KPSC Case No. 2014-00396 AG's Supplemental Set of Data Requests Dated February 27, 2015 Item No. CS2 Attachment 1 Page 1 of 22

Capital Program Approval Requisition One Page Summary

Compony	Kentucky Power Comp	2014						Vore	ion: 1
Company:	AEP Generation Resources Inc.							vers	
Project:	MLU0CTBD - Mitchell Unit 0 - Cooling Tower Blow Down (CTBD) - Phase 2								
Location:	Moundsville, West Virginia								
Description:	(CRI). The project cons acceptable levels. It will made to the cooling too bottom ash hoppers, w Phase 1, which was ap procurement and the co Reason for Revision: P revised total estimated	his project allows for the discontinuation of discharging Cooling Tower Blow Down (CTBD) into the Conner Run Impoundment CRI). The project consists of increasing the cycles of concentration on the cooling towers which will reduce the CTBD flows to cceptable levels. It will also allow the CTBD to continue to be the water source for bottom ash sluicing. Upgrades will also be adde to the cooling tower chemical injection and storage. CTBD will also serve as the water supply to the pyrite boxes and ottom ash hoppers, which requires piping replacement for both systems. hase 1, which was approved as a standalone IR (000020312) for \$1.9M, approved engineering, design, long lead time material rocurement and the cost associated with the 2011 Wastewater Modeling Study. eason for Revision: Phase 1 is nearing completion, requesting funding for Phase 2, which is the final phase of the project. The evised total estimated cost for all phases is now \$9.1M, a \$0.1M reduction from Version 1's \$9.2M estimate. The reduction is use to scope and estimate refinement.							
Phase Description:	Remaining material pro	ocurement, const	ruction, sta	rt up and	l comn	nissioning.			
Authorization Amount:	Company Function			ion		Previously roved Amount	This Submission		al Amount to Authorized
	APCO		GEN		Ahh	\$0	\$4,679,84		\$4,679,842
	KYPCO		GEN			\$0	\$4.421.72		\$4,421,724
	WPCO		GEN			\$0	\$4,679,84	2	\$4,679,842
						\$0	\$13,781,40	8	\$13,781,408
Cash Flow:	Prior Years		2014			2015	Future Ye	ars	Total
	Capital		\$0	\$4,518	,295	\$4,583,2	271	\$0	\$9,101,566
	Removal		\$0		\$0		\$0	\$0	\$0
	Total To Be								
	Authorized		\$0	\$4,518	,295	\$4,583,2	271	\$0	\$9,101,566
	Less CIAC		\$0		\$0		\$0	\$0	\$0
	Net AEP Cash Flow		\$0	\$4,518	,295	\$4,583,2	271	\$0	\$9,101,566
	Associated O&M		\$0		\$0		\$0	\$0	\$0
Project Dates:	Start Date : 01/02/20	14 In Se	rvice Date	: 07/15/	2015	Con	pletion Date: 07/	15/2015	5
Bogulator: Cost	Kentucky Power Company \$4.42M (49%) • \$4.38M (99%) base rate case filing, TYE 9/30/2014 with optional forecasted test year, effective 6/1/2015. • \$0.04M (1%) FERC Annual Formula Rate update, TYE 12/31/15, effective 6/1/16. AEP Generation Resources \$4.68M (51%)					145			
Regulatory Cost Recovery:	• \$0.04M (1%) FE	RC Annual Form	nula Rate u				•	e 6/1/20	J15.
• •	\$0.04M (1%) FE AEP Generation Resource	RC Annual Form <u>urces</u> \$4.68M (nula Rate u	pdate, T	YE 12/		•	e 6/1/20	J15.

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Capital Program Approval Requisition

Funding and Approval

Direct Cost		Prior Years	2014	2015	Future Years	Total
Funding:	In Forecast \$	\$0	\$4,761,875	\$2,051,586	\$0	\$6,813,461
	Offsets Required	\$0	-\$1,172,237	\$1,945,680	\$0	\$773,443
	Total	\$0	\$3,589,638	\$3,997,266	\$0	\$7,586,904
Required						
Signatures:	Status		Name	Da	ate	
0	Approved		Douglas Adams	06	6/24/2014	
	Approved		Kenneth Ecoffey	06	6/24/2014	
	Approved		Timothy V Riordan	06	6/25/2014	
	Bypassed		John A Mazzone	06	6/25/2014	
	Bypassed		Paul W Franklin	06	6/25/2014	
	Bypassed		Gary C Knight	06	6/25/2014	
	Bypassed		Jeffery D Lafleur	06	6/25/2014	
	Bypassed		Elizabeth B Dailey	06	6/25/2014	
	Bypassed		James H Garrett	06	6/25/2014	
	Bypassed		Keith M Darling	06	6/25/2014	
	Approved		Toby L Thomas		6/25/2014	
	Bypassed		Jeffery D Lafleur	06	6/26/2014	
	Approved		Robert L Walton	06	6/26/2014	
	Approved		John M McManus 0		6/26/2014	
	Approved		Christian T Beam	06	30/2014	
	Approved		Brian K Rupp	07	7/01/2014	
	Approved		Brian K Rupp	07	7/01/2014	
	Approved		Ranie K Wohnhas	07	7/07/2014	
	Bypassed		Daniel V Lee	07/07/2014		
	Bypassed		Gregory G Pauley	07	7/07/2014	
	Approved		Michael H Huggett	07	7/07/2014	
	Approved		Charles E Zebula	07	7/08/2014	
	Approved		Jenifer L Fischer	07	7/15/2014	
Project Contacts:						
	Туре	Name				
	Detail Provider	HOLIGA, DENIS	EM			
	Project Manage					

Component CI's

Component ID	Company	Description of Work	Previously (\$)	Approved)	This Sub (\$		Total Authorized (\$)		1
			Capital	Removal	Capital	Removal	Capital	Removal	Total
000023123	APCO	ML U0 Cooling Tower Blow Down	0	0	4,679,842	0	4,679,842	0	4,679,842
		APCO Total :	0	0	4,679,842	0	4,679,842	0	4,679,842
000020312	KYPCO	ML U0 Cooling Tower Blow Down	0	0	4,421,724	0	4,421,724	0	4,421,724
		KYPCO Total :	0	0	4,421,724	0	4,421,724	0	4,421,724
000023123	WPCO	ML U0 Cooling Tower Blow Down	0	0	4,679,842	0	4,679,842	0	4,679,842
		WPCO Total :	0	0	4,679,842	0	4,679,842	0	4,679,842
		Grand Total :	0	0	13,781,408	0	13,781,408	0	13,781,408

Additional Information

Project Justification:	A number of factors demonstrate that it is in Mitchell plant's long term interests to discontinue disposing of the CTBD into the CRI in parallel with the retirement of Kammer plant (7/2015). Those drivers include 1) Elimination of the cost sharing obligations associated with the ongoing operation of the CRI. 2) Reduction of the O&M costs associated with the pumping of the CTBD to the CRI. 3) Separation from CONSOL pending the transfer of the impoundment. 4) Reduction of the conspliance costs associated with the pending CCR and ELG rules. 5) Reduction of the risks associated with CONSOL discontinuing operations. See attachment for Project Update and Details.
Other Alternatives Considered:	A number of alternatives and variations were considered including sending the CTBD flow directly to the river, clear water and/or bottom ash ponds without any reduction in flow. All of these scenarios would not achieve NPDES limits at the permitted outfall. Additional scenarios involving surge holding tanks and utilizing the CTBD flows for FGD makeup water were considered and found not to be feasible.
Conclusion:	The discontinuation of disposing of the CTBD into the CRI is one the best long term water management strategies for Mitchell plant. The proposed option of redirecting the reduced CTBD flows to the bottom ash pond represents the most economical and feasible solution for discontinuing to send the CTBD to the CRI.

AEP

Date September 14, 2012

					100 A
Company			CI/LI/CPP/Pr	ogram Number	Version
	Ohio Power		0000	1	
Dor Soone Davi	iew - Capital, Removal,	Reviewed by	BU/OBCo has verified	funding is in budget. If	Reviewed by
Lease and O&N	lew - Capital, Removal, I classifications appear to	CP&B	not in budget, funding	CP&B	
be appropriate		JCF 9-14-12	fund transfer has been		9-14-12
ROUTING:	NAME		INITIALS & DATE RELEASED	COMMENT	And and a subscription of the second s
	B. A. MacPherson		NELEASED		
1	D. Lynch		0/49/17/12		
	L. L. Dieck	<u> </u>			
	C. Zebula				
	B. X. Tierney				
	M. Heyeck B. D. Radous				
	S. Burge				
	L.J. Weber				
	M. C. McCullough				
	D. E. Welch				
	R. P. Powers				
	L. Barton				
	Buckeye Power Approva	I			
	N. K. Akins				
2	Jenifer Fischer - 28th floo Ext 3032	or			
	·····		9-25-12	Approved in Peop	oleSoft
			Sep 2012	Month Included in Boa	rd Package

Alternate CP&B Contacts: Cathy Warchal - 28th Floor - Ext 1347

Scanned File Name: OPCo 000021257.pdf

Capital Improvement Approval Requisition

Company: Ohio Power Company

Version 1

- Project : 000021257 Mitchell Unit 1 Electrostatic Precipitator Upgrade Moundsville, WV
- **Description:** This CI requests funds for improvements to the Mitchell Unit 1 Electrostatic Precipitator (ESP) in order to meet environmental requirements and minimize the impact of flyash carryover on the Flue Gas Desulfurization (FGD) chemistry. In the Mercury and Air Toxics Standards (MATS) regime starting in 2015, the units will be required to demonstrate compliance with each of the limits (mercury (Hg), particulate matter (PM), and sulfur dioxide (SO₂)) on a more frequent basis.

The scope of this project includes:

- > Replace Alstom high frequency transformer rectifier (T/R) sets
- > Upgrade the voltage controls on 128 T/R sets with new digital controls

This project is included in the budget for 2013 and will be completed during the Spring outage.

Authorization Amount:		Previously Approved Amount	This Submission	Total Amount to be Authorized		
	Total	\$ -	\$ 5,417,027	\$ 5,417,027		
Cash Flow:		Prior Years	2012	2013	Future Years	Total
	Capital	\$ -	\$ 1,029,077	\$ 4,387,950	\$ -	\$ 5,417,027
	Removal	\$-	\$-	\$-	\$ -	\$-
	Total to be Authorized	\$-	\$ 1,029,077	\$ 4,387,950	\$ -	\$ 5,417,027
	Associated O&M	\$-	\$-	\$ 250,000	\$-	\$ 250,000
Start Date:	9/1/2012	Completion Date:	8/31/2013	In Service Date:	4/14/2013	
Regulatory Cost Recovery:	\$5.2M (96%) Company's g revenues au so there is no investment c) Upon approval f generation fleet w thorized by the P o incremental cos arrying costs are	vill transition into a UCO (approved i st recovery mecha deemed a cost c	6) ederal regulatory a a competitive mar n March 2009 ES anism for new ca of business offsett in current demar	ket. Currently, b P) are not cost-o pital investments. ing ESP authoriz	ase generation f-service based, As such, new ed revenues.
Funding:		Control Budget n IRC Presentation)	Yes		Offset Source	N/A
		Requested full	ure year tunus are ir.	ncluded in the last of	nciai Forecast.	
Approved By:	S. Burge/P. Vega	S		Approved On:	9/10/2012	

Capital Improvement Approval Requisition

Expenditure to be Authorized (fully loaded)

	Capital	Removal	Total
Previously Approved Amount	-	-	-
This Submission	5,417,027	-	5,417,027
Total	\$ 5,417,027	\$ -	\$ 5,417,027

2012 Direct C	Cost Budg	et Funding	Budget Offset Source and Amount
In Budget	\$	1,080,000	
Budget Offset	\$	-	

Requested future year funds are included in the last official Forecast.

Required Signatures

Authorization Limits	Title	Approver	Signature	Date
amt ≤\$10m	SVP, Business Unit	Burge, S.	See electronic approval attached	9/10/2012
amt ≤\$10m	Opco President	Vegas, P.	See electronic approval attached	9/10/2012
amt ≤ \$ 20m	EVP & COO/EVP	McCullough, M.		
CP&B Review	Manager, Capital and Lease Improvements	Lynch, D.	DLyne	9/17/12

Project Contacts

Contact	Name	Telephone
Project Manager	Kristopher Coombs	200-3342
Requisition Detail Provider	Daniel Connor	200-3019

Capital Improvement Approval Requisition

Project Justification

It is necessary to maintain the Electrostatic Precipitators (ESP) in safe, effective working order in order to meet environmental requirements and minimize the impact of flyash carryover on the Flue Gas Desulfurization (FGD) chemistry. Considerable maintenance on the ESP has been deferred in recent years due to uncertainty over the need to install a fabric filter. We now have evidence that a fabric filter will not be required in order to meet ongoing requirements, and it is appropriate to perform work necessary to ensure the safe and effective operation of the primary particulate control device. In the Mercury and Air Toxics Standards (MATS) regime starting in 2015, the units will be required to demonstrate compliance with each of the limits (Hg, PM, and SO₂) on a more frequent basis. The PM limit will need to be demonstrated either on a continuous basis with a PM CEMS or quarterly through a Method 5 PM test. The scope outlined below will allow the plant to perform diagnostic work and make changes to the operation of the ESP while the unit is online. The benefits for each of the proposed improvements are outlined below.

The Alstom high frequency T/R sets have been highly unreliable since their installation at Mitchell and 6 of 32 are currently out of service. Replacing the Alstom SIRs will allow the plant to have more reliable T/R's thereby decreasing O&M cost. The out-of-service Alstom T/R sets are creating empty spaces in the ESP that does not contribute to any collection of particulate. Replacement of the Alstom T/R's will save the Mitchell plant an estimated \$125,000 per year. Upgrading from the factory installed AVCs to the MVC4 controls is necessary due to the fact that the existing controls are more than 30 years old. Replacement parts are hard to find which has made it difficult for the plant to service the controls. Furthermore, within the next few years, the controls will become obsolete, and finding parts will not be possible. The upgrades also will provide for more reliable and accurate control of the T/R sets, improved monitoring and troubleshooting capabilities. With enhanced controls and monitoring, it is expected that the EFOR on the unit will be reduced by 0.5 ppts. Engineering Services predicts a \$100,000 per year reduction in O&M expenses after the AVCs have been upgraded. These upgrades will also help to avoid a 50 MW curtailment due to staying within the Hg limit put forth from the MATS ruling that will start in 2015.

Other Alternatives Considered

The "do nothing" case was not selected as it was determined that operational issues needed to be addressed. A full rebuild of the ESP was also considered. This was ruled out as not cost effective. The proposed improvements will provide the necessary safety and performance improvements at minimal cost.

Conclusion

In order to ensure reliable performance of the ESP, and enhance personnel safety, it is recommended to implement the above improvements. A decrease in EFOR of as much as 0.5 ppts, a decrease in O&M expense of \$250,000 per year, and an avoidance of a 50 MW curtailment is projected.

Associated/Future Projects

Upgrade ESP rapping system – approximately \$5,000,000 Install new hoppers and hopper heaters – approximately \$15,000,000

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Capital Program Approval Requisition One Page Summary

			io i ugo oui		-)				
Company:	Kentucky Power Comp AEP Generation Resou						Versi	on: 1	
Project:	MLU2ESP15 - Mitchell Unit 2 ESP Upgrade -								
Location:	Moundsville, WV								
Description:	Replace 32 high frequency T/R sets, replace existing automatic voltage controls, replace existing rapper PLC controls and insta precipitator optimization system and associated communications.								
Authorization									
Amount:	Compan	у	Function		Previously roved Amount	This Submission		al Amount to Authorized	
	GENCO	(GEN		\$0	\$1,930,167		\$1,930,167	
	KYPCO	(GEN		\$0	\$1,932,984		\$1,932,984	
			Total		\$0	\$3,863,151		\$3,863,151	
Cash Flow:		Prior Years	2014		2015	Future Year	s	Total	
	Capital	9	50 \$1,927	,322	\$1,858,3	329	\$0	\$3,785,651	
	Removal	\$	50	\$0	\$77,5	500	\$0	\$77,500	
	Total To Be								
	Authorized		50 \$1,927	,322	\$1,935,8	329	\$0	\$3,863,151	
	Less CIAC	Ŧ	50	\$0		\$0	\$0	\$0	
	Net AEP Cash Flow		50 \$1,927	,322	\$1,935,8	329	\$0	\$3,863,151	
	Associated O&M	\$	\$30	\$142,500		500	\$0	\$172,500	
Project Dates:	Start Date : 04/01/20	14 In Ser	vice Date : 06/30/	2015	Con	pletion Date: 06/30	/2015		
Regulatory Cost Recovery:	 <u>Kentucky Power Company</u> - \$1.93M (50%) \$1.91M (99%) base rate case filing, TYE 9/30/14, effective 6/1/15 with forecasted Test Year. \$0.02M (1%) FERC Annual Formula Rate update, TYE 12/31/15, effective 6/1/16. <u>AEP Generation Resources</u> - \$1.93M (50%) N/A. 								
Funding:	Included in IRC Prese	entation : Yes	Proj	ect Fu	nded : Yes				
	el V Lee, Gregory G Pau	llev Charles E Zo	hulo Ann	rovod	On : 03/24/2014				

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Capital Program Approval Requisition

Funding and Approval

Direct Cost		Prior Years	2014	2015	Future Years	Total
Funding:	In Forecast \$	\$0	\$1,641,962	\$2,684,350	\$0	\$4,326,312
	Offsets Required	\$0	\$0	-\$1,038,675	\$0	-\$1,038,675
	Total	\$0	\$1,641,962	\$1,645,675	\$0	\$3,287,637
Required						
Signatures:	Status		Name	Da	ate	
0	Approved		Teresa M Jeffers	03	3/07/2014	
	Approved		Michael L Belter	03	3/07/2014	
	Approved		Timothy V Riordan	03	3/07/2014	
	Approved		Aaron M Sink	03	3/10/2014	
	Approved		Toby L Thomas	03	3/10/2014	
	Approved		Robert L Walton	03	3/10/2014	
	Approved		John M McManus	03	3/10/2014	
	Bypassed		Christian T Beam	03	3/12/2014	
	Approved		Brian K Rupp	03	3/12/2014	
	Approved		Ranie K Wohnhas	03	3/12/2014	
	Approved		Daniel V Lee	03	3/13/2014	
	Approved		Gregory G Pauley	03	3/17/2014	
	Approved		Franz D Messner	03	3/17/2014	
	Approved		Charles E Zebula	03	3/18/2014	
	Approved		Jenifer L Fischer	03	3/24/2014	
Project Contacts:	Туре	Name				
	Detail Provider	ELLIOTT,WILE	Y.I			
	Project Manage	,				

Component CI's

Component ID	Company	Description of Work	Previously (\$)	Previously Approved This Submission Total Authorized (\$) (\$) (\$) (\$)		This Submission (\$)				1
			Capital	Removal	Capital	Removal	Capital	Removal	Total	
000023130	GENCO	ML U2 ESP Upgrades	0	0	1,930,167	0	1,930,167	0	1,930,167	
		GENCO Total :	0	0	1,930,167	0	1,930,167	0	1,930,167	
000021259	KYPCO	ML U2 ESP Upgrades	0	0	1,855,484	77,500	1,855,484	77,500	1,932,984	
		KYPCO Total :	0	0	1,855,484	77,500	1,855,484	77,500	1,932,984	
		Grand Total :	0	0	3,785,651	77,500	3,785,651	77,500	3,863,151	

Additional Information

Project Justification:	Minimize or eliminate opacity related curtailments and outages.
Other Alternatives Considered:	Do nothing and delay installation.
Conclusion:	Replace 32 high frequency T/R sets, replace existing automatic voltage controls, replace existing rapper PLC controls and install precipitator optimization system and associated communications.

AED

Date September 18, 2012

· · · · · · · · · · · · · · · · · · ·					
Company			CI/LI/CPP/Pr	ogram Number	Version
	Ohio Power		ML1N	1	
Per Scope Review -		Reviewed by CP&B		funding is in budget. If	Reviewed by CP&B
			not in budget, funding has been identified and fund transfer has been received.		
be appropriate	propriate Jul 9-18-12		tund transfer has bee	n received.	9-18-12
ROUTING:	NAME		INITIALS & DATE	COMMEN	
			RELEASED		
	. A. MacPherson				
The second se	. Lynch		DP2 9/19/12		
	L. Dieck		/ 1		
<u> </u>	Zebula				
В.	X. Tierney				
	. Heyeck				
	D. Radous				
	Burge				
L.,	J. Weber				
M.	. C. McCullough				
	E. Welch				
R.	P. Powers				
L.	Barton				
В	uckeye Power Approval				
N.	K. Akins				
	nifer Fischer - 28th floo tt 3032	or			
			9-25-12	Approved in Peo	oleSoft
			9-25-12 Sep 2012	Month Included in Boa	ard Package

Alternate CP&B Contacts: Cathy Warchal - 28th Floor - Ext 1347

Scanned File Name: OPCo ML1MH1201.pdf

1

Revision]	Mitch	ell Unit 1: C	oal Silo Ventilation Improv	vement Proje	ct Page 14 of 22
No	Select for Revision	1		-	-	
			Funding	ML1MH1201	Version	2.1
Unit	Mitche	ell 1	Numbers		Project Mgr.	Ron Hyatt
Category Code	Environmental, S	afety & Health	Operating Company (s)	Ohio Power Co	Unit Role	Base
Project Description				afe work environment by replacing ntilation and collection system.	the existing dry	coal silo ventilation and
Project Plan	Scope & Objectives	AAF Type D, d objective is to e	ry Roto-Clones ensure compliar nazards. The ne	ect is to remove the existing coal and replace them with new AAF t nce with OSHA safety and health w equipment will also help mainta	ype W, wet Roto requirements reg	o-Clone dust collectors. The garding combustible dust
	Project Phase(s) Cove	red in This Version	All	Total Estimated Cost For All Projected Phases		\$761,828.00
Schedule	This project is sch	eduled to be per	formed in 2012			
Project Justification	and health require plant's original coa	ments for combined to the second s i their life. This contains the second se	ustible dust and system. The ex obsolete techno	safe operation of the plant coal co methane hazards. The Roto-Clor sisting dust collectors are no longe logy is no longer supported by any P plants.	ne equipment water efficient or rel	as installed as part of the iable because they have
Alternatives Considered		t is no longer su		he existing technology is obsolete original manufacturer. Fabrication		

Financial Analysis	10 Year IRR	10 Year NPV	Simple Payback (Years)	Discount Rate
Summary	N/A	N/A	N/A	N/A
Economic Analysis	Availability Improvement	Capacity Improvement	Fuel Efficiency	Cost Reduction / Avoided Cost Savings
Assumptions	N/A	N/A	N/A	N/A

* Financial Analysis based on the phase(s) and scope identified on this version versus least cost alternative.

	Year	Prior Years	2012	2013	2014	2015+	Total (\$)
	Amount Budgeted	\$0	\$0	\$0	\$0	\$0	\$0
	FODA Budget	\$0	\$45,500	\$0	\$0	\$0	\$45,500
	Material	\$0	\$159,500		\$0	\$0	\$159,500
Cash Flow	Labor	\$0	\$357,500		\$0	\$0	\$357,500
(Requested)	FODA	\$0	\$45,500		\$0	\$0	\$45,500
Direct Costs	Other	\$0	\$42,500		\$0	\$0	\$42,500
(AEP Portion)	Contingency	\$0	\$100,000		\$0	\$0	\$100,000
	Removal (No 506)	\$0	\$0	\$0	\$0	\$0	\$0
	Total Direct	\$0	\$705,000	\$0	\$0	\$0	\$705,000
	Delta: Budget vs Request	\$0	(\$659,500)	\$0	\$0	\$0	(\$659,500)
Loaded Costs	Amount to be Authorized	\$0	\$761,828				\$761,828
(AEP Portion)	Associated O&M (incld 506 Removal)	\$0	\$0	\$0	\$0	\$0	
Total Loaded P (AEP -	roject Costs 100% + Non-AEP)		\$761,828				\$761,828

Additional Notes:

Current Year Budget Availability/Offset for this Authorization:

Status:			LI Approva			718L	
Status:	GEN Approved	I					
Expedite:	No						
						Last populated: 0	8/21/2012 03:55 P
Plant Mitchell	Unit 1		g Project # MH1201	Ver. # 1	Proj Type GWSCS		zation Type roject
Project Title: ML1	MH ROTOCLONE	RPL					
Outage Code: (if necessary)				Business In-service		Environmental, Sa 12/31/2012	fety & Health
Brief Description of Pro	oject (sufficient to d	etermine that	t the project i	s Capital noi	t O&M)		
Replace obsolete dry coa					-	ilation and collection	on system
Are any of the following							
PMRG Form 1 Page Summary Form	Yes () No () Yes () No						
Executive Summary Fo	~ ~						
Economics	🔿 Yes 🌒 No)					
Com		A	mount to be	Authorized		LEG-9 #	······
Ohio Po	wer Co.		\$761,82	8.29		No	
Origin Douglas I			Project Ma Ronald L				
Originator 8-200 614/710	5961	Pro	oject Manage 8-200-1 614/716-	869			
	Originated			Exp	ected Sub	Company Board	
	08/21/2012			-	09/25	5/2012	
GEN A	opproval Required b 09/12/2012	у		Project	t Fully Appr	roved & Opened b	у
		d:		Date	Approved	by PMRG Board:	
	ved by PMRG Boai				whhloven		
	ved by PMRG Boar Not Reviewed				Αρμιονέα		
Appro	Not Reviewed	of this CI?	No	···· ·· ·· ···	Αρμισνεα		
Appro Nill material become ol	Not Reviewed			e contact yo		Chain Representat	ive.
Appro Nill material become ol	Not Reviewed psolete as a result of uestions concerning	g Obsolete M	aterial, please		ur Suppiy C	-	ive.
Appro Nill material become ol If you have קנ	Not Reviewed psolete as a result of restions concerning			e contact you YR3 2014	ur Supply C YR4	YR5+	
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Appro Nill material become of If you have qu Budget (Direct Costs) Capital - Direct Removal - Direct Total Direct Budget Associated O&M Capital - Direct	Not Reviewed Disolete as a result of Disolete as a re	g Obsolete M YR1 2012 0 0 0 0 705,000 0 0	aterial, please	YR3 2014 0 0 0 0	ur Supply C YR4 2015	YR5+ 2016+ 0 0 0 0 0 0 0 0	Total 0 0 0 0 705,000

Capital - Dir								
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Removal - Dir		0	0	0	C	(D
Total Direct Costs		0	705,000	0	C	(0 705,0
be Authoria Capital - Overhei								
Removal - Overhea		0	35,250	0	C) 35,2)
Overhea	· ·	0	35,250	0	0			35,2
AFU	L	0	21,578	0	0			21,5
Amount Be		0	761,828	ŏ	0	1		1
Authoriz				Ĭ	•			1
Associated O	&M	0	0	0	0	() (
Total Cap	ital	0	761,828	0	ol	0	d	761,82
Total Remov		0	0	0		0	Ō	
Associated O	&М		0	0	0	0	0	
wnership Unit Brea Funding # / Company	*	Prior Years	2012	2013	2014	2015	2016+	Total
ML1MH1201	C	0	761,828	0	0	0	0	761,82
Ohio Power Co -	R	0	0	0	0	0	0	
INC POWERLOG			761,828	0	0	UI I	0	761,82
		<u> </u>					Ĩ	
Generation		Ĭ		tal Capital, R =	Total Remova	lls		
Generation Fotal Kenneth J DeLuc GEN Financial Mgrs) Fimothy V Riorda) in			tal Capital, R =	Total Remova	08/22/	2012 08:34	AM EDT
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Comment

Attachments

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ML1MH1201 ML Coal Silo U1 PMRG form.xls

Direct Cost		2012
Original Budget Amount:		\$0
Offset (source & amount):	INCCAPINV	\$660,000
	FODA	\$45,500
	TOTAL	\$705,500

Regulatory Comments:

Twana Banks-Smith - 08/22/2012 09:17:09 AM Ohio Power Company – \$0.762M (100%); In-Service Date: 12/31/2012 \$0.732M (96%) Upon approval from State and Federal regulatory authorities, Ohio Power Company's generation fleet will transition into a competitive market. Currently, base generation revenues authorized by the PUCO (approved in March 2009 ESP) are not cost-of-service based, so there is no incremental cost recovery mechanism for new capital investments. As such, new investment carrying costs are deemed a cost of business offsetting ESP authorized revenues.

\$0.030M (4%) Allocated to WPCo and recovered in current demand charge effective 1/1/10

AT

Date September 18, 2012

					•
Company	-		CI/LI/CPP/Pr	ogram Number	Version
	Ohio Power		ML2	1	
Per Scope Review - Capital, Removal, Lease and O&M classifications appear to be appropriate		Reviewed by CP&B J (4- 9-18-12		l funding is in budget. If g has been identified and n received.	Reviewed by CP&B 9-18-12-
ROUTING:	NAME		INITIALS & DATE RELEASED	COMMEN	
	B. A. MacPherson		ILLLAULD		
1	D. Lynch		M2 9/19/12		
	L. L. Dieck				
	C. Zebula				
	B. X. Tierney				
	M. Heyeck B. D. Radous S. Burge L.J. Weber	•			
	M. C. McCullough D. E. Welch R. P. Powers				
	L. Barton				
	· · · · · · · · · · · · · · · · · · ·				
	Buckeye Power Approva	I			
	N. K. Akins				······
2	Jenifer Fischer - 28th floo Ext 3032	or			
			9-25-12-	Approved in Peo	oleSoft
			Sep 2012	Month Included in Boa	ard Package

Alternate CP&B Contacts: Cathy Warchal - 28th Floor - Ext 1347

Scanned File Name: OPCo ML2MH1202.pdf

Revision]	Mitch	ell Unit 2: C	oal Silo Ventila	ation Improv	vement Proje	ct Page 19 of 22
No	Select for Revision	1					
			Funding	ML2M	<u>-11202</u>	Version	2.1
Unit	Mitche	12	Numbers			Project Mgr.	Ron Hyatt
Category Code	Environmental, S					Unit Role	Base
Project Description	dust collection syst					g the existing dry	coal silo ventilation and
Project Plan		AAF Type D, d objective is to e	ry Roto-Clones ensure compliar azards. The ne	and replace them nce with OSHA sat w equipment will a	with new AAF ety and health lso help mainta	type W, wet Roto requirements reg ain environmental	nd dust collection system of p-Clone dust collectors. The garding combustible dust permit requirements for
	Project Phase(s) Cover	ed In This Version	All	Total Estimated Co Pha	•	1	\$761,828.00
Schedule	This project is sche	eduled to be per	rformed in 2012				
Project Justification	and health requirer plant's original coal	nents for combinents for combinents for combinents for the second	ustible dust and system. The ex obsolete techno	methane hazards kisting dust collect logy is no longer s	. The Roto-Clo ors are no long	ne equipment wa er efficient or reli	and to meet OSHA safety is installed as part of the able because they have The wet dust collection
Alternatives Considered							nd of its operating design parts is impracticable for

Financial Analysis	10 Year IRR	10 Year NPV	Simple Payback (Years)	Discount Rate			
Summary	N/A	N/A	N/A	N/A			
Economic Analysis	Availability Improvement	Capacity Improvement	Fuel Efficiency	Cost Reduction / Avoided Cost Savings			
Assumptions	N/A	N/A	N/A	N/A			
* Financial Analysis based on the phase(s) and scope identified on this version versus least cost alternative.							

	Year	Prior Years	2012	2013	2014	2015+	Total (\$)
	Amount Budgeted	\$0	\$0	\$0	\$0	\$0	\$
	FODA Budget	\$0	\$45,500	\$0	\$0	and we show the second second second	
	Material	\$0	\$159,500		\$0	\$0	\$159,50
Cash Flow	Labor	\$0	\$357,500		\$0	\$0	\$357,50
	FODA	\$0	\$45,500		\$0	\$0	\$45,500
Direct Costs	Other	\$0	\$42,500		\$0	\$0	\$42,500
(AEP Portion)	Contingency	\$0	\$100,000		\$0	\$0	\$100,000
	Removal (No 506)	\$0	\$0		\$0	\$0	\$(
	Total Direct	\$0	\$705,000	\$0	\$0	\$0	\$705,000
	Delta: Budget vs Request	\$0	(\$659,500)	\$0	\$0	\$0	(\$659,500
Loaded Costs (AEP Portion)	Amount to be Authorized	\$0	\$761,828				\$761,828
	Associated O&M (incld 506 Removal)	\$0	\$0	\$0	\$0	\$0	\$0
Total Loaded P (AEP -	roject Costs 100% ⊦ Non-AEP)		\$761,828				\$761,828

Additional Notes:

Current Year Budget Availability/Offset for this Authorization:

	G	ieneration	CI/LI Appro	oval Routing	Docume	ent			
Status:	GEN Appro	ved							
Expedite:	No								
						Last populated: 08	3/21/2012 03:58 PM		
Plant Mitchell	Unit 2		ding Project # IL2MH1202	e Ver. # 1	Proj Type GWSCS		a tion Type oject		
Project Title: M	L2 MH ROTOCLON	NE RPL							
Outage Code: (if necessary)				Business In-service		Environmental, Saf 12/31/2012	ety & Health		
Brief Description of F	Project (sufficient t	to determine t	hat the projec	ct is Capital not	· O&M)				
Replace obsolete dry of						tilation and collection	n system		
,			·····,····	······································					
Are any of the follow									
PMRG Form	Yes C								
1 Page Summary For Executive Summary									
Economics	O Yes								
	mpany Power Co.			pe Authorized 828.29		LEG-9 # No			
			4 1 4 1						
	ginator Is E Adams			Manager					
-	or Phone No.		Project Manager Phone No.						
8-20	00-5961		8-200-1869 614/716-1869						
014/	716-5961		614/7	16-1869					
	Originated			Exp		Company Board			
05	08/21/2012			09/25/2012 Project Fully Approved & Opened by					
GEI	Approval Require 09/12/2012	ea by		Project	гину Аррі	roved & Opened by	/		
App	proved by PMRG E	oard:	Date Approved by PMRG Board:						
	Not Reviewed					-			
	·····								
Will material become			No						
If you have	questions concer	ning Obsolete	e Material, ple	ase contact you	ir Supply C	Chain Representati	ve.		
		YR1	YR2	YR3	YR4	YR5+			
Budget (Direct Costs)		2012	2013	2014	2015	2016+	Total		
Capital - Dire		0	0			0 0	0		
Removal - Dire Total Direct Budg		0	0			<u>0 0</u> 0 0	0		
Associated O8		0	0	0		0 0	<u>0</u>		
Capital - Dire	edi	0 705,0	200	<u>^</u>	<u>N</u>	A			
Removal - Dire		0 705,0	0	0	0	0	0 705,000		
	1	•	ļ	1	•	- I	۲ ۲ <u>۲</u>		
Project / CPP / Progr	am Amount Being Prior Years	Authorized 2012	2013	2014	2015	2016+	Total		
	i nor reals	2012	2013	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	2015	2010+	Total		

a.

Capital - Di	rect	0	705,000	0		0	0	0 705,00
Removal - Di	rect	0	0	0				0
Total Direct Cost		0	705,000	0		0	0	0 705,00
be Authori								
Capital - Overhe		0	35,250					0 35,25
Removal - Overhe		0	0	0			0	0
Overhei		0	35,250					0 35,2
AFU		0	21,578					0 21,5
Amount Be		q	761,828	0		0	9	0 761,8
Authori: Associated O		0	0	0		0	0	0
7.656614.64 0	<u></u>	Y		<u> </u>		<u>Ч</u>	Ч	Ч.
Total Cap		0	761,828	0	0	0	0	761,828
Total Remov		0	0	0	0	0	0	(
Associated O	&M]	O	0	0	0	0	0	0
Ownership Unit Brea Funding # /	kda *	own Prior Years	2012	2013	2014	2015	2016+	Total
Company								
ML2MH1202	C	0	761,828	0	0	0	0	761,828
	R	0	0	0	0	0	0	C
	וחן	۲ ۲						
Ohio Power Co -		0	761,828	Q	0	0	0	761,828
Generation		······	761,828	O	0	0	0	761,828
		······		ol tal Capital, R =	0 Total Remov	vals	0	761,828
Generation Total Kenneth J DeLuc (GEN Financial Mgrs)	;a)	······		o tal Capital, R =	0 Total Remov	08/22	0 /2012 08:34	AM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda	:a)	O		o tal Capital, R =	0 Total Remov	08/22	0 /2012 08:34 /2012 12:36	AM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Serv	:a)	O		o tal Capital, R =	0 Total Remov	08/22	/2012 12:36	AM EDT PM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Sen John A Mazzone	:a)	O		o tal Capital, R =	0 Total Remov	08/22		AM EDT PM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Sen John A Mazzone (Regional Lead)	a) In Vices	O		o tal Capital, R =	0 Total Remov	08/22 08/22 08/23	/2012 12:36 /2012 09:02	AM EDT PM EDT AM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Sen John A Mazzone (Regional Lead) John M McManus	a) vice	0 5)		o tal Capital, R =	0 : Total Remov	08/22 08/22 08/23	/2012 12:36	AM EDT PM EDT AM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Sen John A Mazzone (Regional Lead) John M McManus (VP Environmental Se	a) vice	0 5)		o tal Capital, R =	0 : Total Remov	08/22, 08/22, 08/23, 08/23,	/2012 12:36 /2012 09:02 /2012 01:04	AM EDT PM EDT AM EDT PM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Sen John A Mazzone (Regional Lead) John M McManus (VP Environmental Si Selwyn J Dias	a) vice: ervit	o s) ces)		d tal Capital, R =	0 Total Remov	08/22, 08/22, 08/23, 08/23,	/2012 12:36 /2012 09:02	AM EDT PM EDT AM EDT PM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Sen John A Mazzone (Regional Lead) John M McManus (VP Environmental Si Selwyn J Dias (OPCO Regulatory &	a) un vice: s	o s) ces)		d tal Capital, R =	0 Total Remov	08/22, 08/23, 08/23, 08/24,	/2012 12:36 /2012 09:02 /2012 01:04 /2012 01:01	AM EDT PM EDT AM EDT PM EDT PM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Sen John A Mazzone (Regional Lead) John M McManus (VP Environmental Se Selwyn J Dias (OPCO Regulatory & Stephen W Burge	a in vices	o s) ces) ance)		o tal Capital, R =	0 Total Remov	08/22, 08/23, 08/23, 08/24,	/2012 12:36 /2012 09:02 /2012 01:04	AM EDT PM EDT AM EDT PM EDT PM EDT
Ohio Power Co - Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Serv John A Mazzone (Regional Lead) John M McManus (VP Environmental Si Selwyn J Dias (OPCO Regulatory & Stephen W Burge (SVP Fossil & Hydro	a in vices	o s) ces) ance)		d tal Capital, R =	0 • Total Remov	08/22, 08/23, 08/23, 08/24,	/2012 12:36 /2012 09:02 /2012 01:04 /2012 01:01	AM EDT PM EDT AM EDT PM EDT PM EDT
Generation Total Kenneth J DeLuc (GEN Financial Mgrs Timothy V Riorda (VP Engineering Sen John A Mazzone (Regional Lead) John M McManus (VP Environmental Se Selwyn J Dias (OPCO Regulatory & Stephen W Burge	a in vices	o s) ces) ance)		d tal Capital, R =	0 • Total Remov	08/22, 08/23, 08/23, 08/24, 08/29,	/2012 12:36 /2012 09:02 /2012 01:04 /2012 01:01	AM EDT PM EDT AM EDT PM EDT PM EDT AM EDT

Comment

Attachments

<u>933</u> ML2MH1202 ML Coal Silo U2 PMRG form.xls

Current Year Budget Availability/Offset for this Authorization:

Direct Cost		2012
Original Budget Amount:		\$0
Offset (source & amount):	INCCAPINV	\$660,000
	FODA	\$45,500
	TOTAL	\$705,500

Regulatory Comments:

Twana Banks-Smith - 08/22/2012 09:21:35 AM

Ohio Power Company - \$0.762M (100%); In-Service Date: 12/31/2012

\$0.732M (96%) Upon approval from State and Federal regulatory authorities, Ohio Power Company's generation fleet will transition into a competitive market. Currently, base generation revenues authorized by the PUCO (approved in March 2009 ESP) are not cost-of-service based, so there is no incremental cost recovery mechanism for new capital investments. As such, new investment carrying costs are deemed a cost of business offsetting ESP authorized revenues.

\$0.030M (4%) Allocated to WPCo and recovered in current demand charge effective 1/1/10