BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

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In the Matter of the Application of Ohio Power Company to update its gridSMART Phase 2 Rider rates.

Case No. 17-1156-EL-RDR

APPLICATION

- Ohio Power Company ("AEP Ohio" or the "Company) is an electric light company, as that term is defined in §§4905.03 and 4928.01(A) (7), Ohio Rev. Code.
- 2. In AEP Ohio's 2008 Electric Security Plan proceedings (*ESP I*) the Company proposed and was granted approval for gridSMART Phase I, a smart grid deployment program within AEP Ohio's service territory. In its Opinion and Order in the *ESP I* case, the Commission authorized AEP Ohio to establish a gridSMART rider, subject to annual reconciliation.¹
- 3. By Order issued on August 8, 2012, the Commission approved, with certain modifications, AEP Ohio's modified ESP II application which included the continuation of the current gridSMART rider mechanism, subject to annual true-up and reconciliation based on the Company's prudently incurred costs.²

¹ *In re AEP Ohio ESP I*, Case Nos. 08-917-EL-SSO and 08-918-EL-SSO, Opinion and Order (March 18, 2009), at 37-38. A complete recounting of the gridSMART rider approval process was included in AEP Ohio's initial application to update its gridSMART rider, filed in Case No. 10-164-EL-RDR on February 11, 2010, and a subsequent amendment filed on July 21, 2010. On August 11, 2010, the Commission issued its Finding and Order in that case approving the gridSMART rider as a fixed monthly, per-bill charge.

² In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company for Authority to Establish a Standard Service Offer Pursuant to Section

- 4. On February 2, 2015, AEP Ohio filed an application to update its gridSMART rider rates in Case No. 15-240-EL-RDR.
- 5. By Order issued in the ESP III (Case No. 13-2385-EL-SSO et al. February 25-2015 Opinion and Order at 50-52) the Commission granted the Company's request to continue the gridSMART rider with certain modifications as proposed by the Company. Consistent with the Commission's directive in the ESP II (Case No. 11-346-EL-SSO Jan. 30, 2013 Entry on Rehearing at 53.), the Company, within 90 days after the expiration of ESP II, was required to file an application for review and reconciliation of the final year of the gridSMART Phase 1 rider. Additionally, in the ESP III Order the Commission approved AEP Ohio's request to transfer the approved capital cost balance into the DIR, and to also transfer any unrecovered O&M balance into the gridSMART Phase 1 costs.
- 6. On August 28, 2015 AEP Ohio filed its Final application in to update its gridSMART rider rates in Case No. 15-1513-EL-RDR. The filing reflected actual project spending and recovery from January through May 2015 and capital carrying costs from June through December 2015.
- 7. On February 1, 2017 the Commission issued an Opinion and Order in gridSMART Case No. 13-1939-EL-RDR (*Phase 2 Order*) granting approval of the collections of costs incurred for the gridSMART Phase 2 project through the Phase 2 rider. The Phase 2 Order directed that upon Commission

4928.143, Revised Code, in the Form of an Electric Security Plan, Case No. 11-346-EL-SSO et al., Opinion and Order (August 8, 2012) at 61-63.

approval of the gridSMART Phase 2 Stipulation, the Company will move the approved Phase 1 assets to the DIR and file for any unrecovered O&M expenses in a gridSMART Phase 2 rider application.

- 8. On April 19, 2017 the Commission issued a Finding and Order in Case Nos. 15-240-EL-RDR and 15-1513-EL-RDR (*Phase 1 Order*). The Order modified and approved actual gridSMART Phase 1 O&M through May of 2015, and Capital through December 2015. The new rates commenced on April 28, 2017.
- 9. On April 28, 2017 the Company submitted its gridSMART Phase 2 rider updated application for the first quarter 2017. In accordance with the Phase 2 Order the Company moved the approved Phase 1 assets to the DIR as of April 1, 2017. The table below outlines the Phase 1 changes made as a result of the Phase 1 and Phase 2 orders:

Phase 1 Order- Compliance	Phase 2 Order– 1 st Quarter 2017 Update							
• O&M through May 2015	Ongoing O&M June 2015 through March 2017							
• Capital Carrying Charges through December 2015	• Capital Carrying Charges from January 2016 through March 2017							
• Rider Collection through December 2015	Rider Collections January 2016 through March 2017							

10. The Company hereby submits its gridSMART Phase 2 rider application updated for the second quarter 2017. Attachment 1 reflects the actual Phase 2
O&M spending and Capital Carrying Charges from April through June 2017. The update includes the Capital Carrying Charges related to the movement of twenty-two thousand additional AMI meters to Phase 2 as Ordered in the

Phase 2 Order (at Page 14), and the allocation between the Residential and Non-Residential classes as Ordered in the Global Settlement (Case No. 10-2929-EL-RDR et.al). The filing does not adjust the rider revenue from the first quarter because the first quarter update only included O&M and Capital Carrying Charges transferred from Phase 1 that were calculated to be passed back over a one-year period commencing Cycle 1 June 2017. The Company will make the adjustment at the end of the one-year period. Workpaper 1 outlines the current status of Rider Revenue Collections from the 1st Quarter filing. Workpapers 2 and 3 detail the calculation of carrying charges for Phase 2 Capital Spending and the additional twenty-two thousand meters mentioned above. Attached as Attachment 2 are revised tariff sheets 485-1 and 485-1D, reflecting the revised gridSMART Phase 2 Rider rates.

- 11. The Phase 2 Order also required quarterly filings with automatic approval 30 days after the filing unless otherwise determined by the Commission. Therefore, absent Commission intervention the Company requests the rate from this filing be effective Cycle 1 September 2017.
- 12. Because the authority to make this filing stems from the Commission's directives in the ESP II and III proceedings, AEP Ohio does not believe a hearing in this matter is necessary.
- 13. AEP Ohio's gridSMART rider has been previously approved as just and reasonable and is authorized as part of its ESP. Therefore, AEP Ohio respectfully requests that the Commission approve this application.

Respectfully submitted,

<u>/s/Steven T. Nourse</u> Steven T. Nourse American Electric Power Service Corporation 1 Riverside Plaza, 29th Floor Columbus, Ohio 43215 Telephone: (614) 716-1608 Facsimile: (614) 716-2950 Email: <u>stnourse@aep.com</u>

Counsel for Ohio Power Company

Ohio Power Company gridSMART Phase 2 2nd Quarter 2017 True-up

Line No.	gridSMART Incremental Investment	Actual gridSMART Spending	Annual Carrying Charge			dSMART
1 2 3	Apr 2017 - Jun 2017: Phase 2: O&M (AMI, VVO, DACR) Total	\$814,040 \$814,040			\$ \$	<u>814,040</u> 814,040
					-	dSMART
	Phase 2: Incremental Investment Apr - Jun 2017	gridSMART Spending	Annual Carrying Charge			e Requirement
4	Capital - 15 Year Life- AMI		\$ 122,847		\$	122,847
5	Capital - 30 Year Life - VVO		\$ -		\$	-
6	Capital - 30 Year Life - DACR		\$ -		\$	-
7	Misc. Capital		\$ -		\$	-
8	Total Capital				\$	122,847
9			Total		\$	936,886
10			Tax Gross Up Rate			100.881%
11			Revenue Requirement		\$	945,140
12 13	Residential Allocation Non-Res Base Allocation	45% 55%	Residential Revenue Requirement Non-Res Revenue Requirement			425,313 519,827
10		0070	Non ries nevenue riequirement	2016		010,027
14			Residential Customers	1,278,483		0.33
15			Non-Residential Customers	189,247		2.75
		2nd Quarter 2017 Filing -	Quarterly Collection			
16		Attachment 1	Residential Customers	Monthly Rate	\$	0.11
17		Attachment 1	Non-Residential Customers	Monthly Rate		0.92
		1st Quarter 2017 Filing -	Annual Collection			
18		Attachment 1 (a)	Residential Customers	Monthly Rate	\$	0.14
19		Attachment 1 (a)	Non-Residential Customers	Monthly Rate		1.12
		1st Quarter 2017 Filing -	Annual Collection (Refund)			
20		Attachment 2 (b)	Residential Customers	Monthly Rate	\$	(0.77)
21		Attachment 2 (b)	Non-Residential Customers	Monthly Rate		(3.25)
22		Total	Residential Customers	Monthly Rate	\$	(0.52)
23		Total	Non-Residential Customers	Monthly Rate		(1.21)

(a) gridSMART Phase 1 June 2015 through March 2017 O&M transferred to gridSMART Phase 2 (per February 1, 2017 Opinion and Order in Case No. 13-1939-EL-RDR).

(b) gridSMART Phase 1 2016 through March 2017: Capital Carrying Charges transferred to gridSMART Phase 2 less Rider Collections (per February 1, 2017 Opinion and Order in Case No. 13-1939-EL-RDR).

1st-2nd Revised Sheet 485-1 Cancels Original 1st Revised Sheet No. 485-1

P.U.C.O. NO. 20

gridSMART PHASE 2 RIDER

Effective with the first billing cycle of <u>June September</u> 2017, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the monthly gridSMART Phase 2 charge. This rider shall be adjusted periodically to recover amounts authorized by the Commission.

Residential Customers

(\$0.63)(\$0.52)

Non-Residential

(\$2.13)(\$1.21)

Filed pursuant to Order dated February 1, 2017 in Case No. 13-2385-EL-SSO

Issued: April-July 28, 2017

Effective: Cycle 1 June September 2017

Issued by Julia Sloat, President AEP Ohio

^{1st-2nd} Revised Sheet 485-1D Cancels Original 1st Revised Sheet No. 485-1D

P.U.C.O. NO. 20

OAD – gridSMART PHASE 2 RIDER (Open Access Distribution – gridSMART Phase 2 Rider)

Effective with the first billing cycle of <u>June-September</u> 2017, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the monthly gridSMART Phase 2 charge. This rider shall be adjusted periodically to recover amounts authorized by the Commission.

Residential Customers

(\$0.63)(\$0.52)

Non-Residential

(\$2.13)<u>(</u>\$1.21)

Filed pursuant to Order dated February 1, 2017 in Case No. 13-2385-EL-SSO

Issued: April July 28, 2017

Effective: Cycle 1 June September 2017

Issued by Julia Sloat, President AEP Ohio

	17-1156-EL-RDR Jarter True-up	Monthly Rate	Customer Bills	Actual June 2017 Rider Revenue	Annual Revenue Requirement	Over / (Under) Collection
Attachment 1	Res Customers	\$ 0.14	1,280,643	\$179,290.03	\$2,085,660.01	(\$1,906,369.98)
Attachment 1	Non-Res Customers	\$ 1.12	188,509	\$211,130.58	\$2,549,140.01	(\$2,338,009.43)
Total				\$390,420.62	\$4,634,800.02	(\$4,244,379.40)
Attachment 2	Res Customers	\$ (0.77)	1,280,643	(\$986,095.17)	(\$11,851,905.83)	\$10,865,810.66
Attachment 2	Non-Res Customers	\$ (3.25)	188,509	(\$612,655.71)	(\$7,388,952.93)	\$6,776,297.22
Total				(\$1,598,750.89)	(\$19,240,858.76)	\$17,642,107.87
Total	Res Customers	\$ (0.63)	1,280,643	(\$806,805.14)	(\$9,766,245.82)	\$8,959,440.68
Total	Non-Res Customers	\$ (2.13)	188,509	(\$401,525.13)	(\$4,839,812.92)	\$4,438,287.79
Total				(\$1,208,330.27)	(\$14,606,058.74)	\$13,397,728.47

Calculation of Rider Revenue Collections from 1st Quarter Filing

Workpaper 2 Page 1 of 4

	RT Phase 2 NBV			Motore In C-	100						
eprecia	tion Tables		AMI	Meters - In Serv	ICÊ						
sset Val	ue			. –							
ear Life Ionthly R	late	Gross		15 0.683%							
y 11		Capital		0.000 /8			Annual	Return	Depreciation	Property	Annual
		Expenditure	Cumulative		Depreciation	Accumulated	Depreciation	Carrying	Carrying	Carrying	Carrying
2017	January	(booked cost)	Gross Plant	Net Plant	Reserve	Depreciation	Expense	Charge Rate	Charge Rate	Charge	Charge
	February										
	March	¢4,000,07	1 000 07	4 000 50	¢17.07	47.07		10.74	0.47	0.11	00.0
	April May	\$1,239.87 \$7,516.82	1,239.87 8,756.69	1,222.50 8,602.31	\$17.37 \$137.01	17.37 154.38		10.74 75.56	8.47 59.84	3.11 21.86	22.3 179.5
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	November	-	-	-	-	-	* - - -	-	-	-	
2018	December January	-	-	-			\$154.38	-		-	
	February	-	-	-	-	-		-	-	-	
	March	-	-	-	-	-		-	-	-	
	April May	-	-	-	-			-	-	-	
	June	-	-	-	-	-		-	-	-	
	July	-	-	-	-	-		-	-	-	
	August September	-		-	-	-		-	-	-	
	October	-	-	-	-	-		-	-	-	
	November	-	-	-	-	-		-	-	-	
2019	December January	-	-		-		-		-	-	-
2010	February	-	-	-	-	-		-	-	-	
	March	-	-	-	-	-		-	-	-	
	April May										
	June	-	-	-	-	-		-	-	-	
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	August September	-	-	-	-	-		-	-	-	
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2020	December January					-	-	-		-	
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gridSMART Phase 2 NB

	RT Phase 2 NBV tion Tables	
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	RT Phase 2 NBV ion Tables		Volt	t Var (VVO) - In Serv	vice						
Asset Valı Year Life Monthly R		Gross Capital	Cumulative	30 0.242%		Accumulated	Annual Depreciation	Return Carrying	Depreciation Carrying	Property Carrying	Annual Carrying
2017	January	Expenditure	Gross Plant	Net Book Value	Depreciation	Depreciation	Expense	Charge Rate	Charge Rate	Charge	Charge
	February March										
	April May	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00
	June	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	July August	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00
	September	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	October November	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00
2018	December January	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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2019	January	-	-	-		-		-	-	-	-
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2020	January February					-					
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	April May		-			-					
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	October November	-	-	-		-		-	-	-	
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2021	January February	-	-			-		-	-	-	
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	April May	-	-	-		-		-	-	-	
	June July	-	-	-	-	-		-	-	-	
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gridSMART Phase 2 NBV Depreciation Tables

Capital Derivative Constraints Acconductor Derivation Comping	dSMART Phase 2 NBV preciation Tables		Distribu	ition Automation - In Se	ervice					9	
Mathema Procession Concession Concession <thconcession< th=""> Concession <thc< th=""><th>set Value ar Life</th><th></th><th></th><th>30</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thc<></thconcession<>	set Value ar Life			30							
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March		Expenditure	Gross Plant	Net Book Value	Depreciation	Depreciation	Expense	Charge Hate	Charge Rate	Charge	Charge
Neember So 00 S0 00 <	March April May June July August September	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00		\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
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gridSMART Phase 2 NBV Depreciation Tables

Asset V Year Lif Monthly

Workpaper 2 Page 4 of 4

	tion Tables		Mico Coni	tal - Capitalized	Softwara						
Deprecia	tion Tables		Misc. Capi	tai - Capitalized	Software						
Asset Val	ue										
Year Life				5							
Monthly F	late			1.667%							
		Gross					Annual	Return	Depreciation	Property	Annual
		Capital	Cumulative			Accumulated	Depreciation	Carrying	Carrying	Carrying	Carrying
		Expenditure	Gross Plant	Net Plant	Depreciation	Depreciation	Expense	Charge Rate	Charge Rate	Charge	Charge
2017	January										
	February										
	March		* ** **	* ****	* ** ***	** **		*• • • •	* ****	* ****	* *****
	April	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	May June	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00
		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00 \$0.00	\$0.00
	July August	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	September	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	October	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	November	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	December	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2018	January	-	-	-				-	-		
	February	-	-	-	-	-		-	-	-	
	March	-	-	-	-	-		-	-	-	
	April	-	-	-	-	-		-	-	-	
	May	-	-	-	-	-		-	-	-	
	June	-	-	-	-	-		-	-	-	
	July	-	-	-	-	-		-	-	-	
	August	-	-	-	-	-		-	-	-	
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	October November	-	-	-	-	-		-	-	-	
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2010	February		-	-	-	-		-	-	-	
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	July	-	-	-	-	-		-	-	-	
	August		-	-	-	-		-	-	-	
	September	-	-	-	-	-		-	-	-	
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2020	January February			-		-		-	-	-	
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	December	-	-	-	-	-	-	-	-	-	-
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	July	-	-	-	-	-		-	-	-	
	August		-	-	-	-		-	-	-	
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	October	-	-	-	-	-		-	-	-	
	November	-	-	-	-	-		-	-	-	
	December	-	-	-	-	-	-	-	-	-	-
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	February	-	-	-	-	-		-	-	-	
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	July August		-	-	-	-		-	-	-	
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	November		-	-	-	-				-	
	December	I .	-	-	-				-	-	-

December 2024 January

Workpaper 3

	RT Phase 2 NBV ion Tables		22	2,000 AMI Meters							
Asset Valu Year Life Monthly R		Gross Capital		15 0.683%			Annual	Return	Depreciation	Property	Annnual
2017	⁷ April May	Expenditure (booked cost) \$5,967,610.89 \$0.00	Cummulative Gross Plant 5,967,610.89 5,967,610.89	Net Plant 1,835,388.46 1,794,609.78	Depreciation Reserve \$40,778.67 \$40,778.67	Accumulated Depreciation 4,132,222.43 4,173,001.11	Depreciation Expense	Carrying Charge Rate 16,120.83 15,762.66	Carrying Charge Rate 40,778.67 40,778.67	Carrying Charge 4,664.95 4,561.30	Carrying Charge 61,564.45 122,667.08
	June July August	-	-	-	-	-		-	-	-	
	September October November	-	-	-	-	-		-	-	-	
2018	December January	-					\$81,557.35		-		
	February March April	-	-	-	-	-		-	-	-	
	May June July	-	-	-	-	-		-	-	-	
	August September October	-	-	-	-	-		-	-	-	
2019	November December January		-	-	-		-	-		-	-
2019	February March April	-	-	-	-			-	-	-	
	May June July	-	-	-	-	-		-	-	-	
	August September October	-	-	-	-	-		-	-	-	
2020	November December January	-	-	-	-		-	-	-	-	-
2020	February March April	-	-	-	-			-	-	-	
	May June July	-	-	-	-	-		-	-	-	
	August September October	-	-	-	-	-		-	-	-	
2021	November December January		-	-	-		-	-	-	-	-
	February March April	-	-	-	-	-		-		-	
	May June July	-	-	-	-	-		-	-	-	
	August September October	-	-	-	-	-		-	-	-	
2022	November December January		-	-	-		-	-	-	-	-
	February March April	-	-	-	-	-		-	-	-	
	May June July	-	-	-	-	-		-	-	-	
	August September October	-	-	-	-	-		-	-	-	
2023	November December January	-	-	-	-		-		-	-	-
	February March April May	-	-	-	-	-		-	-	-	
	May June July	-	-	-	-	-		-	-	-	
	August September October	-	-	-	-	-		-	-	-	
2024	November December January	-	-		-				-	-	-

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

7/28/2017 2:44:40 PM

in

Case No(s). 17-1156-EL-RDR

Summary: Application of Ohio Power Company to update its gridSMART Phase 2 Rider Rates electronically filed by Mr. Steven T Nourse on behalf of Ohio Power Company