OF THE STATE OF SOUTH DAKOTA

SEP 2 i 2005

<u>SCUTH DAKOTA PUBLIC</u> 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

EL05-022

Transcript of Proceedings September 13, 2005

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

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

PRECISION REPORTING L I M I T E D

	1	THE PUBLIC UTILITIE	ES COMMISSION			3
	2	OF THE STATE OF	SOUTH 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,
$\neg \downarrow$	5	OTTER TAIL POWER COMPANY ON I	N ENERGY ELOS	5-022	4	Commissioners as well. We're going to ask you
(6	CONVERSION FACILITY PERMIT FO CONSTRUCTION OF THE BIG STON		ļ	5	we're having a little challenge with the microphone
	7				6	here. I was going to ask you to use it, but that
	8		13, 2005		7	won't help us at all.
l	9				8	Please use your outside voice when you are
	10	BEFORE THE PUBLIC UTILITIES	COMMISSION,		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, COMMISSI	ONER		11	official hearing. So she needs to be able to
	13	COMMISSION STAFF			12	transcribe everything. In order to do that, she
	14	John Smith Karen Cremer			13	needs to be able to hear you. We do encourage you
	15	Greg Rislov Michele Farris			14	to address the Commission. We want you to have an
Ì	16	Steve Wegman 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 CHRI			17	organization and you're representing that
	19	HOYCE, GREENFIELD, Attorneys at Law,	P.O. Box 5015,		18	organization, please identify that organization.
	20	Sioux Falls, South appearing on behal	Dakota 57117, f of Big Stone II;		19	Otherwise, when we're reading transcripts we won't
	21	BRUCE GERHARDSON,			20	know who was speaking.
	22		Counsel, P.O. Box 496,		21	There is a sign-up sheet in the back. The
	23		nesota 56538-0496, f of Big Stone II.		22	purpose of that is so that we can send information
	24	Reported By Cheri McCom	sey Wittler, RPR, CRR		23	to you if it's appropriate. So we would like you
	25			ľ	24	to sign the sign-up sheet. Put your name and
					25	address on that. That will be greatly appreciated.
e '''	1	TRANSCRIPT OF PROCES	EDINGS held in the	2		4
·	2	above-entitled matter, at the	•		1	I was going to use the microphone and sit over
	3	Milbank, South Dakota, on th		er .	2	there to read this. I'll read it from this spot so
	4	2005, commencing at 7 o'clos			3	you can hear a little bit easier.
	5			===	4	This is a public hearing for a proposed energy
	6	I N	DEX		5	conversion facility. The meeting will come to
	7	Exhibit Nos.	<u>ж</u> о	R	6	order for the public input hearing in Docket
	8	1A - Big Stone II CD	54 54	54	7	No. EL05-022, entitled in the Matter of the
	9	1B - Big Stone II paper			8	Application by Otter Tail Power Company on Behalf
	10	presentation	54 54	54	9	of Big Stone II Co-owners for an Energy Conversion
	11	2 - Sokolski comments	80 80	80	10	Facility Permit for the Construction of the Big
	12	3A - Stueve comments	104 104	104	11	Stone II Project.
	13	3B - Stueve comments	104 104	104	12	The date is September 13, 2005. The time is
	14	3C - Stueve comments	104 104	104	13	7 p.m. The place of this hearing is Milbank,
	15				14	South Dakota. This hearing concerns an application
	16				15	for a permit for an energy conversion facility
	17				16	submitted by Otter Tail Power Company to the
	18				17	Public Utilities Commission on July 22, 2005. For
	19				18	those of you who are not familiar with the
	20				19	technology, an energy conversion facility simply
	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
1,	24				23	facility and associated facilities which the
	25				24	project owners have named Big Stone II.
					25	If approved, the proposed new generating
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information to the public about Otter Tail's proposed project and to hear public comments regarding the proposed project. Interested persons have the right to present their views and comments regarding the application. And we encourage you to please do so.

A copy of the application is on file with the Grant County Auditor. The public may also access the application and all other nonconfidential

documents in the file on the Commission's website at www.puc.sd.gov under Commission Actions. Commission Dockets, 2005 Electric Dockets, and scroll down to EL05-022.

The parties to this proceeding at this time are Otter Tail and the Commission. Under South Dakota Law each municipality, county, and governmental agency in the area where the facility is proposed to be constructed, any nonprofit organization formed in whole or in part to promote conservation or natural beauty, to protect the environment, personal health or other biological values, to preserve historical sites, to promote consumer interests, to represent commercial and industrial groups, or to promote the orderly development of the area in which the facility is to be constructed, or any interested person may be granted party status in this proceeding by making a written application to the Commission on or before September 19, 2005.

We have applications available here this evening if you'd like to apply for party status. As of this time the only person or organization that has applied for intervener party status is Clean Water Action. Thank you very much for

allowing me to get through the formality that is required at the beginning of the hearing.

Mr. Welk, I understand you're the attorney representing Otter Tail Power Company. I'll allow you to certainly go first since it is your docketed item, and please introduce the members of your organization. Thank you,

MR. WELK: Thank you, Mr. Chairman. Commissioners, members of the public. My name is Tom Welk. I'm one of the attorneys for the project. With me, other attorneys are Chris Madsen from my law firm to the right and Bruce Gerhardson. who is the Associate General Counsel. You can tell us by our ties as the attorneys.

We have a number of witnesses tonight that we would like to utilize to present the project to the Commission and to the members of the public. We have it's approximately about -- if the timing is correct, about 50 to 60 minutes. It's a Power Point presentation. It will be divided through several witnesses.

Mark Rolfes, the project manager, is going to give us a background on the history of the project, the technologies we're considering, the site, why it was selected here. Then we're going to have

Stacie Hebert talk about the demand and why this facility is going to need to be there.

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Bill Swanson is going to talk about the facilities and what it's going to look like. Terry Graumann is going to talk about the emission control technologies. And John Lee, the consulting engineer, is going to go through the review of what the environmental community impacts have been and also what the community service is that might be affected.

We have these in various segments that we're going to have presented. We also have a couple of other engineers, Todd Sundbom from Burns & McDonnell, and Andrew Skogeland (phonetic). They're available here also for questions for members of the Commission or the staff or anyone, if there are some technical questions.

I don't know, Mr. Chairman, how you want to proceed, whether we want to hold the questions until the end, but that's just to kind of give you an overview of what we've got to present.

CHAIRMAN HANSON: Thank you, Mr. Welk. Generally what takes place is that we allow you to make your entire presentation, and then we can make comment afterwards. That way we

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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 11 MR. ROLFES: Commissioners, I'm 11 not suitable for a baseload resource. We need 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. 15 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 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 24 I think everyone's aware of what's happening to 25 existing Big Stone I facility has been in operation 25 natural gas prices today and the question on the 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 All of my comments are very high-level. The 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 details. 13 Seven utility companies have come together to 13 After we had determined the technology, we 14 propose the Big Stone II project. And as the 14 needed to have a site for this facility, and as we 15 Petition said, they're Otter Tail Power Company. 15 did in 1995 and subsequent studies, we started with 16 Heartland Consumers Power District, Montana-Dakota 16 an open book and any place that had the right 17 Utilities Company, Southern Minnesota Municipal 17 attributes, you know, of the water and the rail and 18 Power Agency, Missouri River Energy Services, Great 18 transmission and all of the things to make this 19 River Energy, and Central Minnesota Municipal Power 19 project successful were considered. And this study 20 Agency. 20 we looked particularly close at these sites, but 21 I'd like to point out that Otter Tail Power 21 after we considered all of the attributes needed 22 Company and MDU are investor-owned utilities. 22 for a good site for a baseload resource we came to 23 Heartland Southern Minnesota, Missouri River, and 23 the conclusion that the existing Big Stone I site 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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aren't asking questions that you will be covering.

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And I'll jump now to the baseload type of resource need. That typically -- baseload resource would have a high capital cost but a low operating cost. And because of those characteristics, what you see from a baseload generation resource is that it operates for the most part at or near its maximum point every day out of the year. It's there 24-seven, with the exception of maintenance periods and those kind of things. It provides not only capacity, but it also provides a significant

Now I've kind of skipped over this

it. At the base of that T is where the plant exists, and the plant is what you can see from Highway 12 from the area. So when you go to these different slides when you look and you try to identify a landmark the cooling pond can be seen in all of these slides so it helps orient you in all

The cooling pond has this T in the center of

of these slides.

So this is the cooling pond and the plant area. The plant exists right here. Big Stone City is in this location. Big Stone Lake on the east

amount of energy.

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One of the great things about this site is the opportunity to share in the existing infrastructure with the Big Stone I plant. The cooling water intake from Big Stone Lake, the pumping structure, the pipeline system, none of that has to change to satisfy the needs of Big Stone II. So we'll be reusing that facility.

Obviously the plant roads are in place to use to get access to the site as well as the rails will be the same rail spur to deliver coal to Big Stone II. The coal unloading facilities, we have a rotary dumper at the site so that is going to be remaining the same and handle the existing or new train loads of coal coming from Big Stone II. And then the solid waste disposal facility, we do have an ash disposal site on the property, and that will serve for both the ash disposal for Big Stone I and Big Stone II.

On the site work that we've done, again, this is the T in the middle of the pond structure that we call the evaporation pond and holding pond. What the Big Stone site is is a zero liquid discharge facility, which means we don't discharge water away from our site. It only leaves through evaporation.

We're very proud of that environmental record that we've been able to maintain, and we want to continue that with the Big Stone II site. So the water balance is something we've put a lot of effort into looking at that and see how we can pump water from Big Stone Lake when it's available and maintain the water balance with all the chemistries on the site.

So one of the things that we are going to be doing is we're going to be building a large water storage pond so we can pump water up from Big Stone Lake when it's available. We're going to have a water storage capacity of about 9,900 acre feet, and that will also be some of the makeup supplied to the cooling ponds. From the cooling pond that will make up the supply to the Big Stone II cooling tower.

COMMISSIONER JOHNSON: Could you say that last sentence again, sort of walk through.

MR. SWANSON: You bet. From the

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you saw from the other map. This is the existing power plant that can be seen from a ways away. The new plant will be just to the southwest of the existing plant. So the turbine and the boiler building will be immediately adjacent to it. The pollution control system, the baghouse and wet scrubber will be just to this side.

We'll have a cooling tower. That's one difference from the new plant to the old plant is rather than the cooling pond, we'll be using a cooling tower. The cooling tower will be located down in this area. And this is the cooling tower blow down pond, and this is also a water source for the wet scrubber that we're going to be talking about in some future slides. This is also the coal storage area, and that area is sufficient enough to handle both units.

Okay. Water is an important part of a project. It's just as important as the fuel part of it. And the Big Stone I and Big Stone II site usage is going to go to about 10,900 acre feet. It's about twice as much as we're using currently.

This is the diagram showing where the pumping station is at on Big Stone Lake. Water is going to be pumped now, and it's going to be stored in what

whole site this is the pumping station from Big Stone Lake. From there it will be pumping water from the evaporation pond or the holding pond or the new water storage pond -- this will be a new facility built from Big Stone II -- and from there back to the cooling pond. The cooling pond is used as cooling water for Big Stone I, and it's also the makeup water for the cooling tower for the Big Stone II.

COMMISSIONER JOHNSON: The makeup water, can you explain what makeup water is? MR. SWANSON: Sure. There's an evaporation process. Using the cooling towers there is always waters that need to be made up into that process. So that's where that source of water comes from.

VICE CHAIRMAN SAHR: What time of the year would you be doing most of the pumping on the lake?

MR. SWANSON: Most of the pumping has been historically in the spring when the runoff goes into the lake and goes up. The same thing, we would likely want to take advantage of that period when the water levels are the highest.

VICE CHAIRMAN SAHR: Is there any

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Additional nitrogen oxide control occurs in this green section, which is a box essentially. It's called a selective catalytic reduction system. And it's much like the catalytic converter in your car. The flue gas flows through the catalytic reduction system. This is a box, again, flow with the catalyst.

But there's one exception, and that is that ammonia needs to be added to this box in order for the reaction to occur with the catalyst that essentially converts the nitrogen oxide emissions to elemental nitrogen and water.

The flue gas then flows into this device that we call it an air free heater. And it's simply an efficiency devise. It's an air-to-air heat changer, and that device heats the combustion air as it's going into the boiler.

From the air free heater the flue gas flows through the fabric filter baghouse. And this is just again another big box that's filled with a series of bags, fabric bags. The flue gas flows through those bags, and the ash collects on the outside.

Periodically there's a pulse of air. That's why they call it, although it doesn't show on here,

a pulse jet baghouse. A pulse of air that gently inflates the bags, shedding the ash. And as the ash is shed, it falls to the hoppers below the fabric filter baghouse, and from those hoppers then the ash is conveyed pneumatically to fly ash storage satellite.

This is an induced draft fan, and that pulls the flue gas again through the fabric filter into the wet flue gas desulfurization system. We commonly call this similarly a scrubber.

And the purpose of this device is to remove sulfur dioxide from the flue gases. And the way that it does that is limestone slurry -- limestone simply mixed with water, finely crushed limestone, is circulating throughout this tower in a very turbulent fashion, which creates a good contact between the flue gas and the limestone.

And in doing so the flue gas is cooled and the sulfur dioxide then reacts with the limestone in the flue gas desulfurization system forming, first of all, a calcium sulfite, and as a part of this process air is also injected so ultimately the end product is a calcium sulfate or gypsum.

Mercury control actually occurs in two areas in this project. Primarily -- first of all,

The boiler also includes a provision for low NOx burners, and what those burners are is those burners are a special design to provide a combustion atmosphere that would minimize the amount of combustion nitrogen oxides that are

formed during the combustion process.

carbon dioxide when using this technology as

compared to other technologies.

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29 1 mercury control -- or mercury is collected in 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 Cemen 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 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 mixed with the fly ash and from there it flows to 19 The joint scrubber opens up some 20 the fabric filter which occurs after the spray 20 possibilities -- or we have a joint scrubber 21 drver. 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 23 all of the regulatory requirements, and it's still 23 scrubber. We're able to double the size of the 24 being permitted. Weston 4 out in Wisconsin is 24 scrubber but with only an increase in cost of 25 using the wet spray dryer. Council Bluffs is using 25 60 percent. We're able to share equipment, and 30 1 a spray dryer. other benefits of other redundant components, we're 2 We've decided to use a wet scrubber. It is 2 able to, for example -- the main spray tower --3 more expensive, about 18 percent more expensive, 3 there will only be one main spray tower instead of 4 but there are some advantages. The wet scrubber 4 two. 5 6 gives us more efficient SO2 removal. And that's 5 As a result of all of this we will have lower very important to the Big Stone II co-owners simply 6 per megawatt hour costs associated with the 7 because Big Stone II does not receive any SO2 7 scrubbers, primarily because of capital cost 8 allowances under the -- allowance allocation under 8 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. I 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

scrubber.

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are targeted to be less than or equal to Unit 1's

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	1 emissions in 2004.	We expect nitrogen oxide	1	35 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 h	nad, and we expect mercury	3	1995.
	4 emissions to be less	than or equal to those	4	CHAIRMAN HANSON: And do you have
	5 emissions as 2004 e		5	similar information for us regarding carbon
	6 Here's a graph s	showing our sulfur dioxide	6	dioxide?
	7 emissions. And let r	me point out a couple of items	7	MR. GRAUMANN: No, I don't. Not
	8 on this graph. On th	ne left side that shows the	8	with me.
1	9 capacity, the megaw	vatt generating capacity, of the	9	CHAIRMAN HANSON: Could you provide
- 1	10 Big Stone Plant site	for the various years. 1994,	10	us with that along with mercury and nitrogen?
i i	11 2004, for both Big S	Stone I and II and then another	11	MR. GRAUMANN: I can.
1	bar that shows Big S	Stone I and II and the capacity	12	CHAIRMAN HANSON: Appreciate that.
	is identified by the g		13	Thank you.
- 1	Going back to 19	994, the Big Stone Plant site	14	COMMISSIONER JOHNSON: 160 million
	had about 450 mega	awatts, which it is today. 2004,	15	at what stage in the process since '94, from '94
	16 about the same meg	gawatt capacity. Based on our	16	until the future target date or
- 1	17 proposal, in 2011 th	ne site capacity would go to	17	MR. GRAUMANN: The 160 million is
	18 about 1,050 megawa	atts, and we would hope that that		essentially for the scrubber and the fabric filter
1		d 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.
		also shows is SO2 ton	21	COMMISSIONER JOHNSON: So between
	22 emissions. And goin 23 dot, we had SO2 em	ng back to 1994, notice that	22	bar 2 and bar 4 would be the \$160 million
		issions at the Big Stone Plant	23	investment.
		tons per year. At that	24	MR. GRAUMANN: Yes. Correct.
<u> </u>	20 particular time we wi	ere burning North Dakota	25	VICE CHAIRMAN SAHR: With the sulfur
	4 11 11 0 1 11 11	. 34		36
1	Lignite. Since that t Low Sulfur Subbitum	ime we switched to Western	1	dioxide, mercury, and NOx that doesn't get
	/ I OW Stillfur Subhitum	ninous Coal. And in 2004 our SO2	1 2	
				scrubbed, where does that go? Where does it end
	3 emissions dropped fi	rom about 44,000 tons down to	3	up?
	3 emissions dropped fi 4 roughly 14,400 tons	rom about 44,000 tons down to	3 4	up? MR. GRAUMANN: Anything that
	 3 emissions dropped fi 4 roughly 14,400 tons 5 We expect based 	rom about 44,000 tons down to d on our proposed permit	3 4 5	up? MR. GRAUMANN: Anything that passed anything that passes through the emission
	 emissions dropped fit roughly 14,400 tons We expect based application that the 	rom about 44,000 tons down to d on our proposed permit site will have no more than	3 4	up? MR. GRAUMANN: Anything that passed anything that passes through the emission control equipment is exhausted from the stack, but
	emissions dropped fit for a roughly 14,400 tons we expect based application that the about 13,300 tons o	rom about 44,000 tons down to . d on our proposed permit site will have no more than once Big Stone II is permitted.	3 4 5 6 7	up? MR. GRAUMANN: Anything that passed anything that passes through the emission control equipment is exhausted from the stack, but the levels that we can emit those types of
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of the plant,

water levels in the lake. There's a narrow range that if the lake level drops below a certain range, we are restricted from taking the water out of the lake at that time. That's why historically most of the water's been obtained in the spring of the year, and that's why we're looking for more water storage capacity, so we can store the water needs

and still adhere to those water level restrictions

on when water can be obtained.

We expect to ask for an amendment to the water appropriations permit that would allow an increased appropriation of the lake of up to about 15,000 acre feet. The actual needs of the plant as Bill mentioned are closer to 10,900 acre feet, but to allow some flexibility in operation and look at perhaps long-term drought conditions, we would look for a little cushion in that appropriations request.

We looked at terrestrial ecosystems. We looked at vegetation. In general there do not appear to be special vegetation around the project site, again, because most of it's in the existing industrial area and the area around the plant where plant.

So, but it was very thorough, and we did that in conjunction with folks from the wildlife agencies.

One other threatened species that came up as a potential issue is the Bald Eagle. The Bald Eagle is a threatened species. There is -- again, as Bill mentioned, this is our kind of reference point, the T and the basin, the plant down here. This red dot represents location of an eagle's nest.

We identified that and observed it, but as you can see, it's quite a distance away from where the new plant work will be done. Again, most of the activity will be right in this area and then over to the southwest where the water storage basin will be. So we don't see any concerns about disturbing that potential nesting area.

COMMISSIONER JOHNSON: Does that look like a little over a mile?

MR. LEE: Yeah. I think this is from here to here it's a mile; right, Bill? MR. SWANSON: Yep.

MR. LEE: So it's about a mile to a mile and a half from where most activity will be.

the new water storage pond will be constructed is tilled agricultural land. So we don't see any significant impacts to vegetation in the vicinity

We looked at one specific threatened species. a plant, the Western Prairie Fringed Orchid. There was a potential that that could be present in this type of terrain. There was a detailed field reconnaissance of the plant site where we would be doing any intrusive activities, and that was completed this spring and none of those plants were observed

But we'll continue to look at that as work continues at the site. But it does not look like that will be an issue.

COMMISSIONER JOHNSON: You said in the vicinity. Sorry to interrupt. You said in the vicinity. What was your area of study?

MR. LEE: We looked at the areas where we would be disturbing ground. So primarily immediately around the plant site and where the new storage pond, water storage pond will be constructed, and then in areas near there where there were existing vegetation communities that might support that vegetation, that particular

We also looked at the aquatic ecosystems. Fisheries are not a big issue. The Whetstone River runs to the south of this site, but there will be no impacts to that. As was mentioned earlier, this is a zero liquid discharge facility so there will be no direct discharges to that river.

The existing intake will be used on the Big Stone Lake for water appropriation so you won't see any impacts there with construction.

With regards to wetlands -- actually maybe I can back up briefly here. In this area this is the new storage pond. There will be approximately 58 acres of wetlands that will be inundated. They're kind of generally in this low point right in through here. Those will be inundated with the construction of that basin.

The mitigation of those impacts will be addressed through the U.S. Army Corps of Engineers' permitting process. It is likely that we'll be mitigating that through enhancement or construction or additional wetlands in the vicinity that would probably add a ratio of one and a half to one. So if we're taking out about 60 acres, we would likely have to enhance 90 acres of wetlands to address. that.

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emissions control so I won't repeat that. I'll

will minimize air quality impact.

just say that, again, state-of-the-art technologies

And it's been mentioned a couple of times on

solid waste there will be additional ash generated.

Some of that will be marketed as concrete additive

if possible, and the remainder would be disposed of

There is expected ash generation rates. There's an

in the existing ash disposal facility on site.

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necessary for the work, for the project.

And then, of course, taxes. There will be

This is a graph of the construction labor

48 months, four years from over here to here. And

sales taxes, real estate taxes that will derive

from the project and go to local and state

requirements. And the time frame here is

it's difficult to read the numbers, but this is

government.

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 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 campgrounds that would allow for temporary housing 17 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. nor are sewer and water. Solid waste management 20 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 permanent employees I think our average loaded wage 11 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. 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. ¹22 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 PRECISION REPORTING, LTD.

1 discharge from the plant. this time from Commission members? 2 MR. ROLFES: I'll try and quickly 2 VICE CHAIRMAN SAHR: I 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 about the needs to bring in baseload plants? 6 7 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 And the expectation is that we would complete 9 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, 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: Ouestions. 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 slides that we saw tonight? 17 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.

		65	5	
	1	MR. GRAUMANN: We haven't been doing		We see in this region do limit in Otton Taille and
	2	that. We've started operating that system back in	2	we see in this region do limit in Otter Tail's case
١	3	2000. That was the first time that the system was	3	where we can actually go out and buy capacity in
	4	actively used for extended periods of time. We've	4	energy. There are transmission constraints that
1	5	been working with that system during that time.	5	will we've had times where we wanted to purchase
	6	In the meantime, we've installed some other	6	energy from Canada, and there's a constraint down
	7	emission controls equipment, and we're just trying	7	in Nebraska that makes that I'm talking a
	8	to figure out how to balance all of our plant	8	short-term transaction there but constraints in the
	9	operation and the testing of that over fire system	9	transmission system down in Nebraska can cause
1	10	will be ongoing between now and when we bring the	10	it our transmission request can be denied.
- 1	11	Unit 2 on line.	111	CHAIRMAN HANSON: So there are still
1	2	COMMISSIONER JOHNSON: I thought th	12	hurdles that you face in the transmission.
	3	group collectively did a good job talking about the	13	MS. HEBERT: Certainly. Certainly.
- 1	4	fact that emissions will be at today's levels	14	CHAIRMAN HANSON: Okay.
	5	are lower.	15	MS. HEBERT: We see those
	6	Have there been any studies, though, about	16	transmission constraints on a day-to-day basis. So
	7	the impacts, environmental, of emissions from	17	certainly as we're looking out for a long-term
	8	Big Stone !?	18	resource, transmission constraints are an issue.
	9	MR. GRAUMANN: We haven't had any	19	CHAIRMAN HANSON: Thank you. I'm
	20	direct environmental impacts on Big Stone I, at	20	not certain who would prefer to answer the question
	21	least not anything recent. We had an ambient air	21	regarding transmission, but I'm curious on the
	22	monitoring station that was set up around the site.	22	additional transmission system that you plan to
	23	In fact, we had operated it for a while, and I	23	construct, and I recognize a lot of it's not going
	24	believe the South Dakota Department of Environment	24	to be in South Dakota, although we would actually
	25	and Natural Resources operated it for a period of	25	prefer that it be in South Dakota, we'd like to see
F				some excess capacity for wind generation in this
	1	66		68
١,	2	time. But that equipment I don't believe has been	1	state.
	3	in operation for probably close to 20 to 25 years, something like that.	2	Could you fill us in a little bit perhaps,
	4		1 -	opered you mit as itt a little bit hetilah?
			3	Mark, on how much of the excess capacity that you
- 17		COMMISSIONER JOHNSON: Mr. Chairma	4	Mark, on how much of the excess capacity that you presently have that you're going to use to increase
- 1	5	COMMISSIONER JOHNSON: Mr. Chairma that's all I've got. Thank you.	4 5	Mark, on how much of the excess capacity that you presently have that you're going to use to increase in transmission capacity that you plan to construct
1	5 6	COMMISSIONER JOHNSON: Mr. Chairma that's all I've got. Thank you. CHAIRMAN HANSON: I have just a few	4 5 6	Mark, on how much of the excess capacity that you presently have that you're going to use to increase in transmission capacity that you plan to construct and if there is any potential for new excess
	5 6 7	COMMISSIONER JOHNSON: Mr. Chairma that's all I've got. Thank you. CHAIRMAN HANSON: I have just a few questions.	4 5 6 7	Mark, on how much of the excess capacity that you presently have that you're going to use to increase in transmission capacity that you plan to construct and if there is any potential for new excess capacity that may be married to renewable energies.
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111111111222222	5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7	COMMISSIONER JOHNSON: Mr. Chairma that's all I've got. Thank you. CHAIRMAN HANSON: I have just a few questions. Stacie, I'm curious, when you're looking at MAPP, and I would assume that you also looked at have dealings with MISO at the same time and that you are looking at some potential constraints that we're often told about in transmission systems. Can you tell us, are there hurdles there yet that you have to go through? MS. HEBERT: Now are you talking in terms of where we could look to find additional generating capability be that purchases, that type of thing? CHAIRMAN HANSON: Additional load and the ability to transmit the energy outside the region. MS. HEBERT: MISO, of course, has a little different function than MAPP. MISO is a transmission organization.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Mark, on how much of the excess capacity that you presently have that you're going to use to increase in transmission capacity that you plan to construct and if there is any potential for new excess capacity that may be married to renewable energies. MR. ROLFES: Okay. I'll try and tie a couple of things together. One, that whole process is moving forward to the MISO process, and we do have interconnection requests and delivery service requests in with MISO. We didn't address that in this presentation because it's CHAIRMAN HANSON: Understood. MR. ROLFES: With that said, just quickly, the existing Big Stone Plant has four transmission lines out of it. Two of them are 230,000 volts and one runs north and one runs south. They are not looked at to be changed at all. There are two 115 kV lines that run north and east and south and east. One goes to Morris. One goes to Granite Falls. We have looked at what it

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. 17 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 21 long and tenuous process that we have been at for 21 carbon-capped regulatory scenario. Just this 22 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 1 shas 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 I'm an energy associate for our Izaac Walton 19 And may I add this to the record? 20 League's Midwest Office in St. Paul, Minnesota. 1 20 CHAIRMAN HANSON: Yes. 21 work on energy issues throughout the region 21 (Exhibit 2 is marked for identification) 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

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I had a couple of questions about the presentation that I'd like to I guess get into the record. My comments aren't as neatly typed and organized as other folks, but there were just a few thoughts and concerns that I wanted to make sure were part of the record.

Sierra Club has submitted official comments in writing as part of the scoping process, but I wanted to just hit some of the highlights and concerns and we'll make sure copies of our written comments were also submitted to the PUC for your perusal.

First, in terms of the questions on the presentation, I was a little confused and math isn't my strong suit and never has been but I noticed that on the MAPP deficit diagram there was an awfully sharp move from, you know, the plus side to the negative side. And I didn't see why that was, why all the sudden in, you know, 2007 I believe it was that number just suddenly became a deficit. So I'd be curious to know more about

talking about potential increases in other criteria pollutants including mercury which is going to spread far beyond the immediate community of the plant and the holding pond.

And, you know, we think that there are some real concerns about the impact that that's going to have on the health of folks that live within the area of those pollutants are going to be part of the air that they're breathing. That's going to have an impact on their health, going to have an impact on our economy, not just in terms of the increased costs in hospital visits and asthma and other problems that folks are going to be facing that are going to contribute to increased hospital visits and other problems, but, you know, I grew up in South Dakota. We hunt and fish. We're outdoors. Those rivers, streams, lakes are incredibly important to us. We're already seeing problems in Minnesota that are creeping into South Dakota with mercury pollution in our lakes and streams that has an impact not just on what I get to do on the weekend but it has a huge impact on the tourism that has a fundamental base for small communities in rural South Dakota.

I'd encourage you to really consider that

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that.

I'm also very encouraged to hear that some of the emissions might be cut by as much as 50 percent of current levels, and I would hope that efforts would be made in Big Stone I or the existing Big Stone Plant to cut those emissions with or without Big Stone II. I think that if that technology exists, which is what you're telling us this evening, I would hope that you would consider

that option. And the other concern that I had or question that I had when you were going through the environmental impact specifically as well as the community impacts that this proposed plant would have is it seemed like you were really looking just at the footprint for the actual building of the plant, and I think it's important for the Commissioners, for the public, and for the folks at Otter Tail to consider the broader impact. Because that is where most of the concerns that folks have with the building of this plant lie.

You're talking about, you know, more trains. You're talking about the effect that's going to have as those trains travel through communities well outside of your 20-mile radius. You're

impact as well and the potential impact on tourism and our quality of life as well as the global warming impacts and all of the other things that I know folks are going to be talking about tonight.

I think just to keep it short because it's getting late, why are we committing, you know, another 40 years and another billion dollars to a technology that's already out of date? We need to be exploring other alternatives to coal and other alternatives to building new polluting coal fire power plants. We should be investing in alternative energy. We should be investing in energy efficiency, and we should be looking at other alternatives instead of trying to do the same thing over and over again.

Thank you for your time, thank you for your attention, and I'll make sure we get copies of our official comments for your record.

CHAIRMAN HANSON: Thank you, Diana (sic). And I think it's appropriate to have answers to those questions at this time. I believe the Commissioners didn't ask the question. It's a very good question about the reduction in generation. The Commissioners didn't ask that question because we knew the answer. Certainly

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Big Stone II to the standards that are applicable.

by building a scrubber that is twice as big and

taking the exhaust gases from Big Stone I to that.

So even though the output from the site will more

than double, SO2, which is the primary pollutant

removed by the scrubber, will probably be roughly

The other pollutants that people are normally

15 percent of what it is today. We're reducing it

concerned about, nitric oxide and mercury, we're

We are proposing to make this a better project

My name is DeWayne Keegel. I work for Missouri River Energy Services, otherwise known as -- our financing arm is Western Minnesota Municipal Power Agency, one of the owners of this On behalf of Public Power I was asked to deliver, you know, a brief statement of our member communities. We represent 59 municipalities within the State of Minnesota, South Dakota, Iowa, and North Dakota. Of that, 22 of our member communities are in the State of Minnesota, 12 in the State of South Dakota. We serve on their

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behalf. They are not-for-profit agencies, as we are, so we try and represent their interests. Their three primary concerns are, number one, that we produce energy for them in a very environmentally friendly manner. Two, that we do that at a very cost-effective rate and that we do

We're excited about the Big Stone opportunity because, number one, from an environmental standpoint we're more than doubling the generation from the existing site, and we're reducing the emissions output. That meets one of the criteria from our members. They're quite excited about that opportunity.

Back in 1980 we built our last generation resource in Wheatland, Wyoming in Laramie River Station. That unit has met our members' needs from 1980 until 2009, where in 2010 we go into our generation deficit which we see in the MAPP Region. So from our member communities we see the same types of things that have been reported as you'd expect as members of MAPP.

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by 85 percent.

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95 93 1 1 just wish that he would have stayed and he would opportunity for the largest private construction 2 2 have been our speaker, but he's a tremendous asset project in the State of South Dakota, \$1 billion. 3 3 to whoever got him here. And the revenue that that's going to generate for 4 4 You know, when we looked at this during the all of us in the state and the ones that are our 5 5 legislative session there were a couple of things neighboring states at least through the 6 6 that we were looking at. One was the economic construction, just a great opportunity for us. 7 7 development, and everybody has heard about the And Senator Peterson's right. Environmentally 8 8 economic impact to the community. You've heard we looked at all of those things, and we just 9 9 about the jobs. You've heard about the workers couldn't see where it was a lose situation. 10 10 that are going to come in, how it's going to Is there some downsides in big construction 11 11 benefit the restaurants and everything else. projects and a bunch of strangers coming in? Yeah, 12 12 Tonight you heard about a potential there is. But we did it 25, 30 years ago, and 13 13 development that can occur from Milbank and for they've been a great neighbor for 30 years. 14 14 40 miles south. We have the Coteau Hills running They've been active in our communities, and they 15 15 through Grant County, Deuel County down into have treated us well. 16 Brookings County, one of the prime wind areas of 16 They've continued to put money in that plant 17 17 South Dakota. Mark told you that this is being when the EPA and those things haven't required them 18 18 overbuilt going south. There's a tremendous to do so because they want to be a good neighbor. 19 potential. Every megawatt of wind costs about 19 They want to run a good facility. We're glad to 20 20 \$1.3 million dollars. A lot of farmers down in have them as a neighbor. We're here to support the 21 21 Deuel County are really excited about maybe being project and give them whatever help we can from our 22 22 able to add wind generation on. roles and give our constituents what I think we all 23 23 Another thing that we looked at was the want and that's growth in our areas and a more 24 24 environmental impact. And Mark explained tonight sound economy. Thank you. 25 25 MR. STREET: I concur with the about how this is going to be a win-win situation 94 96 1 1 for our district, for our area, because the total gentlemen's statements. I speak as a neighbor. I 2 2 emissions from both plants will be less than the live 18 miles south of the existing facility. My 3 3 current plant. The nitrous oxides, the sulfur role as a state legislator, we've supported this 4 4 dioxide, mercury, it's all going to be less. project. I'd like to go on record as 5 5 It's a win-win deal. It had tremendous congratulating Mark Rolfes and his crew doing a 6 6 legislative support. There was almost unanimous wonderful job of creating a plan for a very 7 7 support for the incentive bills that we came up environmentally friendly electrical plant. They've 8 8 with. And we feel it's great for the community. done a great job. 9 9 We feel that Otter Tail has been a tremendous Really the relationship I can speak most about 10 10 asset, and we really want to see this project go is our representing Northern Lights Ethanol. We 11 11 forward. exist on the property of Big Stone I. We lease our 12 12 I'll let the other guys speak. Go ahead, Val. land from them. We've been in business with them 13 13 MR. RAUSCH: Get in between those for six years now. Over the course of those years, 14 14 two Democrats. They do look out for me. It's a of course, we've run into some problems. And it's 15 15 wonderful working relationship that we have as solving those problems -- that's where they really 16 16 Representatives of District 4 in the Senate and the shine. The utmost professionalism when you have 17 17 problems with them -- not with them, but when House, and Senator Peterson is absolutely correct. 18 18 It almost was complete unanimous. Statewide problems creep up they get solved in a very 19 19 looking at this type of project, at the professional manner, and I think that speaks well 20 20 opportunities to bring more people into our state, of both parties. It's just been a good

property.

not just to work, some will come to live, but just

We always think of we're an ag state. We're

a -- in the future an extra value added to our

an ag state, but we finally have another

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job, Mark, and the rest of you. Way to go.

And I'd just like to go on record again as

CHAIRMAN HANSON: Thank you.

congratulating Otter Tail for doing a wonderful

relationship.

1 1 Further comment, please. I will pass these down. I'll place extra 2 2 MR. TUCHOLKE: After the team copies in the back for those of you who want to 3 3 approach, this isn't going to be as exciting. I'm pick them up. And, for the record, these are a 4 4 Clayton Tucholke, Gene Mann, Grant County synopsis of the comments we presented earlier as an 5 5 Commissioners. We'd like to welcome you to Milbank intervening party. And here's contact information. 6 6 and Grant County, appreciate you coming up. I'll be the first to admit I like my 7 7 We've been around I guess representing the electricity and I use it. Four children. I'm on 8 8 Commission. We've been involved in this right the farm. We had ice storms. We had power go out 9 9 before the start back before anybody else heard for four or five days and no way to get into town. 10 10 about it, the Commissioners do, and our questions I know what it is to have electricity, and I 11 11 have been answered. We're very supportive of appreciate it. I will be the first to admit it. 12 12 what's happening, especially looking back the Do we know that South Dakota is considered and 13 13 30 years we've been involved and seeing the other has been rated as the Saudi Arabia along with the 14 14 one built and looking forward to this one here other Upper Midwest states, the Saudi Arabia of 15 15 coming to Grant County for the need for the power. wind energy? 16 16 And it will be a great thing for our economy in the Fact: South Dakota has a potential power 17 17 output of 117,200 megawatts. That's the future. 18 18 MR. MANN: I'm Gene Mann and also a equivalent of 195 coal plants the size of proposed 19 19 County Commissioner, and I guess one thing that has Big Stone II. We have that capacity, that 20 20 struck me tonight that I just really thought of, availability. Some will say it's not reliable. 21 21 I've been a Commissioner for 15 years and Chairman Fact: There's a plant going up, the final 22 22 of the Planning and Zoning Board for 15 years, report came in in June just this last year, and 23 23 12 years previous to that on the City Council. And it's called Compressed Air Energy Storage. This 24 24 I have never heard a Complaint about the way the plant is going up down in the Oklahoma, Texas, 25 25 power plant out here has been operated. New Mexico area. They are putting this --98 100 1 1 And as far as I'm concerned, it's a classy implementing this in. It's Compressed Air Energy 2 2 outfit, and they bend over backwards to cooperate Storage, CAES. It will go online in year three. 3 3 4 5 with everybody around. I spoke with Dick Kelly this morning, CEO of 4 Thank you. Xcel Energy. After he got done speaking I said, Do 5 CHAIRMAN HANSON: Thank you, you know about this? What does Xcel think about 6 6 this? Yes. He says, That's key. That's key. gentlemen. Further comment this evening? 7 7 MS. STUEVE: I'd like to take up the South Dakota could tap this, could look into 8 8 this Compressed Air Energy Storage. It a challenge the gentlemen presented about can we push 9 9 for something. Yes, we can, and I will push for three-year time frame to get it on. We have the 10 10 something. We can do more. We can do better. We underground storage to be able to put the air in to 11 11 can do bigger. We can win bigger. bring it out at high market demand time and to be 12 12 I am Mary Joe Stueve, S-T-U-E-V-E, and I am able to -- we have the coal plant. It's usually a 13 13 here in two capacities tonight. I just joined on dual operation. 14 14 with Clean Water Action South Dakota out of I urge the Commission to look at Compressed 15 15 Sioux Falls. And I have information here that I Air Energy Storage. I can get you the report site, 16 16 would like for the record that I will present. the document. It's titled The Economic Impact of 17 17 But I'm also here in the capacity .. I've CAES on Wind in Texas, Oklahoma, and New Mexico. 18 18 raised my four children on a family farm in between The other things I would like the 19 19 Big Stone County and Traverse County in Minnesota Commissioners -- and I appreciate you coming 20 20 24 years. I have grandchildren. I have a home in tonight. I appreciate the opportunity to speak and 21 21 to hear what everyone's talking about. Some Graceville, Minnesota. Me and my family and our 22 22 children, we live there off and on. We come back. concerns and questions I had with the earlier 23 23 We intend to move back. I have a home there, I presentation: 24 24 have land there, and I have an interest in what's On the mercury, correct me if I'm wrong, 25 25 please. I heard you say we would be at the same or going on here.

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	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
' '	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	occur, but it would impair a river down there that
	10	older plants operate at 4 to 13 times higher than	10	was already it would further impair it. And
	11	the new required emissions for the plants that were	11	when it's listed as being impaired certain projects
	12	not grandfathered in. So will we still be above	12	that would add to the pollution to it are not allowed to continue. That would need to be looked
	13	the new guidelines if we are operating at 2004	13	
	14	levels?	14	at. Big Stone, Little Minnesota, potential rivers
	15	MR. GRAUMANN: Your understanding of	15	coming out from there. And it has to be more than
	16	that isn't entirely correct. When EPA developed	16	just the adjacent. It's at least a 50-mile radius.
	17	the new mercury rules in 2005, March of 2005, they	17	The other one would be the job curve that you
	18	did actually two things. They established emission	18	showed for the Big Stone Plant. And we do need
	19	rates for mercury for new plants. They also	19	jobs. We do need development. Any of you who have
	20	established the national cap and trade system for	20	not been down to the Lake Benton area and seen what
	21	mercury. And they allocated allowances to each of	21	has happened to the local economy, the community
	22	the states as a part of that particular process.	22	down there, I urge you to take a look at that and
	23	South Dakota's allocation is about 144 pounds	23	see what has happened with the wind power
	24	based on the standards for beginning in 2010. And	24	development down there.
	25	in 2018 that drops to 58.	25	The job curve that you showed went up and
			20	down, the bell curve; correct? I would like the
	1	And so in absonge of any controlled		104
	2	And so in absence of any controlled		Commission to consider and to be part of this
	3	technologies, Big Stone I would have a choice of	2	study, economic impact. I have a guess that the
	<u> </u>	either, one, buying allowances, or, two, scrubbing	3	job curve for the wind development potential would
	5	or doing something to reduce the mercury emissions	4	be a curve up and it would plateau and keep up.
	6	down to those levels because we that cap would	5	We heard from the tour that for every one to
	7			
		apply then to our particular units. We couldn't do	6	20 turbines there's at least three jobs and there's
	β	anything, we couldn't emit anymore mercury than the	7	hundreds we have the potential for thousands of
	8	anything, we couldn't emit anymore mercury than the cap would allow, otherwise we'd be in violation of	7 8	hundreds we have the potential for thousands of windmills across South Dakota and a development and
	9	anything, we couldn't emit anymore mercury than the cap would allow, otherwise we'd be in violation of the rules.	7 8 9	hundreds we have the potential for thousands of windmills across South Dakota and a development and sustainability of jobs.
	9 10	anything, we couldn't emit anymore mercury than the cap would allow, otherwise we'd be in violation of the rules. And so there is an apples and oranges	7 8 9 10	hundreds we have the potential for thousands of windmills across South Dakota and a development and sustainability of jobs. I have many other things. I thank you for
	9 10 11	anything, we couldn't emit anymore mercury than the cap would allow, otherwise we'd be in violation of the rules. And so there is an apples and oranges comparison, but to say that Big Stone I is not	7 8 9 10	hundreds we have the potential for thousands of windmills across South Dakota and a development and sustainability of jobs. I have many other things. I thank you for your time, though. Most of the other comments and
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	105	1	107 STATE OF SOUTH DAKOTA)
1 if you can if you cannot	• •	2	:SS CERTIFICATE
2 Mary Joe was stating son	ne of her concerns	3	COUNTY OF HUGHES)
3 pertaining to the environ	ment and whether or not	4	•
4 information would be pro	ovided outside of certain	5	I, CHERI MCCOMSEY WITTLER, a Registered
5 areas regarding certain s	specifics as she went into,	6	Professional Reporter and Notary Public in and for the
6 will the Environmental In	npact Statement that WAPA	7	State of South Dakota:
7 is entering is going thr	ough address those	8	DO HEREBY CERTIFY that as the duly-appointed
8 issues?	_	9	shorthand reporter, I took in shorthand the proceedings
9 MS. WERDE	L: One thing about the	10	had in the above-entitled matter on the 13th day of
10 federal EIS is it looks at a	all of the different	11	
11 parts of the project rathe	er than just the specific		September 2005, and that the attached is a true and
12 part. So it will look at th	ne project as a whole	12	correct transcription of the proceedings so taken.
13 and the impacts as a wh	ole and provide a study of	13	Dated at Pierre, South Dakota this 21st day
14 all the impacts througho	ut the general area.	14	of September 2005.
15 CHAIRMAN	HANSON: Will it also	15	
16 include the lakes, stream	ns, river that she was	16	
17 referring to?	,	17	Cheim Comment
	L: It will have water	18	Cheri McComsey Wittler, Notary Public and
19 quality impacts as part of	of that study. And I took	19	Registered Professional Reporter
20 a couple of notes, and w		20 21	
The state of the s	scoping as an inclusionary	22	
22 thing into the EIS.	, , ,	23	
	HANSON: Thank you very	24	
24 much. Thank you very n		25	
1	E: I will put extra copies		
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at the back table.

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CHAIRMAN HANSON: Further public comment, please. Close to the auctioneer saying sold here. So if you have a desire to speak, this is the time.

Ladies and gentlemen, the Public Utilities Commissioners appreciate your attendance, and we know that this is a very important issue regardless of whether you're on the left side, right side, or you're walking down the fence on this issue, just attempting to learn more.

We recognize that sometimes it can be an emotional issue. We very much appreciate the dignified and respectful fashion in which you have testified here today. The information that's been provided we feel is very valuable, and at this time we will conclude the meeting.

Excuse me. Before I do that, Commissioner Johnson made an excellent point. Please be aware if you have additional information, you wake up at 3 o'clock tonight and think oh, I wish I had said this, please submit that to the Public Utilities Commission. We appreciate that.

That concludes the hearing.

(The hearing concluded at 9:45 p.m.)

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[9] 1:74 101:2 101:18 Wonderful [4] 94:15 96:6 96:23 103:2 Words [1] 63:1 Workers [5] 48:13 49:1 49:12 49:24 93:9 World's [1] 79:7 Worth [1] 70:8 Wrap [1] 53:3 Writing [1] 81:12 Written [5] 6:19 78:15 81:14 104:13 104:22 Www.puc.sd.gov [1] 6:2 Www.wapa.gov [1] 90:22 Wyoming [1] 88:19 \mathbf{X} Xcel [2] 100:4 100:5 Y Yards [2] 62:9 62:10 [24] 13:22 18:5 18:9 18:20 24:18 25: 15 30:19 31:16 33:24 34:10 38:4 38:6 40:25 41:8 47:20 52:13 53:6 53:10 53: 16 53:19 92:24 99:22 100:2 100:9 Years [32] 9:15 10:8 13:20 13:21 14:13 20:4 25:23 33:10 39:7 39:8 47:1 48:24 49: 3 55:7 56:1 59:4 66:2 70:8 71:14 77: 22 79:9 84:7 89:18 95:12 95:13 96:13 96:13 97:13 97:21 97:22 97:23 98:20 Yesterday [1] 92:1 Yield [1] 72:12 Yourself [1] 3:16 \mathbb{Z} Zero [4] 15:2 15:4 23:2 44:5 Zone [1] 37:12 Zoning [1] 97:22

Dian M. Big Stone Sept 13, 2005 Dy 2 Malan George 1 Ameth. Deanna White deanna, white a slewarth, org Duane Vinneman duaneningeman 1 e yahoo, con 1 GWEN 471 eagle child 520 hotmail com mjstueve@cleanwater.org Mary Jo Stueve Bul Deb Wiik dbwK@watmidanet Nancy Werdel Wordel @ wapa. Gov Sist Emudy SAY SKABO Jay. Skaba @mdu.com Kyrik Romboogh Kyrik. Rombough @ state.sd. US Thomas J. Well Liwelk & bgpw.com. Kalph Slinson mother SD Don Lawson DLARSON @ DPLA NET Joel Foster itasteresstelnet Sim Warrey Milbank Ju Peterson Rev. Hdasokoloki a i iwla. urg ACAM SOKOLSKE Rogez Mc Cellock Big Stone H (L, Koerigin Milbart Milbin Utility Shareholders of lette Myers: time I kaut Wentella Hul Lebe milbook Melbonk. 711 execus Tarifica 6727 Kettiniaj Dsstelanet. Jason Kettwig bill- even @ state. sd- as Bill Even VAL PAUSCH Rep Dist-4 Big Stone City

HRUID LICHE MIBANK SD

TG. Kreniguer 314 E 12thau = MIDAST

Mike MACH SILS. 5th St. MILBANK SD

Terome Kaiser 14291 485th Aue, Big Stone & S.E.

ROGER Mc Culloch 48025 145 St. Big Stone & S.D. PAI

Lerry Heller Milbank SD

GWEN HILL 11748 458 EVE SISSEEN, SD 57262

Elsie Ferrine 521 Stephens Aue. Ontonville, MN 56278

Clayton Tucholke 16221 477 Aue (a Bolt SD

Clayton Tucholke 16221 477 Aue (a Bolt SD

Clayton Tucholke 16221 477 Aue (a Bolt SD

Clayton Tacholke 16221 477 Aue (a Bolt SD)

Cheri Wittler

From: Pam.Bonrud@state.sd.us

Sent: Monday, September 19, 2005 10:49 AM

To: cwittler.precisionreporting@midconetwork.com

Subject: FW: Milbank meeting

FY₁

----Original Message----From: Smith, John (PUC)

Sent: Monday, September 19, 2005 11:48 AM

To: Bonrud, Pam

Subject: RE: Milbank meeting

I would do that. I wonder if Sheri needs this? Her email address is cwittler.precisionreporting@midconetwork.com

----Original Message----From: Bonrud, Pam

Sent: Monday, September 19, 2005 11:45 AM

To: Smith, John (PUC)

Subject: FW: Milbank meeting

I suspect we should print this to be a part of the official record for the meeting as they were there representing MRES???

----Original Message----

From: Deb Birgen [mailto:dbirgen@mrenergy.com] Sent: Monday, September 19, 2005 11:17 AM

To: Bonrud, Pam

Subject: Milbank meeting

Pam,

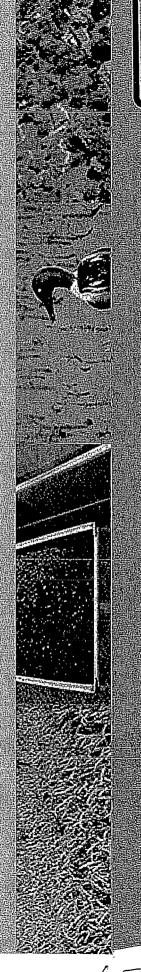
Neither DeWayne Keegel or I were able to sign in before the sign in sheet was picked up. I don't know if you need to add us.

Deb Birgen MRES

Sout Dakota Public Utilities Commission

BIG Stone II
Energy Conversion Facility

Siting Permit Public Fearing September 13, 2005



RIPNERS IN GENERATION

ii S

Big Stone II Co-owners



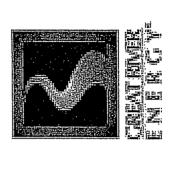








Southern Minnesota Municipal Power Agency

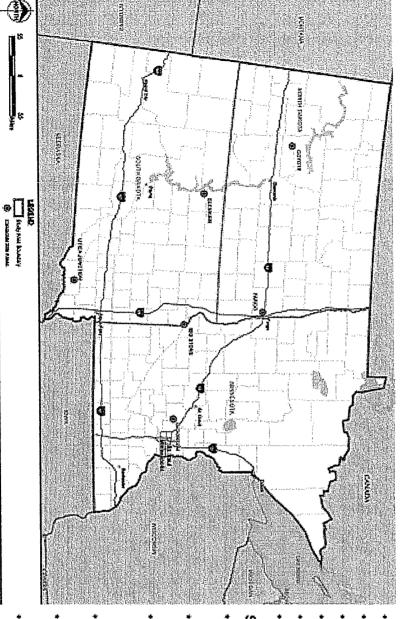




Energy Sources Considered

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

Big Stone II Alternative Site Evaluation Study



Candidate Sites

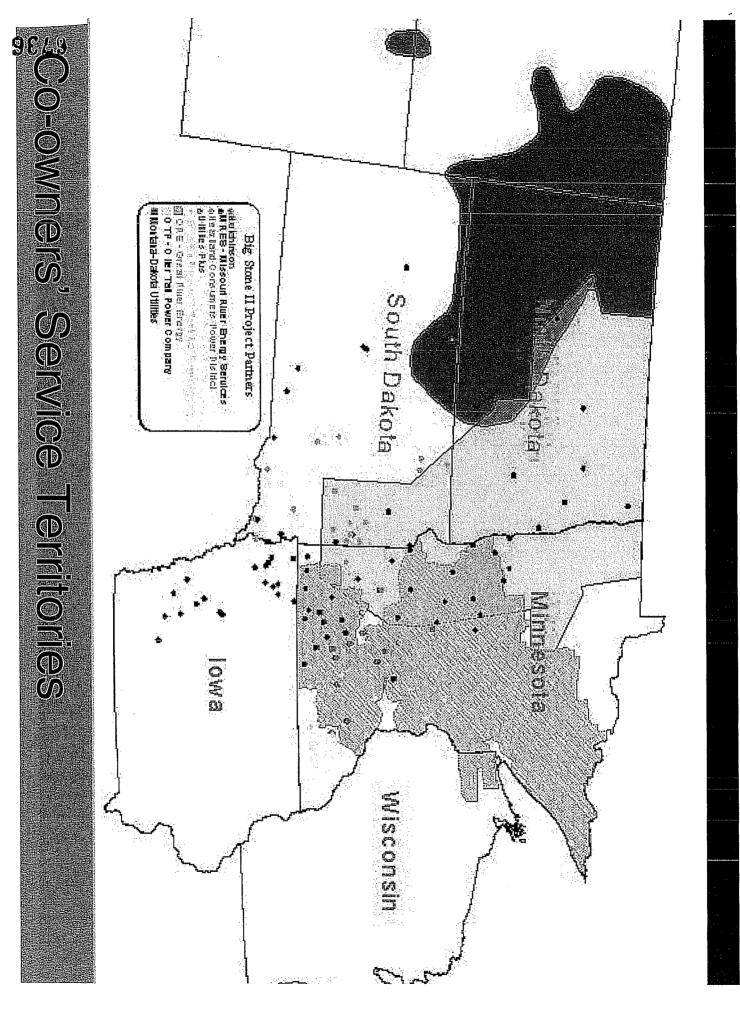
- Big Stone Grant County, South Dakota
- Coyote Mercer County, North Dakota
- Dickinson Wright County, Minnesota
- Fargo Cass County, North Dakota
- Utica Junction Yankton County, South Dakota Glenham - Walworth County, South Dakota

Site evaluation criteria

- Air Impacts: Class I Area and Airspace Restrictions
- Water Supply: Surface Water Proximity and Water Supply Potential
- Fuel Supply: Rail Line/Mine Proximity, Fuel Environmental: Socioeconomics, Land Use Noise Impacts, and Wetlands Compatibility, Protected Species Impacts,
- Point and Expected System Impacts Transmission: Proximity to Interconnection

Delivery Competition, and Reagent Delivery

Other: Highway Access, Land Availability and Common Facilities/Staff



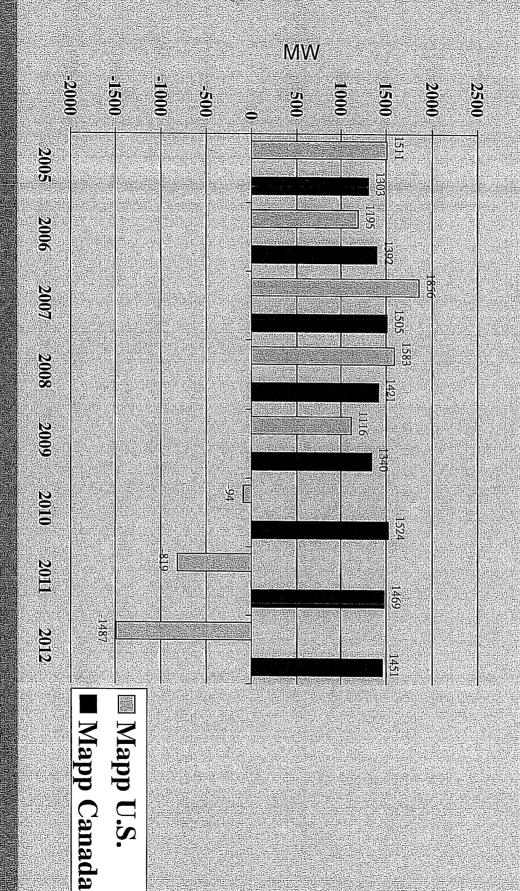
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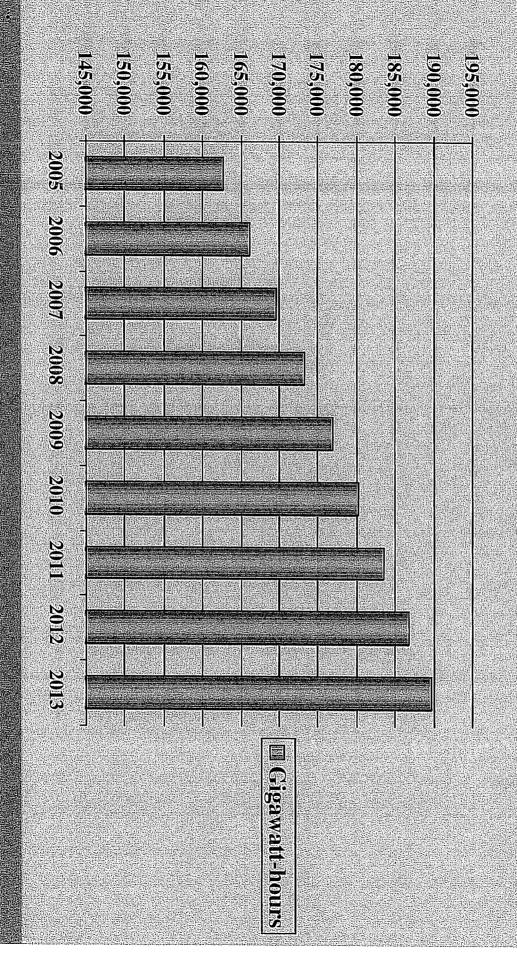
MAPP ROCON



MAPP Surplus/Deficit Forecast



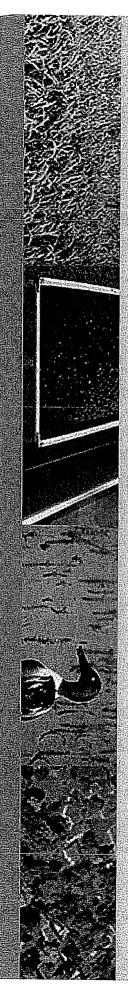
MAPP U.S. Annual Net Energy Forecast



Baseload, intermediate and Peaking Facility Relative Cost

Baseload	Intermediate	Peaking	Generation
TO	Medium	Low	Capital Cost
Low	Medium		
ij	Nediun	MOT	Typical Energy Production

Project Description



Opportunities to Share Existing

- Cooling water intake structure, pumping system and delivery line
-) Coal unloading facilities
- Solid waste disposal facilities

sted FIG Stone Site

POWER PLANT SITE

Exhibit 3-2

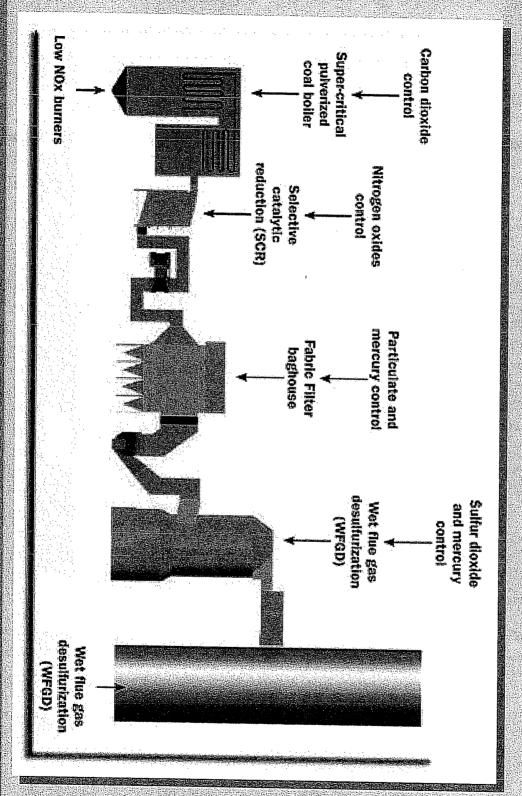
Big Stone Site — Water Appropriations and Storage

10,902 Acitt = design annual usage

Holding pond capacity, 955 Acrift

- Evaporation Pond Capacity: 1,486 Acrit
- Water storage pond capacity: 9,900 Ac-fit
- Goolling pond useable storage capacity: 3,000 Actif (5440 actif total))
- Total site useable storage capacity/current design⊨ <u>115,300</u> Ac it

Emissions Control Technology



Wet Scrubber

- Historically, dry scrubbers used to remove sultur dioxide when burning
- Wetsorubbers are more expensive
- However, wet scrubbers offer
- More efficient SO2 remova

More efficient mercury control

Wet Scrubber Technology Joini Scribber Possible Because of

- Double the size of the scrubber but only 60% increase in cost
- Able to share some equipment and the Denefils of redundancy of other
- Lower per megawait hour cost for Common scrubbe

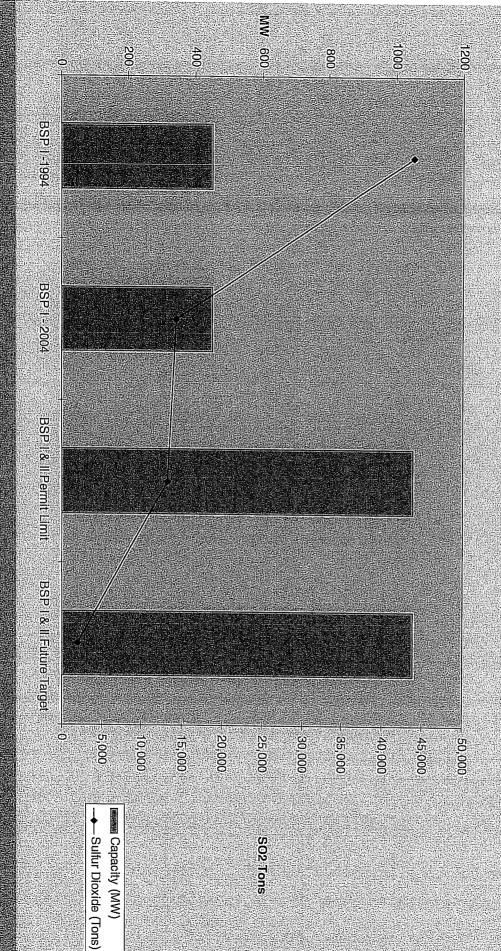
Nitrogen Oxides Conito

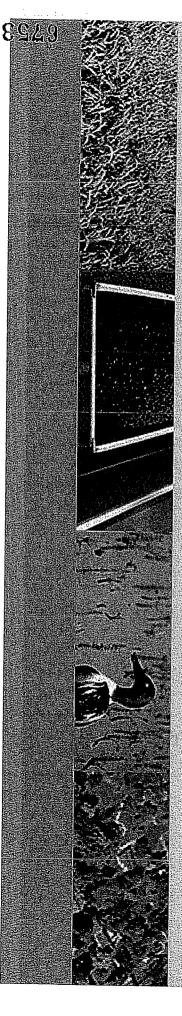
- Commiment to add Big Stone II and not the Big Stone Plant site Increase nitrogen oxides emissions from
- Make Big Stone Plant unit I operational changes to its lower nitrogen oxides
- May also require equipment changes

Emissions Control Sunmary

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

Sulfur Dioxide Emissions



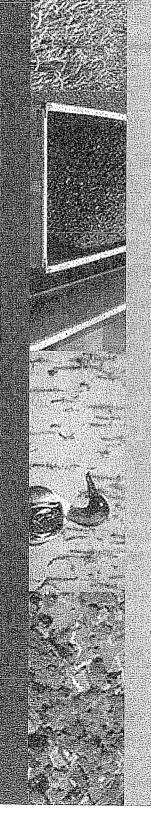


- Physical Environment
- Hydrology
- Terrestrial Ecosystems
- Aquatic Ecosystems
- Land Use
- Mater Quality
- Air Quality
- Solid and Radioaciive Waste

Physical Environment

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

Impacts primarily limited to new storage pond S E O area-most other activity within existing plant



Lavironmenta Impacis

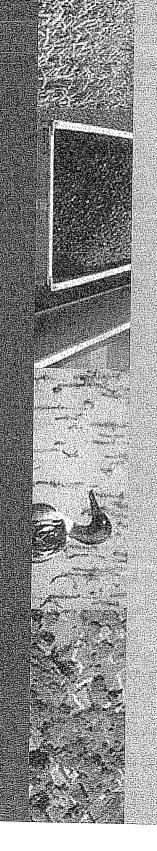
- Surface Water Drainage
- Water Use and Sources

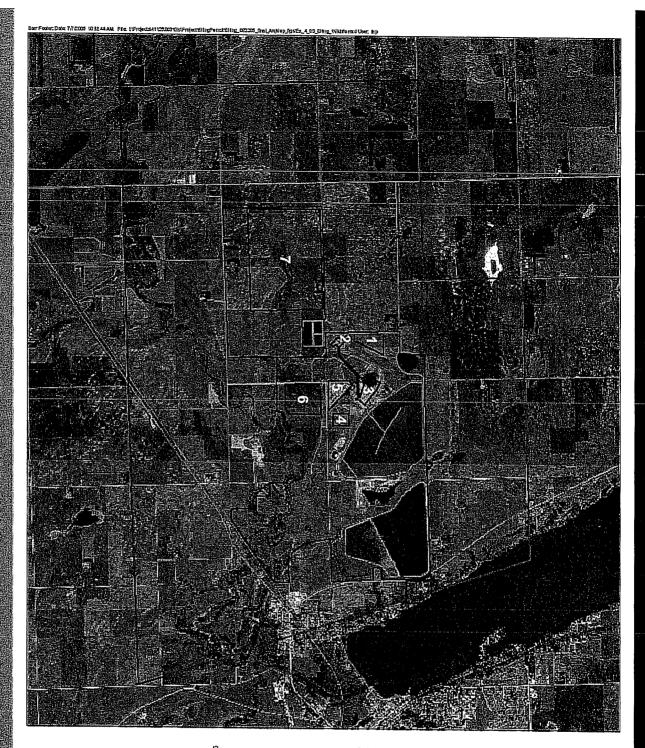
Impacts to drainage primarily limited to noreased water needs can be met within existing operational constraints on Big Stone Lake witofawa new storage pond area

Terrestrial Ecosystems Environne de la Inpacis

- Vegetation Communities
- Threatened and Endangered Species

No adverse impacts are expected





WILDLIFE
Big Stone II Project
Big Stone II Co-owners

Exhibit 4-9

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

Bald Eagle Nest 7 Makeup Storage Pond 6 Construction Laydovm 5 Ethanol Plant 4 Construction Parking Project Features Property Boundary
Extended Study Area

2 Cooling Tower

3 New Plant

1 Cooling Tower Blowdown Pond

Aquatic Ecosystems

- Fisheries
- Weilands

No adverse impacts to fisheries are expecteo

Weiland impacis addressed inrough USACOE permitting process

Environmenta Impacts Land Use and Land Use Conirols

- Existing Land Use

New unit takes advantage of existing noremental noise impact modeled as industrial and use and infrastructure

Water Quality

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

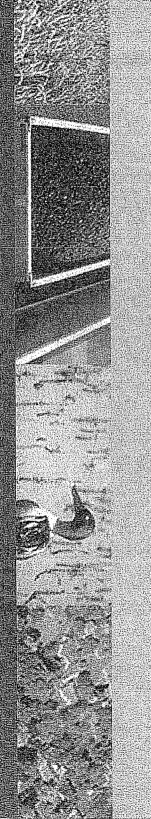
No impacts expected to Whetstone River New pond water quality expected to be similar to area shallow lakes

Stornwater will be managed inrough SWPPP



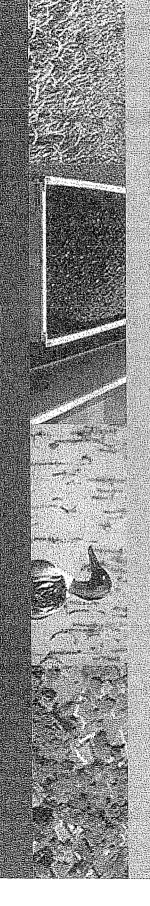
Air Quality Inpacts

- 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

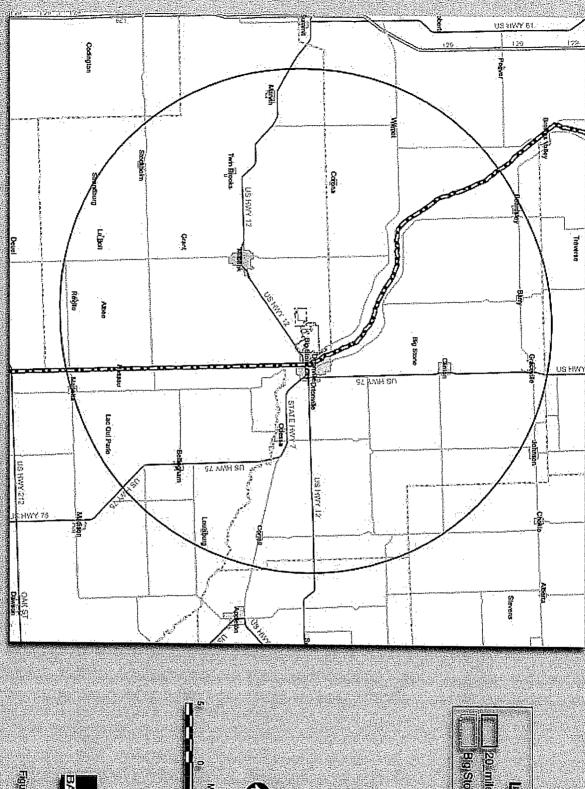
Propose to use existing permitted solid waste disposal facility

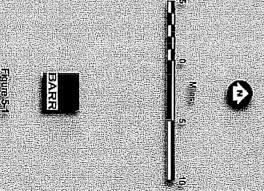


Community Impacts

- Community Services
- Population and Demographics
- Ouitural Resources







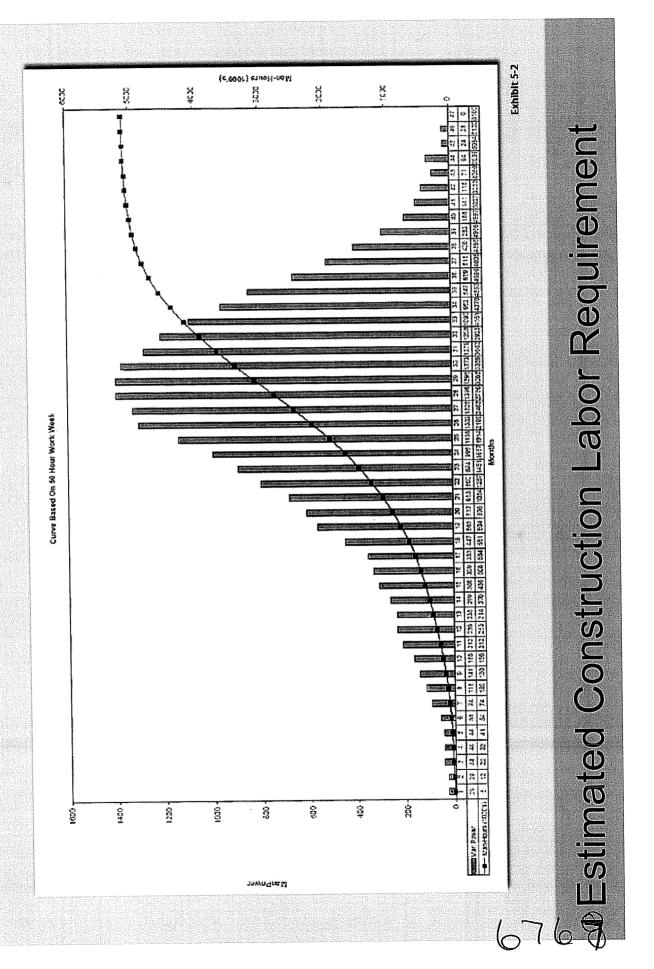


Community Impacts Economic Impacts

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

Impacts expected to be positive or

6766



Community Impacts Infrastructure Impacts

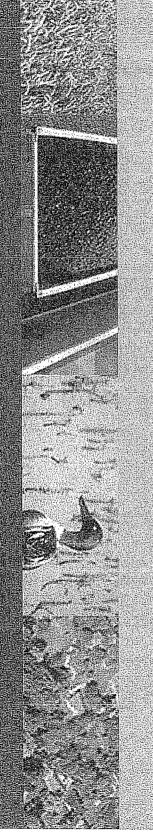
- Housing
- Sewer and Water
- Solid Waste Management
- Transportation

adequate to meet project needs

Community Impacts Community Services

- Health Services and Facilities
- Recreation
- Public Safety

Existing services not expected to be overtaxed by project



Oher Inpacts

- Population and Demographics
- Cultural Resources

No adverse impacis expecied



Pojeci Schedule

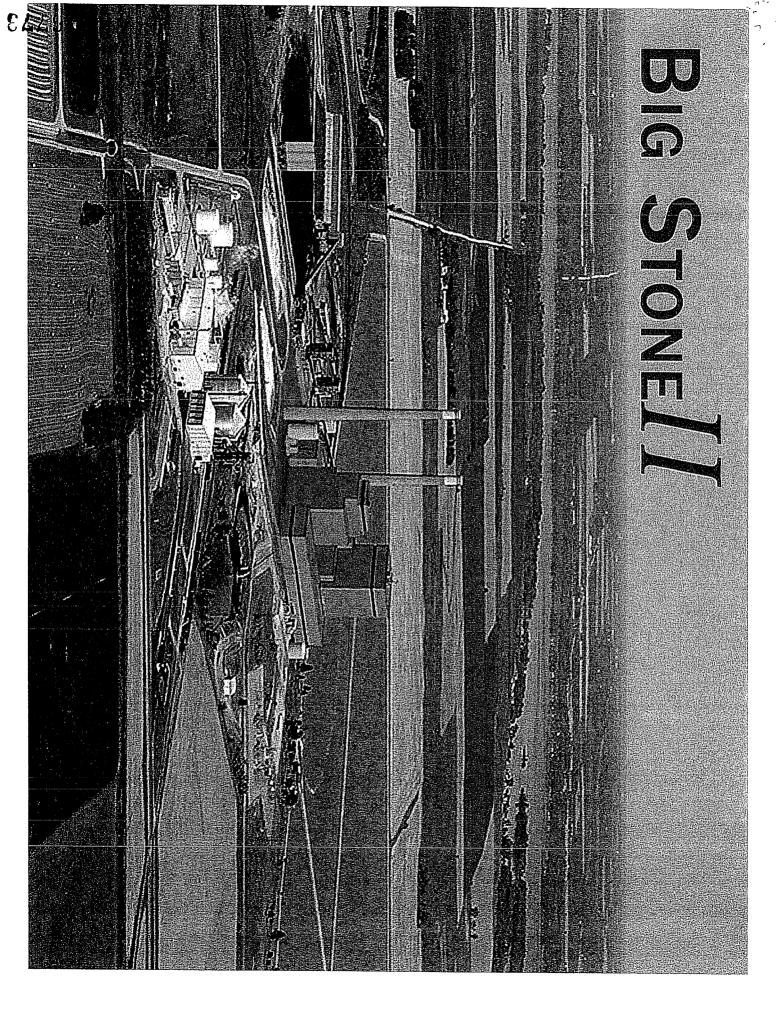


THE DIG STONE II PROJECT SCHEOULE

CONSTRUCTION COMMERCIAL OPERA STARTUP ENGINEERING HINANOIAL CLOSE PERMITTING/LIGENSI PROJECT DEVELOPM

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		140 10	
		130 40 10	2008
		20 30 40 10	2009
			2010
		30 40 10 20 30	FW2

<u>~</u>40



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 Sade Patenta.

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 regulatory 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.



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.

CLEAN WATER ACTION ALLIAN of Minnesota

A statewide alliance of more than 50,000 households as organizations working on a wide array of issues affecting Min communities. CWAA has a long history of supporting citizen to protect water resources, of promoting sound solid management, of pushing for agriculture policies that strengther communities, of working for a transition to clean renewable e and of promoting social values, policies and behaviors that reeconomic and environmental justice.



PREVENTING WATER POLLUTION

Clean Water Action Alliance is working, nationally and locally, through lobbying, ou efforts and organizing, to defend the p drinking water from contamination at the sou

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



RENEWABLE ENERGY

Clean Water Action Alliance is working with its organizing citizens across the state to move fo on the transition to clean, renewable er Through the Mercury-Free Minnesota Cam CWAA is also working to increase public de

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



RURAL COMMUNITIES & THE ENVIRONMENT

Clean Water Action Alliance is working with fa and rural residents to organize suppor agricultural production systems and practice ecologically and economically sustain i

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



PROTECTING CHILDREN'S HEALTH

Clean Water Action Alliance and its allies are wo to protect children's health by reducing the pre of toxins, such as mercury, in the environ CWAA is advocating the use of a precauti

approach in tackling this problem - preventing harm before it happer

MIDWEST REGIONAL OFFICES CLEAN WATER ACTION ALLIANCE

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

Twin Cities 308 E Hennepin Ave Minneapolis, MN 55414 (612) 623-3666

Duluth 394 Lake Ave Si Duluth, MN 5! (218) 722-85!

Sioux Falls Sioux Falls, SD 57104 (605) 978-9196

National Office 231 S Phillips Ave #250 4455 Connecticut Ave NW Washington, DC 20008 (202) 895-0420

La Crosse EXHIBIT

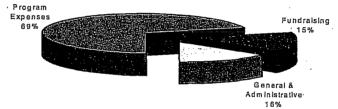
www.clean@atteraction.or

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 environmental 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 Act;
- 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)

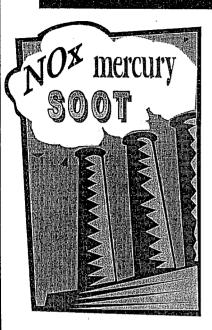
When you join Clean Water Action at any of the above levels, all your family members residing in the same household are also included as members.

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 to have input into the national program priorities or vote for the Board of Directors, please provide your e-mail address on our support statement, call 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 MEM	BERSHIP!
DATE:	
STAFF:	~ W W M
CONTRIBUTION AMOUNT:	6777

^{*}Contributions to Clean Water Action are not tax deductible. Clean Water Action is a non-profit organization under section 501/c)(4) of the Integral 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 development, learning disabilities, and deficiencies in language, motor function, attention and memory.⁵



Coal pollution can cause or aggravate lung problems like astlıma.

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.

EXHIBIT

South Dakota lass 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. 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.

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 Erosse, WI 54601 (608) 782-2012

Energy Information Association, "State Electricity Profiles 2002," www.cia.doc.gov/cncaf/clcctricity/st_profiles/south_dakota.pdf

^{*} Abt Associates, "Death, Disease and Dirty Power: Mortality and Health Damage Due to Air Pollution from Power Plants," Bethesda, MD, 2000.

US EPA, "National Air Quality and Emissions Trends Report, 1999." Office of Air Quality Planning and Standards, EPA 454/R-01-004, 2001.

Abt Associates, 2000.

³ 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.ucsusa.org/documents/Plugging_In_Renewable_Energy.pdf

⁷ American Wind Energy Association, "Wind Project Database-South Dakota," www.awea.org/projects/southdakota.html

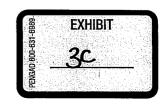
Abl Associates, "Power Plant Emissions: Particulate Matter-Related Health Damages and the Benefits of Alternative Emission Reduction Scenarios," June 2004.

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.

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