

BEFORE THE ENVIRONMENTAL QUALITY COUNCIL
STATE OF WYOMING

In the Matter of:)
Basin Electric Power Cooperative) Docket No. 10-2802
Air Quality Permit No. MD-6047)
BART Permit: Laramie River Station)

RESPONSE TO BASIN ELECTRIC'S MOTION FOR SUMMARY JUDGMENT

DEQ/AQD Charts distributed at 9/8/08 meeting

EXHIBIT 8

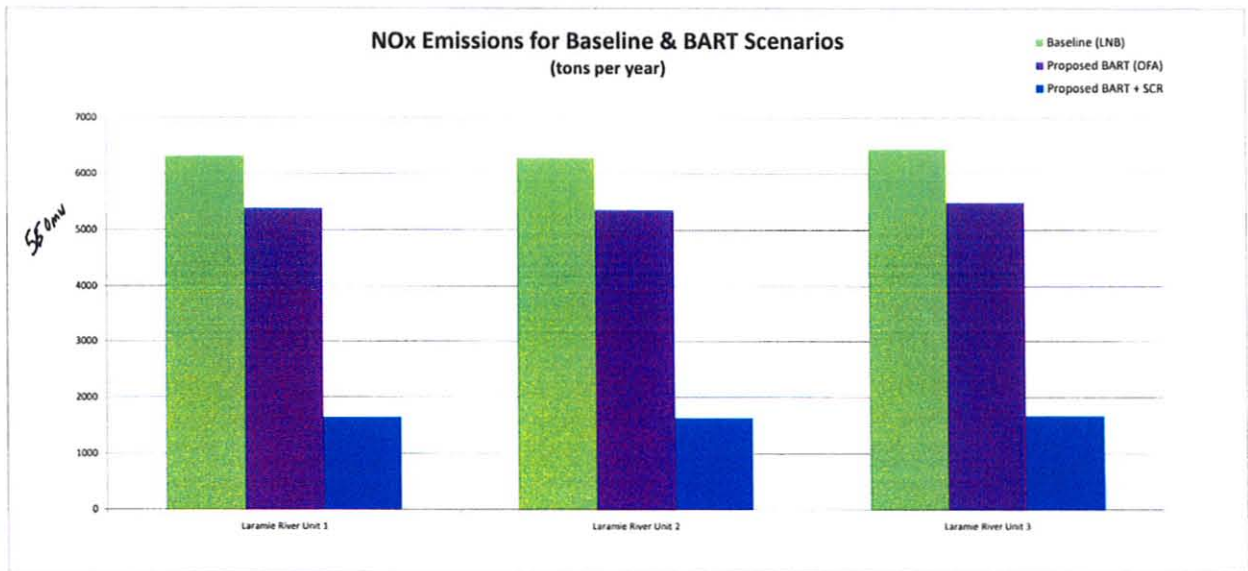
BART vs. Recent BACT for NO_x

Company - Facility	Unit	Control Scenario	NO _x Control	Average Cost Effectiveness (\$/ton)	Incremental Cost Effectiveness (\$/ton)	Tons Removed (tpy)
Recent BACT Decisions						
Black Hills Corporation - WYGEN 2	—	—	SCR/LNB/OFA, 0.07 lb/MMBtu	4,156	7,742	4,283
Black Hills Corporation - WYGEN 3	—	—	SCR/LNB/OFA, 0.05 lb/MMBtu	4,037	11,102	968
Basin Electric - Dry Fork Station	—	—	SCR/LNB/OFA, 0.05 lb/MMBtu	1,751	10,303	4,279
BART Options						
Basin Electric - Laramie River	Unit 1	Proposed BART	OFA, 0.23 lb/MMBtu	668	668	936
		Proposed BART + SCR	SCR/LNB/OFA, 0.07 lb/MMBtu	3,372	7,392	4,681
	Unit 2	Proposed BART	OFA, 0.23 lb/MMBtu	671	671	931
		Proposed BART + SCR	SCR/LNB/OFA, 0.07 lb/MMBtu	3,391	7,433	4,656
	Unit 3	Proposed BART	OFA, 0.23 lb/MMBtu	654	654	955
		Proposed BART + SCR	SCR/LNB/OFA, 0.07 lb/MMBtu	3,305	7,245	4,777

Note: Tons removed for BART options represent the reduction from baseline

8/8/2008

AQD LRS BART
000593

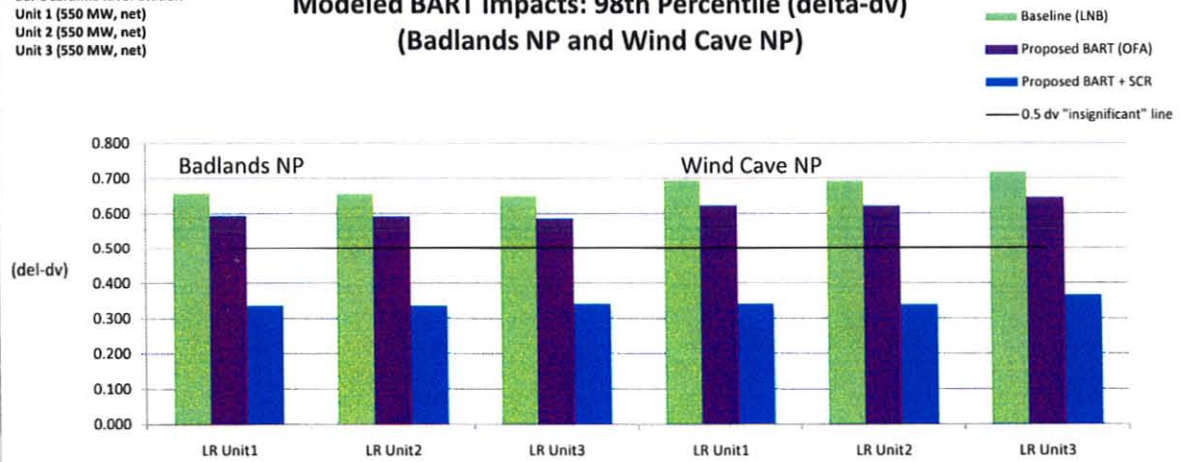


8/8/2008

AQD LRS BART
000594

BEPC Laramie River Station
Unit 1 (550 MW, net)
Unit 2 (550 MW, net)
Unit 3 (550 MW, net)

Modeled BART Impacts: 98th Percentile (delta-dv) (Badlands NP and Wind Cave NP)



(Modeling results represent the three-year average of results using 2001-2003 meteorology)

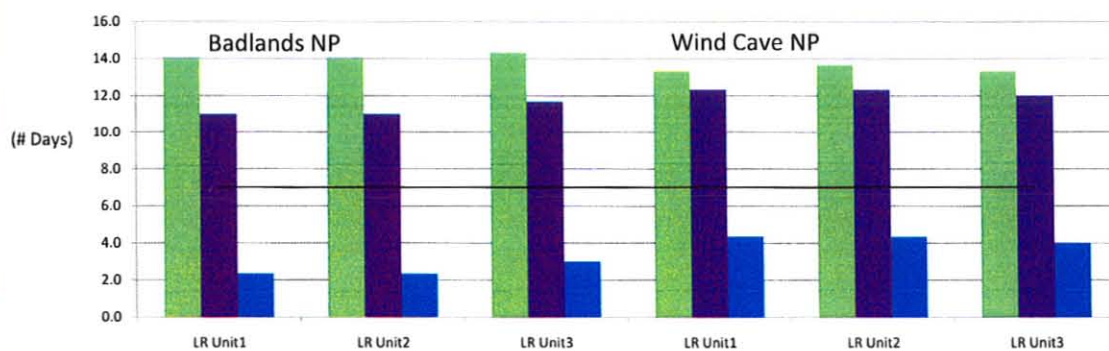
8/8/2008

AQD LRS BART
000595

BEPC Laramie River Station
Unit 1 (550 MW, net)
Unit 2 (550 MW, net)
Unit 3 (550 MW, net)

Modeled BART Impacts: # of Days > 0.5 dv (Badlands NP and Wind Cave NP)

Baseline (LNB)
Proposed BART (OFA)
Proposed BART + SCR
98th Perc. "Insignificant" Line



(Modeling results represent the three-year average of results using 2001-2003 meteorology)

8/8/2008

AQD LRS BART
000596

BART vs. Recent BACT for NO_x

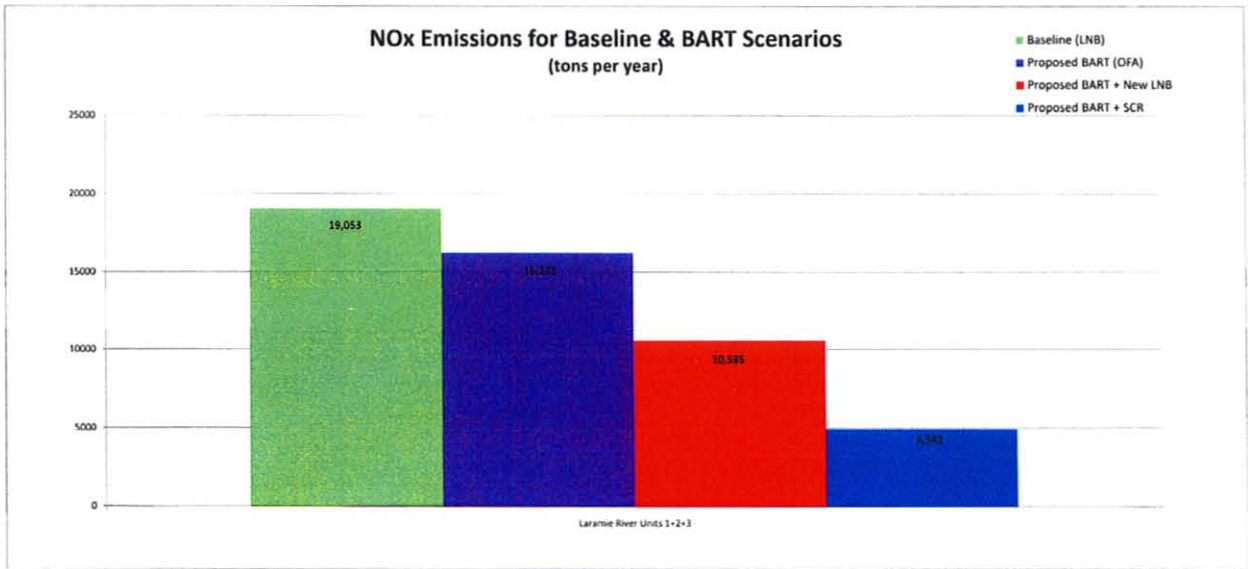
Company - Facility	Unit	Control Scenario	NO _x Control	Average Cost Effectiveness (\$/ton)	Incremental Cost Effectiveness (\$/ton)	Capital Cost (\$MM)	Tons Removed (tpy)
Recent BACT Decisions							
Black Hills Corporation - WYGEN 2	--	--	SCR/LNB/OFA, 0.07 lb/MMBtu	4,156	7,742	--	4,283
Black Hills Corporation - WYGEN 3	--	--	SCR/LNB/OFA, 0.05 lb/MMBtu	4,037	11,102	--	968
Basin Electric - Dry Fork Station	--	--	SCR/LNB/OFA, 0.05 lb/MMBtu	1,751	10,303	--	4,279
BART Options							
Basin Electric - Laramie River	Unit 1	Proposed BART	OFA, 0.23 lb/MMBtu	668	--	5.3	936
		Proposed BART + New LNB	OFA/New LNB, 0.15 lb/MMBtu	692	704	22.1	2,809
		Proposed BART + SCR	SCR/LNB/OFA, 0.07 lb/MMBtu	3,372	7,392	123.1	4,681
	Unit 2	Proposed BART	OFA, 0.23 lb/MMBtu	671	--	5.3	931
		Proposed BART + New LNB	OFA/New LNB, 0.15 lb/MMBtu	696	708	22.1	2,793
		Proposed BART + SCR	SCR/LNB/OFA, 0.07 lb/MMBtu	3,391	7,433	123.1	4,656
	Unit 3	Proposed BART	OFA, 0.23 lb/MMBtu	654	--	5.3	955
		Proposed BART + New LNB	OFA/New LNB, 0.15 lb/MMBtu	678	690	22.1	2,866
		Proposed BART + SCR	SCR/LNB/OFA, 0.07 lb/MMBtu	3,305	7,245	123.1	4,777

Note: Tons removed for BART options represent the reduction from baseline

SCR is on top of current business

9/5/2008

AQD LRS BART
000597



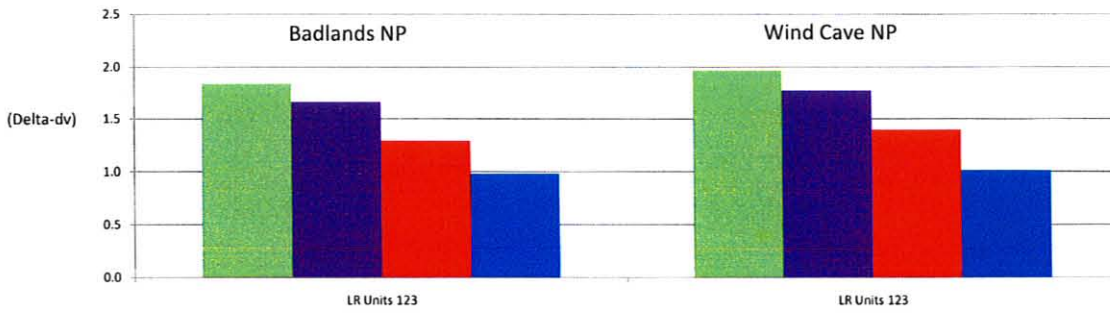
9/5/2008

AQD LRS BART
000598

BEPC Laramie River Station
Unit 1 (550 MW, net)
Unit 2 (550 MW, net)
Unit 3 (550 MW, net)

Modeled BART Impacts: 98th Percentile (delta-dv) (Badlands NP and Wind Cave NP)

- Baseline
- Proposed BART (OFA)
- Proposed BART + New LNB
- Proposed BART + SCR



(Modeling results represent the three-year average of results using 2001-2003 meteorology)

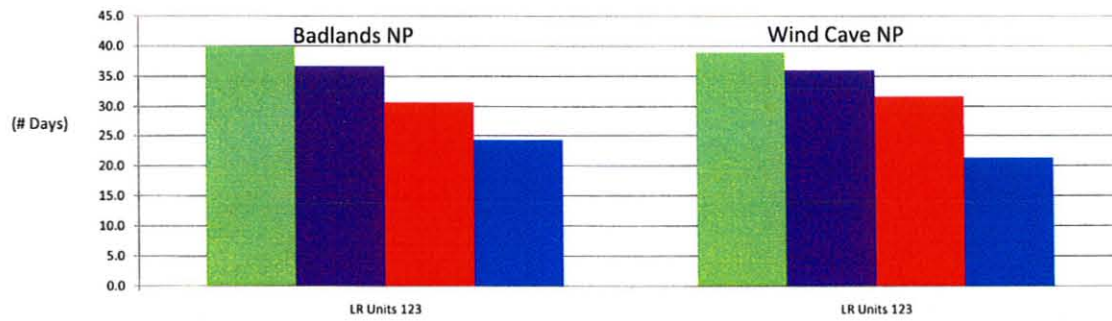
9/5/2008

AQD LRS BART
000599

BEPC Laramie River Station
Unit 1 (550 MW, net)
Unit 2 (550 MW, net)
Unit 3 (550 MW, net)

Modeled BART Impacts: # of Days > 0.5 dv (Badlands NP and Wind Cave NP)

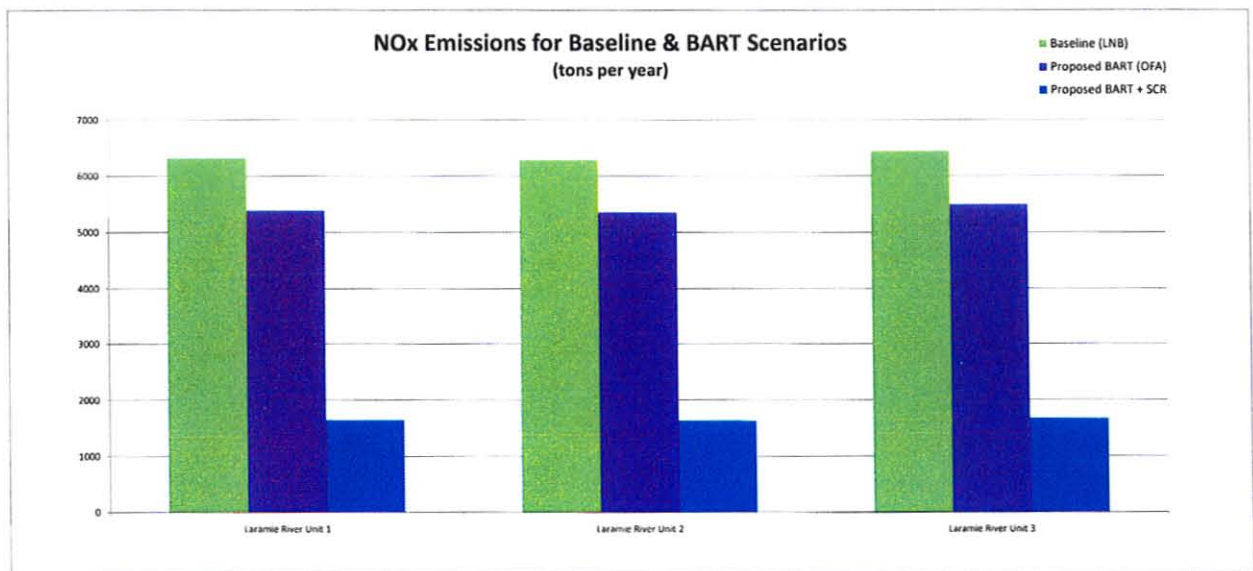
- Baseline
- Proposed BART (OFA)
- Proposed BART + New LNB
- Proposed BART + SCR



(Modeling results represent the three-year average of results using 2001-2003 meteorology)

9/5/2008

AQD LRS BART
000600

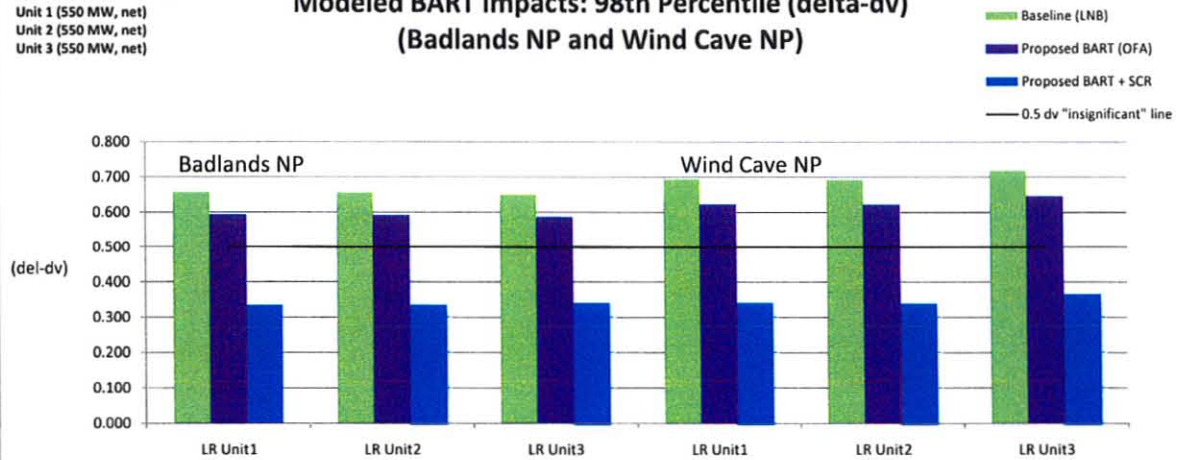


9/5/2008

AQD LRS BART
000601

BEPC Laramie River Station
Unit 1 (550 MW, net)
Unit 2 (550 MW, net)
Unit 3 (550 MW, net)

Modeled BART Impacts: 98th Percentile (delta-dv) (Badlands NP and Wind Cave NP)



(Modeling results represent the three-year average of results using 2001-2003 meteorology)

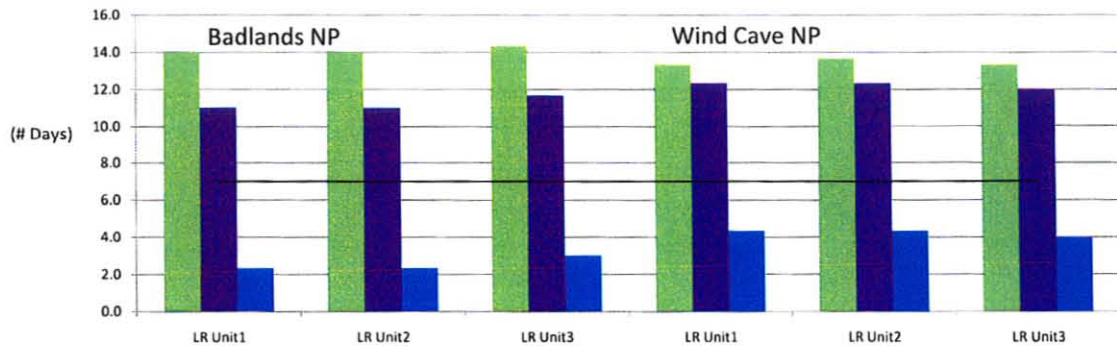
9/5/2008

AQD LRS BART
000602

BEPC Laramie River Station
 Unit 1 (550 MW, net)
 Unit 2 (550 MW, net)
 Unit 3 (550 MW, net)

Modeled BART Impacts: # of Days > 0.5 dv (Badlands NP and Wind Cave NP)

■ Baseline (LNB)
 ■ Proposed BART (OFA)
 ■ Proposed BART + SCR
 — 98th Perc. "Insignificant" Line



(Modeling results represent the three-year average of results using 2001-2003 meteorology)

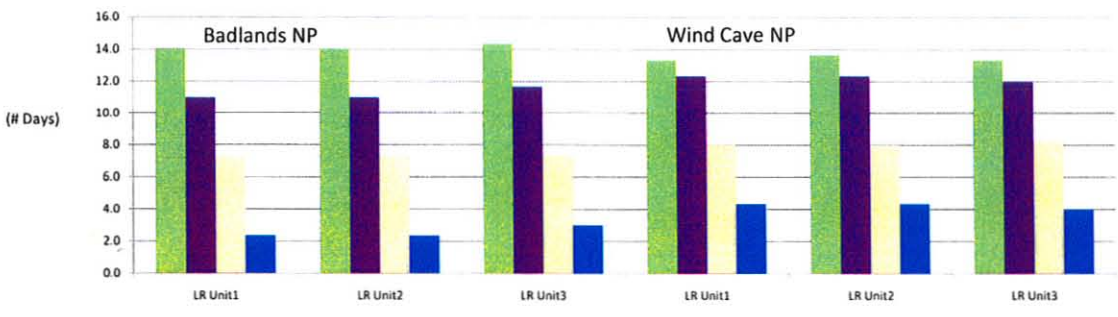
9/5/2008

AQD LRS BART
 000603

BEPC Laramie River Station
 Unit 1 (550 MW, net)
 Unit 2 (550 MW, net)
 Unit 3 (550 MW, net)

Modeled BART Impacts: # of Days > 0.5 dv (Badlands NP and Wind Cave NP)

- Baseline (LNB)
- Proposed BART (OFA)
- OFA + New LNB
- Proposed BART + SCR



(Modeling results represent the three-year average of results using 2001-2003 meteorology)

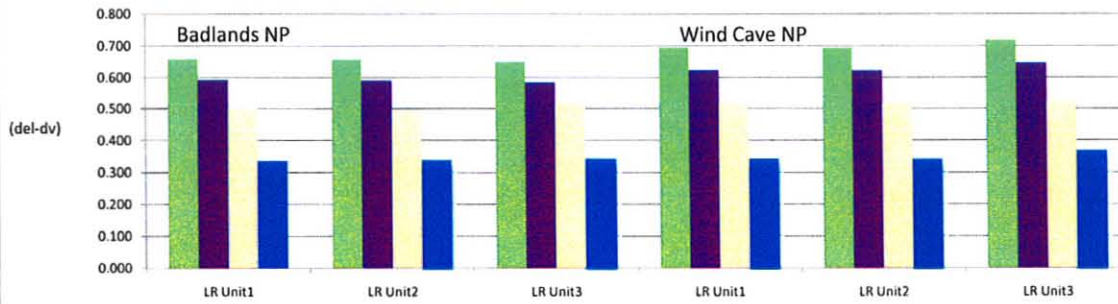
10/15/2008

AQD LRS BART
 000604

BEPC Laramie River Station
Unit 1 (550 MW, net)
Unit 2 (550 MW, net)
Unit 3 (550 MW, net)

Modeled BART Impacts: 98th Percentile (delta-dv) (Badlands NP and Wind Cave NP)

- Baseline (LNB)
- Proposed BART (OFA)
- OFA + New LNB
- Proposed BART + SCR



(Modeling results represent the three-year average of results using 2001-2003 meteorology)

10/15/2008

AQD LRS BART
000605