC Senior Resident Inspector - Clinton
NRC Project Manager, NRR - Clinton
NRC Senior Resident Inspector - Dresden
NRC Project Manager, NRR - Dresden
NRC Senior Resident Inspector - FitzPatrick
NRC Project Manager, NRR - FitzPatrick
NRC Senior Resident Inspector - Ginna
NRC Project Manager, NRR - Ginna
NRC Senior Resident Inspector - LaSalle
NRC Project Manager, NRR - LaSalle
NRC Senior Resident Inspector - Limerick
NRC Project Manager, NRR - Limerick
NRC Senior Resident Inspector - Nine Mile Point
NRC Project Manager, NRR - Nine Mile Point
NRC Senior Resident Inspector - Peach Bottom
NRC Project Manager, NRR - Peach Bottom
NRC Senior Resident Inspector - Quad Cities
NRC Project Manager, NRR - Quad Cities
Illinois Emergency Management Agency Division of Nuclear Safety
W. DeHaas, PA DEP, Bureau of Radiation Protection
S. Seaman, State of Maryland
A. L. Peterson, NYSERDA
B. Frymire, NYSPSC

DVD-ROM Contents

10 CFR 50, Appendix E - Development of Evacuation Time Estimates

Attachment 1 - Braidwood Station

Attachment 2 - Byron Station

Attachment 3 - Calvert Cliffs Nuclear Power Plant

Attachment 4 - Clinton Power Station

Attachment 5 - Dresden Nuclear Station

Attachment 6 - James A. FitzPatrick Nuclear Power Plant &
Nine Mile Point Nuclear Station

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Attachment 11 - R. E. Ginna Nuclear Power Plant