



# **Appendix – Details of Facility Configuration and Materials Tested**



# List of Wet Scrubber Facilities Providing Residues for Leach Testing<sup>1</sup>

Facility Code	Coal Rank	Oxidation Type	Post-Combustion NOx Control	Particulate Control
A	Bit	Natural	SNCR (w/ & w/o) <sup>2</sup>	Fabric Filter
B	Bit	Natural	SCR (w/ & w/o) <sup>2</sup>	CS-ESP
K	Sub-Bit	Natural	SCR	CS-ESP
M	Bit	Inhibited	SCR (w/ & w/o) <sup>2</sup>	CS-ESP
N	Bit	Forced	None	CS-ESP
O	Bit	Forced	SCR	CS-ESP
P	Bit	Forced	SCR & SNCR	CS-ESP
Q	Sub-Bit	Forced	SCR	CS-ESP
R	PRB Sub-Bit	Forced	None	CS-ESP
S	High sulfur Bit	Forced	SCR	CS-ESP
T	Bit	Forced	SCR	CS-ESP

<sup>1</sup>Results for these facilities included in "Report 2" except for Facilities R, S, and T.

<sup>2</sup>NOx controls are by-passed during winter months, this will change in response to CAIR. For facilities A, B, and M, we have CCRs with and without NOx control.

# Description of Fly Ashes (FA) to Evaluate

## Facility A

Coal: low sulfur bituminous  
APC: NO+SNCR+FF

**CFA**  
(SNCR Off)

**AFA**  
(SNCR On)

## Facility B

Coal: low sulfur bituminous  
APC: NO+SCR+ESP(CS) [Mg lime]

**DFA**  
(SCR Off)

**BFA**  
(SCR On)

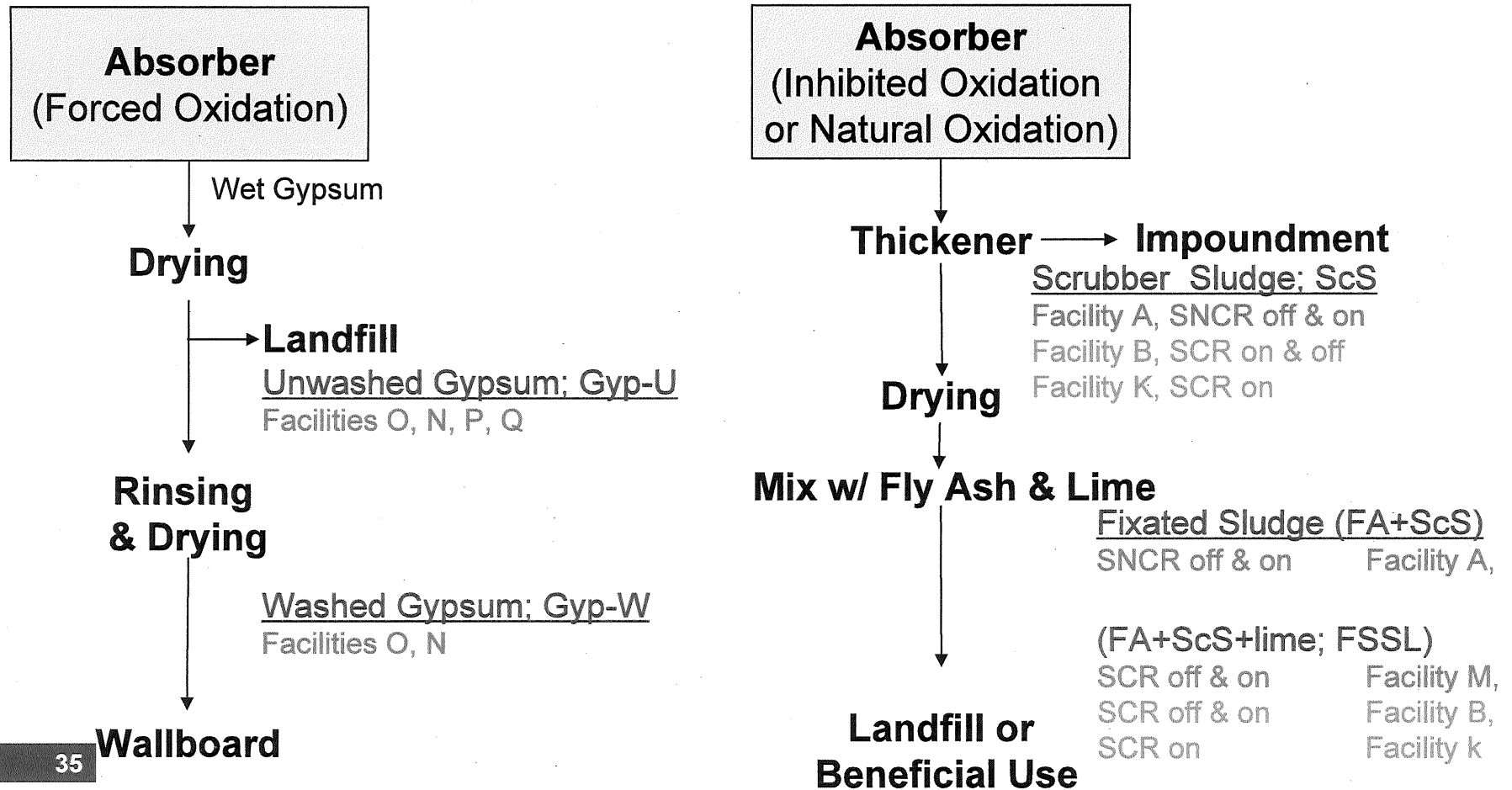
## Facility K

Coal: sub- bituminous  
APC: NO+SCR+ESP(CS) [Mg lime]

**KFA**  
(SCR On)



# Description of CCRs Obtained from Wet Scrubbers Identification of Samples Obtained After Flue Gas (color=Mg lime absorber sampled)

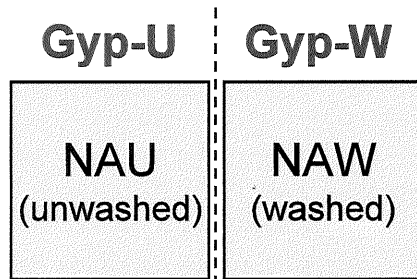




# Description of Facilities for FGD Gypsum Comparisons

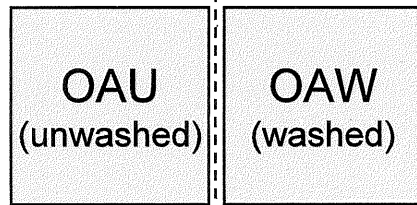
## Facility N

Coal: bituminous  
APC: FO+ESP(CS)



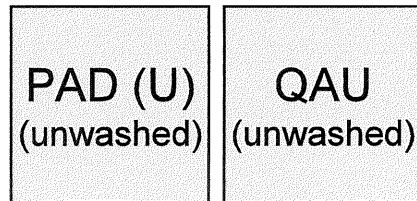
## Facility O

Coal: bituminous  
APC: FO+SCR+ESP(CS)



## Facility P

Coal: bituminous  
APC: FO+ SCR & SNCR +ESP(CS)



## Facility Q

Coal: sub-bituminous  
APC: FO+SCR+ESP(CS)

### APC Codes:

FO – forced oxidation  
IO – inhibited oxidation  
NO – natural oxidation

SCR –  
SNCR –

ESP(CS) – electrostatic precipitator  
(cold side)

FF – fabric filter



# Description of Facilities for Scrubber Sludge Comparisons

## Facility A

Coal: low sulfur bituminous  
APC: NO+SNCR+FF

CGD (SNCR Off)	AGD (SNCR On)
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## Facility B

Coal: low sulfur bituminous  
APC: NO+SCR+ESP(CS) [Mg lime]

DGD (SCR Off)	BGD (SCR On)
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## Facility K

Coal: sub- bituminous  
APC: NO+SCR+ESP(CS) [Mg lime]

KGD (SCR On)
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# Description of Facilities for Fixated Sludge Comparisons (FSS: FA+ScS FSSL: FA+ScS+lime)

**Facility A (FSS)**

Coal: low sulfur bituminous  
APC: NO+SNCR+FF

CCC (SNCR Off)	ACC (SNCR On)
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**Facility B (FSSL)**

Coal: low sulfur bituminous  
APC: NO+SCR+ESP(CS) [Mg lime]

DCC (SCR Off)	BCC (SCR On)
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**Facility K (FSSL)**

Coal: sub-bituminous  
APC: NO+SCR+ESP(CS) [Mg lime]

KCC (SCR On)
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**Facility M (FSSL)**

Coal: bituminous  
APC: IO+SCR+ESP(CS)

MAD (SCR Off)	MAS (SCR On)
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