



Entergy Operations, Inc.
1340 Echelon Parkway
Jackson, MS 39213
Tel 601-368-5573

Mandy K. Halter
Director, Nuclear Licensing

10 CFR 50.75(f)(1)

CNRO-2019-00007

March 28, 2019

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

SUBJECT: Decommissioning Funding Status Report – Entergy Operations, Inc

Arkansas Nuclear One, Units 1 & 2
NRC Docket Nos. 50-313 & 50-368

River Bend Station
NRC Docket No. 50-458

Grand Gulf Nuclear Station
NRC Docket No. 50-416

Waterford 3 Steam Electric Station
NRC Docket No. 50-382

- References:
- 1) NUREG-1307, "Report on Waste Burial Charges," Revision 17, dated February 2019.
 - 2) NRC Regulatory Issue Summary 2001-07, "10 CFR 50.75(f)(1) Reports on the Status of Decommissioning Funds (Due March 31, 2001)."

Dear Sir or Madam:

10 CFR 50.75(f)(1) requires each power reactor licensee to report to the NRC by March 31, 1999, and every two years thereafter, on the status of its decommissioning funding for each reactor, or share of a reactor, that it owns. On behalf of Entergy Arkansas, LLC for Arkansas Nuclear One (ANO), System Entergy Resources, Inc. (SERI) and Cooperative Energy (formerly South Mississippi Electric Power Association (SMEPA)) for Grand Gulf Nuclear Station (GGNS), Entergy Louisiana, LLC for for River Bend Station (RBS) and Waterford 3 Steam Electric Station (WF3), Entergy Operations, Inc. hereby submits the information requested for power reactors operated by Entergy Operations, Inc.

The estimated minimum decommissioning fund values were determined using the NRC's methodology in NUREG-1307, Rev 17.

The 70 percent regulated interest of RBS contains funds accumulated for separate rate regulatory jurisdictions. There are not separate trust funds for the individual jurisdictions responsible for decommissioning of the 70 percent regulated share of RBS. Balances in the nuclear decommissioning trust for the 70 percent regulated share of RBS attributable to the

separate jurisdictions are accounted for by the Trustee, the Bank of New York Mellon. The following information provides the balances in the 70 percent regulated share trust attributable to each of the relevant jurisdictions as of December 31, 2018:

Louisiana	\$182,696,235
Texas	\$212,747,177
FERC	\$ 11,361,349

The trust fund amounts reported for each facility in the responses to item 3 in the attachments represent the market value of decommissioning trust funds as of December 31, 2018 net of any material current income tax liability on realized gains, interest, dividends and other income of the trusts. Cooperative Energy is a not-for-profit electric cooperative, and is exempt from federal income tax. Accordingly, the amounts reported as of December 31, 2018 of funds separately accumulated by Cooperative Energy for GGNS decommissioning were after-tax amounts. The trusts for the following plants had balances on their 2018 tax liabilities (in thousands), not reflected in the trust fund balances, as follows (does not include Cooperative Energy):

ANO	\$	0
GGNS	\$	0
RBS	\$	0
WF3	\$	0

In accordance with guidance provided by the NRC Staff in April 2014 requests for additional information (Accession No. ML14120A273) that “[f]uture 10 CFR 50.75(f) reports should clearly delineate estimated reactor and ISFSI decommissioning costs,” the information in Attachments 1-4 includes line item 2 identifying the ISFSI decommissioning obligation, from the most recent 10 CFR 72.30 filing. This obligation is also accounted for in the Excess/Shortfall calculations for each plant in Attachment 5.

The information provided in Attachments 1-4 is based on NRC Regulatory Issue Summary 2001-07. Consistent with your letter dated March 11, 2011 (Accession No. ML110280410), we are providing with this submittal or incorporating by reference certain agreements providing for original (not resale) nuclear plant power sales (that may, from time to time, include decommissioning collections) between Entergy operating companies that invoke Federal Energy Regulatory Commission (FERC) tariffs. Considering these agreements and the applicable NRC regulations, Entergy respectfully asserts that these rate-making tariffs should not be viewed as “contractual obligations” as that term is used within 10 CFR 50.75(e)(1)(v). These arrangements describe exchanges among regulated utilities that operate within the confines of a FERC-approved tariff, under the ratemaking jurisdiction of the FERC. As such, the various agreements are simply extensions of the FERC tariff and not the type of “contractual obligations” contemplated by 10 CFR 50.75(e)(1)(v), and Entergy’s decommissioning funding is still provided by the external sinking fund method in accordance with 10 CFR 50.75(e)(1)(ii). In an abundance of caution and in a spirit of cooperation, however, Entergy is providing or incorporating various tariff agreements for each affected plant.

Additionally, Attachment 5 includes Minimum Funding Assurance calculation worksheets (not required for this filing) derived from LIC-205 Revision 4 for the plants, provided for the convenience of the reviewer.

The aforementioned worksheets, using the December 31, 2018 trust fund balances, indicate that all of the plants covered by this submittal met or exceeded the NRC's funding requirements.

This submittal contains no new commitments. If you have any questions, please contact me at 601-368-5573.

Respectfully,



MKH/LJS/gpn

Attachments:

1. Entergy Arkansas, LLC – ANO 1 & 2 Status Reports
 - 1-A Entergy Arkansas, LLC – Calculation of Minimum Amount
 - 1-B Schedule of Remaining Principal Payments – ANO-2
 - 1-C ANO Purchase Power Agreements

2. SERI & Cooperative Energy - GGNS Status Report
 - 2-A SERI & Cooperative Energy – Calculation of Minimum Amount

3. Entergy Louisiana, LLC RBS Status Report – 70% Regulated
 - 3-A Entergy Louisiana, LLC – Calculation of Minimum Amount
 - 3-B Schedule of Remaining Principal Payments – RBS
 - 3-C Entergy Louisiana, LLC RBS Status Report – 30% Non-Regulated
 - 3-D River Bend 70% Purchase Power Agreement
 - 3-E River Bend 30% Purchase Power Agreement

4. Entergy Louisiana, LLC – Waterford 3 Status Report
 - 4-A Entergy Louisiana, LLC - Calculation of Minimum Amount
 - 4-B Schedule of Remaining Principal Payments – Waterford 3
 - 4-C Waterford 3 Purchase Power Agreement

5. Minimum Funding Assurance Calculation Worksheets

cc: USNRC Regional Administrator, Region IV

USNRC Project Manager, ANO
USNRC Project Manager, GGN
USNRC Project Manager, RBS
USNRC Project Manager, WF3

USNRC Resident Inspector, ANO
USNRC Resident Inspector, GGN
USNRC Resident Inspector, RBS
USNRC Resident Inspector, WF3

Arkansas Department of Health
Mississippi Department of Health
Louisiana Department of Environmental Quality

ENTERGY ARKANSAS, LLC
Status Report of Decommissioning Funding
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Plant Name: **Arkansas Nuclear One Unit 1 (ANO 1)**

- | | |
|--|--|
| 1. Minimum Financial Assurance (MFA)
Estimated per 10 CFR 50.75(b) and (c) (2018\$): | \$472.4 million ¹ |
| 2. ISFSI Obligation as of 12/31/18 | \$7.36 million ² |
| 3. Decommissioning Trust Fund Total
As of 12/31/18: | \$506.7 million |
| 4. Annual amounts remaining to be collected: | \$0 ³ |
| 5. Assumptions used in determining rates of escalation
in decommissioning costs, rates of earnings on
decommissioning funds, and rates of other factors
used in funding projections | 2% annual real rate of return per
10 CFR 50.75(e)(1)(i) |
| 6. Contracts upon which licensee is relying
For Decommissioning Funding: | See Footnote ⁴ |
| 7. Modifications to Method of Financial
Assurance since Last Report: | None |
| 8. Material Changes to Trust Agreements: | None |

¹ See Attachment 1-A

² From Entergy's ISFSI Decommissioning Funding Plans Pursuant to 10 CFR 72.30, December 17, 2018 (Accession No. ML18351A491). The ISFSI obligation is shared equally between ANO 1 and ANO 2.

³ Decommissioning funding has been suspended by the Arkansas Public Service Commission in Docket No. 87-166-TF. The NRC has granted license renewal to May 20, 2034.

⁴ See the agreements in attachment 1-C for unit power purchase agreements under FERC tariffs for ANO. The licensee believes these contracts do not qualify as contractual obligations, but rather are simply cost of service recovery mechanisms as defined in 10 CFR §50.75(e)(1)(ii)(A). Out of an abundance of caution, the licensee identifies this information here. By FERC Order dated March 21, 2019, these agreements were modified to substitute Entergy Arkansas, LLC for Entergy Arkansas, Inc. As of the date of this filing, executed copies of the amended agreements were not available.

ENTERGY ARKANSAS, LLC
Status Report of Decommissioning Funding
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Plant Name: **Arkansas Nuclear One Unit 2 (ANO 2)**

- | | |
|--|---|
| 1. Minimum Financial Assurance (MFA)
Estimated per 10 CFR 50.75(b) and (c) (2018\$): | \$491.9 million ¹ |
| 2. ISFSI Obligation as of 12/31/18 | \$7.36 million ² |
| 3. Decommissioning Fund Total
As of 12/31/18: | \$405.3 million |
| 4. Annual amounts remaining to be collected: | See Attachment 1-B ³ |
| 5. Assumptions used in determining rates of escalation in decommissioning costs, rates of earnings on decommissioning funds, and rates of other factors used in funding projections: | 2% annual real rate of return per 10 CFR 50.75(e)(1)(i) |
| 6. Contracts upon which licensee is relying For Decommissioning Funding: | None |
| 7. Modifications to Method of Financial Assurance since Last Report: | None |
| 8. Material Changes to Trust Agreements: | None |

¹ See Attachment 1-A

² From Entergy's ISFSI Decommissioning Funding Plans Pursuant to 10 CFR 72.30, December 17, 2018 (Accession No. ML18351A491). The ISFSI obligation is shared equally between ANO 1 and ANO 2.

³ Decommissioning funding has been allowed by the Arkansas Public Service Commission in Revised Attachment A to Rider NDCR in Order No. 66 in Docket No. 87-166-TF.

ENTERGY ARKANSAS, LLC
Calculation for Minimum Amount - ANO
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Entergy Arkansas, Inc.: 100% ownership interest
Plant Location: Russellville, Arkansas
Reactor Type: Pressurized Water Reactor ("PWR")
ANO Unit 1 Power Level: <3,400 MWt (2,568 MWt)
ANO Unit 1 PWR Base Year 1986\$: \$97,598,400
ANO Unit 2 Power Level: <3,400 MWt (3,026 MWt)
ANO Unit 2 PWR Base Year 1986\$: \$101,628,800
Labor Region: South
Waste Burial Facility: Generic Disposal Site

10CFR50.75(c)(2) Escalation Factor Formula:

$$0.65(L) + 0.13(E) + 0.22(B)$$

	<u>Factor</u>
L=Labor (South)	2.62 ¹
E=Energy (PWR)	2.37 ²
B=Waste Burial-Vendor (PWR)	12.853 ³

PWR Escalation Factor:

$$0.65(L) + 0.13(E) + 0.22(B) = 4.84041$$

1986 PWR Base Year \$ Escalated:

$$\text{ANO1: } \$97,598,400 * \text{Factor} = \underline{\$472,416,347}$$

$$\text{ANO2: } \$101,628,800 * \text{Factor} = \underline{\$491,925,138}$$

¹ Bureau of Labor Statistics, Series Report ID: CIU201000000220i (4th Quarter 2018)
² Bureau of Labor Statistics, Series Report ID: wpu0543 and wpu0573 (December 2018)
³ Nuclear Regulatory Commission: NUREG-1307 Revision 17, Table 2.1 (2019)

ENTERGY ARKANSAS, LLC
Schedule of Remaining Principal Payments into ANO-2 Decommissioning Fund
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

	<u>ANO-2</u>	<u>Total</u>
2019	\$2,169	\$3,160
2020	\$2,169	\$3,098
2021	\$2,169	\$3,037
2022	\$2,169	\$2,978
2023	\$2,169	\$2,919
2024	\$2,169	\$2,862
2025	\$2,169	\$2,806
2026	\$2,169	\$2,751
2027	\$2,169	\$2,697
2028	\$2,169	\$2,644
2029	\$2,169	\$2,592
2030	\$2,169	\$2,541
2031	\$2,169	\$2,491
2032	\$2,169	\$2,443
2033	\$2,169	\$2,395
2034	\$2,169	\$2,348
2035	\$2,169	\$2,302
2036	\$2,169	\$2,257
2037	\$2,169	\$2,212
2038	\$2,169	\$2,169

Note: Approved in Revised Attachment A to Rider NDCR in Order No. 66 in Docket No. 87-166-TF

Attachment 1-C

CNRO-2019-00007

ANO Purchase Power Agreements

(14 pages to follow)

AGREEMENT

This Agreement is dated as of May 9, 2017 between Entergy Arkansas, Inc. (“EAI” or “Seller”), and Entergy Louisiana, LLC (“ELL” or “Buyer”).

WHEREAS, EAI has agreed to make a unit power sale from the designated units set forth on Attachment A (individually a “Designated Unit” and collectively “Designated Units”) to ELL; and

WHEREAS, the Agreement among EAI, the former Entergy Louisiana, LLC (“Entergy Louisiana”), Entergy New Orleans, Inc., Entergy Mississippi, Inc., and Entergy Services, Inc. (hereinafter referred to as the “System Agreement”), was filed with FERC on April 30, 1982, and became effective on January 1, 1983, and was amended in 1993 to incorporate Entergy Gulf States, Inc. and its successors Entergy Gulf States Louisiana, L.L.C. (“EGSL”) and Entergy Texas, Inc., in 2008, and EGSL’s and Entergy Louisiana’s successor, ELL, in 2015; and

WHEREAS, EAI withdrew from and terminated its participation in the System Agreement effective December 19, 2013; and

WHEREAS, the parties herein previously executed this Agreement to provide for a unit power purchase by ELL under System Agreement Service Schedule MSS-4 from the Designated Units; and

WHEREAS, as of December 19, 2013, the Parties have applied and shall apply the terms and conditions of the Unit Power Sales and Designated Power Purchases Tariff accepted by FERC in Docket No. ER13-1508 (“Sales and Purchases Tariff”), which was designed to replicate System Agreement Service Schedule MSS-4 as the umbrella tariff for this Agreement following EAI’s withdrawal from the System Agreement; and

WHEREAS, on October 1, 2015, EGSL and Entergy Louisiana completed a transaction

in which EGSL and Entergy Louisiana combined substantially all of their respective assets and liabilities into a single successor public utility operating company now known as ELL; and

WHEREAS, on October 30, 2015, ELL succeeded to the tariffs and rate schedules of EGSL and Entergy Louisiana; and

WHEREAS, the System Agreement terminated effective August 31, 2016 at 11:59:59 PM Central Daylight Time; THEREFORE, the parties agree as follows:

1. Designated Units. The designated generating units for purposes of this unit power purchase under the Sales and Purchases Tariff shall be those units set forth on Attachment A.

2. Unit Power Purchase. EAI agrees to sell and ELL agrees to purchase that quantity of generating capacity and associated energy from the Designated Units equivalent to the percentage (the "Allocated Percentage") of EAI's baseload capacity in each such Designated Unit set forth on Attachment A, with such sale and purchase to become effective as of May 9, 2017 and to continue thereafter until the retirement date of the Designated Units set forth on Attachment A, plus, for the Designated Units Arkansas Nuclear One ("ANO") Units 1 and 2 listed on Attachment A, any time required to decommission ANO Units 1 and 2.

3. Pricing. The pricing of the capacity and energy to be sold and purchased pursuant to paragraph 2 above shall be as specified in the Sales and Purchases Tariff. Should the trust funds set aside for Buyer's share of the responsibility for the decommissioning of ANO Units 1 and 2 be found to be insufficient to cover the aforesaid Buyer's share of the cost for such decommissioning, Buyer will promptly pay to Seller such deficit. The Buyer will fully pay for the Buyer's share of the decommissioning responsibility for ANO Units 1 and 2 notwithstanding the operational status of ANO Units 1 and 2 or any force majeure provisions. All proceeds from decommissioning collections under the Sales and Purchases Tariff pursuant to this Agreement

will be deposited to the external sinking fund(s) that collect(s) Buyer's decommissioning funding.

4. Energy Entitlement. ELL is entitled to receive on an hourly basis the Allocated Percentage of the energy generated by each of the Designated Units.

5. Termination. Neither party shall have the right to terminate the unit power purchase and sale required by this Agreement without the express written consent of the other party.

6. Condition Precedent. This contract shall be conditioned upon Buyer receiving all regulatory approvals required for this Agreement.

7. Notices. Unless specifically stated otherwise herein, any notice to be given hereunder shall be sent by Registered Mail, postage prepaid, to the party to be notified at the address set forth below, and shall be deemed given when so mailed.

To EAI: Entergy Arkansas, Inc.
425 West Capitol Avenue
Little Rock, AR 72201
ATTN: Chief Executive Officer

To ELL: Entergy Louisiana, LLC
4809 Jefferson Highway
Jefferson, LA 70121
ATTN: Chief Executive Officer

8. Nonwaiver. The failure of either party to insist upon or enforce, in any instance, strict performance by the other of any of the terms of this Agreement or to exercise any rights herein conferred shall not be considered as a waiver or relinquishment to any extent of its rights to assert or rely upon any such terms or rights on any future occasion.

9. Amendments. No waiver, alteration, amendment, or modification of any of the provisions of this Agreement shall be binding unless in writing and signed by a duly authorized

representative of both parties.

10. Entire Agreement. This Agreement, which is entered into in accordance with the authority of the Sales and Purchases Tariff, constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all previous and collateral agreements or understandings with respect to the subject matter hereof.

11. Severability. It is agreed that if any clause or provision of this Agreement is held by the courts to be illegal or void, the validity of the remaining portions and provisions of the Agreement shall not be affected, and the rights and obligations of the parties shall be enforced as if the Agreement did not contain such illegal or void clauses or provisions.

WITNESS OUR SIGNATURES as of May 9, 2017.

WITNESS: Gina C. Green

ENERGY ARKANSAS, INC.

BY: Richard C. Riley

TITLE: President & CEO

WITNESS: _____

ENERGY LOUISIANA, LLC

BY: _____

TITLE: _____

WITNESS OUR SIGNATURES as of May 9, 2017.

WITNESS: _____

ENTERGY ARKANSAS, INC.

BY: _____

TITLE: _____

WITNESS: Laurie Rivin

ENTERGY LOUISIANA, LLC

BY: Mark J. May

TITLE: President + CEO

ATTACHMENT A

SALE OF CAPACITY AND ENERGY

BY ENTERGY ARKANSAS, INC. TO ENTERGY LOUISIANA, LLC

This Attachment A is attached to and forms a part of the Agreement dated as of May 9, 2017, between Entergy Louisiana, LLC (“ELL” or “Buyer”) and Entergy Arkansas, Inc. (“EAI” or “Seller”) pursuant to the Unit Power Sales and Designated Power Purchases Tariff.

During the period, May 9, 2017 through the end of the term, the capacity and energy amount is as follows:

	EAI's BASELOAD CAPACITY*	BUYER'S ALLOCATED CAPACITY*	BUYER'S ALLOCATED PERCENTAGE
DESIGNATED UNIT			
ANO Unit 1	846.00	23.00	2.72%
ANO Unit 2	998.00	27.00	2.71%
White Bluff Unit 1	461.70	13.00	2.82%
White Bluff Unit 2	461.70	12.00	2.60%
Independence Unit 1	257.00	7.00	2.72%
Grand Gulf - EAI	324.00	9.00	2.78%
TOTAL	3,348.40	91.00	2.72%

*Expressed in megawatts. To the extent EAI's Baseload Capacity increases or decreases, Buyer's Allocated Capacity shall adjust correspondingly based on Buyer's Allocated Percentage of EAI's Baseload Capacity.

AGREEMENT

This Agreement is dated as of May 9, 2017 between Entergy Arkansas, Inc. (“EAI” or “Seller”), and Entergy New Orleans, Inc. (“ENO” or “Buyer”).

WHEREAS, EAI has agreed to make a unit power sale from the designated units set forth on Attachment A (individually a “Designated Unit” and collectively “Designated Units”) to ENO; and

WHEREAS, the Agreement among EAI, ENO, and the former Entergy Louisiana, LLC (“Entergy Louisiana”), Entergy Mississippi, Inc., and Entergy Services, Inc. (hereinafter referred to as the “System Agreement”), was filed with FERC on April 30, 1982, and became effective on January 1, 1983, and was amended in 1993 to incorporate Entergy Gulf States, Inc. and its successors Entergy Gulf States Louisiana, L.L.C. (“EGSL”) and Entergy Texas, Inc., in 2008, and EGSL’s and Entergy Louisiana’s successor, Entergy Louisiana, LLC, in 2015; and

WHEREAS, EAI withdrew from and terminated its participation in the System Agreement effective December 19, 2013; and

WHEREAS, the parties herein previously executed this Agreement to provide for a unit power purchase by ENO under System Agreement Service Schedule MSS-4 from the Designated Units; and

WHEREAS, as of December 19, 2013, the Parties have applied and shall apply the terms and conditions of the Unit Power Sales and Designated Power Purchases Tariff accepted by FERC in Docket No. ER13-1508 (“Sales and Purchases Tariff”), which was designed to replicate System Agreement Service Schedule MSS-4 as the umbrella tariff for this Agreement following EAI’s withdrawal from the System Agreement; and

WHEREAS, the System Agreement terminated effective August 31, 2016 at 11:59:59

PM Central Daylight Time;

THEREFORE, the parties agree as follows:

1. Designated Units. The designated generating units for purposes of this unit power purchase under the Sales and Purchases Tariff shall be those units set forth on Attachment A.

2. Unit Power Purchase. EAI agrees to sell and ENO agrees to purchase that quantity of generating capacity and associated energy from the Designated Units equivalent to the percentage (the "Allocated Percentage") of EAI's baseload capacity in each such Designated Unit set forth on Attachment A, with such sale and purchase to become effective as of May 9, 2017 and to continue thereafter until the retirement date of the Designated Units set forth on Attachment A, plus, for the Designated Units Arkansas Nuclear One ("ANO") Units 1 and 2 listed on Attachment A, any time required to decommission ANO Units 1 and 2.

3. Pricing. The pricing of the capacity and energy to be sold and purchased pursuant to paragraph 2 above shall be as specified in the Sales and Purchases Tariff. Should the trust funds set aside for Buyer's share of the responsibility for the decommissioning of ANO Units 1 and 2 be found to be insufficient to cover the aforesaid Buyer's share of the cost for such decommissioning, Buyer will promptly pay to Seller such deficit. The Buyer will fully pay for the Buyer's share of the decommissioning responsibility for ANO Units 1 and 2 notwithstanding the operational status of ANO Units 1 and 2 or any force majeure provisions. All proceeds from decommissioning collections under the Sales and Purchases Tariff pursuant to this Agreement will be deposited to the external sinking fund(s) that collect(s) Buyer's decommissioning funding.

4. Energy Entitlement. ENO is entitled to receive on an hourly basis the Allocated

Percentage of the energy generated by each of the Designated Units.

5. Termination. Neither part shall have the right to terminate the unit power purchase and sale required by this Agreement without the express written consent of the other party.

6. Condition Precedent. This contract shall be conditioned upon Buyer receiving all regulatory approvals required for this Agreement.

7. Notices. Unless specifically stated otherwise herein, any notice to be given hereunder shall be sent by Registered Mail, postage prepaid, to the party to be notified at the address set forth below, and shall be deemed given when so mailed.

To EAI: Entergy Arkansas, Inc.
425 West Capitol Avenue
Little Rock, AR 72201
ATTN: Chief Executive Officer

To ENO: Entergy New Orleans, Inc.
1600 Perdido Street
Building 505
New Orleans, LA 70112
ATTN: Chief Executive Officer

8. Nonwaiver. The failure of either party to insist upon or enforce, in any instance, strict performance by the other of any of the terms of this Agreement or to exercise any rights herein conferred shall not be considered as a waiver or relinquishment to any extent of its rights to assert or rely upon any such terms or rights on any future occasion.

9. Amendments. No waiver, alteration, amendment, or modification of any of the provisions of this Agreement shall be binding unless in writing and signed by a duly authorized representative of both parties.

10. Entire Agreement. This Agreement, which is entered into in accordance with the authority of the Sales and Purchases Tariff, constitutes the entire agreement between the parties

with respect to the subject matter hereof and supersedes all previous and collateral agreements or understandings with respect to the subject matter hereof.

11. Severability. It is agreed that if any clause or provision of this Agreement is held by the courts to be illegal or void, the validity of the remaining portions and provisions of the Agreement shall not be affected, and the rights and obligations of the parties shall be enforced as if the Agreement did not contain such illegal or void clauses or provisions.

WITNESS OUR SIGNATURES as of May 9, 2017.

WITNESS: Gina C. Green

ENERGY ARKANSAS, INC.

BY: Richard C. Riley

TITLE: President & CEO

WITNESS: _____

ENERGY NEW ORLEANS, INC.

BY: _____

TITLE: _____

WITNESS OUR SIGNATURES as of May 9, 2017.

WITNESS: _____

ENTERGY ARKANSAS, INC.

BY: _____

TITLE: _____

WITNESS: Kim Mitchell

ENTERGY NEW ORLEANS, INC.

BY:  _____

TITLE: President & CEO

ATTACHMENT A

SALE OF CAPACITY AND ENERGY

BY ENTERGY ARKANSAS, INC. TO ENTERGY NEW ORLEANS, INC.

This Attachment A is attached to and forms a part of the Agreement dated as of May 9, 2017, between Entergy New Orleans, Inc. (“ENO” or “Buyer”) and Entergy Arkansas, Inc. (“EAI” or “Seller”) pursuant to the Unit Power Sales and Designated Power Purchases Tariff.

During the period, May 9, 2017 through the end of the term, the capacity and energy amount is as follows:

	EAI’s BASELOAD CAPACITY*	BUYER’S ALLOCATED CAPACITY*	BUYER’S ALLOCATED PERCENTAGE
DESIGNATED UNIT			
ANO Unit 1	846.00	23.00	2.72%
ANO Unit 2	998.00	27.00	2.71%
White Bluff Unit 1	461.70	12.00	2.60%
White Bluff Unit 2	461.70	13.00	2.82%
Independence Unit 1	257.00	7.00	2.72%
Grand Gulf - EAI	324.00	9.00	2.78%
TOTAL	3,348.40	91.00	2.72%

*Expressed in megawatts. To the extent EAI’s Baseload Capacity increases or decreases, Buyer’s Allocated Capacity shall adjust correspondingly based on Buyer’s Allocated Percentage of EAI’s Baseload Capacity.

SYSTEM ENERGY RESOURCES, INC. and COOPERATIVE ENERGY
Status Report of Decommissioning Funding
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Plant Name: **Grand Gulf Station (Owned & leased 90% by System Energy Resources, Inc (SERI) and 10% by Cooperative Energy)**

1. Minimum Financial Assurance (MFA)	
Estimated per 10 CFR 50.75(b) and (c) (2018\$):	
SERI (90% ownership share)	\$603.7 million ¹
Cooperative Energy (10% ownership share)	\$67.1 million
2. ISFSI Obligation as of 12/31/18 ²	
SERI	\$11.48 million
Cooperative Energy	\$1.28 million
3. Decommissioning Fund Total as of 12/31/18:	
SERI	\$869.5 million
Cooperative Energy	\$75.5 million
4. Annual amounts remaining to be collected:	None
5. Assumptions used:	
Rate of Escalation of Decommissioning Costs:	
SERI	See item below
Cooperative Energy	3.0%
Rate of Earnings on Decommissioning Funds:	
SERI	2% real rate of return per 10 CFR 50.75(e)(1)(i)
Cooperative Energy	Approx. 2.91% ³
Authority for use of Real Earnings Over 2%:	
SERI	N/A
Cooperative Energy	Cooperative Energy Board
6. Contracts upon which licensee is relying For Decommissioning Funding:	See footnote ⁴
7. Modifications to Method of Financial Assurance since Last Report:	None
8. Material Changes to Trust Agreements:	
SERI	None
Cooperative Energy	None

¹ See Attachment 2-A

² From Entergy's ISFSI Decommissioning Funding Plans Pursuant to 10 CFR 72.30, December 17, 2018 (Accession No. ML18351A491).

³ Established by Cooperative Energy board resolution. A copy of that resolution was previously provided in the licensee's March 27, 2015 decommissioning financial assurance filing as Attachment 2-C, Accession No. ML15092A183, and is incorporated herein by reference.

⁴ See the Unit Power Sales Agreement and the Availability Agreement, FERC tariffs, previously provided in the licensee's March 27, 2015 decommissioning financial assurance filing as Attachment 2-D, Accession No. ML15092A183, incorporated herein by reference. It is the licensee's position that these agreements are not 10 CFR §50.75(e)(1)(v) "contractual obligations," but rather cost of service tariffs which may appropriately be used to fund the external sinking fund in accordance with 10 CFR §50.75(e)(1)(ii). Out of abundance of caution, the licensee identifies this information here.

**SYSTEM ENERGY RESOURCES, INC. and COOPERATIVE ENERGY
Calculation for Minimum Amount
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)**

System Energy Resources, Inc.: 90% ownership/leasehold interest

Cooperative Energy: 10% ownership interest

Plant Location: Port Gibson, Mississippi

Reactor Type: Boiling Water Reactor ("BWR")

Power Level: >3,400 MWt

BWR Base Year 1986\$: \$135,000,000

Labor Region: South

Waste Burial Facility: Generic Disposal Site

10CFR50.75(c)(2) Escalation Factor Formula:

$$0.65(L) + 0.13(E) + 0.22(B)$$

	<u>Factor</u>
L=Labor (South)	2.62 ¹
E=Energy (BWR)	2.39 ²⁺
B=Waste Burial-Vendor (BWR)	13.422 ³

BWR Escalation Factor:

$$0.65(L) + 0.13(E) + 0.22(B) = 4.96883$$

1986 BWR Base Year \$ Escalated:

$$\$135,000,000 * \text{Factor} = \$670,792,452$$

System Energy interest (90%): \$603,713,207

Cooperative Energy interest (10%): \$ 67,079,245

Total \$670,792,452

¹ Bureau of Labor Statistics, Series Report ID: CIU2010000000220i (4th Quarter 2018)
² Bureau of Labor Statistics, Series Report ID: wpu0543 and wpu0573 (December 2018)
³ Nuclear Regulatory Commission: NUREG-1307 Revision 17, Table 2.1 (2019)

ENTERGY LOUISIANA, LLC.
Status Report of Decommissioning Funding
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Plant Name: **River Bend Station (70% Regulated Interest)**

- | | |
|---|---|
| 1. Minimum Financial Assurance (MFA)
Estimated per 10 CFR 50.75(b) and (c) (2018\$): | \$458.5 million ¹ |
| 2. ISFSI Obligation as of 12/31/18 | \$7.31 million ² |
| 3. Decommissioning Fund Total
As of 12/31/18: | \$406.8 million |
| 4. Annual amounts remaining to be collected: | See Attachment 3-B |
| 5. Assumptions used:
Rate of Escalation of Decommissioning Costs: | See item below |
| Rate of Earnings on Decommissioning Funds: | 2% real rate of return
per 10 CFR 50.75(e)(1)(i) |
| Authority for use of Real Earnings Over 2%: | N/A |
| 6. Contracts upon which licensee is relying
For Decommissioning Funding: | See footnote ³ |
| 7. Modifications to Method of Financial
Assurance since Last Report: | None |
| 8. Material Changes to Trust Agreements: | None |

¹ See Attachment 3-A.

² From Entergy's ISFSI Decommissioning Funding Plans Pursuant to 10 CFR 72.30, December 17, 2018 (Accession No. ML18351A491), 70% of River Bend value.

³ See the agreement in attachment 3-D for a unit power purchase agreement under a FERC tariff for the Texas-jurisdictional share of the River Bend 70% share. The licensee believes this contract does not qualify as a contractual obligation, but rather is simply a cost of service recovery mechanism as defined in 10 CFR §50.75(e)(1)(ii)(A). Out of an abundance of caution, the licensee identifies this information here.

ENTERGY LOUISIANA, LLC.
Calculation for Minimum Amount
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Entergy Louisiana, LLC: Factors below used for all of ownership interests

Plant Location: West Feliciana Parish, Louisiana

Reactor Type: Boiling Water Reactor ("BWR")

Power Level: <3,400 MWt (3,091MWt)

BWR Base Year 1986\$: \$131,819,000

Labor Region: South

Waste Burial Facility: Generic Disposal Site

10CFR50.75(c)(2) Escalation Factor Formula:

$$0.65(L) + 0.13(E) + 0.22(B)$$

	<u>Factor</u>
L=Labor (South)	2.62 ¹
E=Energy (BWR)	2.39 ²
B=Waste Burial-Vendor (BWR)	13.422 ³

BWR Escalation Factor:

$$0.65(L) + 0.13(E) + 0.22(B) = 4.96883$$

1986 BWR Base Year \$ Escalated:

$$\$131,819,000 * \text{Factor} = \$654,986,595$$

River Bend 70% Regulated Interest: \$458,490,616

River Bend 30% Non-Regulated Interest: \$196,495,978

Total \$654,986,595

¹ Bureau of Labor Statistics, Series Report ID: CIU201000000220i (4th Quarter 2018)

² Bureau of Labor Statistics, Series Report ID: wpu0543 and wpu0573 (December 2018)

³ Nuclear Regulatory Commission: NUREG-1307 Revision 17, Table 2.1 (2019)

ENTERGY LOUISIANA, LLC.
Schedule of Remaining Principal Payments into RBS (70%) Decommissioning Fund
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Year	LPSC	PUCT	FERC	Total
2019	\$ 8,996	\$ 1,126	\$ 113	\$10,235
2020	\$10,195	\$ 1,126	\$ 113	\$11,434
2021	\$10,195	\$ 1,126	\$ 113	\$11,434
2022	\$10,195	\$ 1,126	\$ 113	\$11,434
2023	\$10,195	\$ 1,126	\$ 113	\$11,434
2024	\$10,195	\$ 1,126	\$ 113	\$11,434
2025	\$11,693	\$ 1,126	\$ 113	\$12,931
2026	\$11,693	\$ 1,126	\$ 113	\$12,932
2027	\$11,693	\$ 1,126	\$ 113	\$12,932
2028	\$11,693	\$ 1,126	\$ 113	\$12,932
2029	\$11,693	\$ 1,126	\$ 113	\$12,932
2030	\$13,513	\$ 1,126	\$ 113	\$14,752

Note: Approved in LPSC Docket No.U-31237; PUCT Order in Docket No. 39896; FERC Order in Docket Nos. ER86-558-002. Copies of those orders were previously provided in the licensee's March 27, 2015 decommissioning financial assurance filing as Attachments 3-D, 3-E and 3-F, respectively, Accession No. ML15092A183, and are incorporated herein by reference.

ENTERGY LOUISIANA, LLC.
Status Report of Decommissioning Funding
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Plant Name: **River Bend Station (30% Non-Regulated Interest)**

1. Minimum Financial Assurance (MFA) Estimated per 10 CFR 50.75(b) and (c) (2018\$):	\$196.5 million ¹
2. ISFSI Obligation as of 12/31/18	\$3.13 million ²
3. Decommissioning Fund Total As of 12/31/18:	\$396.5 million
4. Annual amounts remaining to be collected:	None
5. Assumptions used:	
Rate of Escalation of Decommissioning Costs:	See next item
Rate of Earnings on Decommissioning Funds:	2% real rate of return per 10 CFR 50.75(e)(1)(i)
Authority for use of Real Earnings Over 2%:	N/A
6. Contracts upon which licensee is relying For Decommissioning Funding:	None ³
7. Modifications to Method of Financial Assurance since Last Report:	None
8. Material Changes to Trust Agreements:	None

¹ See Attachment 3-A.

² From Entergy's ISFSI Decommissioning Funding Plans Pursuant to 10 CFR 72.30, December 17, 2018 (Accession No. ML18351A491), 30% of River Bend value.

³ The River Bend 30% share is sold under contract, but since the 30% share is fully funded with a pre-paid decommissioning fund, the licensee does not rely on this contract for decommissioning.

Attachment 3-D

CNRO-2019-00007

River Bend 70% Purchase Power Agreement

(7 pages to follow)

AGREEMENT

This Agreement is dated as of September 1, 2016, between Entergy Texas, Inc. (“ETI” or “Buyer”), and Entergy Louisiana, LLC (“ELL” or “Seller”).

WHEREAS, Seller has agreed to make a unit power sale from the designated units set forth on Attachment A (individually a “Designated Unit” and collectively “Designated Units”) to Buyer; and

WHEREAS, the agreement among the former Entergy Louisiana, LLC (“Entergy Louisiana”), Entergy Mississippi, Inc., Entergy New Orleans, Inc., and Entergy Arkansas, Inc., (collectively the “Companies”), and Entergy Services, Inc. (“ESI”) was filed with FERC on April 30, 1982, and became effective on January 1, 1983, and amended to incorporate Entergy Gulf States, Inc. (“EGS”) in 1993 and its successor, Entergy Gulf States Louisiana, L.L.C. (“EGSL”), and ETI in 2008 (hereinafter referred to as the “System Agreement”); and

WHEREAS, on October 1, 2015, EGSL and Entergy Louisiana completed a transaction in which EGSL and Entergy Louisiana combined substantially all of their respective assets and liabilities into a single successor public utility operating company now known as ELL; and

WHEREAS, on October 30, 2015, ELL succeeded to the tariffs and rate schedules of EGSL and Entergy Louisiana; and

WHEREAS, pursuant to a Settlement Agreement approved by FERC in Docket Nos. ER14-75, et al., on December 29, 2015, the System Agreement will terminate effective August 31, 2016 at 11:59:59 PM Central Daylight Time; and

WHEREAS, the parties herein previously executed this Agreement to provide for a unit power purchase by Buyer under Service Schedule MSS-4 from the Designated Units; and

WHEREAS, upon termination of the System Agreement, the Parties intend to apply the terms and conditions of the Unit Power Sales and Designated Power Purchases Tariff accepted by FERC in Docket No. ER13-1508 (“Sales and Purchases Tariff”), which is designed to replicate System Agreement Service Schedule MSS-4 as the umbrella tariff for this Agreement;

THEREFORE, the parties agree as follows:

1. Designated Units. The designated generating units for purposes of this unit power sale under the Sales and Purchases Tariff shall be those units set forth on Attachment A.
2. Unit Power Purchase. Seller agrees to sell and Buyer agrees to purchase that quantity of generating capacity and associated energy from the Designated Units equivalent to the percentage (the “Allocated Percentage”) of Seller’s capacity in each such Designated Unit set forth on Attachment A.
3. Pricing. The pricing of the capacity and energy to be sold and purchased pursuant to paragraph 2 above shall be as specified in the Sales and Purchases Tariff; however, the input values for decommissioning, Generating Plant Accounts (DGUPTPLT), Accumulated Provision for Depreciation (DGUDR), Accumulated Deferred Income Taxes (DGUADIT), and Depreciation Expense (DGUDE) will reflect the ratemaking decisions of the Public Utility Commission of Texas. In addition, the Operations and Maintenance expenses will be reduced by the 30% portion allocable to the unregulated portion of River Bend Station, which is not in retail rate base. This 30% portion of River Bend Station was formerly owned by Cajun Electric Power Cooperative before it was owned by EGSL and now ELL.

Should the trust funds set aside for Buyer’s share of the responsibility

for River Bend Station decommissioning be found to be insufficient to cover the aforesaid Buyer's share of the cost for such decommissioning, Buyer will promptly pay to Seller such deficit. The Buyer will fully pay for the Buyer's share of the decommissioning responsibility for River Bend notwithstanding the operational status of River Bend or any force majeure provisions. All proceeds from decommissioning collections under the Sales and Purchases Tariff pursuant to this Agreement will be deposited to the external sinking fund(s) that collect(s) Buyer's decommissioning funding.

4. Energy Entitlement. Buyer is entitled to receive on an hourly basis the Allocated Percentage of the energy generated by each of the Designated Units.
5. Term. The term of this Agreement shall be the operating life of the Designated Units, plus any time required to decommission the Designated Units.
6. Termination. Neither party shall have the right to terminate the unit power purchase and sale required by this Agreement without the express written consent of the other party.
7. Assignment. This Agreement is not assignable by Buyer without the consent of Seller, and Seller must consent to any transfer or assignment to any new or restructured entity resulting from any restructuring or business combination of Buyer, the effect of which would cause a successor to become a party hereto. Any assignment approved by Seller shall be on terms as then agreed.
8. Condition Precedent. This contract shall be conditioned upon Buyer receiving all regulatory approvals required for this Agreement.
9. Notices. Unless specifically stated otherwise herein, any notice to be given hereunder shall be sent by Registered Mail, postage prepaid, to the party to be

notified at the address set forth below, and shall be deemed given when so mailed.

To ETI: Entergy Texas, Inc.
10055 Grogans Mill Road
The Woodlands, TX 77380
ATTN: Chief Executive Officer

To ELL: Entergy Louisiana, LLC
4809 Jefferson Hwy
Jefferson, LA 70121
ATTN: Chief Executive Officer

10. Nonwaiver: The failure of either party to insist upon or enforce, in any instance, strict performance by the other of any of the terms of this Agreement or to exercise any rights herein conferred shall not be considered as a waiver or relinquishment to any extent of its rights to assert or rely upon any such terms or rights on any future occasion.
11. Amendments. No waiver, alteration, amendment or modification of any of the provisions of this Agreement shall be binding unless in writing and signed by a duly authorized representative of both parties.
12. Entire Agreement. This Agreement, which is entered into in accordance with the authority of the Sales and Purchases Tariff, constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all previous and collateral agreements or understandings with respect to the subject matter hereof.
13. Severability. It is agreed that if any clause or provision of this Agreement is held by the courts to be illegal or void, the validity of the remaining portions and provisions of the Agreement shall not be affected, and the rights and obligations of the parties shall be enforced as if the Agreement did not contain such illegal or void clauses or provisions.

ENTERGY TEXAS, INC.

BY: Valli TR

TITLE: President & CEO

ENTERGY LOUISIANA, LLC

BY: _____

TITLE: _____

ENTERGY TEXAS, INC.

BY: _____

TITLE: _____

ENTERGY LOUISIANA, LLC

BY: Philip F. May

TITLE: President + CEO

ATTACHMENT A

SALE OF CAPACITY AND ENERGY

BY ENTERGY LOUISIANA, LLC TO ENTERGY TEXAS, INC.

This Attachment A is attached to and forms a part of the Agreement dated September 1, 2016, between Entergy Louisiana, LLC (“Seller”) and Entergy Texas, Inc. (“Buyer”) pursuant to the Unit Power Sales and Designated Power Purchases Tariff.

	SELLER’S CAPACITY*	BUYER’S ALLOCATED CAPACITY*	BUYER’S ALLOCATED PERCENTAGE
DESIGNATED UNITS			
River Bend Station	689	292.83	42.5%
TOTAL		<hr/>	
	689	292.83	42.5%

* Expressed in megawatts. To the extent Seller’s Capacity increases or decreases from time to time, Buyer’s Allocated Capacity shall adjust correspondingly based on Buyer’s Allocated Percentage of Seller’s Capacity.

Attachment 3-E

CNRO-2019-00007

River Bend 30% Purchase Power Agreement

(7 pages to follow)

AGREEMENT

This Agreement is dated as of September 1, 2016 between Entergy Louisiana, LLC (“ELL” or “Seller”), and Entergy New Orleans, Inc. (“ENO” or “Buyer”).

WHEREAS, ELL has agreed to make a unit power sale from the designated unit set forth on Attachment A (“Designated Unit”) to ENO; and

WHEREAS, the Agreement among ENO, the former Entergy Louisiana, LLC (“Entergy Louisiana”), Entergy Mississippi, Inc. (“EMI”), Entergy Arkansas, Inc. (“EAI”) and Entergy Services, Inc. (“ESI”) (hereinafter referred to as the “System Agreement”), was filed with FERC on April 30, 1982, and became effective on January 1, 1983, and amended to incorporate Entergy Gulf States, Inc., the predecessor to Entergy Gulf States Louisiana, L.L.C. (“EGSL”) and Entergy Texas, Inc. (“ETI”), in 1993; and

WHEREAS, by Order dated July 20, 2007, FERC approved the addition of EGSL and ETI as parties to the System Agreement; and

WHEREAS, on October 1, 2015, EGSL and Entergy Louisiana completed a transaction in which EGSL and Entergy Louisiana combined substantially all of their respective assets and liabilities into a single successor public utility operating company now known as ELL; and

WHEREAS, on October 30, 2015, ELL succeeded to the tariffs and rate schedules of EGSL and Entergy Louisiana; and

WHEREAS, pursuant to a Settlement Agreement approved by FERC in Docket Nos. ER14-75, et al., on December 29, 2015, the System Agreement will terminate effective August 31, 2016 at 11:59:59 PM Central Daylight Time; and

WHEREAS, the parties herein previously executed this Agreement to provide for a unit power purchase by ENO under System Agreement Service Schedule MSS-4 from the Designated Unit; and

WHEREAS, upon termination of the System Agreement, the Parties intend to apply the terms and conditions of the Unit Power Sales and Designated Power Purchases Tariff accepted by FERC in Docket No. ER13-1508 (“Sales and Purchases Tariff”), which is designed to replicate System Agreement Service Schedule MSS-4 as the umbrella tariff for this Agreement;

THEREFORE, the parties agree as follows:

1. Designated Unit. The designated generating unit for purposes of this unit power purchase under the Sales and Purchases Tariff shall be the unit set forth on Attachment A.

2. Unit Power Purchase. ELL agrees to sell and ENO agrees to purchase that quantity of generating capacity and associated energy from the Designated Unit equivalent to the percentage (the “Allocated Percentage”) of ELL’s baseload capacity in such Designated Unit set forth on Attachment A, with such sale and purchase to become effective as of September 1, 2016 and to continue thereafter until the retirement date of the Designated Unit set forth on Attachment A, plus any time required to decommission the Designated Unit.

3. Pricing. The pricing of the capacity and energy to be sold and purchased pursuant to paragraph 2 above shall be as specified in the Sales and Purchases Tariff; however, the accounting treatment of this Agreement will deviate from the specific account references included in the Sales and Purchases Tariff. The Designated Unit is recorded by ELL as a non-utility investment because that portion of River Bend Station is a non-regulated investment and not in retail rate base. Consequently, the values for the plant investment calculation is as reported in Account 121 and plant accounts 310-346, and not in Account 101. Similarly, the

depreciation expense value is as reported in Account 417, and the depreciation reserve value is reported in Account 122, both of which are non-utility accounts, rather than Accounts 403, 404, and 108 as specified in the Sales and Purchases Tariff. In addition, because the Designated Unit is a non-regulated investment, it is not appropriate to allocate a portion of the regulated General and Intangible Plant; and, thus, those values are set to zero.

Should the trust funds set aside for Buyer's share of the responsibility for River Bend Station decommissioning be found to be insufficient to cover the aforesaid Buyer's share of the cost for such decommissioning, Buyer will promptly pay to Seller such deficit. The Buyer will fully pay for the Buyer's share of the decommissioning responsibility for River Bend notwithstanding the operational status of River Bend or any force majeure provisions. All proceeds from decommissioning collections under the Sales and Purchases Tariff pursuant to this Agreement will be deposited to the external sinking fund(s) that collect(s) Buyer's decommissioning funding.

4. Energy Entitlement. ENO is entitled to receive on an hourly basis the Allocated Percentage of the energy generated by the Designated Unit.

5. Termination. Neither party shall have the right to terminate the unit power purchase and sale required by this Agreement without the express written consent of the other party.

6. Condition Precedent. This contract shall be conditioned upon Buyer receiving all regulatory approvals required for this Agreement.

7. Notices. Unless specifically stated otherwise herein, any notice to be given hereunder shall be sent by Registered Mail, postage prepaid, to the party to be notified at the address set forth below, and shall be deemed given when so mailed.

To ELL: Entergy Louisiana, LLC
4809 Jefferson Highway
Jefferson, LA 70121
ATTN: Chief Executive Officer

To ENO: Entergy New Orleans, Inc.
1600 Perdido Street
Building 505
New Orleans, LA 70112
ATTN: Chief Executive Officer

8. Nonwaiver. The failure of either party to insist upon or enforce, in any instance, strict performance by the other of any of the terms of this Agreement or to exercise any rights herein conferred shall not be considered as a waiver or relinquishment to any extent of its rights to assert or rely upon any such terms or rights on any future occasion.

9. Amendments. No waiver, alteration, amendment or modification of any of the provisions of this Agreement shall be binding unless in writing and signed by a duly authorized representative of both parties.

10. Entire Agreement. This Agreement, which is entered into in accordance with the authority of the Sales and Purchases Tariff, constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all previous and collateral agreements or understandings with respect to the subject matter hereof.

11. Severability. It is agreed that if any clause or provision of this Agreement is held by the courts to be illegal or void, the validity of the remaining portions and provisions of the Agreement shall not be affected, and the rights and obligations of the parties shall be enforced as if the Agreement did not contain such illegal or void clauses or provisions.

ENERGY LOUISIANA, LLC

BY: Philip R. May

TITLE: President & CEO

ENERGY NEW ORLEANS, INC.

BY: _____

TITLE: _____

ENTERGY LOUISIANA, LLC

BY: _____

TITLE: _____

ENTERGY NEW ORLEANS, INC.

BY:  _____

TITLE: President + CEO

***Signature page to Power Purchase Agreement by and between
ELL (Seller) and ENO (Buyer) for River Bend 30***

ATTACHMENT A

SALE OF CAPACITY AND ENERGY

BY ENTERGY LOUISIANA, LLC TO ENTERGY NEW ORLEANS, INC.

During the period September 1, 2016 and to continue thereafter until the retirement date of the Designated Unit, the capacity and energy amount is as follows:

DESIGNATED UNIT	ELL'S BASELOAD CAPACITY*	BUYER'S ALLOCATED CAPACITY*	BUYER'S ALLOCATED PERCENTAGE
RB30	300.00	100.00	33.33%

* Expressed in megawatts. To the extent ELL's Baseload Capacity increases or decreases, Buyer's Allocated Capacity shall adjust correspondingly based on Buyer's Allocated Percentage of ELL's Baseload Capacity.

ENTERGY LOUISIANA, LLC.
Status Report of Decommissioning Funding
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Plant Name: **Waterford 3 Steam Electric Station**

- | | |
|---|---|
| 1. Minimum Financial Assurance (MFA)
Estimated per 10 CFR 50.75(b) and (c) (2018\$): | \$508.2 million ¹ |
| 2. ISFSI Obligation as of 12/31/18 | \$9.04 million ² |
| 3. Decommissioning Fund Total
As of 12/31/18: | \$481.6 million |
| 4. Annual amounts remaining to be collected: | See Attachment 4-B |
| 5. Assumptions used: | |
| Rate of Escalation of Decommissioning Costs: | See item below |
| Rate of Earnings on Decommissioning Funds: | 2% real rate of return
per 10 CFR 50.75(e)(1)(i) |
| Authority for use of Real Earnings Over 2%: | N/A |
| 6. Contracts upon which licensee is relying
For Decommissioning Funding: | See Footnote ³ |
| 7. Modifications to Method of Financial
Assurance since Last Report: | None |
| 8. Material Changes to Trust Agreements: | None |

¹ See Attachment 4-A.

² From Entergy's ISFSI Decommissioning Funding Plans Pursuant to 10 CFR 72.30, December 17, 2018 (Accession No. ML18351A491).

³ See the agreements in attachment 4-C for a unit power purchase agreement under FERC tariffs for Waterford 3. The licensee believes this contract does not qualify as a contractual obligation, but rather is simply a cost of service recovery mechanism as defined in 10 CFR §50.75(e)(1)(ii)(A). Out of an abundance of caution, the licensee identifies this information here.

ENTERGY LOUISIANA, LLC.
Calculation for Minimum Amount
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Entergy Louisiana, LLC: 100% ownership interest
Plant Location: Taft, Louisiana
Reactor Type: Pressurized Water Reactor ("PWR")
Power Level: >3,400 MWt
PWR Base Year 1986\$: \$105,000,000
Labor Region: South
Waste Burial Facility: Generic Disposal Site

10CFR50.75(c)(2) Escalation Factor Formula:

$$0.65(L) + 0.13(E) + 0.22(B)$$

	<u>Factor</u>
L=Labor (South)	2.62 ¹
E=Energy (PWR)	2.37 ²
B=Waste Burial-Vendor (PWR)	12.853 ³

PWR Escalation Factor:

$$0.65(L) + 0.13(E) + 0.22(B) = 4.84041$$

1986 PWR Base Year \$ Escalated:

$$\$105,000,000 * \text{Factor} = \underline{\underline{\$508,243,131}}$$

¹ Bureau of Labor Statistics, Series Report ID: CIU201000000220i (4th Quarter 2018)
² Bureau of Labor Statistics, Series Report ID: wpu0543 and wpu0573 (December 2018)
³ Nuclear Regulatory Commission: NUREG-1307 Revision 17, Table 2.1 (2019)

ENTERGY LOUISIANA, LLC.
Schedule of Remaining Principal Payments into WF3 Decommissioning Fund
For Year Ending December 31, 2018 - 10 CFR 50.75(f)(1)

Year	LPSC	City of New Orleans	Total
2019	\$6,688	\$133	\$6,821
2020	\$7,580	\$151	\$7,731
2021	\$7,580	\$151	\$7,731
2022	\$7,580	\$151	\$7,731
2023	\$7,580	\$151	\$7,731
2024	\$7,580	\$151	\$7,731
2025	\$8,867		\$8,867
2026	\$8,867		\$8,867
2027	\$8,867		\$8,867
2028	\$8,867		\$8,867
2029	\$8,867		\$8,867
2030	\$10,246		\$10,246

Note: Approved in LPSC Docket No. U-31237, CNO Resolution R-95-1081 in Docket UD-95-1, and CNO Resolution R-14-494 in Docket UD-13-01. Copies of those orders were previously provided in the licensee's March 27, 2015 decommissioning financial assurance filing as Attachments 4-C, 4-D, and 4-E, respectively, Accession No. ML15092A183, and are incorporated herein by reference.

Attachment 4-C

CNRO 2019-00007

Waterford 3 Purchase Power Agreement

(7 pages to follow)

AGREEMENT

This Agreement is dated as of September 1, 2016, between Entergy Louisiana, LLC (“ELL” or “Seller”) and Entergy New Orleans, Inc. (“ENO” or “Buyer,” and together with the Seller, the “Parties”).

WHEREAS, the former Entergy Louisiana, LLC (“Entergy Louisiana”) transferred to ENO certain Entergy Louisiana assets (and related liabilities) that are necessary to provide electric service to customers in the Fifteenth Ward of the City of New Orleans, commonly referred to as Algiers (the “Algiers Transaction”); and

WHEREAS, as part of the Algiers Transaction, Entergy Louisiana agreed to make a unit power sale from the designated units set forth on Attachment A (“Designated Units”) to ENO; and

WHEREAS, the Agreement among Entergy Louisiana, ENO, Entergy Mississippi, Inc. and Entergy Services, Inc. (hereinafter referred to as the “System Agreement”), was filed with FERC on April 30, 1982, and became effective on January 1, 1983, and was amended in 1993 to incorporate Entergy Gulf States, Inc., and its successors Entergy Gulf States Louisiana, L.L.C. (“EGSL”) and Entergy Texas, Inc., in 2008; and

WHEREAS, on October 1, 2015, EGSL and Entergy Louisiana completed a transaction in which EGSL and Entergy Louisiana combined substantially all of their respective assets and liabilities into a single successor public utility operating company now known as ELL; and

WHEREAS, on October 30, 2015, ELL succeeded to the tariffs and rate schedules of EGSL and Entergy Louisiana; and

WHEREAS, pursuant to a Settlement Agreement approved by FERC in Docket Nos. ER14-75, et al., on December 29, 2015, the System Agreement will terminate effective August 31, 2016 at 11:59:59 Central Daylight Time; and

WHEREAS, the Parties previously executed this Agreement to provide for a unit power purchase by Buyer under System Agreement Service Schedule MSS-4 from the Designated Units; and

WHEREAS, the Entergy Operating Committee previously considered and approved the terms of this Agreement; and

WHEREAS, upon termination of the System Agreement, the Parties intend to apply the terms and conditions of the Unit Power Sales and Designated Power Purchases Tariff accepted by FERC in Docket No. ER13-1508 (“Sales and Purchases Tariff”), which is designed to replicate System Agreement Service Schedule MSS-4 as the umbrella tariff for this Agreement;

THEREFORE, the Parties agree as follows:

1. Unit Power Purchase. Subject to the other terms of this Agreement, Seller agrees to sell and Buyer agrees to purchase that quantity of generating capacity and associated energy from the Designated Units on a life-of-unit basis under the Sales and Purchases Tariff, as described herein, equivalent to the Buyer’s Allocated Percentage of Seller’s Unit Capacity of the Designated Units, all as set forth on Attachment A. Buyer’s Allocated Percentage will remain fixed as specified on Attachment A for the entire term of this Agreement.

2. Designated Units. The designated generating units for purposes of this unit power purchase under the Sales and Purchases Tariff shall be the units set forth on Attachment A.

3. Pricing. The pricing of the capacity and energy to be sold and purchased pursuant to paragraph 2 above shall be as specified in the Sales and Purchases Tariff. Should the trust

funds set aside for Buyer's share of the responsibility for Waterford Unit 3 decommissioning be found to be insufficient to cover the aforesaid Buyer's share of the cost for such decommissioning, Buyer will promptly pay to Seller such deficit. The Buyer will fully pay for the Buyer's share of the decommissioning responsibility for Waterford Unit 3 notwithstanding the operational status of Waterford Unit 3 or any force majeure provisions. All proceeds from decommissioning collections under the Sales and Purchases Tariff pursuant to this Agreement will be deposited to the external sinking fund(s) that collect(s) Buyer's decommissioning funding.

4. Energy Entitlement. Buyer is entitled to receive on an hourly basis Buyer's Allocated Percentage (set forth in Attachment A) of the energy generated by the Designated Units.

5. Term. The term of this Agreement shall be the operating life of the Designated Units, plus any time required to decommission the Designated Units.

6. Termination. Neither party shall have the right to terminate the unit power purchase and sale required by this Agreement without the express written consent of the other party.

7. Condition Precedent. This contract shall be conditioned upon Buyer and Seller receiving all regulatory approvals required for this Agreement.

8. Notices. Unless specifically stated otherwise herein, any notice to be given hereunder shall be sent by Registered Mail, postage prepaid, to the party to be notified at the address set forth below, and shall be deemed given when so mailed.

To ELL: Entergy Louisiana, LLC
4809 Jefferson Highway
Jefferson, LA 70121
ATTN: Chief Executive Officer

To ENO: Entergy New Orleans, Inc.
1600 Perdido Street, Bldg. No. 505
New Orleans, LA 70112
ATTN: Chief Executive Officer

9. Nonwaiver. The failure of either party to insist upon or enforce, in any instance, strict performance by the other of any of the terms of this Agreement or to exercise any rights herein conferred shall not be considered as a waiver or relinquishment to any extent of its rights to assert or rely upon any such terms or rights on any future occasion.

10. Amendments. No waiver, alteration, amendment or modification of any of the provisions of this Agreement shall be binding unless in writing and signed by a duly authorized representative of both Parties.

11. Entire Agreement. This Agreement, which is entered into in accordance with the authority of the Sales and Purchases Tariff, constitutes the entire agreement between the Parties with respect to the subject matter hereof and supersedes all previous and collateral agreements or understandings with respect to the subject matter hereof.

12. Severability. It is agreed that if any clause or provision of this Agreement is held by the courts to be illegal or void, the validity of the remaining portions and provisions of the Agreement shall not be affected, and the rights and obligations of the Parties shall be enforced as if the Agreement did not contain such illegal or void clauses or provisions.

WITNESS OUR SIGNATURES as of September 1, 2016.

WITNESS: Laurie Riviere

ENERGY LOUISIANA, LLC

BY: Phillip R. May

NAME: Phillip R. May, Jr.
TITLE: President and Chief
Executive Officer

WITNESS: _____

ENERGY NEW ORLEANS, INC.

BY: _____

NAME: Charles L. Rice, Jr.
TITLE: President and Chief
Executive Officer

WITNESS OUR SIGNATURES as of September 1, 2016.

WITNESS: _____

ENTERGY LOUISIANA, LLC

BY: _____

NAME: Phillip R. May, Jr.
TITLE: President and Chief
Executive Officer

WITNESS: Kim Mitchell

ENTERGY NEW ORLEANS, INC.

BY: _____

NAME: Charles L. Rice, Jr.
TITLE: President and Chief
Executive Officer

ATTACHMENT A

SALE OF CAPACITY AND ENERGY

BY ENTERGY LOUISIANA, LLC TO ENTERGY NEW ORLEANS, INC.

This Attachment A is attached to and forms a part of the Agreement, dated as of September 1, 2016, between Entergy New Orleans, Inc. (“ENO” or “Buyer”) and Entergy Louisiana, LLC (“ELL” or “Seller”) pursuant to the Unit Power Sales and Designated Power Purchases Tariff.

During the term of this Agreement, Buyer’s Allocated Percentage of capacity and associated energy will be determined as follows:

DESIGNATED UNIT	SELLER’S UNIT CAPACITY*	BUYER’S ALLOCATED CAPACITY*	BUYER’S ALLOCATED PERCENTAGE
Waterford Unit 3	1,156.4	21.3	1.84%
Ninemile Point Unit 5	716.9	13.2	1.84%
Ninemile Point Unit 4	699.0	12.9	1.84%
Little Gypsy Unit 3	520.3	9.6	1.84%
Oxy-Taft	480.0	8.8	1.84%
Waterford Unit 1	410.9	7.6	1.84%
Waterford Unit 2	410.8	7.6	1.84%
Little Gypsy Unit 2	410.7	7.6	1.84%
Acadia Power Block 2	363.6	6.7	1.84%
Ninemile Unit 6	308.0	5.7	1.84%
River Bend 30	194.5	3.6	1.84%
Grand Gulf ELMP	178.1	3.3	1.84%
Perryville Unit 1	132.5	2.4	1.84%
Sterlington Unit 7	125.7	2.3	1.84%
Vidalia	105.3	1.9	1.84%
Ninemile Point Unit 3	103.2	1.9	1.84%
Perryville Unit 2	36.5	0.7	1.84%
Waterford Unit 4	33.4	0.6	1.84%
Grand Gulf EAMP	30.9	0.6	1.84%
Arkansas Nuclear One - Unit 2	26.7	0.5	1.84%
Arkansas Nuclear One - Unit 1	22.7	0.4	1.84%
White Bluff Unit 1	13.1	0.2	1.84%
White Bluff Unit 2	12.2	0.2	1.84%
Buras 8	12.0	0.2	1.84%
Toledo Bend Unit 1	9.9	0.2	1.84%
Toledo Bend Unit 2	9.9	0.2	1.84%
Independence Unit 1	7.2	0.1	1.84%
Montauk	3.2	0.1	1.84%
TOTAL**	6,533.5	120.2	1.84%

* Expressed in megawatts. To the extent Seller’s Unit Capacity in any Designated Unit increases or decreases, Buyer’s Allocated Capacity with respect to such Designated Unit shall adjust so that it equals the product of Seller’s Unit Capacity and Buyer’s Allocated Percentage. Buyer’s Allocated Percentage will remain fixed for the entire Term of the Agreement.

** Total may not add due to rounding.

Minimum Funding Assurance Calculation Worksheets

Plant name:

Arkansas Nuclear One, Unit 1

Year of Biennial: 2018
Termination of Operation: 2034

Month: 12
Day: 31
Year: 2018

PWR	MWth	1986\$	ECI	Base Lx	Lx	Px	Fx	Ex	Bx
	2568	\$97,598,400	132.5	1.98	0.65	2.103	2.727	0.13	12.853

NRC Minimum: \$472,416,347 **Site Specific:**

Licensee:	% Owned:	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
Energy	100.00%	\$472,416,347	\$506,719,075

**Step 1:
Earnings Credit:**

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Real Rate of Return:	Total Earnings:
\$506,719,075	2%	15.39	1.35621	\$687,217,249

Total Earnings = Trust Fund balance x (1+RRR)^{Years left in license}

Step 2:

Accumulation:	Real Rate of Return per year	Years of Annunity:	Total Annunity:
\$0	2%	0	\$0

Step 3:

Decom Period:	Real Rate of Return per year	Decom Period:	Total Real Rate of Return:	Total Earnings for Decom:
	2%	7	0.14869	\$51,089,678

Total Earnings for Decom = (1/2) x Total Earnings x [(1+RRR)^{Decom period} - 1]

Accumulation during Decom	Total of Steps 1 - 3:	Total = Total Earnings + Total Earnings for Decom
	\$738,306,926	

Excess (Shortfall)	\$	265,890,580	to NRC minimum
	\$	(7,360,500)	Less ISFSI
	\$	-	Parent Co Guaranty
	\$	258,530,080	Total Excess Financial Assurance

Minimum Funding Assurance Calculation Worksheets

Plant name:

Arkansas Nuclear One, Unit 2

Year of Biennial: 2018
Termination of Operation: 2038

Month: 12
Day: 31
Year: 2018
Month: 7
Day: 17
Year: 2038

MWth	1986\$	ECI	Base LX	LX	PX	Fx	Ex	Bx		
PWR	3026	\$101,628,800	132.5	1.98	2.62	2.103	2.727	0.13	2.37	12.853

NRC Minimum: \$491,925,138

Site Specific:

License: Energy	% Owned: 100.00%	Amount of NRC Minimum/Site Specific: \$491,925,138	Amount in Trust Fund: \$405,329,792
-----------------	------------------	--	-------------------------------------

Step 1:

Earnings Credit:

Trust Fund Balance: \$405,329,792	Real Rate of Return per year: 2%	Years Left in License: 19.54	Total Real Rate of Return: 1.47262	Total Earnings: \$596,896,025	Total Earnings = Trust Fund balance x (1+RRR)^Years left in license
-----------------------------------	----------------------------------	------------------------------	------------------------------------	-------------------------------	---

Step 2:

Accumulation:

Value of Annuity per year: See Annuity Sheet	Real Rate of Return per year: 2%	Years of Annuity: 21	Total Annuity: \$52,700,995
			Total Step 2: \$52,700,995
			Total Step 1 + Step 2: \$649,597,020

Step 3:

Decom Period:

Total Earnings: \$649,597,020	Real Rate of Return per year: 2%	Decom Period: 7	Total Real Rate of Return: 0.14869	Total Earnings for Decom: \$48,292,883	Total Earnings for Decom = (1/2) x Total Earnings x [(1+RRR)^Decom period - 1]
			Accumulation during Decom	Total of Steps 1 - 3: \$697,889,904	Total = Total Earnings + Total Earnings for Decom

Excess (Shortfall)	\$	205,964,765	to NRC minimum
	\$	(7,360,500)	Less ISFSI
	\$	-	Parent Co Guaranty
	\$	198,604,265	Total Excess Financial Assurance

Minimum Funding Assurance Calculation Worksheets

Plant name: ANO-2

Termination of Operations: 2038

Year	Annuity:	Real Rate of	Total Accumulation
2019	\$2,169,000	2.00%	\$3,159,823
2020	\$2,169,000	2.00%	\$3,097,866
2021	\$2,169,000	2.00%	\$3,037,124
2022	\$2,169,000	2.00%	\$2,977,572
2023	\$2,169,000	2.00%	\$2,919,188
2024	\$2,169,000	2.00%	\$2,861,949
2025	\$2,169,000	2.00%	\$2,805,833
2026	\$2,169,000	2.00%	\$2,750,816
2027	\$2,169,000	2.00%	\$2,696,879
2028	\$2,169,000	2.00%	\$2,643,999
2029	\$2,169,000	2.00%	\$2,592,156
2030	\$2,169,000	2.00%	\$2,541,329
2031	\$2,169,000	2.00%	\$2,491,499
2032	\$2,169,000	2.00%	\$2,442,646
2033	\$2,169,000	2.00%	\$2,394,751
2034	\$2,169,000	2.00%	\$2,347,795
2035	\$2,169,000	2.00%	\$2,301,760
2036	\$2,169,000	2.00%	\$2,256,628
2037	\$2,169,000	2.00%	\$2,212,380
2038	\$2,169,000	2.00%	\$2,169,000
Total:			\$52,700,995

Total Accumulation = Annuity x (1+RRR)^Years left from Accum

Minimum Funding Assurance Calculation Worksheets

Plant name: Grand Gulf Nuclear Station (Cooperative Energy 10%)

Year of Biennial: 2018
Termination of Operation: 2044

Month	Day	Year
12	31	2018
11	1	2044

BWR	MWth	1986\$	ECI	Base Lx	Lx	Px	Fx	Ex	Bx
	4408	\$135,000,000	132.5	1.98	2.62	2.103	2.727	2.39	13.422
			0.65					0.13	0.22

Site Specific:

\$670,792,452

Licensee:	% Owned:	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund
Entergy	10.00%	\$67,079,245	\$75,475,193

Step 1:
Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:
\$75,475,193	2.91%	25.83	\$158,357,714
		Total Real Rate of Return:	Total Earnings = Trust Fund balance x (1+RRR)ⁿ Years left in license
		2.09814	

Step 2:

Accumulation:	Real Rate of Return per year	Total Annuity:
See Annuity Sheet	2.91%	\$0
		Total Step 2
		\$0
		Total Step 1 + Step 2
		\$158,357,714

Step 3:

Decom Period:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
	2%	7	\$11,772,761
		Accumulation during Decom	Total Earnings for Decom = (1/2) x Total Earnings x [(1+RRR)ⁿ Decom period - 1]
		Total of Steps 1 - 3:	\$170,130,475
		Total = Total Earnings + Total Earnings for Decom	

Excess (Shortfall)	\$	103,051,230	to NRC minimum
	\$	(1,275,500)	Less ISFSI
	\$	-	Parent Co Guaranty
	\$	101,775,730	Total Excess Financial Assurance

Minimum Funding Assurance Calculation Worksheets

Plant name:

River Bend (Regulated 70%)

Year of Biennial: 2018
Termination of Operation: 2045

Month: 12
Day: 31
Year: 2018
Year: 2045

BWR	MWth	1986\$	ECI	Base Lx	Lx	Px	Fx	Ex	Bx
	3091	\$131,819,000	132.5	1.98	2.62	2.103	2.727	2.39	13.422
			0.65				0.13	0.22	

NRC Minimum: \$654,986,595 **Site Specific:**

License: Energy	% Owned: 70.00%	Amount of NRC Minimum/Site Specific: \$458,490,616	Amount in Trust Fund: \$406,804,761
------------------------	------------------------	---	--

Step 1: Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Real Rate of Return:	Total Earnings:
\$406,804,761	2.00%	26.66	1.69547	\$689,726,348

Total Earnings = Trust Fund balance x (1+RRR)ⁿ Years left in license

Step 2:

Value of Annuity per year	Real Rate of Return per year	Years of Annuity:	Total Annuity:
See Annuity Sheet	2.00%	8	\$85,150,688
			Total Step 2
			\$85,150,688
			Total Step 1 + Step 2
			\$774,877,036

Step 3:

Decom Period:	Real Rate of Return per year	Decom Period:	Total Real Rate of Return:	Total Earnings for Decom:
	2%	7	0.14869	\$57,606,555
			Accumulation during Decom	Total = Total Earnings + Total Earnings for Decom
			\$66,479,570	\$998,963,161

Total Earnings for Decom = (1/2) x Total Earnings x [(1+RRR)ⁿ Decom period - 1]

Total = Total Earnings + Total Earnings for Decom

Excess (Shortfall)	\$	440,472,545	to NRC minimum
	\$	(7,308,700)	Less ISFSI
	\$	-	Parent Co Guaranty
	\$	433,163,845	Total Excess Financial Assurance

Minimum Funding Assurance Calculation Worksheets

Plant name: River Bend Station (Regulated 70%)

Assumed Termination of Operations: 2025

Year	LPSC	PUCT	FERC	Annuity:	Real Rate of	Total Accumulation
2019	\$8,996,000	\$1,126,000	\$112,914	\$10,234,914	2.0%	\$11,526,176
2020	\$10,195,000	\$1,126,000	\$112,914	\$11,433,914	2.0%	\$12,623,965
2021	\$10,195,000	\$1,126,000	\$112,914	\$11,433,914	2.0%	\$12,376,436
2022	\$10,195,000	\$1,126,000	\$112,914	\$11,433,914	2.0%	\$12,133,761
2023	\$10,195,000	\$1,126,000	\$112,914	\$11,433,914	2.0%	\$11,895,844
2024	\$10,195,000	\$1,126,000	\$112,914	\$11,433,914	2.0%	\$11,662,592
2025	\$11,693,000	\$1,126,000	\$112,914	\$12,931,914	2.0%	\$12,931,914
Total:						\$85,150,688
Accumulation During Assumed Decomm Period						
2026	\$11,693,000	\$1,126,000	\$112,914	\$12,931,914		\$12,931,914
2027	\$11,693,000	\$1,126,000	\$112,914	\$12,931,914		\$12,931,914
2028	\$11,693,000	\$1,126,000	\$112,914	\$12,931,914		\$12,931,914
2029	\$11,693,000	\$1,126,000	\$112,914	\$12,931,914		\$12,931,914
2030	\$13,513,000	\$1,126,000	\$112,914	\$14,751,914		\$14,751,914
2031	\$0	\$0	\$0	\$0		\$0
2032	\$0	\$0	\$0	\$0		\$0
2033	\$0	\$0	\$0	\$0		\$0
2034	\$0	\$0	\$0	\$0		\$0
Total:						\$66,479,570

Total Accumulation = Annuity x (1+RRR)^Years left from Accum

* Decommissioning collections based on original license termination of plant assumed when orders implementing collections were issued. Collections are subject to change in the future.

Minimum Funding Assurance Calculation Worksheets

Plant name:

River Bend (Non-Regulated 30%)

Month

Day

Year

Year of Biennial:

31

2018

Termination of Operation:

8

29

2045

	MWth	1986\$	ECI	Base Lx	Lx	Px	Fx	Ex	Bx	
BWR	3091	\$131,819,000	132.5	1.98	2.62	2.103	2.727	0.13	2.39	13.422

NRC Minimum: \$654,986,595

Site Specific:

License:	% Owned:	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
Energy	30.00%	\$196,495,978	\$396,547,484

Step 1:

Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Real Rate of	Total Earnings:
\$396,547,484	2%	26.66	1.69547	\$672,335,415

Total Earnings = Trust Fund balance x (1+RRR)^Years left in license

Step 2:

Accumulation:

Value of Annuity per year	Real Rate of Return per year	Years of Annuity:	Total Annuity:
\$0	2%	0	\$0
Total Annuity	Real Rate of Return per year	Years remaining after annuity	Total Step 2
\$0	2%	26.66118721	\$0
		Total Step 1 + Step 2	\$672,335,415

Step 3:

Decom Period:

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Real Rate of	Total Earnings for Decom:
\$672,335,415	2%	7	0.14869	\$49,983,320
		Total of Steps 1 - 3:		\$722,318,735
		Total = Total Earnings + Total Earnings for Decom		

Total Earnings for Decom = (1/2) x Total Earnings x [(1+RRR)^Decom period - 1]

Excess (Shortfall)	\$	525,822,757	to NRC minimum
	\$	(3,132,300)	Less ISFSI
	\$	-	Parent Co Guaranty
	\$	522,690,457	Total Excess Financial Assurance

Minimum Funding Assurance Calculation Worksheets

Plant name:

Waterford 3

Year of Biennial: 2018
Termination of Operation: 2044

Month: 12
Day: 31
Year: 2018
Year: 2044

PWR	MWth	1986\$	ECI	Base Lx	Lx	Px	Fx	Ex	Bx
	3716	\$105,000,000	132.5	1.98	0.65	2.103	2.727	0.13	12.853

NRC Minimum: \$508,243,131

License: Energy	% Owned: 100.00%	Amount of NRC Minimum/Site Specific: \$508,243,131	Amount in Trust Fund: \$481,644,236
------------------------	-------------------------	---	--

Step 1: Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Real Rate of Return:	Total Earnings:
\$481,644,236	2%	25.96	1.67224	\$805,423,925

Total Earnings = Trust Fund balance x (1+RRR)^{Years left in license}

Step 2:

Accumulation:	Real Rate of Return per year	Years of Annuity:	Total Annuity:
Value of Annuity per year	2%	7	\$48,718,637
See Annuity Sheet			
			Total Step 2
			\$48,718,637
			Total Step 1 + Step 2
			\$854,142,562

Step 3:

Decom Period:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
	2%	7	\$63,499,379
Total Earnings:	Total Real Rate of Return:	Accumulation during Decom	Total Earnings for Decom = (1/2) x Total Earnings x [(1+RRR) ^{Decom period} - 1]
\$854,142,562	0.14869	\$54,561,000	\$972,222,940
		Total of Steps 1 - 3:	Total = Total Earnings + Total Earnings for Decom

Excess (Shortfall)	\$	463,979,809	to NRC minimum
	\$	(9,040,000)	Less ISFSI
	\$	-	Parent Co Guaranty
	\$	454,939,809	Total Excess Financial Assurance

Minimum Funding Assurance Calculation Worksheets

Plant name: Waterford Generating Station, Unit 3

Assumed Termination of Operations:

2025

Year	LPSC	CNO	Annuity:	Real Rate of	Total Accumulatio
2019	\$6,688,000	\$133,000	\$6,821,000	2.00%	\$7,681,554
2020	\$7,580,000	\$151,000	\$7,731,000	2.00%	\$8,535,649
2021	\$7,580,000	\$151,000	\$7,731,000	2.00%	\$8,368,283
2022	\$7,580,000	\$151,000	\$7,731,000	2.00%	\$8,204,199
2023	\$7,580,000	\$151,000	\$7,731,000	2.00%	\$8,043,332
2024	\$7,580,000	\$151,000	\$7,731,000	2.00%	\$7,885,620
Total:					\$48,718,637

Total Accumulation = Annuity x (1+RRR)^ Years left from Accum

Accumulation During Assumed Decomm Period	Total:
2025 \$8,867,000	\$0
2026 \$8,867,000	\$0
2027 \$8,867,000	\$0
2028 \$8,867,000	\$0
2029 \$8,867,000	\$0
2030 \$10,246,000	\$0
2031 0	\$0
Total: \$54,581,000	

* Decommissioning collections based on original license termination of plant assumed when orders implementing collections were issued. Collections are subject to change in the future.