

10 CFR 50.75 10 CFR 50.82

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

> Fort Calhoun Station, Unit No. 1 Renewed Facility Operating License No. DPR-40 NRC Docket No. 50-285

Fort Calhoun Station Independent Spent Fuel Storage Installation NRC Docket No. 72-054

Subject: Fort Calhoun Station, Unit No. 1, 2020 Annual Decommissioning Funding / Irradiated Fuel Management Status Report

References:

- Letter from OPPD (T. Burke) to USNRC (Document Control Desk), "Certification of Permanent Cessation of Power Operations," dated August 25, 2016 (LIC-16-0067) (ML16242A127)
- Letter from OPPD (T. Burke) to USNRC (Document Control Desk), "Certification of Permanent Removal of Fuel from the Removal of Fuel from the Reactor Vessel," dated November 13, 2016 (LIC-16-0074) (ML16319A254)
- Letter from OPPD (M. J. Fisher) to USNRC (Document Control Desk), "Fort Calhoun Station, Unit No. 1, Post-Shutdown Decommissioning Activities Report," dated December 16, 2019 (LIC-19-0007)(ML19351E355)

In accordance with 10 CFR 50.75(f)(1), 10 CFR 50.82(a)(8)(v), 10 CFR 50.82(a)(8)(vi), and 10 CFR 50.82(a)(8)(vii), Omaha Public Power District (OPPD) is submitting the annual status of decommissioning funding, status of funding for managing irradiated fuel, and the financial assurance status report.

In References 1 and 2, OPPD certified permanent cessation of power operation and permanent removal of fuel from the reactor vessel for the Fort Calhoun Station, Unit 1, (FCS). In Reference 3, OPPD submitted its Post-Shutdown Decommissioning Activities Report (PSDAR) containing a site-specific Decommissioning Cost Estimate (DCE) pursuant to 10 CFR 50.82(a)(4)(i) and 10 CFR 50.82(a)(8)(iii).

Enclosure 1 provides the 2020 Annual Decommissioning Funding / Irradiated Fuel Management Status Report.

No commitments to the NRC are made in this letter.

If you should have any questions about the enclosed reports, please contact Mr. Bradley H. Blome, Director Licensing & Regulatory Assurance, at 402-533-6041.

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Respectfully,

Mary J. Fisher Vice President, Energy Production & Nuclear Decommissioning

MJF/cac

Enclosures:

- 1. 2020 Annual Decommissioning Funding / Irradiated Fuel Management Status Report
- c: S. A. Morris, NRC Regional Administrator, Region IV J. D. Parrott, NRC Senior Project Manager C. D. Steely, NRC Senior Health Physicist, Region IV

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ENCLOSURE 1

OMAHA PUBLIC POWER DISTRICT

FORT CALHOUN STATION UNIT NO.1

2020 ANNUAL DECOMMISSIONING FUNDING STATUS REPORT

As of December 31, 2019

OMAHA PUBLIC POWER DISTRICT FORT CALHOUN STATION UNIT NO. 1 2020 ANNUAL DECOMMISSIONING FUNDING STATUS REPORT as of December 31, 2019

10 CFR 50.75 (f) and 50.82(8)

As required by 10 CFR 50.75 (f) and 50.82(8), OPPD reports the following information:

A. Current Decommissioning Cost Estimate

As required by 10 CFR 50.82, OPPD completed a site-specific Decommissioning Cost Estimate (DCE), contracting with Energy Solutions LLC for the preparation of the report. The study was performed under the DECON decommissioning alternative method. Based on the DCE (completed with 2019 data), the total estimated cost to decommission Fort Calhoun Station Unit No. 1 is **\$1,037,139,000** in 2019 dollars. Of that total cost estimate, the current site-specific cost estimate for license termination expenses (LTE) of Fort Calhoun Station Unit No. 1 is **\$651,160,000**, the current separate estimate of site restoration is **\$42,789,000** and the current separate estimate of spent fuel management costs is **\$343,190,000**.

The total cost estimate reported in 2018 dollars was **\$1,213,203,000** in the DCE, using the SAFSTOR decommissioning alternative method as required by 10 CFR 50.82(a)(8)(iii). The cost estimate included monies anticipated to be spent for operating license termination (radiological remediation), interim spent fuel storage and site restoration activities.

B. Current Decommissioning Fund Balance

The total OPPD Decommissioning Fund(s) balance as of December 31, 2019 was **\$549,034,772**. OPPD maintains two separate trust accounts, one for the NRC minimum decommissioning amount as outlined in 10 CFR 50.75 (c) and one for other costs including additional radiological, site restoration and spent fuel management as determined by the consultant cost study. As of December 31, 2019, the balance in the fund for the NRC minimum decommissioning amount was **\$317,041,026**. As of December 31, 2019, the balance in the balance in the funds accumulated for other decommissioning costs was **\$231,993,746**.

The two trust funds are not commingled and the funds accumulated for the additional decommissioning cost are not included as funds for the NRC minimum decommissioning amount. The funds accumulated for the additional decommissioning costs including additional radiological, site restoration and spent fuel management are available for radiological decommissioning without prior approval by a State regulatory authority and are not subject to disapproval for radiological decommissioning by a State regulatory authority.

C. Annual Decommissioning Collections

There were no annual collections for 2016. The annual collections for 2017, 2018 and 2019 were \$147,469,000, \$156,000,000 and \$143,004,000, respectively. The total expected future collections for decommissioning are \$540,994,067 beginning in 2020 as shown in Attachment B, Column 1. The revenue source for collections is OPPD "cost-of-service" electric rates.

D. Rates Used to Escalate Decommissioning Costs and Fund Balances

The rates used for the escalation of the site-specific DCE and earnings rates on the Decommissioning Fund through the completion of decommissioning are shown in Attachment C. Congressional Budget Office data provided the basis for the DCE inflation rate forecasts. Decommissioning costs are inflated using a blending of the Congressional Budget Office's forecasts for Consumer Price Index, All-Urban and Employment Cost Index, Total Private Compensation. Decommissioning trust earnings are projected using Barclay's forecasted yield on 5-year Treasury notes.

E. Contracts to Help Fund Decommissioning

OPPD does not have any contracts pursuant to 10 CFR 50.75 (e)(1)(ii)(C) and is not relying on contracts with a "non-bypassable charge" to fund decommissioning.

F. Modifications to Method of Providing Financial Assurance

There have been no modifications to OPPD's method of providing financial assurance since the decommissioning funding plan began in 1982 and continued pursuant to NRC Regulations in 1990.

			nmissioning Funding HA PUBLIC POWE			·····		
			ATTACHMENT	A				
	Sur	nmai	ry Information as of De 10 CFR 50.82 (a) (8)	cember (v)-(vii)	31, 2019			
Decommissioni	ng Trust Fund Balances 50.75(f)(1) 50.	82(a)(8)(v)(A)					
Year								
2019	Decommissioning Trust '90 Plan	\$	317,041,026			As of 12/31/19		
2019	Decommissioning Suppl '92 Plan	\$	231,993,746			As of 12/31/19		
2010		\$	549.034.772					
		1.7	••••••••					
Other Financial	Assurance Methods Being Relied	Upo	on 50.75(f)(1)			· · · · · · · · · · · · · · · · · · ·		
	NONE							
			50 ml			· · · · · · · · · · · · · · · · · · ·		
Prior Years Dec	ommissioning Expenditures 50.8	2(a)(8)(v)(A)					
Year	Decom Expenditures		Spent Fuel		Total	Comments		
2016	\$ 574,826	\$		\$		2016 Cost in as Spent Dollars		
2017	\$ 115,251,711		4,475,227	\$		2017 Cost in 2017 Dollars		
2018	\$ 83,845,046	<u> </u>	30,408,102			2018 Cost in 2018 Dollars		
2019	\$ 72,491,721		17,382,073			2019 Cost in 2019 Dollars		
TOTAL	\$ 272,163,304		52,265,402		324,428,706			
		1 +		7.		<u> </u>		
Prior Voar Expo	nditures Variance to Estimated C	oct l	50 92(a)/9)(v)/B)			10 V*2		
Year	Decom Expenditures	USL	Spent Fuel		Total	Comments		
2019 Estimated	\$ 102,837,779	\$		\$	123,537,449	connients		
2019 Actual	\$ 72,491,721		17,382,073		89,873,794			
/ariance	\$ 30,346,058		3,317,597		33,663,655			
ananee	ψ 30,040,000	_ψ_	0,017,007	Ψ	00,000,000			
Remaining Deco	Variance: Due to timing difference)(8)(v)(B) /(vii)(B)					
Year	Decom Expenditures		Spent Fuel		Total	Comments		
2020	\$ 693,949,000	\$	343,190,000	\$	1,037,139,000	Estimated in 2019 Dollars		
Decommissioni DECON	ng Criteria Upon Which the Estim	ate i	s Based 50.75(f)(1) 50.	82(a)(8)(v	/)(B)			
Any Modification	n to Method of Providing Financia	l As	surance 50.75(f)(1) 50.8	32(a)(8)(v	r)(C)			
Any Material Ch No	anges to Trust Agreement Since	Prev	vious Report 50.75(f)(1)	50.82(a)	(8)(v)(D)	· · · · · · · · · · · · · · · · · · ·		
Need for Additic	onal Financial Assurance 50.75(f)	(1) 5	0.82(a)(8)(vi) (vii)(C)			••••••••••••••••••••••••••••••••••••••		

OMAHA PUBLIC POWER DISTRICT FORT CALHOUN STATION UNIT NO. 1 2019 ANNUAL DECOMMISSIONING FUNDING STATUS REPORT

ATTACHMENT B

Decommissioning Fund Annual Collections, Earnings, Expenditures and Balances

	C	olumn 1												Column 7
		al Annual		Column 2		Column 3		Column 4		Column 5		Column 6	5	Supplemental
		nmissioning	F	Earnings on Trust	Lic	cense Termination	Spe	nt Fuel Management		Site Restoration	De	commissioning	De	commissioning
Year	Fund C	Collections ¹		Funds		Expenditures		Expenditures		Expenditures	Trus	t Fund Balance ²	Trus	st Fund Balance ³
2019					\$		\$	-	\$		\$		\$	231,993,746
2020	\$	112,552,000	\$	9,055,253	\$	109,586,935	\$	29,406,991			\$	321,473,010	100	210,175,089
2021	\$	121,148,000	\$	10,238,682	\$	94,192,352	\$	8,141,701	\$	4,354,100	\$	326,686,169	\$	229,660,459
2022	\$	143,271,000	\$	12,208,632	\$	96,745,326	\$	8,384,522	\$	4,483,958	\$	332,614,247	\$	269,598,207
2023	\$	164,023,067	\$	13,601,940	\$	116,063,424	\$	8,626,836	\$	12,812,910	\$	300,418,503	\$	341,915,789
2024	\$	-	\$	12,850,791	\$	152,259,972	\$	8,867,195	\$	10,918,794	\$	153,339,596	\$	329,799,526
2025	\$	-	\$	9,682,019	\$	137,840,406	\$	9,105,204	\$	15,845,590	\$	17,533,697	\$	312,496,244
2026	\$	-	\$	8,101,641	\$	13,829,692	\$	10,447,616	\$	359,718	\$	3,974,786	\$	309,519,771
2027	\$	5	\$	8,319,649	\$	-	\$	10,718,828	\$		\$	4,082,105	\$	307,013,273
2028	\$	-	\$	8,740,083	\$		\$	10,996,122	\$		\$	4,198,853	\$	304,640,487
2029	\$		\$	9,156,624	\$		\$	11,279,746	\$		\$	4,325,658	\$	302,390,559
2030			\$	9,088,113	\$	-	\$	11,570,642	\$	-	\$	4,456,293		299,777,396
2031			\$	9,008,632		-	\$	11,869,229	\$		\$	•••••••••••	\$	296,782,219
2032		-	\$	8,917,614		•	\$	12,175,717			\$	4,729,518	- C	293,385,471
2033			\$	8,814,469	\$	-	\$	12,490,321		-	\$		\$	289,566,787
2034		-	\$	8,698,582	\$	-	\$	12,813,260	\$	-	\$	5,019,494	1.0	285,304,964
2035			\$	8,569,313	\$	5	\$	13,144,761	\$	-	\$	5,171,083		280,577,927
2036		-	\$	8,425,996	\$	-	\$	13,485,056	\$	-	\$	5,327,250		275,362,700
2037		-	\$	8,267,937		-	\$	13,834,384	\$	-	\$	5,488,132		269,635,370
2038		-	\$	8,117,649	\$		\$ \$	12,654,331	\$	-	\$	5,653,874		264,932,947
2039 2040		275	\$ \$	7,975,685	\$ \$	-	\$ \$	12,982,560	\$ \$		\$ \$	5,824,621 6,000,525	ې \$	259,755,325
2040			\$ \$	7,819,390 7,648,062		-	\$ \$	13,319,519 13,665,446	\$		\$ \$	6,181,740		254,079,292 247,880,692
2041			\$	7,460,975	\$	-	\$	14,020,585	\$		\$		\$	247,880,892
2042		-	\$	7,257,369	\$		\$	14,385,188	\$		\$	6,560,756		233,814,247
2045			Ş	7,036,456		-	\$	14,759,513	\$	-	\$	6,758,890		225,893,055
2045			\$	6,797,417	\$	-	ŝ	15,143,825	\$	-	\$		ŝ	217,342,529
2046		-	\$	6,539,397	\$		\$	15,538,398	\$	-	\$	7,173,292		208,133,245
2047		-	\$	6,261,510	\$	-	\$	15,943,512	\$	-	\$		\$	198,234,610
2048		-	\$	5,962,833	ŝ		\$	16,359,456	\$	-	\$	7,613,101		187,614,812
2049	\$		\$	5,642,406	\$	-	\$	16,786,525	\$	÷	\$	7,843,017		176,240,778
2050	\$		\$	5,299,233	\$		\$	17,225,026	\$		\$	8,079,876	\$	164,078,125
2051	\$	-	\$	4,932,275	\$	-	\$	17,675,271	\$	-	\$	8,323,888	\$	151,091,117
2052	\$	-	\$	4,540,456	\$		\$	18,137,583	\$		\$	8,575,269	\$	137,242,608
2053	\$		\$	4,122,654	\$	-	\$	18,612,292	\$		\$	8,834,242	\$	122,493,996
2054	\$	ē	\$	3,677,707	\$	-	\$	19,099,740	\$	6	\$	9,101,037	\$	106,805,169
2055	\$	-	\$	3,204,403	\$	-	\$	19,600,276	\$		\$	9,375,888	\$	90,134,445
2056	\$	-	\$	2,701,487	\$		\$	20,114,260	\$	-	\$	9,659,040	\$	72,438,519
2057	\$	-	\$	1,923,215	\$	-	\$	36,829,856	\$	-	\$	9,950,743		37,240,176
2058		-	\$	854,474	\$	-	\$	37,794,137	\$	-	\$	10,251,255		(0)
2059	•		\$	152,491		10,403,746	\$	-	\$		\$		\$	(0)
2060	<u> </u>		\$	•	\$	-	\$	-	\$		\$	(0)	\$	(0)
	\$	540,994,067	\$	287,673,518	Ş	730,921,854	\$	598,005,434	\$	48,775,069				

Annual Decommissioning Fund Collections for 2019 were \$143,004,000 with Decommissioning Expenditures of \$89,873,794

Beginning in 2023, amounts needed to cover LTE expenses will be transferred to the Decommissioning Trust (90) Fund from the Decommissioning Supplemental (92) Fund.

3 All collections and expenditures flow through the Decommissioning Supplemental Trust through 2022. Beginning in 2023, LTE expenses are paid out of the Decommissioning Trust (90) fund.

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ATTACHMENT C

Decommissioning Funds Annual Inflation and Earning Rates

	Inflation	Earnings					
Year	Rate	Rate					
2020	2.84%	1.69%					
2021	2.96%	1.90%					
2022	2.98%	2.13%					
2023	2.88%	2.21%					
2024	2.78%	2.31%					
2025	2.67%	2.41%					
2026	2.61%	2.55%					
2027	2.58%	2.70%					
2028	2.57%	2.86%					
2029	2.56%	3.02%					
2030	2.56%	3.02%					
2031	2.56%	3.02%					
2032	2.56%	3.02%					
2033	2.56%	3.02%					
2034	2.56%	3.02%					
2035	2.56%	3.02%					
2036	2.56%	3.02%					
2037	2.56%	3.02%					
2038	2.56%	3.02%					
2039	2.56%	3.02%					
2040	2.56%	3.02%					
2041	2.56%	3.02%					
2042	2.56%	3.02%					
2043	2.56%	3.02%					
2044	2.56%	3.02%					
2045	2.56%	3.02%					
2046-2059	2.56%	3.02%					