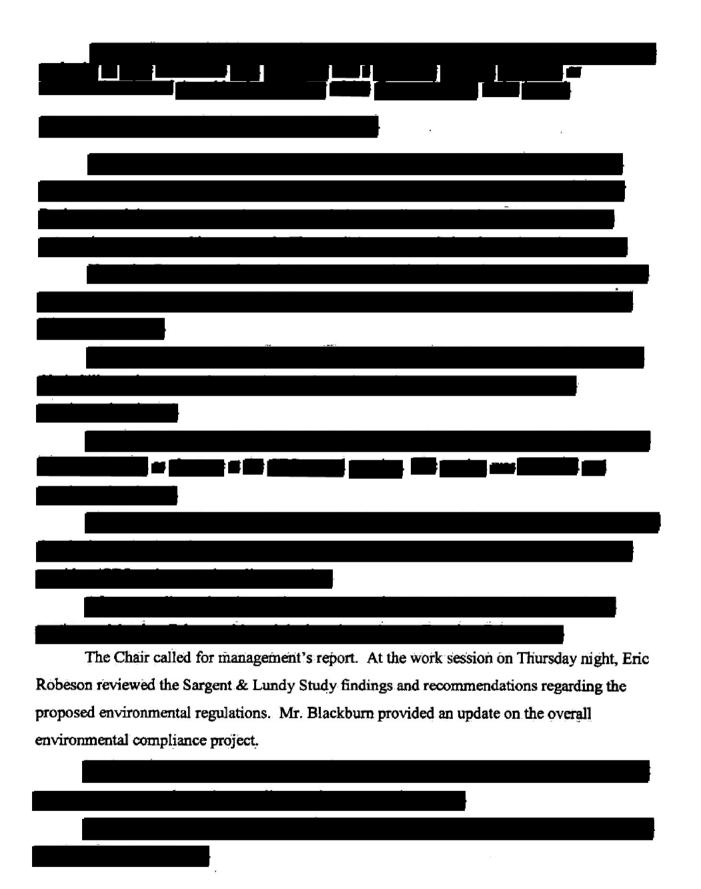
BIG RIVERS ELECTRIC CORPORATION REGULAR BOARD OF DIRECTORS MEETING JANUARY 20, 2012

The regular meeting of the Board of Directors of Big Rivers Electric Corporation was called to order at 8 a.m., CST, on Friday, January 20, 2012, at 201 Third Street, Henderson, Kentucky 42420.







Mr. Bailey advised that the Coordinating Committee's next meeting is scheduled for February 16. Marty Littrel reported on several meetings held with the Kentucky Department of Economic Development and smelter representatives.



Secretary-Treasurer

APPROVED:

Chair



Environmental Compliance Update

Eric Robeson
January 19, 2012

Recommendations from Sargent & Lundy Study

- Replace FGD at Wilson
- Install SCR at one Green unit
- Upgrade fans at HMPL and install additional FGD recycle pumps
- Install low NOx burners at HMPL and Wilson
- Convert Reid to natural gas

CSAPR Update

- On December 30, the DC Court of Appeals issued a stay regarding CSAPR
- Compliance has been suspended pending resolution of this action
- Probable outcome will be a one year delay in implementation
- Until this is resolved, all utilities must continue to comply with CAIR, which was the air regulation prior to CSAPR
- Big Rivers should be in CAIR compliance with minimal NOx allowance purchases for 2012

MATS Mercury and Air Toxics Standard

- Regulations issued in December
- Emissions rates limits instead of total emissions (allowances)
- 2015 compliance date with 1 year extension likely
- Activated Carbon Injection required at all plants
- Precipitator upgrades with dry sorbent injection possible at all plants
- Subject to litigation as well

CSAPR & MATS Cost Update - Capital

CSAPR CAPITAL EXPENSE ESTIMATES (\$ Millions)						
Project	'12	'13	'14	'15	Total	
Wilson FGD	5 '	30.;	50	15	100	
Green SCR	5	50	20	<u>-</u> -!	7.5	
HMPL Fan Upgrades	2	6	-1	- .j	8	
Reid Conversion	2	-	-	- 1	2	
Total	14	86	70	15	185	
MATS CAPITAL EXPENSE ESTIMATES (\$ Millions) Activated Carbon Injection and Particulate Monitors						
Station	'12	'13	'14	'15	Total	
Coleman	-		3.5	10.0	13.5	
Wilson			1.0	4'.0	5.0	
Green	-	-	1.0	8.0	9.0	
HMPL			÷:	1.0	1.0	
Total	-	-	5.5	23.0	28.5	
Overall - CSAPR & MATS CAPITAL EXPENSE (\$ Millions)						
Assumes no additional particulate compliance measures required.						
	'12	'13	'14	'15	Total	
Total	14.0	86.0	75.5	38.0	213.5	

CSAPR & MATS Cost Update - O&M

CSAPR O&M EXPENSE					
Project	\$ (Millions)	Comment			
Wilson FGD	0.70]			
Green SCR	1.50	additional 4 personnel			
HMPL Fan Upgrades	0.75				
Reid Conversion	<u>-</u> !				
Total	2.95				
MATS O&M EXPENSE					
Activated Carbon Injection and Particulate Monitors					
Station	\$ (Millions)	Comment			
Coleman	2.55	I.			
Wilson	2.20				
Green	2.40				
HMPL	0.08				
Total	7.23				
OVERALL CSAPR & MATS O&M EXPENSE					
Assume no additional particulate compliance measures required					
Total	10.18	\$ (Millions)			

Alternatives

- Reduce generation and buy purchased power
- Install SNCR at Coleman and Green Units and replace burners at Coleman
 - Estimated cost of \$28M
- Convert Green Units to Natural Gas
 - Estimated \$25M each vs \$75M SCR each
 - MWH cost goes from \$30 to \$50
 - Complies with future HAPS/MACT and CCR regulations
- Buy NOx Allowances instead of SCR
 - Market needs to develop
 - Cannot exceed 18% variability limit of allowances

Time Line

April 2012 File Environmental Compliance Plan, CPCN and Revised Environmental Surcharge

Release A/E to develop RFP's

October 2012 PSC Approval

Notice to proceed to vendors

January 2013 Vendor procurement begins

July 2013 Construction begins

January 2015 Wilson FGD in service