THE PUBLIC UTILITIES COMMISSION

EL05-022

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OF THE STATE OF SOUTH DAKOTA SEP 2 1 2005

UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION BY OTTER TAIL POWER COMPANY ON BEHALF OF BIG STONE II CO-OWNERS FOR AN ENERGY CONVERSION FACILITY PERMIT FOR THE CONSTRUCTION OF THE BIG STONE II PROJECT

BEFORE THE PUBLIC UTILITIES COMMISSION,

GARY HANSON, CHAIRMAN BOB SAHR, VICE CHAIRMAN DUSTY JOHNSON, COMMISSIONER

COMMISSION STAFF

John Smith Karen Cremer Greg Rislov Michele Farris Steve Wegman Pam Bonrud

EXHIBIT NO C. BACHAND

APPEARANCES

THOMAS J. WELK and CHRISTOPHER W. MADSEN, BOYCE, GREENFIELD, PASHBY & WELK, Attorneys at Law, P.O. Box 5015, Sioux Falls, South Dakota 57117, appearing on behalf of Big Stone II;

BRUCE GERHARDSON,

OTTER TAIL CORPORATION,

Associate General Counsel, P.O. Box 496, Fergus Falls, Minnesota 56538-0496, appearing on behalf of Big Stone II.

Reported By Cheri McComsey Wittler, RPR, CRR



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REFERENCE

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EL05-022

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1	THE PUBLIC UTILITIES					3
2	OF THE STATE OF SC	OUTH DAKOTA			1	CHAIRMAN HANSON: My name is
3					2	Gary Hanson. I'm a Commissioner with the PUC.
4	IN THE MATTER OF THE APPLICAT				3	With me this evening, Bob Sahr and Dusty Johnson,
5	OTTER TAIL POWER COMPANY ON BE BIG STONE II CO-OWNERS FOR AN		ELO	5-022	4	Commissioners as well. We're going to ask you
6	CONVERSION FACILITY PERMIT FOR CONSTRUCTION OF THE BIG STONE					
		11 11000001			5	we're having a little challenge with the microphone
7	 Transcript of				6	here. I was going to ask you to use it, but that
8	September	13, 2005			7	won't help us at all.
9	BEFORE THE PUBLIC UTILITIES CO	OMMISSION			8	Please use your outside voice when you are
10		omination,			9	chatting with us this evening. Make sure everyone
11	GARY HANSON, CHAIRMAN BOB SAHR, VICE CHAIRMAN				10	can hear. We do have a court reporter. This is an
12	DUSTY JOHNSON, COMMISSIO	NER			11	official hearing. So she needs to be able to
	COMMISSION STAFF				12	5
13	John Smith					transcribe everything. In order to do that, she
14	Karen Cremer Greg Rislov				13	needs to be able to hear you. We do encourage you
15	Michele Farris Steve Wegman				14	to address the Commission. We want you to have an
16	Pam Bonrud				15	opportunity to speak this evening. When you do so,
17	APPEARANCES				16	please identify yourself, and if you are with an
18	THOMAS J. WELK and CHRIS	TOPHER W. MA	DSEN.		17	organization and you're representing that
	BOYCE, GREENFIELD,	PASHBY & WEL	к,		18	organization, please identify that organization.
19	Attorneys at Law, P Sioux Falls, South	Dakota 5711	.7,			
20	appearing on behalf	of Big Ston	ne II;		19	Otherwise, when we're reading transcripts we won't
21	BRUCE GERHARDSON, OTTER TAIL CORPORAT	TON			20	know who was speaking.
22	Associate General C	cunsel, P.O.		,	21	There is a sign up sheet in the back. The
23	Fergus Falls, Minne appearing on behalf				22	purpose of that is so that we can send information
24	Reported By Cheri McComs	ey Wittler,	RPR, CRR		23	to you if it's appropriate. So we would like you
25		-			24	to sign the sign up sheet. Put your name and
20					25	address on that. That will be greatly appreciated.
1	TRANSCRIPT OF PROCEEN	DINGS, held :	in the	2		4
2	above-entitled matter, at the	e Lantern In	a,		1	I was going to use the microphone and sit over
3	Milbank, South Dakota, on the			er	2	there to read this. I'll read it from this spot so
			r neptenn		3	you can hear a little bit easier.
4	2005, commencing at 7 o'clock	ср.ш.			4	This is a public hearing for a proposed energy
5					5	conversion facility. The meeting will come to
6	IN	DEX				order for the public input hearing in Docket
7	Exhibit Nos.	м	<u>o</u>	R		
8	1A - Big Stone II CD	54	54	54		No. EL05-022, entitled In the Matter of the
9	1B - Big Stone II paper				8	Application by Otter Tail Power Company on Behalf
	presentation	54	54	54	9	of Big Stone II Co-owners for an Energy Conversion
10	2 - Sokolski comments	80	80	80	10	Facility Permit for the Construction of the Big
11	3A - Stueve comments	104	104	1.04	11	Stone II Project.
12	3B - Stueve comments	104	104	104	12	The date is September 13, 2005. The time is
13	3C - Stueve comments	104	104	104	13	7 p.m. The place of this hearing is Milbank,
14	30 - Stueve comments	104	TOA	104		
15					14	South Dakota. This hearing concerns an application
16					15	for a permit for an energy conversion facility
					16	submitted by Otter Tail Power Company to the
17					17	Public Utilities Commission on July 22, 2005. For
18 19					18	those of you who are not familiar with the
					19	technology, an energy conversion facility simply
20						
21					20	means an electric generating facility. The energy
22					21	conversion facility proposed in the application is
23					22	a rated 600 megawatt coal fire electric generated
24					23	facility and associated facilities which the
25					24	project owners have named Big Stone II.
1 23						If approved, the proposed new generating
					25	I SODLOVED. THE DLODOSED NEW GENERATING

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	facilities will be located on an industrial site	1	allowing me to get through the formality that is
	2 adjacent to the existing Big Stone Plant Unit 1 in	2	required at the beginning of the hearing.
	3 Grant County, South Dakota near the town of	3	Mr. Welk, I understand you're the attorney
	4 Big Stone City. Otter Tail Power Company is the	4	representing Otter Tail Power Company. I'll allow
	5 name for the utility division of Otter Tail	5	you to certainly go first since it is your docketed
	6 Corporation, an investor-owned corporation	6	item, and please introduce the members of your
-	7 headquartered in Fergus Falls, Minnesota.		organization. Thank you.
	8 Otter Tail submitted the application on behalf of	8	MR. WELK: Thank you, Mr. Chairman,
	9 itself and its project co-owners who are Central	9	Commissioners, members of the public. My name is
	Minnesota Municipal Power Agency, Great River	10	Tom Welk. I'm one of the attorneys for the
1	Energy, Heartland Consumers Power District,	11	project. With me, other attorneys are Chris Madsen
	Montana-Dakota Utilities Company, which is a	12	from my law firm to the right and Bruce Gerhardson,
		13	who is the Associate General Counsel. You can tell
		14	us by our ties as the attorneys.
		15	
	5 Western Minnesota Municipal Power Agency.		We have a number of witnesses tonight that we
	16 The purpose of this hearing is to provide	16	would like to utilize to present the project to the
	7 information to the public about Otter Tail's	17	Commission and to the members of the public. We
	18 proposed project and to hear public comments	18	have it's approximately about if the timing is
	19 regarding the proposed project. Interested persons	19	correct, about 50 to 60 minutes. It's a
	20 have the right to present their views and comments	20	Power Point presentation. It will be divided
	21 regarding the application. And we encourage you to	21	through several witnesses.
	22 please do so.	22	Mark Rolfes, the project manager, is going to
	A copy of the application is on file with the	23	give us a background on the history of the project,
	24 Grant County Auditor. The public may also access	24	the technologies we're considering, the site, why
	25 the application and all other nonconfidential	25	it was selected here. Then we're going to have
	6		8
1	1 documents in the file on the Commission's website	1	Stacie Hebert talk about the demand and why this
	2 at www.puc.sd.gov under Commission Actions,	2	facility is going to need to be there.
	3 Commission Dockets, 2005 Electric Dockets, and	3	Bill Swanson is going to talk about the facilities
	4 scroll down to EL05-022.	4	and what it's going to look like. Terry Graumann
	5 The parties to this proceeding at this time	5	is going to talk about the emission control
	6 are Otter Tail and the Commission. Under	6	technologies. And John Lee, the consulting
	7 South Dakota Law each municipality, county, and		engineer, is going to go through the review of what
	8 governmental agency in the area where the facility	8	the environmental community impacts have been and
	9 is proposed to be constructed, any nonprofit	9	also what the community service is that might be
	10 organization formed in whole or in part to promote	10	affected.
	11 conservation or natural beauty, to protect the	11	We have these in various segments that we're
		12	going to have presented. We also have a couple of
	• • •	12	
	13 values, to preserve historical sites, to promote		other engineers, Todd Sundbom from Burns &
	14 consumer interests, to represent commercial and	14	McDonnell, and Andrew Skogeland (phonetic).
	15 industrial groups, or to promote the orderly	15	They're available here also for questions for
	16 development of the area in which the facility is to	16	members of the Commission or the staff or anyone,
	be constructed, or any interested person may be	17	if there are some technical questions.
	18 granted party status in this proceeding by making a	18	l don't know, Mr. Chairman, how you want to
	19 written application to the Commission on or before	19	proceed, whether we want to hold the questions
	20 September 19, 2005.	20	until the end, but that's just to kind of give you
	21 We have applications available here this	21	an overview of what we've got to present.
Ų	22 evening if you'd like to apply for party status.	22	CHAIRMAN HANSON: Thank you,
Í	23 As of this time the only person or organization	23	Mr. Welk. Generally what takes place is that we
	24 that has applied for intervener party status is	24	allow you to make your entire presentation, and
	25 Clean Water Action. Thank you very much for	25	then we can make comment afterwards. That way we

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	1 aren't asking questions that you will be covering.	1	So this project is bringing together the three					
	2 So we'd appreciate it if you go ahead with your	2	different types of utilities to get a better					
	3 presentation and then we will have questions and	3	project. We've got investor owned, municipals, and					
	4 then we'll go to public comment.	4	cooperatives working together to make a better					
	5 MR. WELK: Okay. Thank you,	5	project.					
	6 Mr. Chairman. I'd call Mark Rolfes, and I'd ask	6	Now this is a baseload resource that we are					
	7 each witness as they get up just to give a couple	7	proposing. It's not the only resource in these					
	8 of minutes or half a minute on who they are and	8	companies' energy mix, but this project we began by					
	9 their background so the Commissioners and public	9	looking at the potential sources of energy for this					
	10 know who they are.	10	baseload project. We considered wind, but wind is					
	MR. ROLFES: Commissioners, I'm	111	not suitable for a baseload resource. We need					
1	12 Mark Rolfes, as Mr. Welk said. I'm a registered	12	something that is there 24 hours a day, seven days					
	13 engineer in the State of South Dakota and	13	a week.					
	14 Minnesota. I've been in the power generation	14	We looked at the next three: Supercritical,					
	business for 28 years, half of that time as the	15	atmospheric circulating fluidized bed, and					
	16 manager of the existing Big Stone I facility.	16	integrated gasification combined cycle, which are					
1	17 I really want to express my appreciation for	17	really coal-based technologies. Of those,					
	18 the chance to address you tonight to tell you about	18	integrated gasification is heard you hear a lot					
	19 the Big Stone II project. We feel we have an	19	in the media today, is not a commercially available					
	20 extremely good project that's going to be good for	20	technology. It's in the demonstration phase. So					
	21 our customers, good for the communities that we	21	we ruled that out as we were not in an experimental					
	22 serve, and very good for the environment.	22	mode. We needed commercially available technology.					
	23 With that, I'd like to just very briefly touch	23	The final one is combined cycle gas turbine.					
	24 on the history of the Big Stone II project. The	23						
	25 existing Big Stone I facility has been in operation	25	, , , , , , , , , , , , , , , , , , , ,					
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1	10		12					
	1 since 1975, and it's also a co-owned facility by	1	pricing and availability, we felt that was not a					
	2 three investor-owned utilities.	2	good option. So that brought us back to the two					
	3 In 1995 Otter Tail began the study of its	3	coal options, the advanced the atmospheric					
	4 options for future generation resources, and in	4	circulating fluidized bed, and the pulverized coal					
	5 that study we came to the conclusion that	5	supercritical boiler. Because of the fuel we're					
	6 Big Stone II was our best option for baseload	6	considering burning, Powder River Basin fuel, we					
	7 resources and we've continued studies throughout	7	felt the supercritical pulverized boiler is better					
	8 the years until late in 2003 we knew that	8	as it is more efficient and better suited for the					
	9 Otter Tail Power Company had need for baseload	9	fuel that we will be burning.					
	10 resources and we began the process of trying to see	10	, , , , , , , , , , , , , , , , , , , ,					
	11 if there was the critical mass, so to speak, to do	11	people following will get down into more of the					
	12 a baseload facilities.	12						
	13 Seven utility companies have come together to	13	65.					
	14 propose the Big Stone II project. And as the	14						
	15 Petition said, they're Otter Tail Power Company,	15						
	16 Heartland Consumers Power District, Montana-Dakota							
	17 Utilities Company, Southern Minnesota Municipal	17	13					
	18 Power Agency, Missouri River Energy Services, Great	18	6					
	19 River Energy, and Central Minnesota Municipal Power	19	1 1					
	20 Agency.	20						
	21 I'd like to point out that Otter Tail Power	21	after we considered all of the attributes needed					
Į	22 Company and MDU are investor owned utilities.	22	U					
	23 Heartland Southern Minnesota, Missouri River, and	23						
	24 CMMPA are municipal associations, and Great River	24	because of its existing infrastructure,					
	25 Energy is a generation transmission cooperative.	25	transmission, et cetera, was the best location for					

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1	this proposed baseload facility.	1	dark blue bars.
2	Now the final thing I'd like to point out,	2	On this left-hand access there you'll see zero
3	this is a rough map of the service territories of	3	megawatts along the centerline. Anything above
4	MDU, Otter Tail, and Great River, and the dots	4	zero means that there is surplus capacity, there's
5	representing the communities served by the	5	excess capacity. Once you go below that line, you
6	municipal associations. You'll see the proposed	6	start to have deficits, meaning there's not enough
7	location for the Big Stone II is in the center of	7	capacity to satisfy the projected need for the
8	this geographical area. The plant will serve the	8	MAPP Region.
	÷ ÷ ·	9	5
9	communities and the farms and such that surround		You can see the MAPP U.S. in the light blue is
10	it.	10	projected to go deficit starting in 2010 with a
11	This is an ideal setting for the communities	11	94 megawatt deficit that grows to 819 megawatts in
12	that need the power. This is not a facility	12	2011, just under 1,500 megawatts in 2012.
13	designed to move power to Chicago or Minneapolis.	13	You can also notice that the MAPP Canada
14	It's designed to serve the communities and the	14	portion of the graph in the dark blue doesn't ever
15	farms that surround the project.	15	go deficit. It's tempting to say, well, why don't
16	With that, I will turn it over to Stacie to	16	we just look north to Canada to help satisfy these
17	talk about the need for the facility.	17	resource needs?
	-	18	
18	MS. HEBERT: Commissioners, my name		Well, there's really two problems with that:
19	is Stacie Hebert. I'm with Otter Tail Power	19	Number one, Canada is predominantly a hydroelectric
20	Company. I've been with the utilities for 13 years	20	system. They plan for energy needs which a lot of
21	working in resource planning for 12 of those years,	21	times leads to surplus capacity. So there may be
22	and in the last year and a half I've been working	22	capacity available in Canada, but that may not be
23	in fuel and freight. I'm a registered mechanical	23	backed up with energy.
24	engineer in the State of Minnesota.	24	Secondly, the transmission lines between the
25	Can you hear me okay?	25	United States and Canada are already fully utilized
20	oan you nour me oray:	20	onitod otatos and odnada are anoday funy atinzod
	14		16
1	14 The purpose of this portion of the	1	16 so if we were to look at bringing down if there
1 2		1 2	
1 2 3	The purpose of this portion of the presentation is to talk about why there is a need	1 2 3	so if we were to look at bringing down if there
3	The purpose of this portion of the presentation is to talk about why there is a need for the Big Stone II facility. What this map	3	so if we were to look at bringing down if there was surplus energy and capacity in Canada, if we wanted to bring it down to the United States, we
3	The purpose of this portion of the presentation is to talk about why there is a need for the Big Stone II facility. What this map shows, and I want you to focus on the blue states,	3 4	so if we were to look at bringing down if there was surplus energy and capacity in Canada, if we wanted to bring it down to the United States, we would have to add significant amounts of
3 4 5	The purpose of this portion of the presentation is to talk about why there is a need for the Big Stone II facility. What this map shows, and I want you to focus on the blue states, it's an area called the MAPP Region. MAPP stands	3 4 5	so if we were to look at bringing down if there was surplus energy and capacity in Canada, if we wanted to bring it down to the United States, we would have to add significant amounts of transmission. So it's not a real viable option for
3	The purpose of this portion of the presentation is to talk about why there is a need for the Big Stone II facility. What this map shows, and I want you to focus on the blue states, it's an area called the MAPP Region. MAPP stands for the Midcontinent Area Power Pool.	3 4	so if we were to look at bringing down if there was surplus energy and capacity in Canada, if we wanted to bring it down to the United States, we would have to add significant amounts of transmission. So it's not a real viable option for us to just look north and think that we can solve
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3 4 5 6 7 8	The purpose of this portion of the presentation is to talk about why there is a need for the Big Stone II facility. What this map shows, and I want you to focus on the blue states, it's an area called the MAPP Region. MAPP stands for the Midcontinent Area Power Pool. It's a region where the utilities have joined together to enhance reliability, and it is the	3 4 5 6 7 8	so if we were to look at bringing down if there was surplus energy and capacity in Canada, if we wanted to bring it down to the United States, we would have to add significant amounts of transmission. So it's not a real viable option for us to just look north and think that we can solve our resource needs through Canada. Again, the purpose of this graph is to just
3 4 5 6 7 8 9	The purpose of this portion of the presentation is to talk about why there is a need for the Big Stone II facility. What this map shows, and I want you to focus on the blue states, it's an area called the MAPP Region. MAPP stands for the Midcontinent Area Power Pool. It's a region where the utilities have joined together to enhance reliability, and it is the region that all of the Big Stone II project	3 4 5 6 7 8 9	so if we were to look at bringing down if there was surplus energy and capacity in Canada, if we wanted to bring it down to the United States, we would have to add significant amounts of transmission. So it's not a real viable option for us to just look north and think that we can solve our resource needs through Canada. Again, the purpose of this graph is to just point out that the MAPP Region, those blue states,
3 4 5 6 7 8 9 10	The purpose of this portion of the presentation is to talk about why there is a need for the Big Stone II facility. What this map shows, and I want you to focus on the blue states, it's an area called the MAPP Region. MAPP stands for the Midcontinent Area Power Pool. It's a region where the utilities have joined together to enhance reliability, and it is the region that all of the Big Stone II project participants are located within. One of the	3 4 5 6 7 8 9 10	so if we were to look at bringing down if there was surplus energy and capacity in Canada, if we wanted to bring it down to the United States, we would have to add significant amounts of transmission. So it's not a real viable option for us to just look north and think that we can solve our resource needs through Canada. Again, the purpose of this graph is to just point out that the MAPP Region, those blue states, are forecasting to be capacity deficit in 2010.
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1	Watt is maybe something if you think in terms of a	1	intermediate type of generation. That really falls
2	light bulb. A 100-watt light bulb running for one	2	between peaking and baseload. As you can see as we
3	hour would be 100 watt hours. Well, this is	3	look at the characteristics, it's got an immediate
4	1 billion watt hours, just to put that into	4	capital cost, immediate fuel cost, and typical
5	perspective. And this represents all of the	5	energy production falls between the peaking and the
6	MAPP Region.	6	baseload.
7	Mark had mentioned that the seven Big Stone II	7	Just to kind of bring it together, we've got
8	co-owners, project participants, are projecting a	8	the seven Big Stone II co-owners, each identifying
9	need for baseload resources. And I just wanted to	9	a baseload resource need. We've got the MAPP
10	talk a little bit, give you a little bit of	10	Region, which is forecasting a deficit and
11	background on what the different types of	11	significant energy growth. We can't really look to
12	generating resources are.	12	the market to satisfy this need. We need to build
13	Each of the utilities have identified	13	a new facility to satisfy this need in the most
14	internally in their own analysis a need for	14	economical way for our customers.
15	baseload resources. That doesn't mean that's the	15	And I'll turn it over to Bill Swanson.
16	only resource they need, but because of that	16	COMMISSIONER JOHNSON: Sorry to
17	baseload resource, that has brought all seven of	17	interrupt. What would be the intermediate fuel if
18	the utilities together to pursue a plant that is	18	gas is peaking and coal is
19	larger than they can do on their own so they can	19	MS. HEBERT: Mark gave a number of
20	take advantage of some economies of scale.	20	examples of baseload; coal-fired resources, natural
20	Just walking through each of the types, the	20	gas combined cycle. Sometimes you would see
21	three types of generation, baseload generation and	22	natural gas combined cycle using an intermediate
22	peaking have their own characteristics. I'll start	22	mode where it doesn't necessarily run all the time.
23		23	COMMISSIONER JOHNSON; Thanks.
24	talking about the peaking resources. And this is like an oil-fired combustion turbine, would be an	24	
20		2.5	MR. SWANSON: Good evening. My name
	18		20
[1	example. It's got typically a low capital cost.	1	is Bill Swanson. I'm an employee of Otter Tail
2	It doesn't cost a lot to build, but it's got a high	2	Power Company and registered engineer in the
3	fuel cost, a high operating cost.	3	State of South Dakota. I've been an employee of
4	And because of those characteristics, it	4	Otter Tail Power Company for 11 years, and I'm
5	generally does not run many hours during the year.	5	lucky enough to work in the engineering department
6	It may run on the very hot days, it may run on the	6	at the Big Stone Plant my entire career.
7	very cold winter days, or it may run when there's a	7	What I'm going to be talking about is some of
8	system emergency, but generally it's very	8	the site-specific work we've done on the project,
9	short-duration runs, a few hours during the year.	9	kind of laying out the site and the work we've done
10	It fills an important role. It's a type of	10	in identifying the facility. I'm going to be
11	generation that is needed, but it's it's not the	11	flipping to some different maps in the next few
12	type it doesn't satisfy the baseload need that	12	slides, and there's one identifiable thing that you
13	the Big Stone participants are looking for.	13	can see from all of these and that's the cooling
14	And I'll jump now to the baseload type of	14	pond.
15	resource need. That typically baseload resource	15	The cooling pond has this T in the center of
16	would have a high capital cost but a low operating	16	it. At the base of that T is where the plant
17	cost. And because of those characteristics, what	17	exists, and the plant is what you can see from
18	you see from a baseload generation resource is that	18	Highway 12 from the area. So when you go to these
19	it operates for the most part at or near its	19	different slides when you look and you try to
20	maximum point every day out of the year. It's	20	identify a landmark the cooling pond can be seen in
21	there 24-seven, with the exception of maintenance	21	all of these slides so it helps orient you in all
22	periods and those kind of things. It provides not	22	of these slides.
23	only capacity, but it also provides a significant	23	So this is the cooling pond and the plant
24	amount of energy.	24	area. The plant exists right here. Big Stone City
25	Now I've kind of skipped over this	25	is in this location. Big Stone Lake on the east
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1	side of the plant property. The ethanol plant,	1	we call the evaporation pond and holding pond.				
2	Northern Lights Ethanol Plant, is just to the south	2	What the Big Stone site is is a zero liquid				
3	of the plant building. And the rail facility	3	discharge facility, which means we don't discharge				
4	coming into the site is this red line going through	4	water away from our site. It only leaves through				
5	where we unload our coal.	5	evaporation.				
6	One of the great things about this site is the	6	We're very proud of that environmental record				
7	opportunity to share in the existing infrastructure	7	that we've been able to maintain, and we want to				
8	with the Big Stone I plant. The cooling water	8	continue that with the Big Stone II site. So the				
9	intake from Big Stone Lake, the pumping structure,	9	water balance is something we've put a lot of				
10	the pipeline system, none of that has to change to	10	effort into looking at that and see how we can pump				
11	satisfy the needs of Big Stone II. So we'll be	11	water from Big Stone Lake when it's available and				
12	reusing that facility.	12	maintain the water balance with all the chemistries				
13	Obviously the plant roads are in place to use	13	on the site.				
14		14	So one of the things that we are going to be				
15	be the same rail spur to deliver coal to	15	doing is we're going to be building a large water				
16		16	storage pond so we can pump water up from Big Stone				
17	have a rotary dumper at the site so that is going	17	Lake when it's available. We're going to have a				
18		18	water storage capacity of about 9,900 acre feet,				
19		19	and that will also be some of the makeup supplied				
20		20	to the cooling ponds. From the cooling pond that				
20		20	will make up the supply to the Big Stone II cooling				
22		22	tower.				
23	· · · · · · · · · · · · · · · · · · ·	23	COMMISSIONER JOHNSON: Could you say				
23		23					
25		24 25	that last sentence again, sort of walk through. MR. SWANSON: You bet. From the				
20	l	20					
1	22		24				
1	you saw from the other map. This is the existing	1	whole site this is the pumping station from				
2	power plant that can be seen from a ways away. The	2	Big Stone Lake. From there it will be pumping				
3	new plant will be just to the southwest of the	3	water from the evaporation pond or the holding pond				
4	existing plant. So the turbine and the boiler	4	or the new water storage pond this will be a new				
5	building will be immediately adjacent to it. The	5	facility built from Big Stone II and from there				
6	pollution control system, the baghouse and wet	6	back to the cooling pond. The cooling pond is used				
7	scrubber will be just to this side.	7	as cooling water for Big Stone I, and it's also the				
8	We'll have a cooling tower. That's one	8	makeup water for the cooling tower for the Big				
9	difference from the new plant to the old plant is	9	Stone II.				
10		10	COMMISSIONER JOHNSON: The makeup				
11	cooling tower. The cooling tower will be located	11	water, can you explain what makeup water is?				
12	9	12	MR. SWANSON: Sure. There's an				
13	B blow down pond, and this is also a water source for	13	evaporation process. Using the cooling towers				
14	the wet scrubber that we're going to be talking	14	there is always waters that need to be made up into				
1	about in some future slides. This is also the coal	15	that process. So that's where that source of water				
16	5 storage area, and that area is sufficient enough to	16	comes from.				
17	7 handle both units.	17	VICE CHAIRMAN SAHR: What time of				
18	B Okay. Water is an important part of a	18	the year would you be doing most of the pumping on				
1	•	19	the lake?				
20		20	MR. SWANSON: Most of the pumping				
2		21	has been historically in the spring when the runoff				
2		22	goes into the lake and goes up. The same thing, we				
12	3	23	would likely want to take advantage of that period				
2		24	when the water levels are the highest.				
2		25	VICE CHAIRMAN SAHR: Is there any				
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	1 1	tangible effect on lake levels?	1	Additional nitrogen oxide control occurs in				
	2	MR. SWANSON: Minimal effect.	2	this green section, which is a box essentially.				
	3	VICE CHAIRMAN SAHR: Thank you.	3	It's called a selective catalytic reduction system.				
	4	CHAIRMAN HANSON: I know we said we	4	And it's much like the catalytic converter in your				
	5	would reserve and ask questions, but it's very	5	car. The flue gas flows through the catalytic				
		appropriate to ask questions as we're going along	6	reduction system. This is a box, again, flow with				
		obviously. I'm curious as well, do you have your	7	the catalyst.				
		water rights for the State permit?	8	But there's one exception, and that is that				
	9	MR. SWANSON: For the increased	9	ammonia needs to be added to this box in order for				
		water usage for	10	the reaction to occur with the catalyst that				
	11	CHAIRMAN HANSON: 10,902 acre feet.	11	essentially converts the nitrogen oxide emissions				
	12	MR. SWANSON: No. We currently are	12	to elemental nitrogen and water.				
		using the we're under the water appropriations	13	The flue gas then flows into this device that				
		permit for Big Stone I, which is 8,000 acre feet	14	we call it an air free heater. And it's simply an				
		per year.	15	efficiency devise. It's an air-to-air heat				
	16	CHAIRMAN HANSON: Thank you.	16	changer, and that device heats the combustion air				
	17	MR. SWANSON: With that, I'll turn	17	as it's going into the boiler.				
		it over to Terry Graumann.	18	From the air free heater the flue gas flows				
	19	MR. GRAUMANN: Good evening. My	19	through the fabric filter baghouse. And this is				
		name is Terry Graumann. I'm the manager of	20	just again another big box that's filled with a				
		environmental services for Otter Tail Power	21	series of bags, fabric bags. The flue gas flows				
	22	Company. I've been in that position for about	22	through those bags, and the ash collects on the				
	23	32 years, and all that while I've been located in	23	outside.				
	24	Fergus Falls, Minnesota.	24	Periodically there's a pulse of air. That's				
	25	The purpose of my presentation this evening is	25	why they call it, although it doesn't show on here,				
	4	26		28				
	1	to describe the emission control technology. This		a pulse jet baghouse. A pulse of air that gently				
ļ	2	is a schematic of the emission control technologies	2	inflates the bags, shedding the ash. And as the				
	3	for Big Stone II. It does not show the turbine,	3	ash is shed, it falls to the hoppers below the				
	4	does not show the generator. It doesn't show any	4	fabric filter baghouse, and from those hoppers then				
	5	of the other ancillary plant equipment.	5	the ash is conveyed pneumatically to fly ash				
	6	It shows the boiler, which is located on the	6	storage satellite.				
	7	left, and then the stack on the right and then the	7	This is an induced draft fan, and that pulls				
	8	emission control technologies are located in	8	the flue gas again through the fabric filter into				
	9	between those two.	9	the wet flue gas desulfurization system. We				
	10	Let's start with the boiler, the item in blue.	10	commonly call this similarly a scrubber.				
	11	Mark mentioned the supercritical pulverized boiler	11	And the purpose of this device is to remove				
	12	technology, and that's the technology we've chosen	12	sulfur dioxide from the flue gases. And the way				
	13	for Big Stone II. The advantage of that technology	13	that it does that is limestone slurry limestone				
	14	is it's 3 to 4 percent more efficient than other	14	simply mixed with water, finely crushed limestone,				
	15	commercially available technologies. And in a	15	is circulating throughout this tower in a very				
	16	practical sense what that means is that there's	16	turbulent fashion, which creates a good contact				
	17	3 to 4 percent less emissions, including	17	between the flue gas and the limestone.				
	18	carbon dioxide when using this technology as	18 19	And in doing so the flue gas is cooled and the				
	19	compared to other technologies.		sulfur dioxide then reacts with the limestone in				
	20	The boiler also includes a provision for low	20	the flue gas desulfurization system forming, first				
	21	NOx burners, and what those burners are is those	21	of all, a calcium sulfite, and as a part of this				
	22	burners are a special design to provide a	22	process air is also injected so ultimately the end				
	23	combustion atmosphere that would minimize the	23	product is a calcium sulfate or gypsum.				
	24	amount of combustion nitrogen oxides that are	24	Mercury control actually occurs in two areas				
	25	formed during the combustion process.	25	in this project. Primarily first of all,				

Case Corr	ipress		
	29		31
1	mercury control or mercury is collected in	1	Finally, the wet scrubber also gives us one
2	particulate form on the bags, and then from there	2	additional advantage, and that gives us a salable
3	it's collected and moves through with the ash.	3	fly ash. I just mentioned that the dry scrubber
4	The other control mechanism is the flue gas	4	mixes the fly ash with the SO2 removal reagents,
5	desulfurization system or the scrubber. Any	5	but in this particular case if we remember from the
6	oxidized mercury that leaves the system is	6	drawing, the fly ash comes out in the fabric filter
7	collected in the flue gas desulfurization system	7	first. That fly ash is available for sale. It's
8	simply because it's soluble in water.	8	commonly used as a replacement for Portland Cement
9	Historically dry scrubbers and not wet	9	and concrete mixtures and, in fact, the American
10	scrubbers have been used to remove sulfur dioxide	10	Coal Ash Association, which is an industry group
11	when burning subbituminous coal. And this is a	11	that tracks coal byproduct utilization in the
12	different technology.	12	United States, reported in 2004 that there were
13	And you remember the fabric filter occurred	13	14.1 million tons of fly ash that were used in
14	first and then the scrubber. And in the dry	14	concrete add mixtures.
15	scrubber there is a spray dryer mechanism, much	15	Big Stone during our average conditions is
16	like a milk dryer, if you will. Some of you might	16	expected to produce about 127,000 tons per year of
17	be familiar with that. The slurry is put in a	17 10	fly ash. We'd like to get into that market rather
18	liquid form. But the end product is dry, and it's	18	than putting it into our ash disposal site.
19 20	mixed with the fly ash and from there it flows to the fabric filter which occurs after the spray	19 20	The joint scrubber opens up some
20		20	possibilities or we have a joint scrubber
21	dryer.	21	possibility because of the wet scrubber technology
22	This is a very common technology. It meets	22	that wouldn't be available to us with a dry scrubber. We're able to double the size of the
23	all of the regulatory requirements, and it's still being permitted. Weston 4 out in Wisconsin is	23 24	
24	using the wet spray dryer. Council Bluffs is using	24	scrubber but with only an increase in cost of 60 percent. We're able to share equipment, and
<u> </u>		20	
	30	4	32
	a spray dryer.		other benefits of other redundant components, we're
2	We've decided to use a wet scrubber. It is		able to, for example the main spray tower
3	more expensive, about 18 percent more expensive,	3 4	there will only be one main spray tower instead of
Г	but there are some advantages. The wet scrubber		two. As a result of all of this we will have lower
5	gives us more efficient SO2 removal. And that's	5	
6 7	very important to the Big Stone II co-owners simply	6 7	per megawatt hour costs associated with the
8	because Big Stone II does not receive any SO2 allowances under the allowance allocation under	8	scrubbers, primarily because of capital cost savings and labor savings.
9	EPA's Clean Air Act Amendments of 1990.	9	The Big Stone co-owners have also committed to
10	What that means for us is that as owners we	10	add Big Stone II and not to increase nitrogen oxide
11	will have to, one, either get allowances from	11	emissions from the Big Stone Plant site.
12	existing units or buy allowances. So it's	12	described earlier the extraordinary steps that
13	important for us to have very efficient SO2	13	we're taking to reduce nitrogen oxides from the
14	removal. And in this particular case the wet	14	Big Stone II boiler, the low NOx burners, the
15	scrubber will typically give about 95 to 97 percent	15	selective catalytic system.
16	removal. A spray dryer, likely in the low 90s.	16	We're also going to be making some operational
17	The wet scrubber also gives us more efficient	17	changes at Big Stone I to lower its NOx emissions.
18	mercury removal. In EPA's mercury rule that was	18	We may need to make some equipment changes, but
19	published in March of this year they established	19	that will be determined following additional
20	standards based on the coal type as well as the	20	testing at the site. We are not certain of that
21	type of emission control technology that a user was	21	yet at this time.
22	installing. And for a wet scrubber system the	22	In summary, our process or our approach, what
23	emission allowable emission rate is half of what	23	we'll have is we will have sulfur dioxide, nitrogen
24	it is for a dry scrubber, as compared to a dry	24	oxide, and mercury emissions from both units that
25	scrubber.	25	are targeted to be less than or equal to Unit 1's
L		45.0570	

C	Case Comp	press		
Γ		33		35
	1	emissions in 2004. We expect nitrogen oxide	1	MR. GRAUMANN: It was late 1995
	2	emissions by permit to be about equal to what	2	actually in the about the first of September
	3	they've historically had, and we expect mercury	3	1995.
1	4	emissions to be less than or equal to those	4	CHAIRMAN HANSON: And do you have
	5	emissions as 2004 emissions as well.	5	similar information for us regarding carbon
	6	Here's a graph showing our sulfur dioxide	6	dioxide?
	7	emissions. And let me point out a couple of items	7	MR. GRAUMANN: No, I don't. Not
	8	on this graph. On the left side that shows the	8	with me.
	9	capacity, the megawatt generating capacity, of the	9	CHAIRMAN HANSON: Could you provide
	10	Big Stone Plant site for the various years. 1994,	10	us with that along with mercury and nitrogen?
	11	2004, for both Big Stone I and II and then another	11	MR. GRAUMANN: I can.
	12	bar that shows Big Stone I and II and the capacity	12	CHAIRMAN HANSON: Appreciate that.
	13	is identified by the green bar.	13	Thank you.
	14	Going back to 1994, the Big Stone Plant site	14	COMMISSIONER JOHNSON: 160 million,
	15	had about 450 megawatts, which it is today. 2004,	15	at what stage in the process since '94, from '94
	16	about the same megawatt capacity. Based on our	16	until the future target date or
	17	proposal, in 2011 the site capacity would go to	17	MR. GRAUMANN: The 160 million is
	18	about 1,050 megawatts, and we would hope that that	18	essentially for the scrubber and the fabric filter
	19	would be maintained into the future as 1,050	19	that would evolve as a result of Big Stone II. So
	20	megawatts.	20	that has not been installed yet.
	21	What this graph also shows is SO2 ton	21	COMMISSIONER JOHNSON: So between
ļ	22	emissions. And going back to 1994, notice that	22	bar 2 and bar 4 would be the \$160 million
	23	dot, we had SO2 emissions at the Big Stone Plant	23	investment.
	24	site of about 44,000 tons per year. At that	24	MR. GRAUMANN: Yes. Correct.
	25	particular time we were burning North Dakota	25	VICE CHAIRMAN SAHR: With the sulfur
.}		34		36
	1	Lignite. Since that time we switched to Western	1	dioxide, mercury, and NOx that doesn't get
	2	Low Sulfur Subbituminous Coal. And in 2004 our SO2	2	scrubbed, where does that go? Where does it end
	3	emissions dropped from about 44,000 tons down to	3	up?
	4	roughly 14,400 tons.	4	MR. GRAUMANN: Anything that
	5	We expect based on our proposed permit	5	passed anything that passes through the emission
	6	application that the site will have no more than	6	control equipment is exhausted from the stack, but
	7	about 13,300 tons once Big Stone II is permitted.		the levels that we can emit those types of
	8	But in reality we expect our target	8	materials are all set by permit from the that
	9	operational level to be in the neighborhood of	9	would ultimately be issued by the South Dakota
	10	2,000 tons per year. So within this particular	10	Department of Environment and Natural Resources.
	11	time frame we've dropped our SO2 emissions from	11	We have to make a permit application to them.
	12	44,000 tons to about 2,000 tons, which is roughly	12	Not only do we have to meet, for example, like the
	13	about a 95 percent reduction, even though our	13	new source performance standards which establish
	14	generating capacity went from 450 megawatts to	14	emission limits for each of these parameters for
	15	slightly over 1,000 megawatts, 1,050 megawatts.	15	the NOx, for the SO2, and for mercury, there's a
	16	MR. WELK: Cost.	16	mercury-specific mercury emission limit for new
	17	MR. ROLFES: Yes. The cost. It	17	units.
	18	comes at a significant cost with these types of	18	The other part of the Clean Air Mercury Rule
	19	reductions, and it's about \$160 million in capital	19	that was adopted by the administration in March of
	20	costs.	20	2005 limits the amount of mercury in terms of
	21	CHAIRMAN HANSON: Are you complete?	21	pounds that you can emit for various states. Now
1	22	MR. GRAUMANN: Yes.	22	there's a certain allocation that goes to a state.
-1	23	CHAIRMAN HANSON: Could you tell us	23	You've got opportunities to buy allowances to emit
	24	again repeat when you when the plant began the	24	more. But it's going to depend upon the efficiency
	25	use of the low sulfur coal.	25	of the control equipment whether or not we have to

	Case	Compress		
		37		39
	1	buy allowances or not.	1	COMMISSIONER JOHNSON: Okay.
	2	The level of allowances for the State of	2	CHAIRMAN HANSON: Thank you.
	3	South Dakota is 144 pounds. And we would need to	3	MR. LEE: Hi. My name is John Lee.
1	4	stay under that level, or else we would need to go	4	I'm an engineer from Barr Engineering Company.
5. 7	5	out and buy additional mercury allowances.	5	We're a regional consultant. I have been providing
	6	VICE CHAIRMAN SAHR: I guess my	6	consulting services to the utility industry for
	7	question is more along the lines of I mean, use	7	over 25 years. And over the last
	8	a lay ··· I don't know if it would be a lay term,	8	10 years or so I've been focusing on environmental
	9	but what basically is a drop saw?	9	issues related to power plant siting.
	10	I mean, with these are they going up in the	10	I'm going to review some of the community and
	11	atmosphere and coming down in rain, or what's going	11	environmental information that we've compiled and
	12	on? I mean, what would be the zone of concern	12	made an assessment of for the siting permit
	13	if about anything that might be going on through	13	application.
	13		14	
	14	the stacks with the NOx and mercury and SO2?	15	As far as the environmental impacts, we looked
		MR. GRAUMANN: Most of the		at eight general categories of potential impacts
	16	pollutants in terms of the evaluation process have	16	from the project. Those are listed up here, and
	17	to be modeled, and some of them would drop out	17	I'll go through each of them in turn. But in
	18	close to the plant. Others might be farther away	18	general we found that the impacts from the project
	19	from the plant.	19	will be minimal, and that's primarily because of a
	20	And we need to meet at least as far as the	20	lot of things you've heard already, the employment
	21	particulate matter, those kinds of things that are	21	of state-of-the-art technologies for air emissions
	22	modeled specifically for this plant, we need to	22	and other equipment related to the power plant and
	23	make sure that we meet all of EPA's air quality	23	also because of what Bill Swanson emphasizes, that
	24	standards that are essentially established at the	24	we're taking advantage of a lot of the existing
	25	property line for the pollutants.	25	infrastructure at the current plant.
1	<u> </u>	38		40
(1	COMMISSIONER JOHNSON: With regard	1	As far as the physical environment, we looked
	2	to the mercury and Big Stone I, currently, I mean,	2	at the land forms and topography, geology, soils,
	3	how much mercury is going up the stacks now, pounds	3	and economic deposits. Economic deposits refer to
	4	per year?	4	gravel pits and sand pits, those types of resources
	5	MR. GRAUMANN: In 2004 we reported	5	and erosion and sedimentation.
	6	189 pounds per year. And we have been up into the	6	Our conclusions from that assessment was that
	7	300 pound.	7	impacts would be very limited and primarily related
	8	COMMISSIONER JOHNSON: So you're	8	to the new water storage pond that Bill talked
	9	currently purchasing allocations from other states	9	about earlier that will take an area of about
	10	then? The difference between 144 and 189 is being	10	500 acres and require some grading. That will
	11	made up with allocations?	11	impact some of the local land forms southwest of
	12	•	12	the plant but in a very limited area.
	13	MR. GRAUMANN: The requirement to	13	
		have mercury allowances goes into effect in 2010 at		We looked at the hydrology issues. We looked
	14	144 pounds is a requirement in 2010. In 2018 that	14	at surface water drainage. Again, because most of
	15	requirement drops to 58 for the State of	15	the activity is taking place in the existing plant
	16	South Dakota for their allocation because of the	16	site, existing surface water drainage systems will
	17	reduction requirements as a part of the Clean Air	17	be utilized, and they'll be enhanced where
	18	Mercury Rule.	18	necessary to deal with additional storm water
	19	COMMISSIONER JOHNSON: What is the	19	runoff that may occur.
	20	projected mercury emissions for both plants once	20	And also as far as water needs for the plant,
	21	they're both on line?	21	as Bill mentioned, we'll be and questions about
7	22	MR. GRAUMANN: Like I mentioned, our	22	the appropriations permit, we will be asking for an
(23	target level is the 2004 level.	23	amendment to the water appropriations permit that
	24	COMMISSIONER JOHNSON: Okay. 189.	24	currently allows for appropriation of up to
	25	MR. GRAUMANN: 189.	25	8,000 acre feet a year from Big Stone Lake.
	L		<u> </u>	

Case Cor	npress		
	41		43
1	The current permit has restrictions on when	1	plant.
2	that water can be obtained from the lake based on	2	So, but it was very thorough, and we did that
3	water levels in the lake. There's a narrow range	3	in conjunction with folks from the wildlife
4	that if the lake level drops below a certain range,	4	agencies.
5	we are restricted from taking the water out of the	5	One other threatened species that came up as a
6	lake at that time. That's why historically most of	6	potential issue is the Bald Eagle. The Bald Eagle
7	the water's been obtained in the spring of the	7	is a threatened species. There is again, as
8	year, and that's why we're looking for more water	8	Bill mentioned, this is our kind of reference
9	storage capacity, so we can store the water needs	9	point, the T and the basin, the plant down here.
10	and still adhere to those water level restrictions	10	This red dot represents location of an eagle's
11	on when water can be obtained.	11	nest.
12	We expect to ask for an amendment to the water	12	We identified that and observed it, but as you
13	appropriations permit that would allow an increased	13	can see, it's quite a distance away from where the
14	appropriation of the lake of up to about 15,000	14	new plant work will be done. Again, most of the
15	acre feet. The actual needs of the plant as Bill	15	activity will be right in this area and then over
16	mentioned are closer to 10,900 acre feet, but to	16	to the southwest where the water storage basin will
17	allow some flexibility in operation and look at	17	be. So we don't see any concerns about disturbing
18	perhaps long-term drought conditions, we would look	18	that potential nesting area.
19	for a little cushion in that appropriations	19	COMMISSIONER JOHNSON: Does that
20	request.	20	look like a little over a mile?
21	We looked at terrestrial ecosystems. We	21	MR. LEE: Yeah. I think this is
22	looked at vegetation. In general there do not	22	from here to here it's a mile; right, Bill?
23	appear to be special vegetation around the project	23	MR. SWANSON; Yep.
24	site, again, because most of it's in the existing	24	MR. LEE: So it's about a mile to a
25	industrial area and the area around the plant where	25	mile and a half from where most activity will be.
	42		44
1		1	
2	the new water storage pond will be constructed is	2	We also looked at the aquatic ecosystems. Fisheries are not a big issue. The Whetstone River
3	tilled agricultural land. So we don't see any significant impacts to vegetation in the vicinity	3	0
4	5 I 5	4	runs to the south of this site, but there will be no impacts to that. As was mentioned earlier, this
5	of the plant. We looked at any specific threatened species	5	•
6	We looked at one specific threatened species,		is a zero liquid discharge facility so there will
	a plant, the Western Prairie Fringed Orchid. There	6	be no direct discharges to that river.
0	was a potential that that could be present in this	8	The existing intake will be used on the
8	type of terrain. There was a detailed field	9	Big Stone Lake for water appropriation so you won't see any impacts there with construction.
10	reconnaissance of the plant site where we would be	10	With regards to wetlands actually maybe I
11	doing any intrusive activities, and that was	10	can back up briefly here. In this area this is the
12	completed this spring and none of those plants were observed.	12	new storage pond. There will be approximately
13	But we'll continue to look at that as work	13	58 acres of wetlands that will be inundated.
13	continues at the site. But it does not look like	14	
14		14	They're kind of generally in this low point right
	that will be an issue.		in through here. Those will be inundated with the
16	COMMISSIONER JOHNSON: You said in	16 17	construction of that basin.
17	the vicinity. Sorry to interrupt. You said in the		The mitigation of those impacts will be
18	vicinity. What was your area of study?	18	addressed through the U.S. Army Corps of Engineers'
19	MR. LEE: We looked at the areas	19	permitting process. It is likely that we'll be
20	where we would be disturbing ground. So primarily	20	mitigating that through enhancement or construction
21	immediately around the plant site and where the new	21	or additional wetlands in the vicinity that would
22	storage pond, water storage pond will be	22	probably add a ratio of one and a half to one. So
23	constructed, and then in areas near there where	23	if we're taking out about 60 acres, we would likely
24	there were existing vegetation communities that	24	have to enhance 90 acres of wetlands to address
25	might support that vegetation, that particular	25	that.

	Case (Compress		
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	1	That process has discussions have begun	1	estimated about 10 years capacity remaining in the
	2	already with the Corps of Engineers on that, but	2	existing permitted facility.
	3	the permit has not been obtained yet.	3	Shifting a little bit to community impacts.
()	4	We don't see any real issues with land use and	4	We looked at impacts to the regional community. We
N.	5	land use controls. Again the existing land uses	5	looked at economic impacts, infrastructure impacts,
	6	for electric generation with the exception of the	6	potential strains on community services, what the
	7	water storage pond, that will take out some	7	effects might be on population, demographics, and
	8	agricultural land. But we don't see huge impacts	8	cultural resources.
	9	to that.	9	The primary study area was a 20-mile radius.
	10	We did look at noise under this umbrella	10	The plant is right in here, and the circle
	11	category. There was extensive monitoring around	11	represents the 20-mile radius around the plant. We
	12	the existing plant and then modeling of what the	12	focused our community impacts assessment surveys
	13	incremental noise impacts might be from the new	13	with local government officials were the primary
	14	plant, and the incremental noise impact was modeled	14	source for this information. And talked to local
	15	as being insignificant. It would be barely	15	folks. And in some areas that we looked at, as
	16	perceptible to the nearest receptors.	16	I'll get into, we broadened that area as it may be
	17	COMMISSIONER JOHNSON: What is	17	appropriate, but in general we focused on impacts
	18	insignificant?	18	within the 20-mile radius.
	19	MR. LEE: I think about 3 decibels	19	The economic impacts, as you can imagine, are
	20	or less.	20	generally positive and the four-year anticipated
	21	COMMISSIONER JOHNSON: Okay.	21	construction period there are expected to be peak
	22	MR. LEE: As far as water quality,	22	at about 1,400 construction jobs in the area. That
	23	we talked about that quite a bit in some of the	23	will have multiplier effects through other services
	24	other areas. As I mentioned, Whetstone River, we	24	throughout the local economy.
	25	don't anticipate any impacts to that river.	25	The new plant is expected to require an
(46		48
		We did look at the pond water quality, the new		additional 35 full time employees, long term
	2	water storage pond, what the water quality of that	2	impacts.
	3	would be to see if there might be algal blooms or	3	COMMISSIONER JOHNSON: I'm sorry,
	4	other issues within that 500-acre storage basin.	4	John. What was that number?
	5	Since the source of that is Big Stone, the water	5	MR. LEE: 35. Impacts to
	6	quality in that basin is expected to be very	6	agriculture are expected to be minimal. As we
		similar to Big Stone. There may be some algal		mentioned, we will take about an additional
	8	blooms but in general the water quality in that	8	500 acres of land out of agricultural production,
	9	pond is to be expected pretty good and be	9	but other than that, the impacts to agricultural
	10	support water fowl and other wildlife.	10	economy are expected to be negligible.
	11	I mentioned storm water. There will be a		The commercial and industrial sectors will
	12	storm water pollution prevention plan that will be	12	benefit through servicing the construction process
	13	prepared for the construction period and for the	13	and the construction workers. Land values are not
	14	postconstruction period that will address storm	14	expected to be impacted significantly by this
	15	water management on the site.	15	project. Otter Tail Power has already procured
	16	Terry talked at length on the air quality air	16	options on most of the parcels that will be
	17	emissions control so I won't repeat that. I'll	17	necessary for the work, for the project.
	18	just say that, again, state of the art technologies	18	And then, of course, taxes. There will be
	19	will minimize air quality impact.	19	sales taxes, real estate taxes that will derive
	20	And it's been mentioned a couple of times on	20	from the project and go to local and state
	21	solid waste there will be additional ash generated.	21	government.
(22	Some of that will be marketed as concrete additive	22	This is a graph of the construction labor
	23	if possible, and the remainder would be disposed of	23	requirements. And the time frame here is
	24	in the existing ash disposal facility on site.	24	48 months, four years from over here to here. And
	25	There is expected ash generation rates. There's an	25	it's difficult to read the numbers, but this is

1	Case Comp			
		49		51
	1	1,400 construction workers. And that's where, as I	1	archaeological sites that have been identified in
	2	mentioned, the construction is expected to peak at	2	the area surrounding the plant, but, again, none of
~	3	about two and a half to three years into the	3	the intrusive activities, the excavation areas or
(]	4	project. But you can see there's a nice	4	where any of the construction lay down would be
	5	distribution of work ramping up and then gradually	5	done encroaches on any of those previously
	6	going down as the project progresses.	6	identified sites. So we don't expect any impacts
	7	Concerns about potential infrastructure	7	in that area.
1	8	impacts are the availability of housing. It	8	I'll just summarize, as I mentioned in the
	9	doesn't look like housing will be a major issue.	9	beginning, on the environmental and community
	10	This is one area where we expanded the study area	10	impacts, again, the environmental impacts appear to
	11	to encompass a 60 mile radius assuming that	11	be minimal because of the use of existing
	12	construction workers are not averse to traveling	12	infrastructure and the state-of-the-art
	13	60 miles or more than an hour away to get to work	13	technologies. And community impacts are generally
	14	on a temporary construction project. And there are	14	expected to be positive.
	15	over 2,200 hotel/motel beds within that 60 mile	15	VICE CHAIRMAN SAHR: John, I think
	16	radius. There are also several trailer parks and	16	one of the really interesting things about this is
	17	campgrounds that would allow for temporary housing	17	the employment prospects and I'll put you on the
	18	for the construction forces.	18	spot and maybe if you can't answer it, I'll bet
	19	Energy needs are not expected to be an issue,	19	somebody from one of the utilities here can.
	20	nor are sewer and water. Solid waste management	20	Would the 1,400 construction jobs and the
	21	and transportation, all of these things were looked	21	35 long term jobs at the plant, what's the typical
	22	at, and we didn't see any pinch points where there	22	wage for those type of jobs?
	23	may be specific problems related to the influx of	23	MR. LEE: I don't know the answer to
	24	workers primarily.	24	that off the top of my head. I think the long-term
	25	Similarly with community services, the	25	jobs maybe someone from the utility can answer
- /		50		52
\	1	information that was gathered by calling and	1	that.
	2	talking to local health facilities, school	2	MR. WELK: Mark, go ahead.
	3	districts, and public safety officials to see if	3	MR. ROLFES: I guess a couple of
	4	they had any concerns about this project and the	4	things on the construction jobs to get - attract
	5	additional strain that it may cause on their	5	the skilled labor we're looking at 10-hour days at
	6	services, and there was a general consensus that	6	least 50 hours a week. So not only are there going
	7	the existing service would not be overtaxed by the	7	to be high-paying jobs, but there's going to be
	8	project.	8	overtime on top of that.
	9	Population and demographics, again, the	9	These are all skilled people we expect to be
	10	long-term impacts would be modest in this area,	10	paying 25 to \$30 an hour. Plus for the power plant
	11	although it would create high-paying jobs as we	11	permanent employees I think our average loaded wage
	12	mentioned earlier, an estimated additional 35	12	is you know, with benefits and everything is
	13	full-time jobs, but not a major change in the	13	approximately \$85,000 a year.
	14	population or demographics of the region.	14	VICE CHAIRMAN SAHR: That's
	15	We also looked at cultural resources,	15	including like insurance benefits?
	16	historical and archaeological potential issues	16	MR. ROLFES: Yes. That's all
	17	there. There was a historical architectural survey	17	benefits. They're not taking home \$85,000 in their
	18	completed around the plant and several some	18	pocket.
	19	historical buildings were identified, but the	19	VICE CHAIRMAN SAHR: . Thank you.
ļ	20	assessment was that they would not be adversely	20	MR. LEE: Okay. Mark will talk
	21	impacted by the project. Specifically, there were	21	about scheduling.
7	22	a few historical round barns in the area, but the	22	CHAIRMAN HANSON: John, just one
	23	judgment of the historian was they would not be	23	question, if I may, in case I missed it. Did you
	24	adversely impacted by the project.	24	say how much F load there would be from the plant?
	25	And then there also have been some	25	MR. LEE: There will be no waste
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1	discharge from the plant.	1	this time from Commission members?			
2	MR. ROLFES: I'll try and quickly	2	VICE CHAIRMAN SAHR: 1 have a			
3	wrap up the project and turn it over to you for	3	question for Mark. Mark, I think you guys did a			
4	questions unless - the schedule for the project	4	good job talking about the energy mix choices or			
5	going forward, we were in the project development	5	why you picked the plants you did. Can you talk			
6	phase early this year and now we've moved into the	6	about the needs to bring in baseload plants?			
	permitting phase and that's why we're here, of	7	We've kind of gone through a number of years			
8	course, is to look at permits.	8	we haven't been out there building baseload plants			
9		9				
	And the expectation is that we would complete		in this region. And also I think probably a lot of			
10	the permitting effort by the fall of next year and	10	people in the room already understand this, but			
11	by the fourth quarter in 2006 so that construction	11	just talk a little bit about why it makes sense to			
12	contracts could be let. It would be at financial	12	use coal as a fuel source here and touch a little			
13	close at that time. When we have all the permits	13	bit more on that, please.			
14	we can go to the banks and get our money, so to	14	MR. ROLFES: Quickly, Big Stone I is			
15	speak. So we'd have financial close at the fourth	15	baseload resource. Big Stone II is intended to be			
16	quarter next year so that we could begin	16	baseload resource. Baseload, like Stacie talked			
17	construction as early as we can in the spring of	17	about and I did, that's the power that's there			
18	2007.	18	24 hours a day seven days a week whenever it's			
19	It is a four-year construction period. We	19	needed.			
20	would be looking at commercial operation in the	20	The last major baseload facility to be built			
21	around April 1, 2011. It's a long process, but	21	in this part of the country was 1987, and that was			
22	it's a big project.	22	the Sherco III Unit south of St. Cloud, north of			
23	The other bar on here that I didn't talk about	23	Minneapolis. So since 1987 until now there has not			
24	is engineering, and, of course, there's been some	24	been a unit put into service. So, you know, being			
25	engineering activity for a long time as we did the	25	Big Stone II is looking at 2011 - so, I mean,			
20		20				
	54		56			
1	studies and now the work to support the effort.	1	we're way over 20 years without a baseload			
2	That concludes our formal presentation.	2	resource.			
3	CHAIRMAN HANSON: Questions.	3	Just go back and think what has happened since			
4	MR. WELK: I think to conclude the	4	1987 to the communities of Sioux Falls and Pierre			
5	presentation I would like to mark in the record as	5	and Milbank, how much it has grown since that time,			
6	Exhibit 1A, which is a CD of the Power Point	6	how many people now have computers, two			
7	presentation, and 1B, which are the actual slides	7	refrigerators, three televisions in their home, and			
8	that were used during the presentation, so we can	8	it's to me as a power professional, it's hard to			
9	record what the public and the Commissioners were	9	believe that we've gone this long without a			
10	able to see tonight.	10	baseload facility.			
11	And so I'd ask for that to be admitted as part	11	I really believe our infrastructure is being			
12	of the record.	12	taxed beyond where it should be. We're relying too			
13	(Exhibits 1A and 1B are marked for identification)	13	much on old inefficient generating sources.			
14	CHAIRMAN HANSON: It will be	14	The question on why coal. You know, if you			
15	admitted. Thank you.	15	look at our energy mix in this country, almost half			
16	MR. SMITH: 1A is the exact same	16	of our oil is imported. Natural gas, which, you			
17		17				
	slides that we saw tonight?	1	know, most people use to heat their homes, we're			
18	MR. WELK: Correct. It's an	18	getting more and more of that being imported. It's			
19	electronic format.	19	to the point that almost 20 percent of our natural			
20	MR. SMITH: Just so you know,	20	gas is being imported, and we're using it faster			
21	because nothing here was confidential, all of that	21	than we're finding it.			
22	will be available on the Commission's website so	22	Coal is the only domestic resource, fossil			
23	you can have access to it, members of the public,	23	fuel resource, that the United States has and has			
24	as soon as we get it up and on there.	24	in abundance. So for energy security I think coal			
25	CHAIRMAN HANSON: Any questions at	25	has to be a cornerstone of our development.			

	Case C	ompress		
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	1	You know, currently coal supplies over	1	application, you can certainly see that information
	2	50 percent of the electricity in this country, and	2	in the application.
,	3	it's going to have to continue to be a cornerstone	3	COMMISSIONER JOHNSON: In '05 and
	4	in our energy mix.	4	for the next few years it looked like a great deal
	5	VICE CHAIRMAN SAHR: Mark, with the	5	of excess energy. Is that being sold as merchant
	6	existing plant what is the capacity on that? What	6	power, or what are MAPP partners doing with that
	7	percent of the time is that operating?	7	now?
	8	MR. ROLFES: It's a 450 megawatt	8	MS. HEBERT: It was actually excess
	9	plant. Its capacity factor runs in the high 80s to	9	capacity.
	10	low 90 percent.	10	COMMISSIONER JOHNSON: Capacity,
	11	VICE CHAIRMAN SAHR: And other than	11	yeah.
	12	being down for maintenance and those type of	12	MS. HEBERT: Some of it's being sold
	13	planned outages and certainly unexpected ones could	13	within the MAPP regions. Some of it's being sold
	14	happen, is it pretty much operating all the time	14	outside the MAPP regions. And it's really just the
	15	that it can for the most part? Those are pretty	15	individual load at the utility level that starts
	16	high numbers.	16	eating away. There could also be some retirements
	17	MR. ROLFES: If you take out planned	17	of the generating units that would lower the
	18	and scheduled outages, the plant's forced outage	18	capacity number during that period.
	19	rate is very low. It's available usually over	19	COMMISSIONER JOHNSON: Am I right
	20	98 percent of the time that it's scheduled to be	20	assuming there are also some reserves in there?
	21	there. So it is running. And it's producing	21	MS. HEBERT: Correct. Each of the
	22	heavily all the time.	22	MAPP member utilities are required to maintain a
	23	VICE CHAIRMAN SAHR: And I think a	23	15 percent reserve. So you take your expected peak
	24	lot of us have a real interest in wind energy and	24	demand for your utility and you also have to have
	25	realize that certainly could be something important	25	capacity for additional 15 percent. That's one of
(58		60
	1	for this region.	1	the benefits of being in the power pool.
	2	Could you just compare that to a typical wind	2	When everyone has that additional
	3	form you might expect there?	3	15 percent if, for example, Big Stone I were to
	4	MR. ROLFES: I don't want anyone to	4	go down, we can rely on our neighbors, our
	5	walk away with the impression the utilities are	5	co members within MAPP to help supply that power
	6	only looking at Big Stone. This is part of their	6	when we lose our generator. So we don't have to
	7	generation mix. But, you know, I can speak a	7	provide our own backup. We can lean on our
	8	little bit more on the wind resources that	8	neighbors. Like I say, that's one of the benefits
	9	Otter Tail has. It has some in Buffalo Ridge and	9	of MAPP membership.
	10	some in North Dakota and the capacity factor on	10	COMMISSIONER JOHNSON: When you
	11	those resources is usually running in the	11	addressed the possibility of Canadian power, talked
	12	30 percents. So 30 percent versus 90 percent.	12	about the barrier the transmission costs would be,
	13	VICE CHAIRMAN SAHR: Thank you.	13	do you have any idea I mean, were any studies
	14	COMMISSIONER JOHNSON: Question for	14	done on the costs of undertaking that?
	15	Stacie. When you were talking about the energy	15	MS. HEBERT: No. I'm not aware of
	16	availability you're using MAPP figures.	16	any. There may have been studies. I'm not aware
	17	Was there a reason you chose those as opposed	17	of anything done associated with the Big Stone II
	18	to information on the seven partners?	18	project. But that second factor is truly the
	19	MS. HEBERT: The application itself	19	energy situation in Canada and the way that they
	20	has information. It has those same two graphs for	20	plan their system based on the energy that's
	21	each of the co-owners. We just didn't want to bog	21	produced by the hydroelectric generators. And they
(22	down with 14 additional graphs. So those numbers	22	don't have an 80 or 90 percent capacity factor so
ا میں م ^{رد} ا	23	are representative of what each of the co-owners	23	they end up building more capacity than they need
	24	sees for their individual utility, and I would	24	in order to guarantee that they've got the energy
	25	welcome you to if you don't have a copy of the	25	that they need to serve their customers.

Ca	Case Compress						
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1	COMMISSIONER JOHNSON: Good.	1	words, we would serve both units with an increase				
2	Thanks. For Bill, you talked about the ability to	2	in cost of only about 60 percent. So there's some				
3	use existing infrastructure. Will there need to be	3	cost efficiencies there using that approach.				
4	upgrades? I'm thinking about the rail. Will there	4	COMMISSIONER JOHNSON: You talked o				
5	be any upgrades needed to the railroad spur?	5	a couple of different instances about with various				
6	MR. SWANSON: No. The railroad spur	6	emissions, you know, wanting to maintain them				
7	will continue to be maintained exactly the same way	7	basically at current levels even though we might be				
8	it is. I'm sure with the existing traffic on it	8	getting a second plant. And I thought you had a				
9	they're going to look at the maintenance of it and	9	good chart to display sulfur dioxide for that.				
1) the existing rail and track bed, but as far as the	10	I mean, is there new pollution control				
1	rail spur goes, as far as the coal supply, it will	11	equipment being put into Big Stone I to also				
1 1	2 be exactly the same.	12	respond to mercury and NOx? And, if so, are those				
1	COMMISSIONER JOHNSON: Big Stone I	13	improvements part of the \$160 million that you				
1	uses a cooling pond. Big Stone II uses a cooling	14	referred to?				
1		15	MR. GRAUMANN: They wouldn't all be				
1		16	a part of that. The scrubber will be used for both				
1		17	sulfur dioxide removal and it would also aid in the				
1	-	18	mercury removal. So simply because there's a joint				
1	9 cooling tower is a little easier to maintain the	19	scrubber there will be some benefits from both				
2	0 chemistries because you have a very small circuit	20	units using that type of an approach.				
2	1 of water you're able to control the chemistries.	21	The NOx changes for Unit 1 are simply				
2	2 The chemistries that build up in the cooling	22	operational changes. We haven't included in that				
2	3 water can build up on the cooling surfaces inside	23	budget estimate any capital costs, additions for				
2	4 the plant, the condensers, the various coolers, as	24	Unit 1. Based on our current evaluation of that				
. 2	5 the calcium gets high, has a smaller circuit you	25	particular unit, we feel that we will be able to				
	62		64				
	can control the energies better.	1	make adequate reductions on Unit 1 just with				
	2 COMMISSIONER JOHNSON: When I hear	2	operational changes so that the overall site NOx				
	cooling water I'm thinking something that looked	3	emissions will not increase.				
1	4 like a typical water tower. Is that about right?	4	COMMISSIONER JOHNSON: Could you				
	5 How big are we talking? Am I getting the right	5	give me an example of what an operational change				
	6 mental picture?	6	might be that would have that kind of impact.				
Ì	7 MR. SWANSON: No. I don't know that	7	MR. GRAUMANN: What we'd be looking				
	8 I would say it's about 200 it's probably	8	at doing, we have an over fire air system on Unit 1				
	9 shorter than a tower. It's about maybe 100 yards	9	right now that was installed as a part of the				
	0 Iong, 200 yards long. And there are individual	10	Title 5 requirements of the Clean Air Act. And				
	1 sells on that with a fan on top so there's a	11	that particular requirement required us to get down				
	2 cooling plume that comes out of the top of that and	12	to about .86 pounds per million BTU of NOx as an				
-	3 that evaporation is where the cooling effect comes	13	annual emission, average emission limit.				
	4 from. It's a little different style of tower.	14	And that technology, the over fire system				
	15 COMMISSIONER JOHNSON: Somebody w	15	can what that amounts to is essentially staging				
	6 talking about the joint scrubber. Was that is	16	the combustion so you put in a little less air into				
	17 the adjective "joint" to indicate that it's being	17	the cyclones and a little more air above and what				
	18 used for both plants?	18	that does then is it changes the mix for the				
	19 MR. GRAUMANN: Yes. It will be used	19	combustion air and so it results in a decrease in				
	20 for both plants.	20	NOx emissions. And we are planning on running that				
	21 COMMISSIONER JOHNSON: There are	21	over fire air system just a little harder to be				
	22 efficiencies obviously to gain by that?	22	able to accommodate the Big Stone II.				
	23 MR. GRAUMANN: Right. First of all,	23	COMMISSIONER JOHNSON: Is there a				
	24 efficiencies in terms of we'll be able to increase	24	reason that those operational changes haven't been				
	25 the size of that scrubber by 100 percent. In other	25	implemented prior to, you know, this discussion?				
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C	Case Compress							
Γ		65		67				
	1	MR. GRAUMANN: We haven't been doing	1	we see in this region do limit in Otter Tail's case				
	2 3	that. We've started operating that system back in	2	where we can actually go out and buy capacity in				
. ;	3	2000. That was the first time that the system was	3	energy. There are transmission constraints that				
1	4	actively used for extended periods of time. We've	4	will we've had times where we wanted to purchase				
	5	been working with that system during that time.	5	energy from Canada, and there's a constraint down				
	6	In the meantime, we've installed some other	6	in Nebraska that makes that I'm talking a				
	7	emission controls equipment, and we're just trying	7	short-term transaction there but constraints in the				
	8	to figure out how to balance all of our plant	8	transmission system down in Nebraska can cause				
	9	operation and the testing of that over fire system	9	it our transmission request can be denied.				
	0	will be ongoing between now and when we bring the	10	CHAIRMAN HANSON: So there are still				
	1	Unit 2 on line.	11	hurdles that you face in the transmission.				
	2	COMMISSIONER JOHNSON: 1 thought th	12	MS. HEBERT: Certainly. Certainly.				
	3	group collectively did a good job talking about the	13	CHAIRMAN HANSON: Okay.				
	4	fact that emissions will be at today's levels	14	MS. HEBERT: We see those				
	5	are lower.	15	transmission constraints on a day-to-day basis. So				
	6	Have there been any studies, though, about	16	certainly as we're looking out for a long term				
	17	the impacts, environmental, of emissions from	17	resource, transmission constraints are an issue.				
	18	Big Stone I?	18	CHAIRMAN HANSON: Thank you. I'm				
	19	MR. GRAUMANN: We haven't had any	19	not certain who would prefer to answer the question				
	20	direct environmental impacts on Big Stone I, at	20	regarding transmission, but I'm curious on the				
4	21 22	least not anything recent. We had an ambient air	21 22	additional transmission system that you plan to				
		monitoring station that was set up around the site.	22	construct, and I recognize a lot of it's not going				
	23	In fact, we had operated it for a while, and I		to be in South Dakota, although we would actually				
	24 25	believe the South Dakota Department of Environment	24	prefer that it be in South Dakota, we'd like to see				
Ĺ		and Natural Resources operated it for a period of	20	some excess capacity for wind generation in this				
		66		68				
	1	time. But that equipment I don't believe has been		state.				
	2	in operation for probably close to 20 to 25 years,	2	Could you fill us in a little bit perhaps,				
	3	something like that. COMMISSIONER JOHNSON: Mr. Chairma		Mark, on how much of the excess capacity that you presently have that you're going to use to increase				
	4 5		5	in transmission capacity that you plan to construct				
Ì	6	that's all I've got. Thank you. CHAIRMAN HANSON: I have just a few	6	and if there is any potential for new excess				
	7	questions.	7	capacity that may be married to renewable energies.				
	8	Stacie, I'm curious, when you're looking at	8	MR. ROLFES: Okay. I'll try and tie				
	9	MAPP, and I would assume that you also looked at	9	a couple of things together. One, that whole				
	10	have dealings with MISO at the same time and that	10	process is moving forward to the MISO process, and				
	11	you are looking at some potential constraints that	11	we do have interconnection requests and delivery				
	12	we're often told about in transmission systems.	12	service requests in with MISO. We didn't address				
	13	Can you tell us, are there hurdles there yet	13	that in this presentation because it's				
	14	that you have to go through?	14	CHAIRMAN HANSON: Understood.				
	15	MS. HEBERT: Now are you talking in	15	MR. ROLFES: With that said, just				
	16	terms of where we could look to find additional	16	quickly, the existing Big Stone Plant has four				
	17	generating capability be that purchases, that type	17	transmission lines out of it. Two of them are				
	18	of thing?	18	230,000 volts and one runs north and one runs				
	19	CHAIRMAN HANSON: Additional load	19	south. They are not looked at to be changed at				
	20	and the ability to transmit the energy outside the	20	all.				
	21	region.	21	There are two 115 kV lines that run north and				
	22	MS. HEBERT: MISO, of course, has a	22	east and south and east. One goes to Morris. One				
1	23	little different function than MAPP. MISO is a	23	goes to Granite Falls. We have looked at what it				
	24	transmission organization.	24	would take to get the power generated by a				
	25	I can tell you transmission constraints that	25	600 megawatt unit out into the system.				
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Case Compress					
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1	I'll begin with there's no excess capacity	1	CHAIRMAN HANSON: Thank you. I'm		
2	that exists today. So we're looking at additional	2	curious about the increase in rail traffic to the		
3	construction to serve the new unit.	3	area. Perhaps I missed it in the presentation.		
4	Our needs can be met by upgrading those two	4	Approximately how much additional traffic will		
5	115 lines to 230,000 volts. Then we're also	5	there be, cars, trips through, things of that		
6	looking at a couple of options, but to make it	6	nature?		
7	simple those could just be upgraded to 230 volts to	7	MR. ROLFES: These are real simple		
8	take care of the needs for this project.	8	numbers. Currently the existing unit gets a train		
9	We are looking at the regional needs and	9	on the average every other day. When Big Stone I		
10	regional plans and are very strongly considering	10	was built and operated on North Dakota Lignite,		
11	building the south line at 345 kV. That line is	11	lignite is a less dense, lower BTU, higher moisture		
12	looking at roughly half to be in South Dakota, half	12	fuel, and we were using steel cars.		
13	in Minnesota. If we go ahead and are approved by	13	Because of that, when Big Stone was built and		
14	the Commission to build that 345, we expect to have	14	for the first 15 years of operation it got a train		
15	an additional capacity that could come close to	15	a day. Now because we're on better coal, we're		
16	1,000 megawatts.	16	getting a train every other day. With both units		
17	Because of open access it's a first-come	17	we expect the train traffic level to be back to the		
18	first-served so this would facilitate the ability	18	level it was in 1975 through 1990 roughly, and that		
19	for wind, but it wouldn't guarantee because, again,	19	is one train a day. So the area has seen train		
20	of open access, it's a first-come first-served.	20	traffic, you know, that high for 15 for a		
20		20			
	But we are strongly looking at the possibility of	21	15-year period with one train a day instead of a		
22	overbuilding transmission to facilitate regional	22	train every other day.		
23	needs.	23 24	CHAIRMAN HANSON: Are you a captive?		
24	CHAIRMAN HANSON: Thank you very		MR. ROLFES: Yes, we are.		
25	much. I appreciate that. That's exciting to hear.	25	CHAIRMAN HANSON: Okay. Thank you.		
	70		72		
1	Could you perhaps Mark, you may also be the one	1	Any further questions?		
2	to answer this, but obviously you'll feel free to	2	COMMISSIONER JOHNSON: Mark, I		
3	pass it on.	3	thought you did a good job of explaining the		
4	We hear about the costs of natural gas. We	4	potential again, this is a question on this		
5	see every day that it's climbed so tremendously	5	particular plant so my apologies.		
6	over the past few months even. Coal certainly	6	You talked about the potential overbuild for		
7	doesn't fluctuate nearly as much and we have, as l	7	transmission on the south line. As you look at		
8	understand, 250 years worth of coal in	8	moving from 115 kV to 230 on the two lines going		
9	North America.	9	east, would there be excess capacity created there,		
10	What can we anticipate with the price of coal	10	first off?		
11	versus the price of natural gas? Do you have your	11	MR. ROLFES: Well, going from 115 to		
12	soothsayer hat on?	12	230 will not yield much, if any, excess capacity.		
13	MR. ROLFES: That's probably a good	13	COMMISSIONER JOHNSON: What would		
14	analogy. One of the long-range concerns is natural	14	the approximate, you know, approximate cost,		
15	gas and coal are competing so if natural gas prices	15	marginal cost, of going from instead of 115 to		
16	go through the roof, coal may want to take some of	16	230, going from 115 to 345?		
17	the gravy that goes with that.	17	MR. ROLFES: I have the marginal		
18	But because we see competition there's a	18	costs roughly from going to 230 to 345, and that's		
19	number of mines in the Powder River Basin all	19	in the neighborhood of \$25 million.		
20	producing this similar type of fuel we believe	20	COMMISSIONER JOHNSON: Chump chan		
20	that competition will minimize some of that impact.	21	really. And that would be for both lines, both the		
21	But if the cost of natural gas doubles and triples,	22	southeast and the northeast line?		
22	we know there will be some influence on the coal	23	MR. ROLFES: No. This is only		
23	price, but we expect it to be much, much, much	23	looking at 345 for the south line. And the south		
24	smaller than what we see in natural gas.	24	line parallels the Coteau Hills and the north end		
20		20			

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Case Co	mpress		
	73		75
1	of the Buffalo Ridge. So it's the area where we	1	Would you please if you are having trouble
2	would expect the region to need additional	2	speaking loud enough, you may see a few folks like
3	capacity.	3	this (indicating). It's very important that the
4	The line that runs north to Morris is not a	4	court reporter be able to hear what you're saying
5	prime wind development. We don't expect the needs,	5	so if you're having problems projecting and you see
6	the regional needs, to justify anything more than	6	some hands cupped to our ears, you will move up
7	230 on that line.	7	here, please, and speak in the general direction of
8	COMMISSIONER JOHNSON: Okay.	8	the Council and the court reporter.
9	Perfect. Thank you.	9	COMMISSIONER JOHNSON: I'd just make
10	VICE CHAIRMAN SAHR: Mark, one last	10	one other comment. Chairman Hanson did make a good
11	question. Have you looked at all obviously this	11	point about the importance of signing in. I'd add
12	is a major investment. Have you looked at any sort	12	one more reason. That's really our public record
13	of potential rate impact?	13	of who was here tonight, who in the community and
14	For the investor-owned companies we do set the	14	the region felt it was important enough to come
15	electricity rates. Do you see any expected	15	out.
16	increase, decrease, so on and so forth? We'll take	16	Even if you don't say anything, we'd be
17	a decrease but	10	interested in making sure we have your attendance
18	MR. ROLFES: I can probably assure	18	noted.
19	that there won't be a decrease because of this.	19	VICE CHAIRMAN SAHR: Mr. Chairman,
20	Each utility looks differently. I don't know,	20	may I add one more thing? I'm just curious, show
20	Stacie, if you are in a position to comment. I	20	of hands for my sake how many people are in favor
21	don't know, to be honest.	21	of the plant or feel good about it right now?
22	MS. HEBERT: Like Mark said, each	22	(Hands are raised)
23	utility is taking a look at that on an individual	23	VICE CHAIRMAN SAHR: The utility
24	• •	24	-
20	basis, and that's something that we're working on	25	guys up front for the utility, you better raise
	74		76
1	as part of the Minnesota certificate of need	1	your hand. Thank you.
2	process, but I don't have anything available for	2	CHAIRMAN HANSON: I also noticed a
3	you right now.	3	number of elected officials who are in the
4	VICE CHAIRMAN SAHR: Thank you.	4	audience, and I'd like to point out that Val Rausch
5	CHAIRMAN HANSON: Thank you.	5	and Steve Street, Representatives, are here, if you
6	(A short recess is taken)	6	would raise your hand and say howdy.
7	CHAIRMAN HANSON: Ladies and	7	Additionally, Jim Peterson, State Senator, I
8	gentlemen, I have just a couple of announcements	8	believe I saw him. And County Commissioners, I saw
9	before we get on our way with public testimony.	9	a group of them conspiring somewhere. We'd like to
10	The first is that we do have a sign-up sheet as we	10	say hello. Acting Mayor Don Larson from Milbank.
11	explained earlier. You will need to place your	11	There you are. As well as Mayor Deb Wick from
12	address on the sign-up sheet if you wish to receive	12	Big Stone. We appreciate very much having you here
13	any of the mailings so please be sure to do that.	13	this evening.
14	Right now, however, the sign up sheet is up	14	Bruce Gerhardson would like to make a couple
15	here with Cheri. You can go ahead and sign your	15	of comments, address the captive coal issue before
16	name a second time with the address if you haven't	16	we get in with the public testimony. You can fault
17	already on a sheet back there in case you don't	17	me for asking that particular question.
18	find your name back there.	18	MR. GERHARDSON: I'll actually if
19	When we take public testimony you will	19	you don't mind, if you're not sick of Mark Rolfes,
20	obviously need to use your outside voice. Pretend	20	I'll have Mark speak to it. Mark is I think in
21	you're an auctioneer at an auction. You don't have	21	many ways better than I. I will certainly fill in
1_{22}^{-1}	to speak quickly. We prefer you enunciate, and we	22	if you prefer.
-1 23	have an opportunity to hear you. We want everyone	23	CHAIRMAN HANSON: I was informed
24	to have an opportunity to be a part of this and to	24	that you needed to address that issue. Thank you.
25	hear what is being said.	25	MR. ROLFES: When the question was

Case Cor	Case Compress							
	77		79					
1	asked about captive rail and I just responded as	1	Commission proceeding regarding the Big Stone II					
2	yes but maybe a little bit more explanation so	2	project.					
3	everybody understands what we're talking about and	3	We have concerns about the proposed Big Stone					
4	the process.	4	Il power plant, not the least of which that it					
5	Right now the existing Big Stone I unit and	5	would be a substantial increase in carbon dioxide					
6	the proposed Big Stone II unit can only receive	6	emissions over today's. This is an environmental					
7	rail deliveries from the Burlington Northern	7	issue and a financial issue. The world's emerging					
8	Sante Fe Railroad. So when we say we're captive it	8	response to global warming will inevitably					
9	means we only have a single rail supplier we can go	9	transform the regulatory climate in the years					
10	to. There is not competition.	10	ahead. These new laws will in turn change the					
11	Just a little sidelight to that. There is an	11	economics and the technology of electrical					
12	organization referred to as the Surface	12	production.					
13	Transportation Board. It's what used to be the	13	This will make high carbon energy sources					
14	Interstate Commerce Commission, but now it's the	14	relatively more expensive than they are today,					
15	Surface Transportation Board that's supposed to	15	while low carbon energy sources become better and					
16	regulate disputes when a customer feels that they	16	cheaper through technological advanced economies of					
17	are being overcharged by the railroad.	10	sale and government initiatives.					
18	And currently we are involved in a Surface	18	The Big Stone II partners have proposed a					
19	Transportation Board case that's pending. In fact,	19	high-risk, high-cost power plant when you consider					
20	we expect a decision very soon. That is a very	20	the ratepayer costs that are likely under a					
20		20						
21	long and tenuous process that we have been at for		carbon-capped regulatory scenario. Just this					
	many, many years. It's a very cumbersome process.	22	summer the United States Senate passed a resolution					
23	That proceeding will set the tariff rate for a	23	nonbinding supporting, "a comprehensive and					
24	20-year period for fuel shipments.	24	effective national program of mandatory,					
25	So we are captive, one supplier that does	25	market based limits and incentives on emissions					
-	78		80					
11	has the ability to have monopolistic tendencies,	1	of greenhouse gases." The regulatory path ahead					
2	and our remedy is to go to the Surface	2	puts a hefty price tag on proposals such as					
3	Transportation Board for setting of our rates,	3	Big Stone II.					
4	which is a long, cumbersome process.	4	In fact, Otter Tail Power is one of the main					
5	CHAIRMAN HANSON: Thank you very	5	proponents of the project. Their largest customers					
6	much, Mark. We'll give the public testimony	6	in Minnesota, Enbridge Energy Corporation, which is					
7	portion of the hearing. We'll appreciate hearing	7	a large natural gas pipe line as well as an oil					
8	from any citizens who wish to speak to the	8	pipeline, is seeking to insulate itself from the					
9	Commission at this time.	9	high costs and risks of future fossil fuel					
10	MR. SOKOLSKI: My name is	10	regulation from investments such as Big Stone by					
11	Adam Sokolski. I represent the Izaak Walton League	11	seeking from Otter Tail a long-term contract that					
12	of America. We've got members all across the	12	is keyed into the costs of a new wind power					
13	country, including several major chapters here in	13	development in the other Dakota, North Dakota.					
14	South Dakota as close as Watertown. I'm going to	14	The Izaak Walton League, Minnesotans For An					
15	ask that my written comments be added to the record	15	Energy Efficient Economy, and the Union Of					
16	of today's hearing. I'm going to go ahead and	16	Concerned Scientists appreciate the opportunity to					
17	insert some handwritten not notes but	17	participate in the South Dakota PUC's proceeding.					
18	corrections to it.	18	Thank you.					
		19	-					
19	I'm an energy associate for our Izaac Walton		And may I add this to the record?					
20	League's Midwest Office in St. Paul, Minnesota. I	20	CHAIRMAN HANSON: Yes.					
21	work on energy issues throughout the region	21	(Exhibit 2 is marked for identification)					
1 22	together with our partners for Minnesota For Energy	22	CHAIRMAN HANSON: Is there any					
23	Efficient Economy, The Union Of Concerned	23	further public testimony, please. You may also ask					
24	Scientists, and excuse me. Intending to	24	questions if you have any concerns.					
25	intervene in the South Dakota Public Utilities	25	MS. WHITE: Thank you for allowing					

Case	Case Compress						
<u> </u>	81		83				
1	me to speak tonight. My name is Deanna White, and	1	talking about potential increases in other criteria				
2	I am with the Sierra Club, and I'm here on behalf	2	pollutants including mercury which is going to				
3	of the several thousand members in the Sierra Club	3	spread far beyond the immediate community of the				
4	that live in South Dakota and in Minnesota.	4	plant and the holding pond.				
5	I had a couple of questions about the	5	And, you know, we think that there are some				
6	presentation that I'd like to I guess get into the	6	real concerns about the impact that that's going to				
7	record. My comments aren't as neatly typed and	7	have on the health of folks that live within the				
8	organized as other folks, but there were just a few	8	area of those pollutants are going to be part of				
9	thoughts and concerns that I wanted to make sure	9	the air that they're breathing. That's going to				
10	were part of the record.	10	have an impact on their health, going to have an				
11	Sierra Club has submitted official comments in	11	impact on our economy, not just in terms of the				
12	writing as part of the scoping process, but I	12	increased costs in hospital visits and asthma and				
13	wanted to just hit some of the highlights and	13	other problems that folks are going to be facing				
14	concerns and we'll make sure copies of our written	14	that are going to contribute to increased hospital				
15	comments were also submitted to the PUC for your	15	visits and other problems, but, you know, I grew up				
16	perusal.	16	in South Dakota. We hunt and fish. We're				
17	First, in terms of the questions on the	17	outdoors. Those rivers, streams, lakes are				
18	presentation, I was a little confused and math	18	incredibly important to us. We're already seeing				
19	isn't my strong suit and never has been but I	19	problems in Minnesota that are creeping into				
20	noticed that on the MAPP deficit diagram there was	20	South Dakota with mercury pollution in our lakes				
21	an awfully sharp move from, you know, the plus side	21	and streams that has an impact not just on what I				
22	to the negative side. And I didn't see why that	22	get to do on the weekend but it has a huge impact				
23	was, why all the sudden in, you know, 2007 I	23	on the tourism that has a fundamental base for				
24	believe it was that number just suddenly became a	24	small communities in rural South Dakota.				
25	deficit. So I'd be curious to know more about	25	I'd encourage you to really consider that				
		20					
1.	82						
1	that.	1	impact as well and the potential impact on tourism				
2	I'm also very encouraged to hear that some of	2	and our quality of life as well as the global				
3	the emissions might be cut by as much as 50 percent	3	warming impacts and all of the other things that I				
4	of current levels, and I would hope that efforts	4	know folks are going to be talking about tonight.				
5	would be made in Big Stone I or the existing	5	I think just to keep it short because it's				
6	Big Stone Plant to cut those emissions with or	6	getting late, why are we committing, you know,				
7	without Big Stone II. I think that if that	7	another 40 years and another billion dollars to a				
8	technology exists, which is what you're telling us	8	technology that's already out of date? We need to				
9	this evening, I would hope that you would consider	9	be exploring other alternatives to coal and other				
10	that option.	10	alternatives to building new polluting coal fire				
11	And the other concern that I had or question	11	power plants. We should be investing in				
12	that I had when you were going through the	12	alternative energy. We should be investing in				
13	environmental impact specifically as well as the	13	energy efficiency, and we should be looking at				
14	community impacts that this proposed plant would	14	other alternatives instead of trying to do the same				
15	have is it seemed like you were really looking just	15	thing over and over again.				
16	at the footprint for the actual building of the	16	Thank you for your time, thank you for your				
17	plant, and I think it's important for the	17	attention, and I'll make sure we get copies of our				
18	Commissioners, for the public, and for the folks at	18	official comments for your record.				
19	Otter Tail to consider the broader impact. Because	19	CHAIRMAN HANSON: Thank you, Diana				
20	that is where most of the concerns that folks have	20	(sic). And I think it's appropriate to have				
21	with the building of this plant lie.	21	answers to those questions at this time. I believe				
22	You're talking about, you know, more trains.	22	the Commissioners didn't ask the question. It's a				
23	You're talking about the effect that's going to	23	very good question about the reduction in				
24	have as those trains travel through communities	24	generation. The Commissioners didn't ask that				
25	well outside of your 20-mile radius. You're	25	question because we knew the answer. Certainly				

	Case	Compress		
		85		87
	1	we'd like to hear from Otter Tail and excuse me,	1	making the scrubber and other changes will
	2	Big Stone, whomever.	2	ensure that the emissions are no greater either
	3	MS. HEBERT: The question that Diana	3	less than or equal to what is coming out today.
	4	raised had to do with the steep increase in	4	So for SO2, NOX, and mercury the effect on the
· · · ·	5	deficits that's seen in the MAPP power pool	5	surrounding area can only be positive from where it
ļ	6	beginning in 2010. There's really three reasons,	6	is today.
ĺ	7	three drivers behind that decrease. One of them	7	CHAIRMAN HANSON: Thank you very
ļ	8	being load growth of the utilities. The second one	8	much. Are there further questions or comment at
	9	could be retirement of existing generating plants	9	this time? This is not necessarily just opponents
[10	that have reached the end of their useful life and	10	by any means. We're interested in hearing what
	11	so no longer are going to be generating	11	people have to say.
	12	electricity. And the third possibility, a lot of	12	MR. KEEGEL: Commission members,
	13	utilities in MAPP have capacity purchases from	13	thank you for coming down this evening. It's a
ł	14	other utilities. So another factor is that they	14	long distance to be and a late evening. Concerned
	15	may have capacity purchases that expire in that	15	members of the community, thank you for taking a
	16	2010, 2011 time frame and out beyond that too. So	16	few moments here.
	17	those are three reasons why the amount of capacity	17	My name is DeWayne Keegel. I work for
	18	available could be shrinking going forward.	18	Missouri River Energy Services, otherwise known
	19	CHAIRMAN HANSON: Stacie, is that a	19	as our financing arm is Western Minnesota
	20	MAPP generated graph that you presented?	20	Municipal Power Agency, one of the owners of this
	21	MS. HEBERT: That is not a	21	potential project.
	22	MAPP-generated graph. That's a Big Stone-generated	22	On behalf of Public Power I was asked to
	23	graph. But that data is pulled from the	23	deliver, you know, a brief statement of our member
1	24	Midcontinent Area Power Pool website, and that	24	communities. We represent 59 municipalities within
	25	reference is included in the application.	25	the State of Minnesota, South Dakota, Iowa, and
e anna an a		86		88
	1	CHAIRMAN HANSON: Thank you. Other	1	North Dakota. Of that, 22 of our member
	2	questions for were emissions reductions and a	2	communities are in the State of Minnesota, 12 in
	2	desire to see additional emissions reductions and	3	the State of South Dakota. We serve on their
	4	concern for environmental impact outside of the	4	behalf. They are not-for-profit agencies, as we
	4 5		5	are, so we try and represent their interests.
	6	immediate area of the plant. Could you address that for us, please.	6	Their three primary concerns are, number one,
	17	MR. ROLFES: Just to make things as	7	that we produce energy for them in a very
	8	clear as possible, in our presentation we talked	8	environmentally friendly manner. Two, that we do
	9	about a joint scrubber. What that is is a scrubber	9	that at a very cost-effective rate and that we do
	10	that will scrub the emissions from not only the new	10	that in a very reliable format.
	11	unit but the existing unit.	11	We're excited about the Big Stone opportunity
	12	And I want everybody to be very clear that the	12	because, number one, from an environmental
	13	rules and regulations and such in place today do	13	standpoint we're more than doubling the generation
	14	not require that. All we would have to do is build	14	from the existing site, and we're reducing the
	15	Big Stone II to the standards that are applicable.	15	emissions output. That meets one of the criteria
	16	•	16	from our members. They're quite excited about that
	17	We are proposing to make this a better project	17	
		by building a scrubber that is twice as big and	18	opportunity.
	18 19	taking the exhaust gases from Big Stone I to that.	1	Back in 1980 we built our last generation
		So even though the output from the site will more	19	resource in Wheatland, Wyoming in Laramie River
	20	than double, SO2, which is the primary pollutant	20	Station. That unit has met our members' needs from
	21	removed by the scrubber, will probably be roughly	21	1980 until 2009, where in 2010 we go into our
(22	15 percent of what it is today. We're reducing it	22	generation deficit which we see in the MAPP Region.
14 A.	23	by 85 percent.	23	So from our member communities we see the same
	24	The other pollutants that people are normally	24	types of things that have been reported as you'd
	25	concerned about, nitric oxide and mercury, we're	25	expect as members of MAPP.

C	Case Compress						
Γ	89		91				
	1 Currently we continue to build those types of	1	Further comment, please. Good evening.				
	2 reserves in the peaking power facilities where	2	MS. MEYERS: Good evening. My name				
	3 we're utilizing natural gas. That we see as a	3	is Nettie Myers. I'm the President of Utility				
· .	4 stopgap to meet our reserves. Our member	4	Shareholders of South Dakota representing over				
	5 communities also have integral programs for	5	2,000 members of utility shareholders of the				
	6 integrating wind resources into the community. We	6	investor owned utilities in South Dakota, and we				
	7 see the potential opportunities from the new	7	wholeheartedly support this project.				
	8 transmission lines as also contributing to the	8	Thank you.				
	9 further development of those types of resources.	9	CHAIRMAN HANSON: Thank you.				
ŀ	0 So on behalf of Public Power what we'd like to	10	Further comment, please.				
	1 state is that we see this as a very viable	11	MR. LIEBE: I'm a local resident.				
	2 opportunity for providing cost-effective, reliable	12	I'm also a member of the Board of Directors of				
	3 energy that takes into account the environmental	13	Utility Shareholders. I'm not here in that				
	4 issues well into the future.	14	capacity. I'm here as a consumer, a shareholder,				
	5 We anticipate this resource to contribute to	15	and a concerned citizen.				
	16 the needs of our members, those nonprofit people	16	I am definitely in favor of this project from				
	17 who elect the boards that direct us well into the	17	the I was at the energy seminar that was put on				
	18 future as much as 50 years. So on behalf of	18	at the PUC in Sioux Falls, and the demonstration of				
	19 Public Power, that's what we'd like to state.	19	the need for power is great and if we're going to				
	20 Thank you, folks.	20	expand in our community, farm communities, rural				
	21 CHAIRMAN HANSON: Thank you.	21	communities are going to grow, I'd like to see				
	22 Further comment?	22	people pushing for something rather than being				
	23 MS. WERDEL: Good evening. My name	23	against all the time. We're against this, we're				
	is Nancy Werdel, and I work for Western Area Power	24	against that.				
	25 Administration. The project applicants have come	25	We hear the most efficient electric energy				
ŀ			92				
. 1	90						
	1 to Western for an interconnection request, and as a	1	would be nuclear energy. And yesterday or the day before I heard on TV that the effects of Chernobyl,				
	2 result of that, Western will be preparing an3 Environmental Impact Statement under the National	3					
		4	the accident that was so great, it was so great, is actually very minimal. It was a percentage of what				
		5					
	 for federal projects. And because of their interconnection request this is part of a federal 	6	they said it was going to be. And I'd like to see people be in favor of something rather than against				
			it, against everything and cause everyone else a				
	 7 project. 8 I just would like to remind the members of the 	8	lot of extra expenses and stuff to get something				
	•	9	through that we need for our community, our area,				
	•	10	to grow economically. And I'm definitely in favor				
	10 organizations that there are actually five separate 11 processes that they need to be engaged in for this	11	of this project.				
	12 project, including the PUC's plant siting process,	12	CHAIRMAN HANSON: Further comment,				
	13 as well as the State of South Dakota's transmission	13	please.				
	14 siting process. And the State of Minnesota has two	14	COMMISSIONER JOHNSON: If you				
	15 processes for their certificate in need and also	15	gentlemen are the Three Musketeers, we're the				
	16 high voltage transmission project.	16	Three Stooges.				
	17 Some of those are in various stages of the	17	MR. PETERSON: For those of you who				
	18 permit processes, and please make sure that you	18	don't know, I'll begin because I'm the senior				
	19 engage in all of those processes so that you can	19	member of this group. I'm Jim Peterson, State				
	20 provide your comments.	20	Senator, District 4. We want to welcome our PUC				
	21 And Western has a website where we will be	20	people. It's great to have you here. We really				
	22 providing information on the EIS at www.wapa.gov,	21	appreciate it.				
	and look under the interconnection projects.	22	And I just have to welcome Chris Madsen back.				
	24 That's all. Thank you.	23	Chris and I sat one chair apart my first year in				
	25 CHAIRMAN HANSON: Thank you, Nancy		the house, and I really respect that gentleman. I				
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С	ase Compress	3		
		93		95
	1 jus	st wish that he would have stayed and he would	1	opportunity for the largest private construction
	2 ha	ve been our speaker, but he's a tremendous asset	2	project in the State of South Dakota, \$1 billion.
		whoever got him here.	3	And the revenue that that's going to generate for
	4	You know, when we looked at this during the	4	all of us in the state and the ones that are our
1		gislative session there were a couple of things	5	neighboring states at least through the
	-	at we were looking at. One was the economic	6	construction, just a great opportunity for us.
		velopment, and everybody has heard about the	7	And Senator Peterson's right. Environmentally
		onomic impact to the community. You've heard	8	we looked at all of those things, and we just
		out the jobs. You've heard about the workers	9	couldn't see where it was a lose situation.
		at are going to come in, how it's going to	10	Is there some downsides in big construction
1		nefit the restaurants and everything else.	11	projects and a bunch of strangers coming in? Yeah,
	12	Tonight you heard about a potential	12	there is. But we did it 25, 30 years ago, and
		evelopment that can occur from Milbank and for	13	they've been a great neighbor for 30 years.
) miles south. We have the Coteau Hills running	14	They've been active in our communities, and they
		rough Grant County, Deuel County down into	15	have treated us well.
		o i i	16	
		rookings County, one of the prime wind areas of	10 17	They've continued to put money in that plant when the EPA and those things haven't required them
		buth Dakota. Mark told you that this is being		a 1
		erbuilt going south. There's a tremendous	18	to do so because they want to be a good neighbor.
		otential. Every megawatt of wind costs about	19	They want to run a good facility. We're glad to
- 1	•	1.3 million dollars. A lot of farmers down in	20	have them as a neighbor. We're here to support the
		euel County are really excited about maybe being	21	project and give them whatever help we can from our
		ble to add wind generation on.	22	roles and give our constituents what I think we all
	23	Another thing that we looked at was the	23	want and that's growth in our areas and a more
		nvironmental impact. And Mark explained tonight	24	sound economy. Thank you.
	25 at	bout how this is going to be a win-win situation	25	MR. STREET: I concur with the
F		94		96
. [1 fo	r our district, for our area, because the total	1	gentlemen's statements. I speak as a neighbor. I
		missions from both plants will be less than the	2	live 18 miles south of the existing facility. My
		urrent plant. The nitrous oxides, the sulfur	3	role as a state legislator, we've supported this
		ioxide, mercury, it's all going to be less.	4	project. I'd like to go on record as
	5	It's a win-win deal. It had tremendous	5	congratulating Mark Rolfes and his crew doing a
		gislative support. There was almost unanimous	6	wonderful job of creating a plan for a very
		upport for the incentive bills that we came up	7	environmentally friendly electrical plant. They've
		ith. And we feel it's great for the community.	8	done a great job.
		e feel that Otter Tail has been a tremendous	9	Really the relationship I can speak most about
		sset, and we really want to see this project go	10	is our representing Northern Lights Ethanol. We
		prward.	11	exist on the property of Big Stone I. We lease our
	12		12	land from them. We've been in business with them
		I'll let the other guys speak. Go ahead, Val.		
	13	MR. RAUSCH: Get in between those	13	for six years now. Over the course of those years,
		wo Democrats. They do look out for me. It's a	14	of course, we've run into some problems. And it's
		onderful working relationship that we have as	15	solving those problems that's where they really
		Representatives of District 4 in the Senate and the	16	shine. The utmost professionalism when you have
		louse, and Senator Peterson is absolutely correct.	17	problems with them not with them, but when
		t almost was complete unanimous. Statewide	18	problems creep up they get solved in a very
		poking at this type of project, at the	19	professional manner, and I think that speaks well
		pportunities to bring more people into our state,	20	of both parties. It's just been a good
		ot just to work, some will come to live, but just	21	relationship.
ļ	22 a	- in the future an extra value added to our	22	And I'd just like to go on record again as
-1	23 р	property.	23	congratulating Otter Tail for doing a wonderful
	24	We always think of we're an ag state. We're	24	job, Mark, and the rest of you. Way to go.
		in ag state, but we finally have another	25	CHAIRMAN HANSON: Thank you.
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	Case C	ompress		
		97		99
	1	Further comment, please.	1	I will pass these down. I'll place extra
	2	MR. TUCHOLKE: After the team	2	copies in the back for those of you who want to
	3	approach, this isn't going to be as exciting. I'm	3	pick them up. And, for the record, these are a
<u> </u>	4	Clayton Tucholke, Gene Mann, Grant County	4	synopsis of the comments we presented earlier as an
1 .	5	Commissioners. We'd like to welcome you to Milbank	5	intervening party. And here's contact information.
	6	and Grant County, appreciate you coming up.	6	I'll be the first to admit I like my
	7	We've been around I guess representing the	7	electricity and I use it. Four children. I'm on
	8	Commission. We've been involved in this right	8	the farm. We had ice storms. We had power go out
	9	before the start back before anybody else heard	9	for four or five days and no way to get into town.
	10	about it, the Commissioners do, and our questions	10	I know what it is to have electricity, and I
	11	have been answered. We're very supportive of	11	appreciate it. I will be the first to admit it.
	12	what's happening, especially looking back the	12	Do we know that South Dakota is considered and
	13	30 years we've been involved and seeing the other	13	has been rated as the Saudi Arabia along with the
	14	one built and looking forward to this one here	14	other Upper Midwest states, the Saudi Arabia of
	15	coming to Grant County for the need for the power.	15	wind energy?
	16	And it will be a great thing for our economy in the	16	Fact: South Dakota has a potential power
	17	future.	17	output of 117,200 megawatts. That's the
	18	MR. MANN: I'm Gene Mann and also a	18	equivalent of 195 coal plants the size of proposed
	19	County Commissioner, and I guess one thing that has	19	Big Stone II. We have that capacity, that
	20	struck me tonight that I just really thought of,	20	availability. Some will say it's not reliable.
	21	I've been a Commissioner for 15 years and Chairman	21	Fact: There's a plant going up, the final
	22	of the Planning and Zoning Board for 15 years,	22	report came in in June just this last year, and
	23	12 years previous to that on the City Council. And	23	it's called Compressed Air Energy Storage. This
	24	I have never heard a Complaint about the way the	24	plant is going up down in the Oklahoma, Texas,
	25	power plant out here has been operated.	25	New Mexico area. They are putting this
		98		100
	1	And as far as I'm concerned, it's a classy	1	implementing this in. It's Compressed Air Energy
	2	outfit, and they bend over backwards to cooperate	2	Storage, CAES. It will go online in year three.
	3	with everybody around.	3	I spoke with Dick Kelly this morning, CEO of
	4	Thank you.	4	Xcel Energy. After he got done speaking I said, Do
	5	CHAIRMAN HANSON: Thank you,	5	you know about this? What does Xcel think about
	6	gentlemen. Further comment this evening?	6	this? Yes. He says, That's key. That's key.
	7	MS. STUEVE: I'd like to take up the	7	South Dakota could tap this, could look into
	8	challenge the gentlemen presented about can we push	8	this Compressed Air Energy Storage. It a
	9	for something. Yes, we can, and I will push for	9	three-year time frame to get it on. We have the
	10	something. We can do more. We can do better. We	10	underground storage to be able to put the air in to
	11	can do bigger. We can win bigger.	11	bring it out at high market demand time and to be
	12	I am Mary Joe Stueve, S-T-U-E-V-E, and I am	12	able to we have the coal plant. It's usually a
	13	here in two capacities tonight. I just joined on	13	dual operation.
	14	with Clean Water Action South Dakota out of	14	I urge the Commission to look at Compressed
	15	Sioux Falls. And I have information here that I	15	Air Energy Storage. I can get you the report site,
	16	would like for the record that I will present.	16	the document. It's titled The Economic Impact of
	17	But I'm also here in the capacity I've	17	CAES on Wind in Texas, Oklahoma, and New Mexico.
	18	raised my four children on a family farm in between	18	The other things I would like the
	19	Big Stone County and Traverse County in Minnesota	19	Commissioners and I appreciate you coming
	20	24 years. I have grandchildren. I have a home in	20	tonight. I appreciate the opportunity to speak and
	20	Graceville, Minnesota. Me and my family and our	20	to hear what everyone's talking about. Some
	$ _{22}^{21}$	children, we live there off and on. We come back.	21	concerns and questions I had with the earlier
(122 123	We intend to move back. I have a home there, I	22	presentation:
\	23	•	23	On the mercury, correct me if I'm wrong,
	24	have land there, and I have an interest in what's	24	please. I heard you say we would be at the same or
	20	going on here.		

	Case Co	ompress		
		101		103
	1	lower levels of mercury emission with the two	1	and Minnesota guidelines are different, although we
	2	plants.	2	do share the same wonderful lake, Big Stone Lake.
	3	MR. GRAUMANN: That's correct.	3	And I'm not familiar with the rules and
ſ.	4	That's our target.	4	regulations. I would like that to be considered as
	5	MS. STUEVE: I might ask at this	5	part. In Minnesota we have a court case and
	6	point in time, please correct me again if I'm	6	development was halted down near the suburban
	7	wrong, but Big Stone I was grandfathered in before	7	metropolitan area. Development was supposed to
	8	the new emission guidelines came out with mercury	8	occur, but it would impair a river down there that
	9	emissions and the new guidelines are lower and the	9	was already it would further impair it. And
	10	older plants operate at 4 to 13 times higher than	10	when it's listed as being impaired certain projects
	11	the new required emissions for the plants that were	11	that would add to the pollution to it are not
	12	not grandfathered in. So will we still be above	12	allowed to continue. That would need to be looked
	13	the new guidelines if we are operating at 2004	13	at. Big Stone, Little Minnesota, potential rivers
	14	levels?	14	coming out from there. And it has to be more than
	15	MR. GRAUMANN: Your understanding of	15	just the adjacent. It's at least a 50-mile radius.
	16	that isn't entirely correct. When EPA developed	16	The other one would be the job curve that you
	17	the new mercury rules in 2005, March of 2005, they	17	showed for the Big Stone Plant. And we do need
	18	did actually two things. They established emission	18	jobs. We do need development. Any of you who have
	19	rates for mercury for new plants. They also	19	not been down to the Lake Benton area and seen what
	20	established the national cap and trade system for	20	has happened to the local economy, the community
	21	mercury. And they allocated allowances to each of	21	down there, I urge you to take a look at that and
	22	the states as a part of that particular process.	22	see what has happened with the wind power
	23	South Dakota's allocation is about 144 pounds	23	development down there.
	24	based on the standards for beginning in 2010. And	24	The job curve that you showed went up and
	25	in 2018 that drops to 58.	25	down, the bell curve; correct? I would like the
r ^{i i}		102		104
(1 1	And so in absence of any controlled	1	Commission to consider and to be part of this
	2	technologies, Big Stone I would have a choice of	2	study, economic impact. I have a guess that the
	3	either, one, buying allowances, or, two, scrubbing	3	job curve for the wind development potential would
	4	or doing something to reduce the mercury emissions	4	be a curve up and it would plateau and keep up.
	5	down to those levels because we that cap would	5	We heard from the tour that for every one to
	6	apply then to our particular units. We couldn't do	6	20 turbines there's at least three jobs and there's
	7	anything, we couldn't emit anymore mercury than the	7	hundreds we have the potential for thousands of
	8	cap would allow, otherwise we'd be in violation of	8	windmills across South Dakota and a development and
	9	the rules.	9	sustainability of jobs.
	10	And so there is an apples and oranges	10	I have many other things. I thank you for
	11	comparison, but to say that Big Stone I is not	11	your time, though. Most of the other comments and
	12	going to be controlled, that's incorrect because	12	concerns I have as a citizen and as Clean Water
	13	they will need to meet the new mercury levels	13	Action are in the written comments we submitted.
	14	either by buying extra allowances above the 144 or	14	CHAIRMAN HANSON: Thank you,
	15	doing something to get down to the 144, if the	15	Mary Joe. And we will mark those as Exhibits 3A
	16	allowances are all distributed to Big Stone I. And	16	and 3B, 3C.
	17	that's not our decision. That will be the State of	17	(Exhibits 3A through 3C are marked for identification)
	18	South Dakota's.	18	COMMISSIONER JOHNSON: For anybody
	19	MS. STUEVE: It will be contingent	19	in the audience that just because you don't take an
	20	on the decision.	20	opportunity to speak tonight doesn't mean this is
	20	(Discussion off the record)	20	your last opportunity for input. Certainly we
	22	CHAIRMAN HANSON: Please, go ahead.	22	would welcome written comments at the Commission as
l (1 23	MS. STUEVE: Okay. Another concern	23	well. That's it.
"Name"	23	and something I would like to be considered, total	23	CHAIRMAN HANSON: Thank you. And,
	25	maximum daily load, TMLD. I'm certain South Dakota	25	Nancy from WAPA, would you please make an attempt,

С	ase (Compress		
Γ		105	1	STATE OF SOUTH DAKOTA)
	1	if you can if you cannot, just tell me as	2	:SS CERTIFICATE
	2	Mary Joe was stating some of her concerns	3	COUNTY OF HUGHES)
	3	pertaining to the environment and whether or not	4	,
	4	information would be provided outside of certain	5	I, CHERI MCCOMSEY WITTLER, a Registered
	5	areas regarding certain specifics as she went into,		
	6	will the Environmental Impact Statement that WAPA	6	Professional Reporter and Notary Public in and for the
	7	is entering - is going through address those	7	State of South Dakota:
	8	issues?	8	DO HEREBY CERTIFY that as the duly-appointed
	9	MS. WERDEL: One thing about the	9	shorthand reporter, I took in shorthand the proceedings
		federal EIS is it looks at all of the different	10	had in the above-entitled matter on the 13th day of
	10		11	September 2005, and that the attached is a true and
	11	parts of the project rather than just the specific	12	correct transcription of the proceedings so taken.
	12	part. So it will look at the project as a whole	13	Dated at Pierre, South Dakota this 21st day
	13	and the impacts as a whole and provide a study of	14	of September 2005.
	14	all the impacts throughout the general area.	15	
	15	CHAIRMAN HANSON: Will it also	16	
	16	include the lakes, streams, river that she was	17	
	17	referring to?	18	Cheri McComsey Wittler,
	18	MS. WERDEL: It will have water		Notary Public and
	19	quality impacts as part of that study. And I took	19	Registered Professional Reporter
	20	a couple of notes, and we'll take those back and	20 21	
	21	put those as part of our scoping as an inclusionary	22	
	22	thing into the EIS.	23	
	23	CHAIRMAN HANSON: Thank you very	24	
	24	much. Thank you very much.		
	25	MS. STUEVE: 1 will put extra copies	25	
	20			
		106		
	1	at the back table.		
	2	CHAIRMAN HANSON: Further public		
	3	comment, please. Close to the auctioneer saying		
	4	sold here. So if you have a desire to speak, this		
	5	is the time.		
	6	Ladies and gentlemen, the Public Utilities		
	7	Commissioners appreciate your attendance, and we		
	8	know that this is a very important issue regardless		
	9	of whether you're on the left side, right side, or		
	10	you're walking down the fence on this issue, just		
	10	attempting to learn more.		
		We recognize that sometimes it can be an		
	12 12	0		
	13	emotional issue. We very much appreciate the		
	14	dignified and respectful fashion in which you have		
	15	testified here today. The information that's been		
	16	provided we feel is very valuable, and at this time		
	17	we will conclude the meeting.		
	18	Excuse me. Before I do that, Commissioner		
	19	Johnson made an excellent point. Please be aware		
	20	if you have additional information, you wake up at		
	21	3 o'clock tonight and think oh, I wish I had said		
	22	this, please submit that to the Public Utilities		
1	23	Commission. We appreciate that.		
	24	That concludes the hearing.	1	
	24 25	(The hearing concluded at 9:45 p.m.)		
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South Dakota Public Utilities Commission

Big Stone II Energy Conversion Facility Siting Permit Public Hearing September 13, 2005





Big Stone II Co-owners















Energy Sources Considered

- Wind
- Super-critical pulverized coal
- Atmospheric circulating fluidized bed
- Integrated gasification combined cycle
- Combined cycle gas turbine (natural gas)

Big Stone II Alternative Site Evaluation Study

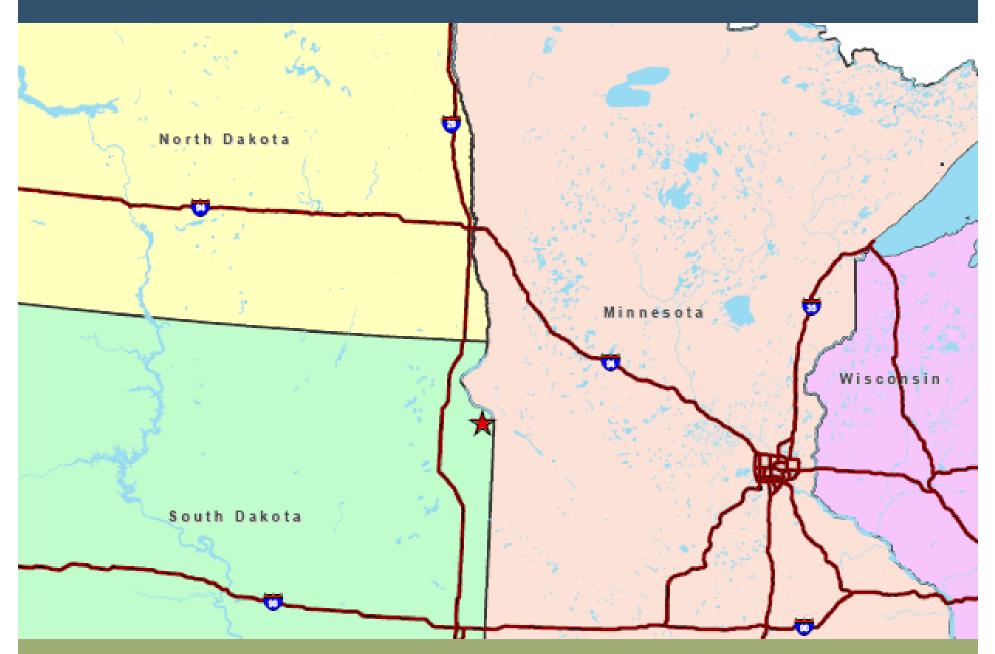


Candidate Sites

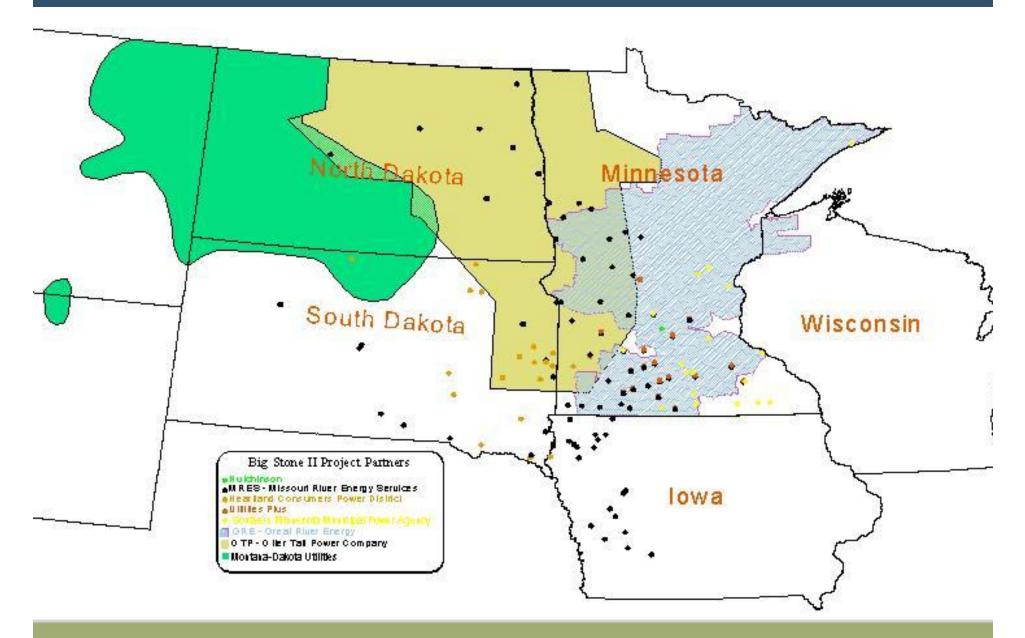
- Big Stone Grant County, South Dakota
- Coyote Mercer County, North Dakota
- Dickinson Wright County, Minnesota
- Fargo Cass County, North Dakota
- Glenham Walworth County, South Dakota
- Utica Junction Yankton County, South Dakota

Site evaluation criteria

- Air Impacts: Class I Area and Airspace Restrictions
- Water Supply: Surface Water Proximity and Water Supply Potential
- Environmental: Socioeconomics, Land Use Compatibility, Protected Species Impacts, Noise Impacts, and Wetlands
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- Transmission: Proximity to Interconnection Point and Expected System Impacts
- Other: Highway Access, Land Availability and Common Facilities/Staff



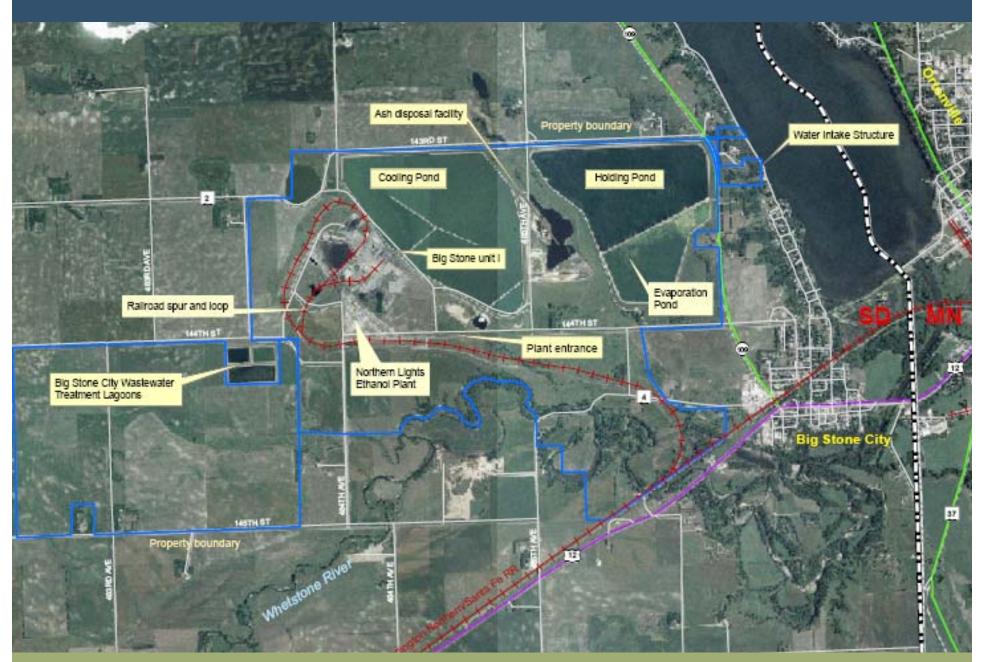
Big Stone II Preferred Site



Co-owners' Service Territories

Project Description





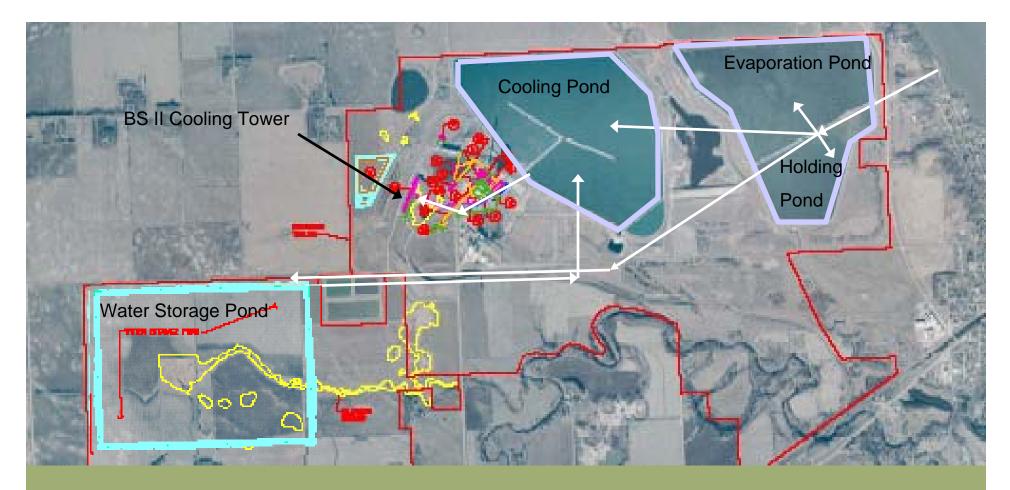
Existing Facility

Opportunities to Share Existing Infrastructure

- Cooling water intake structure, pumping system and delivery line
- Plant road and rail spur
- Coal unloading facilities
- Solid waste disposal facilities



Big Stone Site

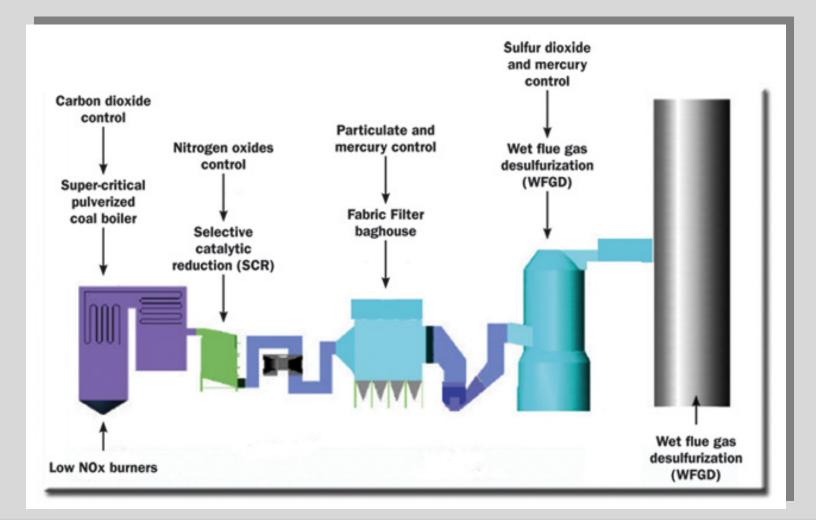


Big Stone Site – Water Appropriations and Storage

10,902 Ac*ft - design annual usage

- Holding pond capacity: 965 Ac*ft
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- Cooling pond useable storage capacity: 3,000 Ac*ft (5440 ac*ft total)
- Total site useable storage capacity current design: <u>15,300</u> Ac*ft

Emissions Control Technology



Wet Scrubber

- Historically, dry scrubbers used to remove sulfur dioxide when burning subbituminous coal
- Wet scrubbers are more expensive
- However, wet scrubbers offer
 - More efficient SO2 removal
 - More efficient mercury control
 - Saleable fly ash

Joint Scrubber Possible Because of Wet Scrubber Technology

- Double the size of the scrubber but only 60% increase in cost
- Able to share some equipment and the benefits of redundancy of other components
- Lower per megawatt hour cost for common scrubber

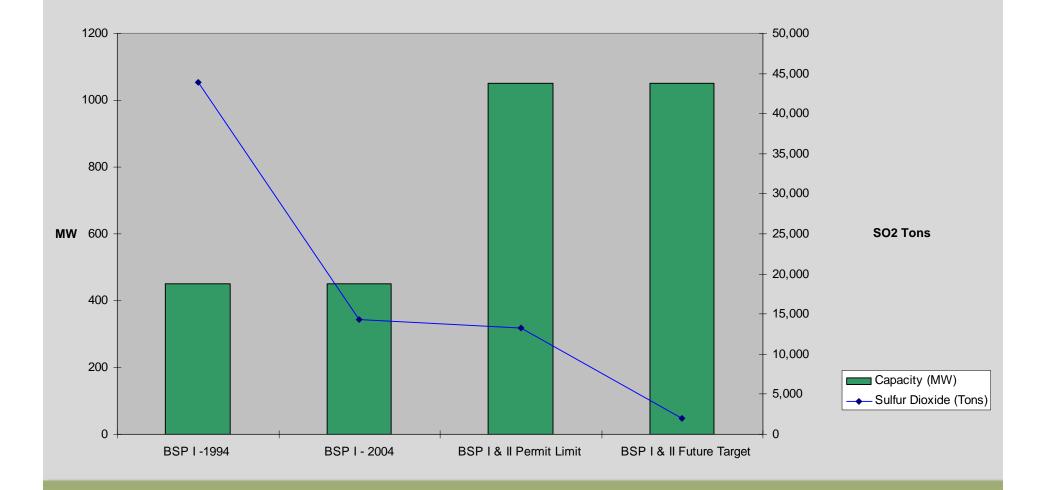
Nitrogen Oxides Control

- Commitment to add Big Stone II and not increase nitrogen oxides emissions from the Big Stone Plant site
- Make Big Stone Plant unit I operational changes to its lower nitrogen oxides emissions
- May also require equipment changes

Emissions Control Summary

 Sulfur dioxide, nitrogen oxides, and mercury emissions from both units are targeted to be less than or equal to Unit I's emissions in 2004.

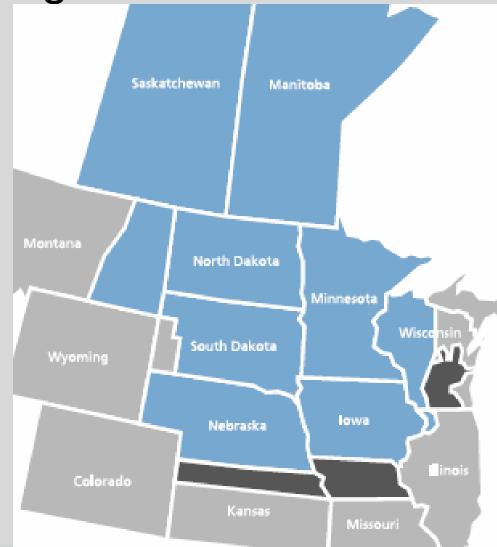
Sulfur Dioxide Emissions



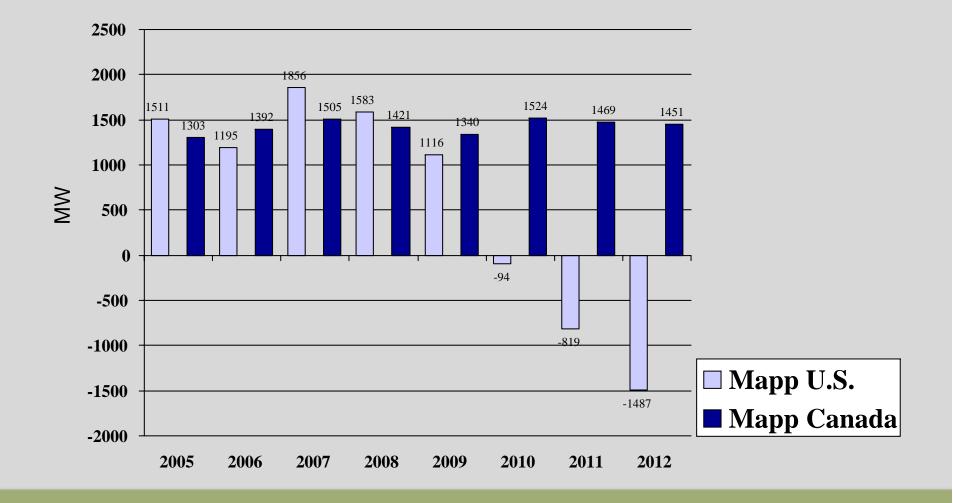




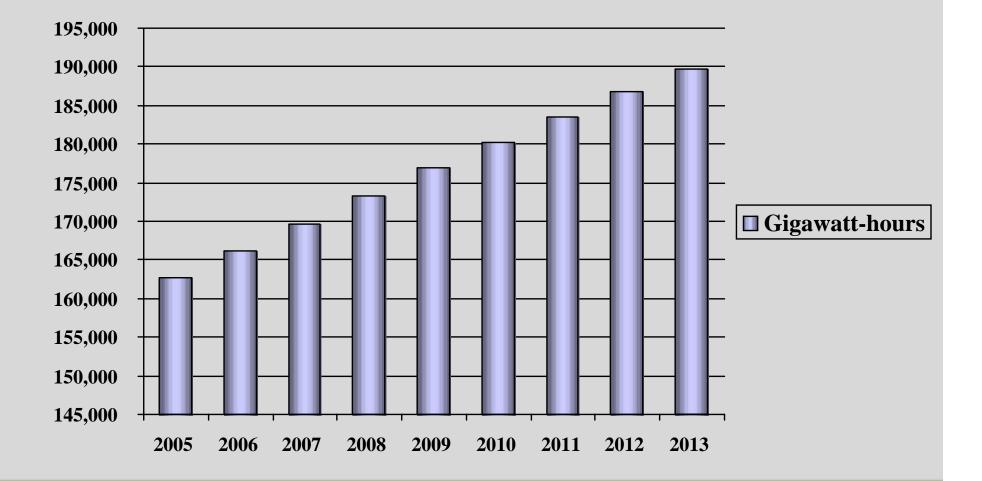
MAPP Region



MAPP Surplus/Deficit Forecast



MAPP U.S. Annual Net Energy Forecast



Baseload, Intermediate and Peaking Facility Relative Cost

Type of Generation	Capital Cost	Fuel Cost	Typical Energy Production
Peaking	Low	High	Low
Intermediate	Medium	Medium	Medium
Baseload	High	Low	High

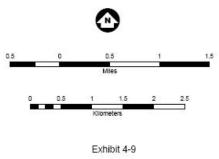
Environmental Information







Field observations made by Barr Engineering Company. South Dakota Natural Heritage Database query completed on September 24, 2004 by the SD Department of Game, Fish and Parks.



WILDLIFE Big Stone II Project Big Stone II Co-owners

Big Stone II Wildlife

Environmental Impacts

- Physical Environment
- Hydrology
- Terrestrial Ecosystems
- Aquatic Ecosystems
- Land Use
- Water Quality
- Air Quality
- Solid and Radioactive Waste

Environmental Impacts Physical Environment

- Land forms and topography
- Geology
- Soils and Economic Deposits
- Erosion and Sedimentation

Impacts primarily limited to new storage pond area-most other activity within existing plant site



Environmental Impacts Hydrology

- Surface Water Drainage
- Water Use and Sources
 Impacts to drainage primarily limited to new storage pond area
 Increased water needs can be met within existing operational constraints on Big Stone Lake withdrawal

Environmental Impacts Terrestrial Ecosystems

- Vegetation Communities
- Wildlife
- Threatened and Endangered Species

No adverse impacts are expected



Environmental Impacts Aquatic Ecosystems

- Fisheries
- Wetlands

No adverse impacts to fisheries are expected

Wetland impacts addressed through USACOE permitting process



Environmental Impacts Land Use and Land Use Controls

- Existing Land Use
- Noise

New unit takes advantage of existing industrial land use and infrastructure Incremental noise impact modeled as insignificant



Environmental Impacts Water Quality

- Whetstone River System
- New Makeup Storage Pond
- Stormwater Management

No impacts expected to Whetstone River New pond water quality expected to be similar to area shallow lakes

Stormwater will be managed through SWPPP



Environmental Impacts Air Quality

- Common scrubber no increase in sulfur dioxide emissions
- No increase in nitrogen oxide emissions
- Best available control technology for particulate matter emissions
- Targeted mercury emissions at 2004 levels



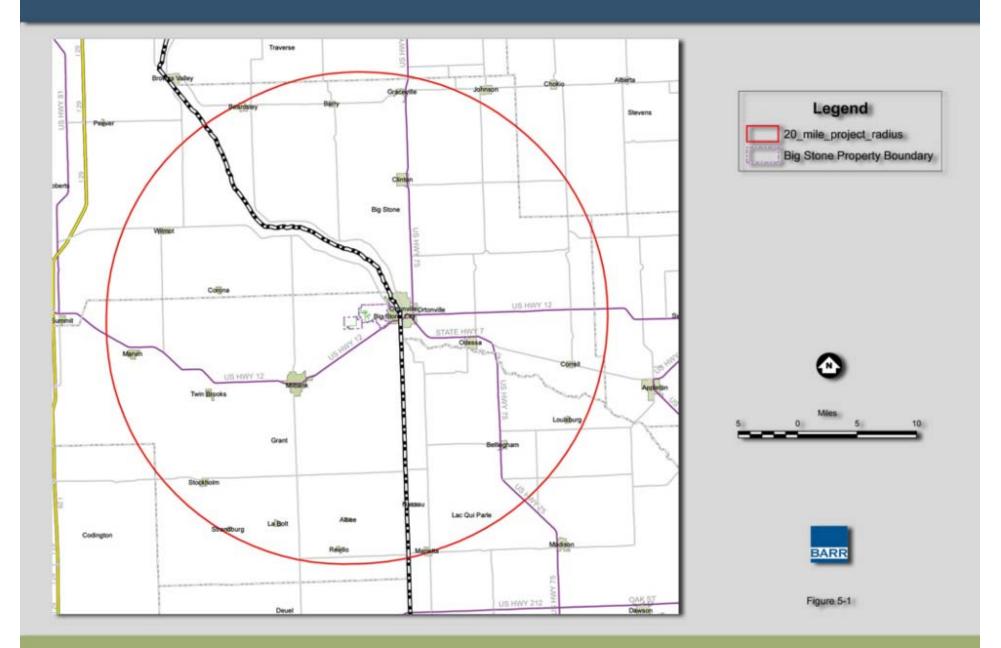
Environmental Impacts Solid Waste

Propose to use existing permitted solid waste disposal facility



Community Impacts

- Economic Impacts
- Infrastructure Impacts
- Community Services
- Population and Demographics
- Cultural Resources



Community Impacts Study Area

Community Impacts Economic Impacts

- Employment (temporary and permanent)
- Agriculture
- Commercial and Industrial Sectors
- Land Values
- Taxes

Impacts expected to be positive or neutral

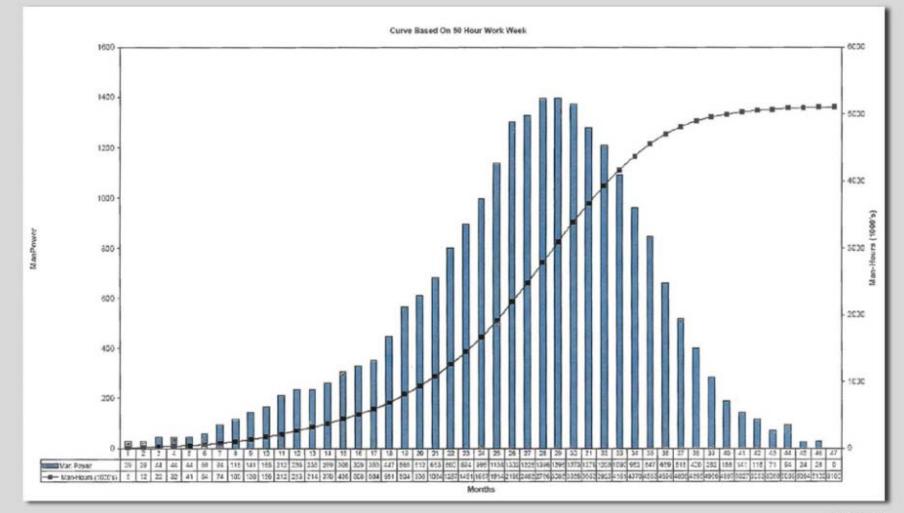


Exhibit 5-2

Estimated Construction Labor Requirement

Community Impacts Infrastructure Impacts

- Housing
- Energy
- Sewer and Water
- Solid Waste Management
- Transportation

Existing infrastructure generally adequate to meet project needs

Community Impacts Community Services

- Health Services and Facilities
- Schools
- Recreation
- Public Safety

Existing services not expected to be overtaxed by project



Community Impacts Other Impacts

- Population and Demographics
- Cultural Resources

No adverse impacts expected



Project Schedule



Big Stone II Project Schedule

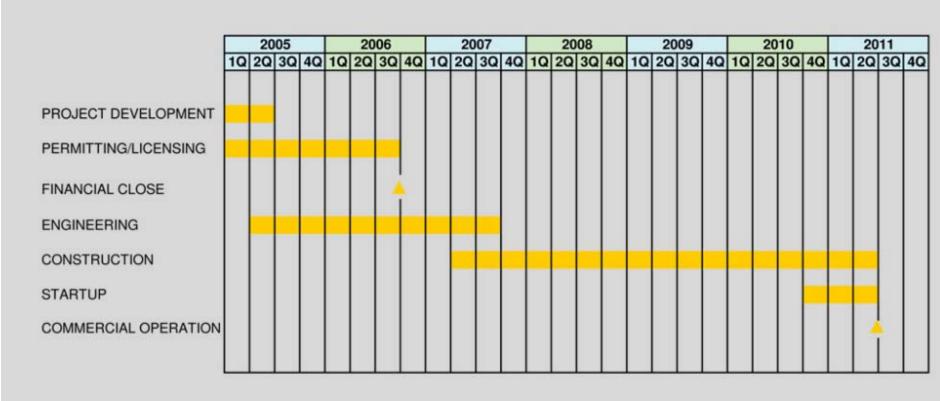


Exhibit 1-4



South Dakota Public Utilities Commission

Big Stone II Energy Conversion Facility Siting Permit Public Hearing September 13, 2005

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-13-05



Big Stone II Co-owners













GREAT RIVER E N E R G Y

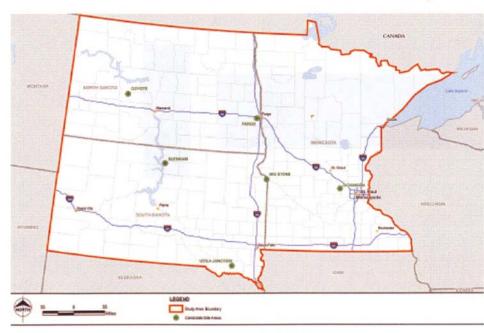
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Big Stone II Alternative Site Evaluation Study



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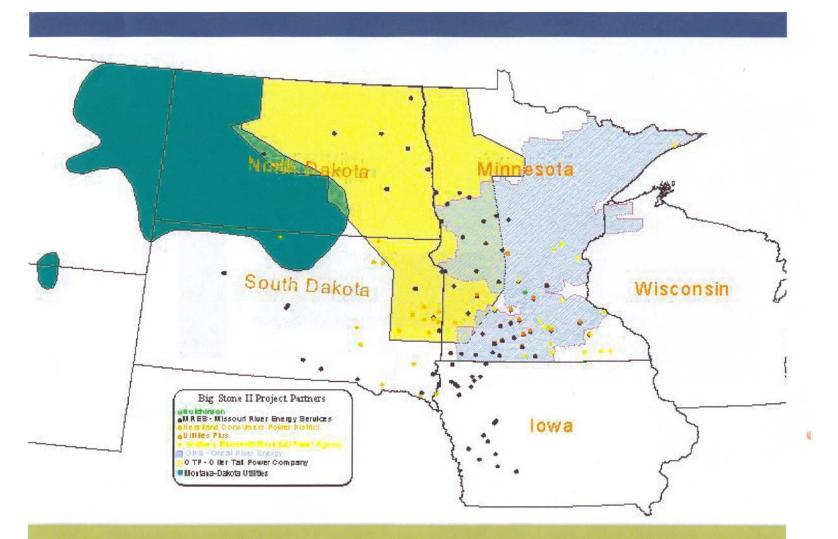
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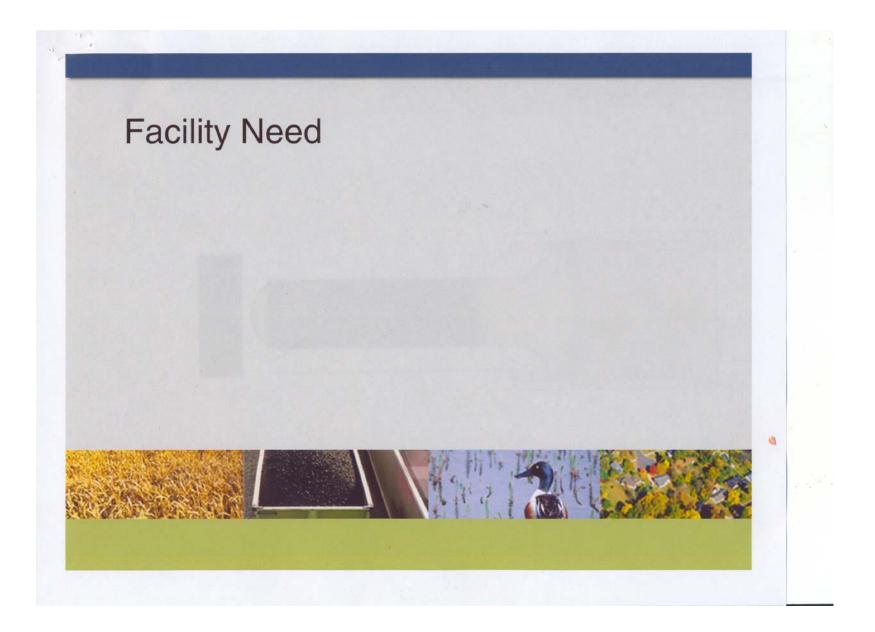
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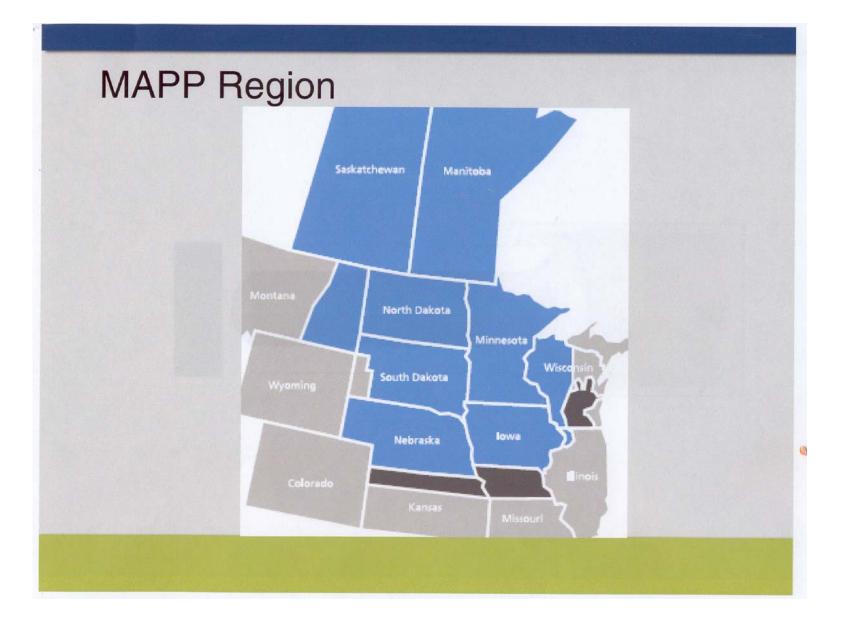
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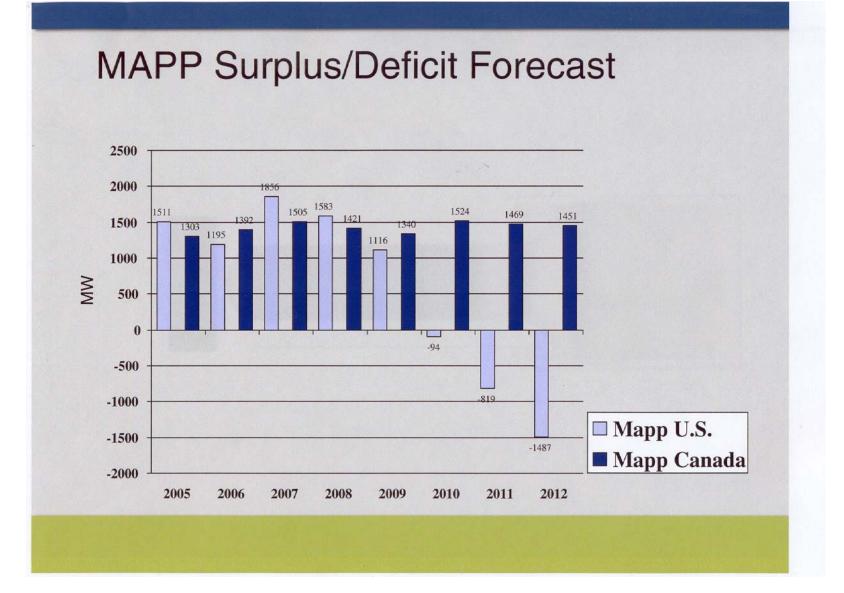


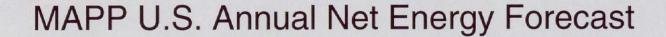


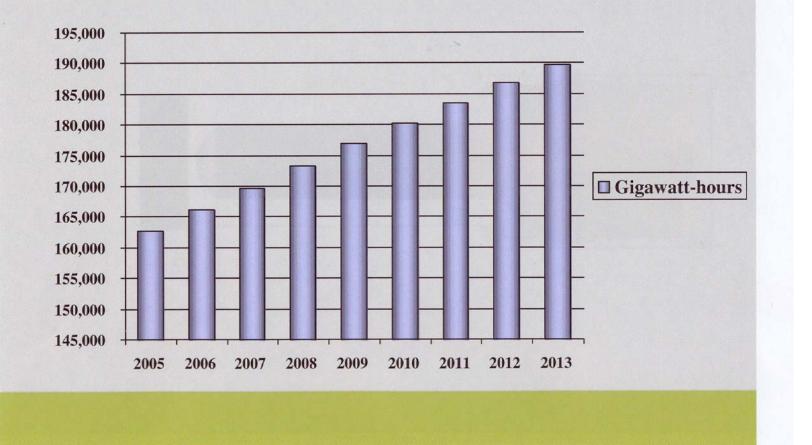
Co-owners' Service Territories





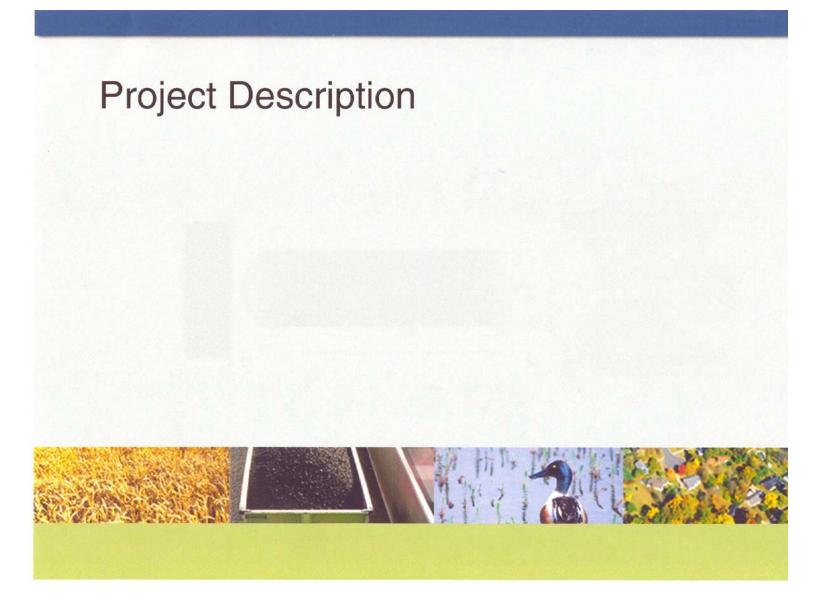






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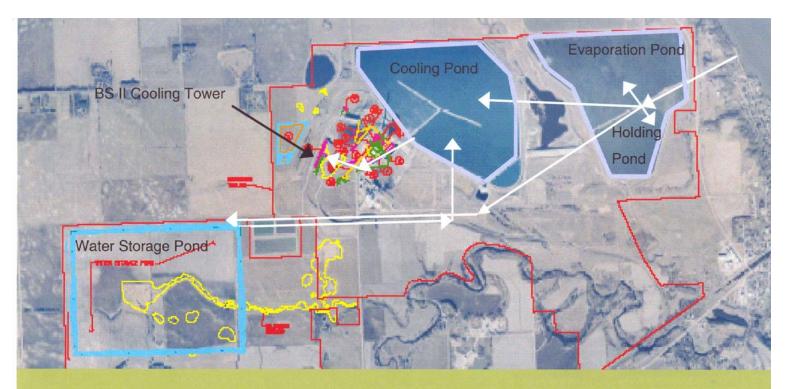


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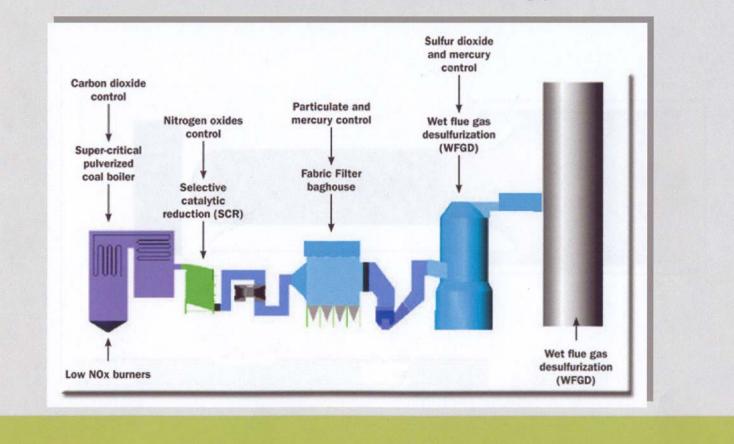


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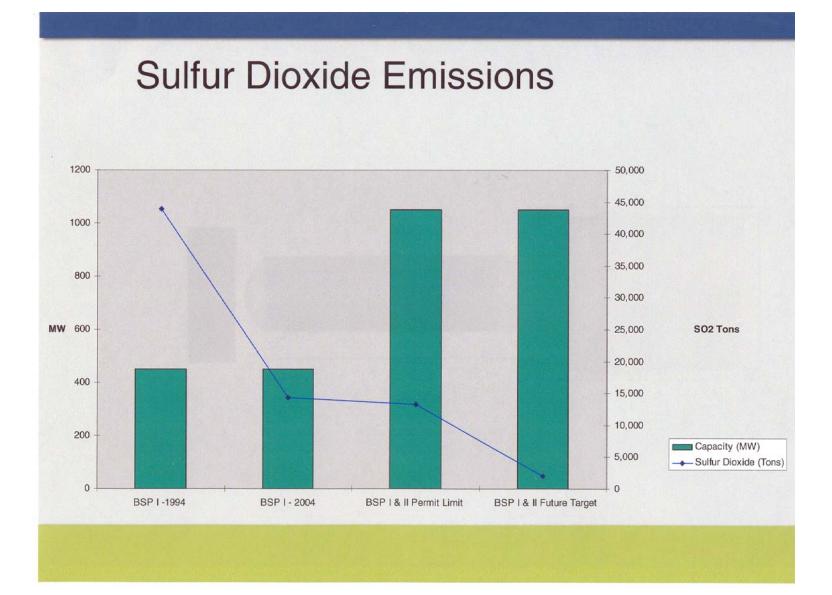
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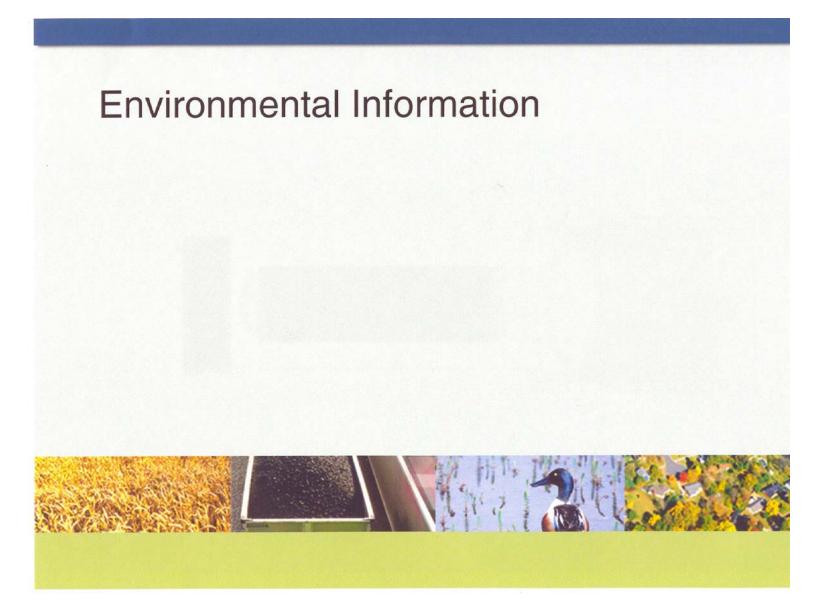
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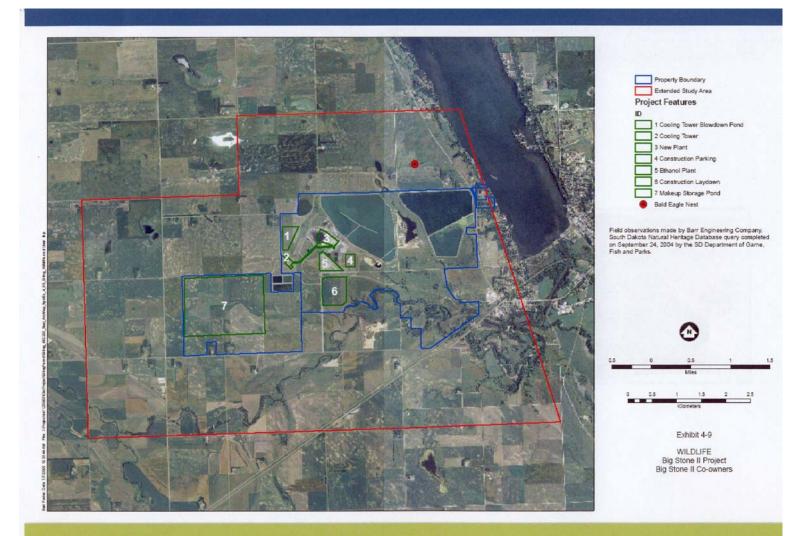
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Big Stone II Wildlife

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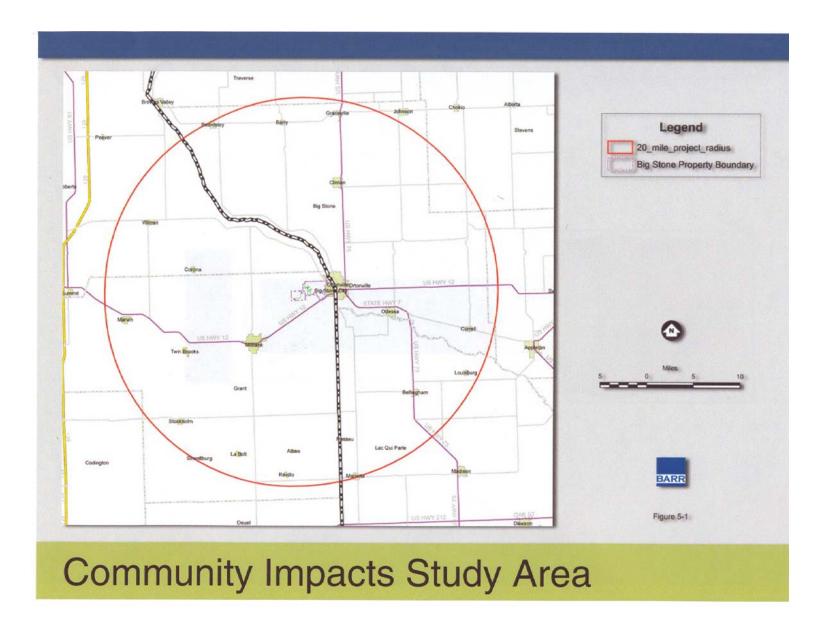


Environmental Impacts Solid Waste

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Community Impacts

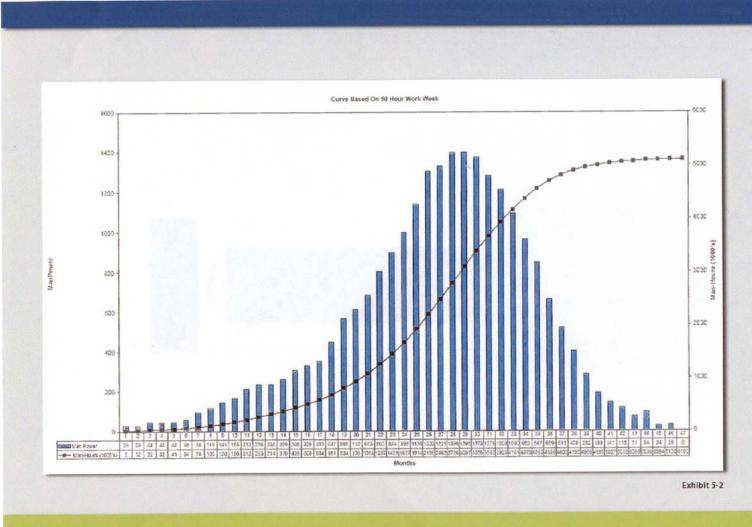
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- Taxes

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Estimated Construction Labor Requirement

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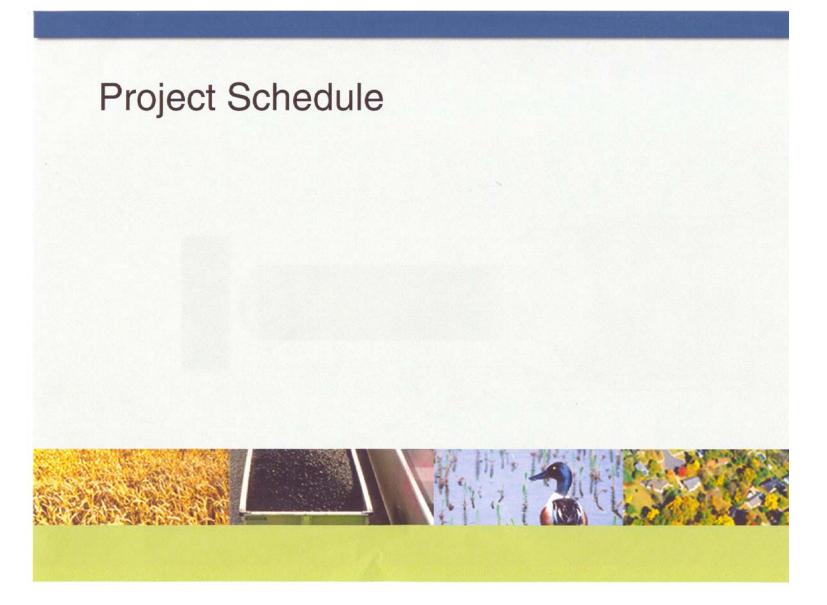
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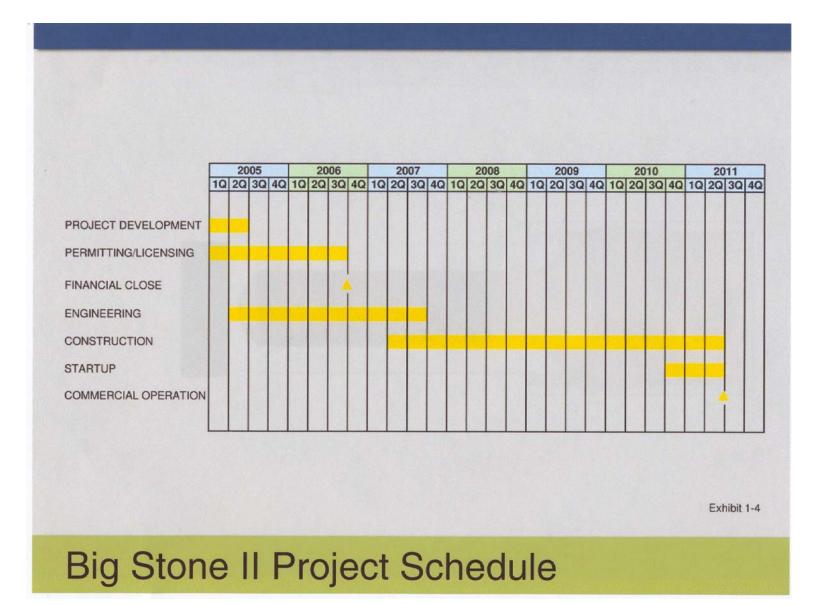
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Community Impacts Other Impacts

- Population and Demographics
- Cultural Resources

No adverse impacts expected





BIG STONE II

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My name is Adam Sokolski, and I am an Energy Associate with the Midwest Office of the Izaak Walton League of America. The Izaak Walton League – together with our colleagues from Minnesotans for an Energy-Efficient Economy and the Union of Sauth Parts – Concerned Scientists – intends to intervene in the Public Utilities Commission proceeding regarding the proposed Big Stone II power plant.

We have concerns about the proposed Big Stone II power plant – not the least of which is that it would be a substantial increase in carbon dioxide emissions. This is an environmental issue AND a financial issue. The world's emerging response to global warming will inevitably transform the <u>regulatory</u> climate in the years ahead. These new laws will in turn change the economics and the technology of electricity production and use, making high-carbon energy sources relatively more expensive, while low-carbon energy sources become better and cheaper through technological advances, economies of scale, and government incentives.

The Big Stone II partners have proposed a high-risk, high-cost power plant when you consider the ratepayer costs that are likely under carbon-capped regulatory scenarios. Just this Summer, the United States Senate passed a resolution supporting "a comprehensive and effective national program of mandatory, market-based limits and incentives on emissions of greenhouse gases." The regulatory path ahead puts a hefty price tag on proposals such as Big Stone II.

EXHIBIT - 187-005 сол In fact, Otter Tail Power's largest industrial customer in Minnesota, Enbridge Corporation, is seeking to insulate itself from the high costs and risks of future fossil fuel investments such as Big Stone II, by seeking from Otter Tail a long term contract that is keyed into the costs of a new *wind power* development in the "other Dakota".

Izaak Walton League, Minnesotans for an Energy Efficient Economy and the Union of Concerned Scientists appreciate the opportunity to participate in the South Dakota Public Utilities Commission proceeding.

2.

CLEAN WATER ACTION ALLIANCE of Minnesota

A statewide alliance of more than 50,000 households and 30 organizations working on a wide array of issues affecting Minnesota communities. CWAA has a long history of supporting citizen efforts to protect water resources, of promoting sound solid waste management, of pushing for agriculture policies that strengthen rural communities, of working for a transition to clean renewable energy, and of promoting social values, policies and behaviors that result in economic and environmental justice.



PREVENTING WATER POLLUTION

Clean Water Action Alliance is working, both nationally and locally, through lobbying, outreach efforts and organizing, to defend the public's drinking water from contamination at the source, to

clean-up currently polluted waters, and to ensure that the Clean Water Act continues to be enforced so that all of our waters are protected.



RENEWABLE ENERGY

Clean Water Action Alliance is working with its allies, organizing citizens across the state to move forward on the transition to clean, renewable energy. Through the Mercury-Free Minnesota Campaign, CWAA is also working to increase public demand

for the reduction of mercury releases from coal-fired power plants.



RURAL COMMUNITIES & THE ENVIRONMENT

Clean Water Action Alliance is working with farmers and rural residents to organize support for agricultural production systems and practices that ecologically and economically sustain family

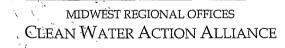
farmers, rural communities and the environment.. CWAA's advocacy and outreach is pushing for changes that will protect against adverse water, air, and human health impacts from large-scale, industrial livestock production and will connect consumers with locally and sustainably grown food to directly support our family farmers and strengthen rural communities.



PROTECTING CHILDREN'S HEALTH

Clean Water Action Alliance and its allies are working to protect children's health by reducing the presence of toxins, such as mercury, in the environment. CWAA is advocating the use of a precautionary

approach in tackling this problem - preventing harm before it happens.



Fargo/Moorhead 118 N Broadway #316 Fargo, ND 58102 (701) 235-5431

Twin Cities 308 E Hennepin Ave 394 Lake Ave S #312A Minneapolis, MN 55414 (612) 623-3666

Sioux Falls 231 S Phillips Ave #250 4455 Connecticut Ave NW Sioux Falls, SD 57104 (605) 978-9196

National Office Washington, DC 20008 (202) 895-0420

www.cleanwateraction.org



Duluth

Duluth, MN 55802

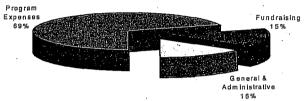
(218) 722-8557

CLEAN WATER ACTION ALLIANCE of Minnesota

Clean Water Action Alliance has a track record of success building coalitions and involving citizens directly in winning environmental victories in Minnesota. With assistance from CWAA, many local organizations have grown stronger, started important environment: programs, and stopped destructive projects in their communities. Through public outreach, education, organizing, technical assistance and public interest lobbying, CWAA - working in concert with Alliance members and allies - has improved protections for Minnesota's environment. Included among these successes are:

- Strengthening consumer protection in the federal Safe Drinking Water Art:
- Adopting better programs and policies at the federal, state and local levels to protect rural communities from the air and water pollution from factory livestock operations;
- Winning key renewable energy developments that make Minnesota a leader in national wind energy production;
- Requiring tougher penalties for polluters;
- Passing state law to reduce mercury emissions.

Clean Water Action Alliance receives most of its support from individuals who care. The pie chart below shows how contributions received in 2003 were spent:



MEMBERSHIP

Thank you for becoming a member of Clean Water Action. Contributions to Clean Water Action are not tax deductible, so that we can advocate effectively for or against legislation.* Clean Water Action's memberships are for a term of one year. We encourage you to give what you can!

Affirming Members: Contribute less than \$5 per year Supporting Members: \$5 per year

- Subscribing Members: \$25 per year (Subscribing members will receive the national publication, Clean Water Action News)
- Sustaining Members: \$60 or more per year (Sustaining members will receive Clean Water Action News and state/regional updates)

When you join Clean Water Action at any of the above levels, all your family members residing in the same household are also included as members.

All members are entitled to vote on the organization's national program priorities and on the selection of the Board of Directors. If you would like t have input into the national program priorities or vote for the Board of Directors, please provide your e-mail address on our support statement, cal 1-800-70-WATER or visit our website, www.cleanwateraction.org. For information about how to participate in elections for state leadership of Clean Water Action Alliance of Minnesota, you can call the Twin Cities office at (612) 623-3666.

PLEASE KEEP THIS AS A RECEIPT OF YOUR MEMBERSHIP!

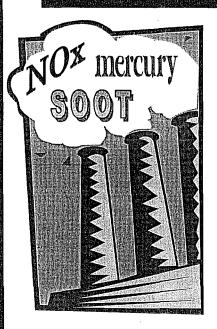
DATE:

STAFF:

CONTRIBUTION AMOUNT:

* Contributions to Clean Water Action are not tax deductible. Clean Water Action is : non-profit organization under section 501(c)(4) of the Internal Revenue Code.

Replace Coal Power with Clean Wind Energy



Problem

Otter Tail Power Company, in conjunction with several other power companies, is proposing a major new source of air and water pollution for South Dakota and Minnesota. Otter Tail plans to more than double the output of the existing coalburning power plant at Big Stone by building a new plant on the same site – Big Stone II. Coal pollution is a threat to our health and environment. Investing in a new coal-burning power plant wastes money and takes South Dakota away from safe, clean renewable energy from wind.

Toxic Coal Pollution

Coal-burning power plants are a significant source of air pollution. Coal-burning power plants emitted 3,762 thousand tons of carbon dioxide, 16 thousand tons of nitrogen oxides and 13 thousand tons of sulfur oxides in South Dakota in 2002.¹ Coal plants also emit significant amounts of lead and mercury. These pollutants are linked to serious health problems that lead to thousands of unnecessary deaths each year – more than from drunk driving or homicide.² Additionally, these health impacts often leave vulnerable populations -- like children and the elderly-- hardest hit.

Nitrogen oxides (NOx) combine in the presence of sunlight with other organic compounds to form ground-level ozone, or smog. Smog is a powerful lung irritant that can exacerbate asthma and other respiratory problems.³

Sulfur dioxide (SO2) is the primary component of particulate matter (PM), commonly known as soot. Some of these particles are so small they can travel deep into the lungs where they have adverse impacts on respiratory health. PM is especially dangerous for those with lung diseases (such as asthma and emphysema), for the elderly and for children. PM also contributes to haze, obscuring the visibility of our skylines and cherished recreation areas.⁴

Mercury is a heavy metal and a potent neurotoxin that is emitted from power plants when coal is burned. Mercury is released into the air and settles downwind of power plants where it contaminates lakes, rivers and the fish we eat. Exposure to mercury pollution may be especially harmful to women of child-bearing age, fetuses and children because it interferes with the development of the nervous system and can lead to delayed mental



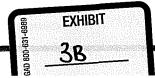
Coal pollution can cause or aggravate lung problems like asthma.

development, learning disabilities, and deficiencies in language, motor function, attention and memory.⁵

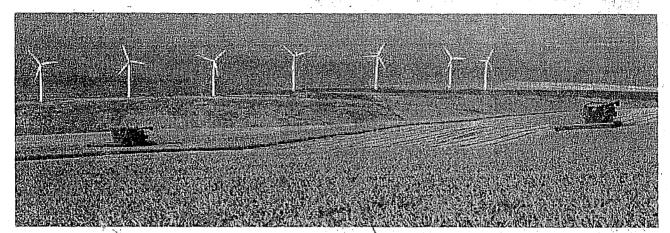
The Solution to Coal Pollution: Clean Wind Power

Wind power can reduce pollution generated by fossil fuels such as coal, oil, and gas. Wind power generates electricity with no air emissions; no fuel to mine, transport, or store; no cooling water; no water pollution; and no wastes. Using responsible siting practices, wind projects now have minimal impacts on wildlife and natural resources.

The Midwest is blessed with such an abundance of windy terrain, especially in the Great Plains states of North and South Dakota, Iowa, Minnesota and Nebraska – so much so that it is sometimes referred to as the "Saudi Arabia of wind energy." South Dakota ranks fourth in the U.S. in renewable energy potential, with a potential power output of 117,200 MW.⁶ That is the equivalent of 195 coal plants the size of the proposed Big Stone II.



South Dakota has just begun to tap its outstanding wind resources. As of January 2004, South Dakota had only 44.48 MW of installed and projected wind energy capacity, and no new wind projects planned.⁷ South Dakota should harness its abundant wind resources, rather than investing money in a new coal-burning power plant.



South Dakota has incredible potential to generate renewable wind energy – improving our economy and environment.

Benefits of switching from coal to wind include:

- reduced air and water pollution and toxic wastes,
- health benefits from less air pollution 54 fewer deaths, 1290 fewer asthma attacks and over 7000 fewer lost work days due to various illnesses caused by coal pollution, 8
- improved electricity reliability, thanks to a diversified power portfolio,
- economic development and job growth through wind power "cash crops" for landowners and clean energy
 exports, increased business for wind turbine manufacturers and new skilled jobs in installation and
 maintenance of wind turbines.

Clean Water Action's Position

The Big Stone area is not the right place for a new coal plant. Although Big Stone II would be across the border in South Dakota, air pollution knows no boundaries. Airborne toxins would affect Big Stone Lake and Minnesota's Big Stone State Park. Known for fishing, recreation, and camping Big Stone Lake is already under fish consumption advisories for mercury.

Before South Dakota builds another polluting coal plant, the public health and economic development benefits of renewable energy options must be considered. Since coal plants can operate for at least 40 years, every time a new one is built we commit to dirty energy for generations to come. For the future health and economic well-being of the region, we should use clean, innovative renewable energy options, not polluting coal technology developed long ago.

- * Energy Information Association, "State Electricity Profiles 2002," www.cia.doe.gov/cneaf/electricity/st_profiles/south_dakota.pdf
- ² Abt Associates, "Death, Disease and Dirty Power: Mortality and Health Damage Due to Air Pollution from Power Plants," Bethesda, MD, 2000.
- ³ US EPA, "National Air Quality and Emissions Trends Report, 1999." Office of Air Quality Planning and Standards, EPA 454/R-01-004, 2001.
- 4 Abt Associates, 2000.
- ⁴ Minnesota Department of Commerce, "2001 Energy Planning Report," Appendix A: Dealing With Environmental Impacts of Electric Generation, 2001.
- * Union of Concerned Scientists, "Plugging in Renewable Energy," 2003. www.ucsusn.org/documents/Plugging_in_Renewable_Energy.pdf
- 7 American Wind Energy: Association, "Wind Project Database- South Dakota," www.awea.org/projects/southdakota.html

For more information contact your local Clean Water Action office:

Midwest Regional Office 308 East Hennepin Ave. Minneapolis, MN 55414 (612) 623-3666 South Dakota Office 231 S. Phillips Ave. # 250 Sioux Falls, SD 57104 (605) 978-9196 Duluth Office 394 Lake Avenue S. #312A Duluth, MN 55802 (218) 722-8557 Fargo-Moorhead Office 118 North Broadway #314 Fargo, ND 58012 (701) 235-5431 La Crosse Office 505 King Street, Suite 157 La Crosse, WI 54601 (608) 782-2012

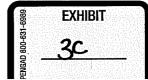
^{*} Abt Associates, "Power Plant Emissions: Particulate Matter-Related Health Damages and the Benefits of Alternative Emission Reduction Scenarios," June 2004.

Replace Coal Power with Clean Wind Energy

Concerned about the proposed new coal plant at Big Stone? Ready to make your voice heard?

Here are some ideas for comments (in person or in writing) on the proposed Big Stone II coal plant to the South Dakota Public Utilities Commission. Please see the Clean Water Action fact sheet for additional information.

- 1. Costs on ratepayers and residents associated with increased healthcare, environmental, or economic costs from the impacts of air pollution
- 2. Impact of air pollution on the health of surrounding communities: global warming gases, ozone precursors that contribute to regional haze, particulate matter that increases the risk of respiratory and cardiovascular illnesses
- 3. Impact of mercury contamination on the health of surrounding communities
- 4. Effectiveness rates of various mercury control technologies
- 5. Costs on ratepayers and citizens of future carbon regulations to reduce global warming gases
- 6. Alternatives to coal-burning power plant: economic development opportunities of wind; real cost of new coal plant versus wind project; cost of burning biomass versus coal
- 7. Environmental, health, and economic impact of the disposal of coal waste ash
- 8. Thorough analysis of plant's impact on water: impact on fish and aquatic ecosystems of Big Stone Lake and Minnesota River
- 9. Economic impact on Big Stone Lake area: ability of the area to continue to attract sportspeople, hunters, birders, outdoor enthusiasts
- 10. Environmental and health impacts of coal dust from increased coal handling operations at plant
- 11. Impacts on state and federal endangered plants and animals from deposition of nitrogen, sulfur dioxide, mercury
- 12. Impacts on state and national parks or other special natural resource areas
 - 13. Cumulative impacts from the old coal plant, the new one and any other pollution sources in the area.
 - 14. Radioactive emissions from burning coal, which contains trace amounts of radionuclidides.
 - 15. Transmission lines



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If you want to submit written comments to the South Dakota Public Utilities Commission, here is some information.

Mail your comments to:

Pamela Bonrud, Executive Director South Dakota Public Utilities Commission 500 East Capitol Pierre, SD 57501

Sample comments:

September 13, 2005

Pamela Bonrud, Executive Director South Dakota Public Utilities Commission 500 East Capitol Pierre, SD 57501

Re: In the Matter of the Application by Otter Tail Power Company on behalf of Big Stone II Co-Owners for an Energy Conversion Facility Permit for the Construction of the Big Stone II Project; Docket No. EL05-022

Dear Ms. Bonrud:

I'm very concerned that the proposed Big Stone II coal plant will be another major source of mercury pollution. I think the permit application process should look very carefully at the impact of mercury contamination on the health of surrounding communities. How serious is the mercury contamination in local lakes and rivers now? How much worse will it get? What will this do to local children or people who depend on fishing to live? What is the economic effect of damaging the fishing and recreation resources in the area? These questions must be answered!

Sincerely,

Your name Your address

For more information, contact Clean Water Action at 605-978-9196.