OF THE STATE OF SOUTH DAKOTA

SEP 2 1 2005

= = SOUTH DAKOTA PUBL UTILITIES COMMISSIC

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

			TO COMMITS I	N			
	2	OF THE STATE OF	SOUTH DAKOTA	A.		1 1	CHAIDMAN HANCON, M
	3			====	====	2	CHAIRMAN HANSON: My name is
	4	IN THE MATTER OF THE APPLICA OTTER TAIL POWER COMPANY ON	TION BY			3	Gary Hanson. I'm a Commissioner with the PUC.
	5	BIG STONE II CO-OWNERS FOR A	N ENERGY	E	L05-022	1 4	With me this evening, Bob Sahr and Dusty Johnson,
	6	CONVERSION FACILITY PERMIT F CONSTRUCTION OF THE BIG STON	OR THE E II PROJECT	C		5	Commissioners as well. We're going to ask you
	7			====		6	we're having a little challenge with the microphone
j	В	Transcript o: Septembe:	f Proceeding r 13, 2005	js		0	here. I was going to ask you to use it, but that
	9 .				====	/	won't help us at all.
	10	BEFORE THE PUBLIC UTILITIES	COMMISSION,			8	Please use your outside voice when you are
	11	GARY HANSON, CHAIRMAN BOB SAHR, VICE CHAIRMAN	,			9	chatting with us this evening. Make sure everyone
	12	DUSTY JOHNSON, COMMISSI	ONER			10	can hear. We do have a court reporter. This is an
	13	COMMISSION STAFF				11	official hearing. So she needs to be able to
	14	John Smith				12	transcribe everything. In order to do that, she
		Karen Cremer Greg Rislov				13	needs to be able to hear you. We do encourage you
	15	Midhele Farris Steve Wegman				14	to address the Commission. We want you to have an
	16	Pam Bonrud				15	opportunity to speak this evening. When you do so,
	17	APPEARANCES				16	please identify yourself, and if you are with an
	18	THOMAS J. WELK and CHRI	STOPHER W. 1	MADSEN,		17	organization and you're representing that
į	19	BOYCE, GREENFIELD, Attorneys at Law,	P.O. Box 501	.5.		18	organization please identify that arrested
	20	Sioux Falls, South appearing on behal	Dakota 571	17.		19	organization, please identify that organization.
į	21	BRUCE GERHARDSON,	J - 44	,		20	Otherwise, when we're reading transcripts we won't
	22	OTTER TAIL CORPORA Associate General	TION,	. Bow 40	c	21	know who was speaking.
	23	Fergus Falls, Minn	esota 56538	-0496.	ь,	22	There is a sign-up sheet in the back. The
	24	appearing on behalt				l .	purpose of that is so that we can send information
	25	Reported By Cheri McCom	sey Wittler,	RPR, CRI	R	23	to you if it's appropriate. So we would like you
	23					24	to sign the sign-up sheet. Put your name and
						25	address on that. That will be greatly appreciated.
	, , 1	TRANSCRIPT OF PROCEE	DINGS, held	in the	2		1
	ļ						Λ
	2	above-entitled matter, at the	e Lantern In	ın,		1 1	Was going to use the microphone and cit over
	3	above-entitled matter, at the Milbank, South Dakota, on the			her	1 -	was going to use the microphone and sit over
		Milbank, South Dakota, on th	e 13th day c		ber	2	there to read this. I'll read it from this spot so
			e 13th day c		ber	1 -	there to read this. I'll read it from this spot so you can hear a little bit easier.
	3	Milbank, South Dakota, on the 2005, commencing at 7 o'clock	e 13th day o k p.m.		er	2 3 4	there to read this. I'll read it from this spot so you can hear a little bit easier. This is a public hearing for a proposed energy
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	3 4 5 6 7 8	Milbank, South Dakota, on the 2005, commencing at 7 o'clock	e 13th day o k p.m. E E E E E D E X	of Septemb		2 3 4 5 6 7	there to read this. I'll read it from this spot so you can hear a little bit easier. This is a public hearing for a proposed energy conversion facility. The meeting will come to order for the public input hearing in Docket No. ELO5.022, entitled In the Matter of the
	3 4 5 6 7 8	Milbank, South Dakota, on the 2005, commencing at 7 o'clock which is a second of the Exhibit Nos.	e 13th day o k p.m. e = = = = = D E X	September Septem	= = = = <u>R</u> 54	2 3 4 5 6 7 8	there to read this. I'll read it from this spot so you can hear a little bit easier. This is a public hearing for a proposed energy conversion facility. The meeting will come to order for the public input hearing in Docket No. ELO5:022, entitled in the Matter of the Application by Otter Tail Power Company on Behalf
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5 facilities will be located on an industrial site 1 allowing me to get through the formality that is 2 adjacent to the existing Big Stone Plant Unit 1 in 2 required at the beginning of the hearing. 3 3 Grant County, South Dakota near the town of Mr. Welk, I understand you're the attorney 4 Big Stone City. Otter Tail Power Company is the 4 representing Otter Tail Power Company. I'll allow 5 name for the utility division of Otter Tail 5 you to certainly go first since it is your docketed 6 Corporation, an investor-owned corporation 6 item, and please introduce the members of your 7 7 headquartered in Fergus Falls, Minnesota. organization. Thank you. 8 Otter Tail submitted the application on behalf of 8 MR. WELK: Thank you, Mr. Chairman, 9 itself and its project co-owners who are Central 9 Commissioners, members of the public. My name is 10 Minnesota Municipal Power Agency, Great River 10 Tom Welk. I'm one of the attorneys for the 11 Energy, Heartland Consumers Power District. 11 project. With me, other attorneys are Chris Madsen 12 Montana-Dakota Utilities Company, which is a 12 from my law firm to the right and Bruce Gerhardson, 13 division of MDU Resources Group, Incorporated, 13 who is the Associate General Counsel. You can tell 14 Southern Minnesota Municipal Power Agency, and 14 us by our ties as the attorneys. 15 Western Minnesota Municipal Power Agency. 15 We have a number of witnesses tonight that we 16 The purpose of this hearing is to provide 16 would like to utilize to present the project to the 17 information to the public about Otter Tail's 17 Commission and to the members of the public. We 18 proposed project and to hear public comments 18 have it's approximately about -- if the timing is 19 regarding the proposed project. Interested persons 19 correct, about 50 to 60 minutes. It's a 20 have the right to present their views and comments 20 Power Point presentation. It will be divided 21 regarding the application. And we encourage you to 21 through several witnesses. 22 please do so. 22 Mark Rolfes, the project manager, is going to 23 A copy of the application is on file with the 23 give us a background on the history of the project, 24 Grant County Auditor. The public may also access 24 the technologies we're considering, the site, why 25 the application and all other nonconfidential 25 it was selected here. Then we're going to have 6 8 1 documents in the file on the Commission's website 1 Stacie Hebert talk about the demand and why this 2 at www.puc.sd.gov under Commission Actions, 2 facility is going to need to be there. 3 Commission Dockets, 2005 Electric Dockets, and 3 Bill Swanson is going to talk about the facilities 4 scroll down to EL05-022. 4 and what it's going to look like. Terry Graumann 5 The parties to this proceeding at this time 5 is going to talk about the emission control 6 6 are Otter Tail and the Commission. Under technologies. And John Lee, the consulting 7 South Dakota Law each municipality, county, and 7 engineer, is going to go through the review of what 8 governmental agency in the area where the facility 8 the environmental community impacts have been and 9 is proposed to be constructed, any nonprofit 9 also what the community service is that might be 10 organization formed in whole or in part to promote 10 affected. 11 conservation or natural beauty, to protect the 11 We have these in various segments that we're 12 environment, personal health or other biological 12 going to have presented. We also have a couple of 13 values, to preserve historical sites, to promote 13 other engineers, Todd Sundbom from Burns & 14 consumer interests, to represent commercial and 14 McDonnell, and Andrew Skogeland (phonetic). 15 industrial groups, or to promote the orderly 15 They're available here also for questions for 16 development of the area in which the facility is to 16 members of the Commission or the staff or anyone, 17 be constructed, or any interested person may be 17 if there are some technical questions. 18 granted party status in this proceeding by making a 18 I don't know, Mr. Chairman, how you want to 19 written application to the Commission on or before 19 proceed, whether we want to hold the questions 20 September 19, 2005. 20 until the end, but that's just to kind of give you 21 We have applications available here this 21 an overview of what we've got to present. 22 evening if you'd like to apply for party status. 22 CHAIRMAN HANSON: Thank you. 23 As of this time the only person or organization 23 Mr. Welk. Generally what takes place is that we 24 that has applied for intervener party status is 24 allow you to make your entire presentation, and 25 Clean Water Action. Thank you very much for 25 then we can make comment afterwards. That way we

MR. WELK: Okay. Thank you, Mr. Chairman. I'd call Mark Rolfes, and I'd ask each witness as they get up just to give a couple of minutes or half a minute on who they are and their background so the Commissioners and public know who they are.

MR. ROLFES: Commissioners, I'm Mark Rolfes, as Mr. Welk said. I'm a registered engineer in the State of South Dakota and Minnesota. I've been in the power generation business for 28 years, half of that time as the manager of the existing Big Stone I facility.

I really want to express my appreciation for the chance to address you tonight to tell you about the Big Stone II project. We feel we have an extremely good project that's going to be good for our customers, good for the communities that we serve, and very good for the environment.

With that, I'd like to just very briefly touch on the history of the Big Stone II project. The existing Big Stone I facility has been in operation So this project is bringing together the three different types of utilities to get a better project. We've got investor-owned, municipals, and cooperatives working together to make a better project.

Now this is a baseload resource that we are proposing. It's not the only resource in these companies' energy mix, but this project we began by looking at the potential sources of energy for this baseload project. We considered wind, but wind is not suitable for a baseload resource. We need something that is there 24 hours a day, seven days a week.

We looked at the next three: Supercritical, atmospheric circulating fluidized bed, and integrated gasification combined cycle, which are really coal-based technologies. Of those, integrated gasification is heard -- you hear a lot in the media today, is not a commercially available technology. It's in the demonstration phase. So we ruled that out as we were not in an experimental mode. We needed commercially available technology.

The final one is combined cycle gas turbine.

I think everyone's aware of what's happening to natural gas prices today and the question on the

since 1975, and it's also a co-owned facility by three investor-owned utilities.

In 1995 Otter Tail began the study of its options for future generation resources, and in that study we came to the conclusion that Big Stone II was our best option for baseload resources and we've continued studies throughout the years until late in 2003 we knew that Otter Tail Power Company had need for baseload resources and we began the process of trying to see if there was the critical mass, so to speak, to do a baseload facilities.

Seven utility companies have come together to propose the Big Stone II project. And as the Petition said, they're Otter Tail Power Company, Heartland Consumers Power District, Montana-Dakota Utilities Company, Southern Minnesota Municipal Power Agency, Missouri River Energy Services, Great River Energy, and Central Minnesota Municipal Power Agency.

I'd like to point out that Otter Tail Power Company and MDU are investor-owned utilities. Heartland Southern Minnesota, Missouri River, and CMMPA are municipal associations, and Great River Energy is a generation transmission cooperative. pricing and availability, we felt that was not a good option. So that brought us back to the two coal options, the advanced -- the atmospheric circulating fluidized bed, and the pulverized coal supercritical boiler. Because of the fuel we're considering burning, Powder River Basin fuel, we felt the supercritical pulverized boiler is better as it is more efficient and better suited for the fuel that we will be burning.

All of my comments are very high-level. The people following will get down into more of the details.

After we had determined the technology, we needed to have a site for this facility, and as we did in 1995 and subsequent studies, we started with an open book and any place that had the right attributes, you know, of the water and the rail and transmission and all of the things to make this project successful were considered. And this study we looked particularly close at these sites, but after we considered all of the attributes needed for a good site for a baseload resource we came to the conclusion that the existing Big Stone I site because of its existing infrastructure, transmission, et cetera, was the best location for

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Now the final thing I'd like to point out, this is a rough map of the service territories of MDU, Otter Tail, and Great River, and the dots representing the communities served by the municipal associations. You'll see the proposed location for the Big Stone II is in the center of this geographical area. The plant will serve the communities and the farms and such that surround it.

This is an ideal setting for the communities that need the power. This is not a facility designed to move power to Chicago or Minneapolis. It's designed to serve the communities and the farms that surround the project.

With that, I will turn it over to Stacie to talk about the need for the facility.

MS. HEBERT: Commissioners, my name is Stacie Hebert. I'm with Otter Tail Power Company. I've been with the utilities for 13 years working in resource planning for 12 of those years, and in the last year and a half I've been working in fuel and freight. I'm a registered mechanical engineer in the State of Minnesota.

Can you hear me okay?

dark blue bars.

On this left-hand access there you'll see zero megawatts along the centerline. Anything above zero means that there is surplus capacity, there's excess capacity. Once you go below that line, you start to have deficits, meaning there's not enough capacity to satisfy the projected need for the MAPP Region.

You can see the MAPP U.S. in the light blue is projected to go deficit starting in 2010 with a 94 megawatt deficit that grows to 819 megawatts in 2011, just under 1,500 megawatts in 2012.

You can also notice that the MAPP Canada portion of the graph in the dark blue doesn't ever go deficit. It's tempting to say, well, why don't we just look north to Canada to help satisfy these resource needs?

Well, there's really two problems with that: Number one, Canada is predominantly a hydroelectric system. They plan for energy needs which a lot of times leads to surplus capacity. So there may be capacity available in Canada, but that may not be backed up with energy.

Secondly, the transmission lines between the United States and Canada are already fully utilized

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The purpose of this portion of the presentation is to talk about why there is a need for the Big Stone II facility. What this map shows, and I want you to focus on the blue states, it's an area called the MAPP Region. MAPP stands for the Midcontinent Area Power Pool.

It's a region where the utilities have joined together to enhance reliability, and it is the region that all of the Big Stone II project participants are located within. One of the services that this MAPP organization provides to the MAPP Region is that it does a survey, and it looks out 10 years to take a look at where we are in terms of forecasted demand and energy needs for the region.

And this is one of the charts that's put together by the MAPP Region. I'll kind of walk you through what this shows so hopefully it will make a little more sense.

On the left-hand side you've got capacity in megawatts. The MAPP Region is actually broken up into two regions. There's MAPP Canada and MAPP U.S.

You've got MAPP U.S. represented in the light blue bars, and MAPP Canada is represented in the

so if we were to look at bringing down -- if there was surplus energy and capacity in Canada, if we wanted to bring it down to the United States, we would have to add significant amounts of transmission. So it's not a real viable option for us to just look north and think that we can solve our resource needs through Canada.

Again, the purpose of this graph is to just point out that the MAPP Region, those blue states, are forecasting to be capacity deficit in 2010.

CHAIRMAN HANSON: Could you stay up towards that so you project more towards the --

MS. HEBERT: The second chart actually talks about energy. On the left-hand side there we show -- this is actually gigawatt hours of energy. And it looks at that same planning period of 2005 through 2013, and it shows a growth rate of approximately 15 percent. We can see a 15 percent increase in the energy requirements for the region from 2005 to 2013.

The energy is what you're probably used to seeing on your electricity bill from your utility. You're billed on a kilowatt hour basis. So this is projecting gigawatt hours, which is one billion of -- a gigawatt hour is a billion watt hours.

amount of energy.

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only capacity, but it also provides a significant

Now I've kind of skipped over this

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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

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

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would likely want to take advantage of that period

VICE CHAIRMAN SAHR: Is there any

when the water levels are the highest.

buy allowances or not.

The level of allowances for the State of South Dakota is 144 pounds. And we would need to stay under that level, or else we would need to go out and buy additional mercury allowances.

VICE CHAIRMAN SAHR: I guess my question is more along the lines of -- I mean, use a lay -- I don't know if it would be a lay term, but what basically is a drop saw?

I mean, with these are they going up in the atmosphere and coming down in rain, or what's going on? I mean, what would be the zone of concern if -- about anything that might be going on through the stacks with the NOx and mercury and SO2?

MR. GRAUMANN: Most of the pollutants in terms of the evaluation process have to be modeled, and some of them would drop out close to the plant. Others might be farther away from the plant.

And we need to meet -- at least as far as the particulate matter, those kinds of things that are modeled specifically for this plant, we need to make sure that we meet all of EPA's air quality standards that are essentially established at the property line for the pollutants.

COMMISSIONER JOHNSON: With regard to the mercury and Big Stone I, currently, I mean, how much mercury is going up the stacks now, pounds per year?

MR. GRAUMANN: In 2004 we reported 189 pounds per year. And we have been up into the 300 pound.

COMMISSIONER JOHNSON: So you're currently purchasing allocations from other states then? The difference between 144 and 189 is being made up with allocations?

MR. GRAUMANN: The requirement to have mercury allowances goes into effect in 2010 at 144 pounds is a requirement in 2010. In 2018 that requirement drops to 58 for the State of South Dakota for their allocation because of the reduction requirements as a part of the Clean Air Mercury Rule.

COMMISSIONER JOHNSON: What is the projected mercury emissions for both plants once they're both on line?

MR. GRAUMANN: Like I mentioned, our target level is the 2004 level.

COMMISSIONER JOHNSON: Okay. 189. MR. GRAUMANN: 189. COMMISSIONER JOHNSON: Okay. CHAIRMAN HANSON: Thank you. MR. LEE: Hi. My name is John Lee.

I'm an engineer from Barr Engineering Company. We're a regional consultant. I have been providing consulting services to the utility industry for over 25 years. And over the last 10 years or so I've been focusing on environmental issues related to power plant siting.

I'm going to review some of the community and environmental information that we've compiled and made an assessment of for the siting permit application.

As far as the environmental impacts, we looked at eight general categories of potential impacts from the project. Those are listed up here, and I'll go through each of them in turn. But in general we found that the impacts from the project will be minimal, and that's primarily because of a lot of things you've heard already, the employment of state-of-the-art technologies for air emissions and other equipment related to the power plant and also because of what Bill Swanson emphasizes, that we're taking advantage of a lot of the existing infrastructure at the current plant.

As far as the physical environment, we looked at the land forms and topography, geology, soils, and economic deposits. Economic deposits refer to gravel pits and sand pits, those types of resources and erosion and sedimentation.

Our conclusions from that assessment was that impacts would be very limited and primarily related to the new water storage pond that Bill talked about earlier that will take an area of about 500 acres and require some grading. That will impact some of the local land forms southwest of the plant but in a very limited area.

We looked at the hydrology issues. We looked at surface water drainage. Again, because most of the activity is taking place in the existing plant site, existing surface water drainage systems will be utilized, and they'll be enhanced where necessary to deal with additional storm water runoff that may occur.

And also as far as water needs for the plant, as Bill mentioned, we'll be -- and questions about the appropriations permit, we will be asking for an amendment to the water appropriations permit that currently allows for appropriation of up to 8,000 acre feet a year from Big Stone Lake.



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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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And then there also have been some

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MR. LEE: There will be no waste

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MR. ROLFES: I'll try and quickly wrap up the project and turn it over to you for questions unless - the schedule for the project going forward, we were in the project development phase early this year and now we've moved into the permitting phase and that's why we're here, of course, is to look at permits.

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And the expectation is that we would complete the permitting effort by the fall of next year and by the fourth quarter in 2006 so that construction contracts could be let. It would be at financial close at that time. When we have all the permits we can go to the banks and get our money, so to speak. So we'd have financial close at the fourth quarter next year so that we could begin construction as early as we can in the spring of 2007

It is a four-year construction period. We would be looking at commercial operation in the -around April 1, 2011. It's a long process, but it's a big project.

The other bar on here that I didn't talk about is engineering, and, of course, there's been some engineering activity for a long time as we did the

this time from Commission members?

VICE CHAIRMAN SAHR: I have a question for Mark. Mark, I think you guys did a good job talking about the energy mix choices or why you picked the plants you did. Can you talk about the needs to bring in baseload plants?

We've kind of gone through a number of years we haven't been out there building baseload plants in this region. And also I think probably a lot of people in the room already understand this, but just talk a little bit about why it makes sense to use coal as a fuel source here and touch a little bit more on that, please.

MR. ROLFES: Quickly, Big Stone I is baseload resource. Big Stone II is intended to be baseload resource. Baseload, like Stacie talked about and I did, that's the power that's there 24 hours a day seven days a week whenever it's needed.

The last major baseload facility to be built in this part of the country was 1987, and that was the Sherco III Unit south of St. Cloud, north of Minneapolis. So since 1987 until now there has not been a unit put into service. So, you know, being Big Stone II is looking at 2011 -- so, I mean,

studies and now the work to support the effort.

That concludes our formal presentation.

CHAIRMAN HANSON: Questions. MR. WELK: I think to conclude the presentation I would like to mark in the record as Exhibit 1A, which is a CD of the Power Point presentation, and 1B, which are the actual slides that were used during the presentation, so we can record what the public and the Commissioners were able to see tonight.

And so I'd ask for that to be admitted as part of the record.

(Exhibits 1A and 1B are marked for identification) CHAIRMAN HANSON: It will be admitted. Thank you.

MR. SMITH: 1A is the exact same

slides that we saw tonight? MR. WELK: Correct. It's an

electronic format. MR. SMITH: Just so you know,

because nothing here was confidential, all of that will be available on the Commission's website so you can have access to it, members of the public, as soon as we get it up and on there. CHAIRMAN HANSON: Any questions at we're way over 20 years without a baseload resource.

Just go back and think what has happened since 1987 to the communities of Sioux Falls and Pierre and Milbank, how much it has grown since that time, how many people now have computers, two refrigerators, three televisions in their home, and it's -- to me as a power professional, it's hard to believe that we've gone this long without a baseload facility.

I really believe our infrastructure is being taxed beyond where it should be. We're relying too much on old inefficient generating sources.

The question on why coal. You know, if you look at our energy mix in this country, almost half of our oil is imported. Natural gas, which, you know, most people use to heat their homes, we're getting more and more of that being imported. It's to the point that almost 20 percent of our natural gas is being imported, and we're using it faster than we're finding it.

Coal is the only domestic resource, fossil fuel resource, that the United States has and has in abundance. So for energy security I think coal has to be a cornerstone of our development.

MR. GRAUMANN: We haven't been doing that. We've started operating that system back in 2000. That was the first time that the system was actively used for extended periods of time. We've been working with that system during that time.

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In the meantime, we've installed some other emission controls equipment, and we're just trying to figure out how to balance all of our plant operation and the testing of that over fire system will be ongoing between now and when we bring the Unit 2 on line.

COMMISSIONER JOHNSON: I thought th 12 group collectively did a good job talking about the fact that emissions will be -- at today's levels are lower.

Have there been any studies, though, about the impacts, environmental, of emissions from Big Stone !?

MR. GRAUMANN: We haven't had any direct environmental impacts on Big Stone I, at least not anything recent. We had an ambient air monitoring station that was set up around the site. In fact, we had operated it for a while, and I believe the South Dakota Department of Environment and Natural Resources operated it for a period of

time. But that equipment I don't believe has been in operation for probably close to 20 to 25 years, something like that.

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.

I can tell you transmission constraints that

we see in this region do limit in Otter Tail's case where we can actually go out and buy capacity in energy. There are transmission constraints that will -- we've had times where we wanted to purchase energy from Canada, and there's a constraint down in Nebraska that makes that -- I'm talking a short-term transaction there but constraints in the transmission system down in Nebraska can cause it -- our transmission request can be denied.

CHAIRMAN HANSON: So there are still hurdles that you face in the transmission.

MS. HEBERT: Certainly. Certainly. CHAIRMAN HANSON: Okay. MS. HEBERT: We see those

transmission constraints on a day-to-day basis. So certainly as we're looking out for a long-term resource, transmission constraints are an issue.

CHAIRMAN HANSON: Thank you. I'm not certain who would prefer to answer the question regarding transmission, but I'm curious on the additional transmission system that you plan to construct, and I recognize a lot of it's not going to be in South Dakota, although we would actually prefer that it be in South Dakota, we'd like to see some excess capacity for wind generation in this

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Could you fill us in a little bit perhaps, 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 would take to get the power generated by a 600 megawatt unit out into the system.

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Scientists, and -- excuse me. Intending to

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questions if you have any concerns.

CHAIRMAN HANSON: Is there any

MS. WHITE: Thank you for allowing

further public testimony, please. You may also ask

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

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

making -- the scrubber and other changes will ensure that the emissions are no greater -- either less than or equal to what is coming out today.

So for SO2, NOX, and mercury the effect on the surrounding area can only be positive from where it is today.

CHAIRMAN HANSON: Thank you very much. Are there further questions or comment at this time? This is not necessarily just opponents by any means. We're interested in hearing what people have to say.

MR. KEEGEL: Commission members, thank you for coming down this evening. It's a long distance to be and a late evening. Concerned members of the community, thank you for taking a few moments here.

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 potential project.

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

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CHAIRMAN HANSON: Thank you. Other questions for were emissions reductions and a desire to see additional emissions reductions and concern for environmental impact outside of the immediate area of the plant.

Could you address that for us, please.

reference is included in the application.

MR. ROLFES: Just to make things as clear as possible, in our presentation we talked about a joint scrubber. What that is is a scrubber that will scrub the emissions from not only the new unit but the existing unit.

And I want everybody to be very clear that the rules and regulations and such in place today do not require that. All we would have to do is build Big Stone II to the standards that are applicable.

We are proposing to make this a better project 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 15 percent of what it is today. We're reducing it by 85 percent.

The other pollutants that people are normally concerned about, nitric oxide and mercury, we're

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 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 that in a very reliable format.

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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89 1 Currently we continue to build those types of 1 Further comment, please. Good evening. 2 reserves in the peaking power facilities where 2 3 we're utilizing natural gas. That we see as a MS. MEYERS: Good evening. My name 3 is Nettie Myers. I'm the President of Utility 4 stopgap to meet our reserves. Our member 4 Shareholders of South Dakota representing over 5 communities also have integral programs for 5 2,000 members of utility shareholders of the 6 integrating wind resources into the community. We 6 7 investor-owned utilities in South Dakota, and we see the potential opportunities from the new 7 wholeheartedly support this project. 8 transmission lines as also contributing to the 8 9 Thank you. further development of those types of resources. 9 10 CHAIRMAN HANSON: Thank you. So on behalf of Public Power what we'd like to 10 Further comment, please. 11 state is that we see this as a very viable 11 12 MR. LIEBE: I'm a local resident. opportunity for providing cost-effective, reliable 12 I'm also a member of the Board of Directors of 13 energy that takes into account the environmental 13 Utility Shareholders. I'm not here in that 14 issues well into the future. 14 capacity. I'm here as a consumer, a shareholder, 15 We anticipate this resource to contribute to 15 and a concerned citizen. 16 the needs of our members, those nonprofit people 16 I am definitely in favor of this project from 17 who elect the boards that direct us well into the 17 the -- I was at the energy seminar that was put on 18 future as much as 50 years. So on behalf of 18 at the PUC in Sioux Falls, and the demonstration of 19 Public Power, that's what we'd like to state. 19 the need for power is great and if we're going to 20 Thank you, folks. 20 expand in our community, farm communities, rural 21 CHAIRMAN HANSON: Thank you. 21 communities are going to grow, I'd like to see 22 Further comment? 22 people pushing for something rather than being 23 MS. WERDEL: Good evening. My name 23 against all the time. We're against this, we're 24 is Nancy Werdel, and I work for Western Area Power 24 25 against that. Administration. The project applicants have come 25 We hear the most efficient electric energy 90 1 to Western for an interconnection request, and as a 9; 1 would be nuclear energy. And yesterday or the day 2 result of that, Western will be preparing an 2 before I heard on TV that the effects of Chernobyl, 3 Environmental Impact Statement under the National 3 the accident that was so great, it was so great, is 4 Environmental Policy Act, which is a federal law 4 actually very minimal. It was a percentage of what 5 for federal projects. And because of their 5 they said it was going to be. And I'd like to see 6 interconnection request this is part of a federal 6 people be in favor of something rather than against 7 project. 7 it, against everything and cause everyone else a 8 I just would like to remind the members of the 8 lot of extra expenses and stuff to get something 9 public who are in attendance and other 9 through that we need for our community, our area, 10 organizations that there are actually five separate 10 to grow economically. And I'm definitely in favor 11 processes that they need to be engaged in for this 11 of this project. 12 project, including the PUC's plant siting process, 12 CHAIRMAN HANSON: Further comment, 13 as well as the State of South Dakota's transmission 13 14 please. siting process. And the State of Minnesota has two 14 COMMISSIONER JOHNSON: If you 15 processes for their certificate in need and also 15 gentlemen are the Three Musketeers, we're the 16 high voltage transmission project. 16 Three Stooges. 17 Some of those are in various stages of the 17 MR. PETERSON: For those of you who 18 permit processes, and please make sure that you 18 don't know, I'll begin because I'm the senior 19 engage in all of those processes so that you can 19 member of this group. I'm Jim Peterson, State 20 provide your comments. 20 Senator, District 4. We want to welcome our PUC 21 And Western has a website where we will be 21 people. It's great to have you here. We really 122 providing information on the EIS at www.wapa.gov, 22 appreciate it. 23 and look under the interconnection projects. 23 And I just have to welcome Chris Madsen back. 24 That's all. Thank you. 24 Chris and I sat one chair apart my first year in 25 CHAIRMAN HANSON: Thank you, Nancy. 25 the house, and I really respect that gentleman. I PRECISION REPORTING, LTD. (605) 945-0573 548 Page 89 to Page 92

You know, when we looked at this during the legislative session there were a couple of things that we were looking at. One was the economic development, and everybody has heard about the economic impact to the community. You've heard about the jobs. You've heard about the workers that are going to come in, how it's going to benefit the restaurants and everything else.

Tonight you heard about a potential development that can occur from Milbank and for 40 miles south. We have the Coteau Hills running through Grant County, Deuel County down into Brookings County, one of the prime wind areas of South Dakota. Mark told you that this is being overbuilt going south. There's a tremendous potential. Every megawatt of wind costs about \$1.3 million dollars. A lot of farmers down in Deuel County are really excited about maybe being able to add wind generation on.

Another thing that we looked at was the environmental impact. And Mark explained tonight about how this is going to be a win-win situation

opportunity for the largest private construction project in the State of South Dakota, \$1 billion. And the revenue that that's going to generate for all of us in the state and the ones that are our neighboring states at least through the construction, just a great opportunity for us.

And Senator Peterson's right. Environmentally we looked at all of those things, and we just couldn't see where it was a lose situation.

Is there some downsides in big construction projects and a bunch of strangers coming in? Yeah, there is. But we did it 25, 30 years ago, and they've been a great neighbor for 30 years. They've been active in our communities, and they have treated us well.

They've continued to put money in that plant when the EPA and those things haven't required them to do so because they want to be a good neighbor. They want to run a good facility. We're glad to have them as a neighbor. We're here to support the project and give them whatever help we can from our roles and give our constituents what I think we all want and that's growth in our areas and a more sound economy. Thank you.

MR. STREET: I concur with the

for our district, for our area, because the total emissions from both plants will be less than the current plant. The nitrous oxides, the sulfur dioxide, mercury, it's all going to be less.

It's a win-win deal. It had tremendous legislative support. There was almost unanimous support for the incentive bills that we came up with. And we feel it's great for the community. We feel that Otter Tail has been a tremendous asset, and we really want to see this project go forward.

I'll let the other guys speak. Go ahead, Val.

MR. RAUSCH: Get in between those
two Democrats. They do look out for me. It's a
wonderful working relationship that we have as
Representatives of District 4 in the Senate and the
House, and Senator Peterson is absolutely correct.
It almost was complete unanimous. Statewide
looking at this type of project, at the
opportunities to bring more people into our state,
not just to work, some will come to live, but just
a -- in the future an extra value added to our
property.

We always think of we're an ag state. We're an ag state, but we finally have another

gentlemen's statements. I speak as a neighbor. I live 18 miles south of the existing facility. My role as a state legislator, we've supported this project. I'd like to go on record as congratulating Mark Rolfes and his crew doing a wonderful job of creating a plan for a very environmentally friendly electrical plant. They've done a great job.

Really the relationship I can speak most about is our representing Northern Lights Ethanol. We exist on the property of Big Stone I. We lease our land from them. We've been in business with them for six years now. Over the course of those years, of course, we've run into some problems. And it's solving those problems -- that's where they really shine. The utmost professionalism when you have problems with them -- not with them, but when problems creep up they get solved in a very professional manner, and I think that speaks well of both parties. It's just been a good relationship.

And I'd just like to go on record again as congratulating Otter Tail for doing a wonderful job, Mark, and the rest of you. Way to go.
CHAIRMAN HANSON: Thank you.

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going on here.

We intend to move back. I have a home there, I

have land there, and I have an interest in what's

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On the mercury, correct me if I'm wrong.

please. I heard you say we would be at the same or

presentation:

Case Compress 101 103 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 was already -- it would further impair it. And 10 older plants operate at 4 to 13 times higher than 10 when it's listed as being impaired certain projects 11 the new required emissions for the plants that were 11 that would add to the pollution to it are not 12 not grandfathered in. So will we still be above 12 allowed to continue. That would need to be looked 13 the new guidelines if we are operating at 2004 13 at. Big Stone, Little Minnesota, potential rivers 14 levels? 14 coming out from there. And it has to be more than 15 MR. GRAUMANN: Your understanding of 15 just the adjacent. It's at least a 50-mile radius. 16 that isn't entirely correct. When EPA developed 16 The other one would be the job curve that you 17 the new mercury rules in 2005, March of 2005, they 17 showed for the Big Stone Plant. And we do need 18 did actually two things. They established emission 18 jobs. We do need development. Any of you who have 19 rates for mercury for new plants. They also 19 not been down to the Lake Benton area and seen what 20 established the national cap and trade system for 20 has happened to the local economy, the community 21 mercury. And they allocated allowances to each of 21 down there, I urge you to take a look at that and 22 the states as a part of that particular process. 22 see what has happened with the wind power 23 South Dakota's allocation is about 144 pounds 23 development down there. 24 based on the standards for beginning in 2010. And 24 The job curve that you showed went up and 25 in 2018 that drops to 58. 25 down, the bell curve; correct? I would like the 102 104 1 And so in absence of any controlled 1 Commission to consider and to be part of this 2 technologies, Big Stone I would have a choice of 2 study, economic impact. I have a guess that the 3 either, one, buying allowances, or, two, scrubbing 3 job curve for the wind development potential would 4 or doing something to reduce the mercury emissions 4 be a curve up and it would plateau and keep up. 5 down to those levels because we -- that cap would 5 We heard from the tour that for every one to 6 apply then to our particular units. We couldn't do 6 20 turbines there's at least three jobs and there's 7 anything, we couldn't emit anymore mercury than the 7 hundreds -- we have the potential for thousands of 8 cap would allow, otherwise we'd be in violation of windmills across South Dakota and a development and 8 9 the rules. 9 sustainability of jobs. 10 And so there is an apples and oranges 10 I have many other things. I thank you for 11 comparison, but to say that Big Stone I is not 11 your time, though. Most of the other comments and 12 going to be controlled, that's incorrect because 12 concerns I have as a citizen and as Clean Water 13 they will need to meet the new mercury levels 13 Action are in the written comments we submitted. 14 either by buying extra allowances above the 144 or 14 CHAIRMAN HANSON: Thank you, 15 doing something to get down to the 144, if the 15 Mary Joe. And we will mark those as Exhibits 3A 16 allowances are all distributed to Big Stone I. And 16 and 3B, 3C. 17 that's not our decision. That will be the State of 17 (Exhibits 3A through 3C are marked for identification) 18 South Dakota's. 18 COMMISSIONER JOHNSON: For anybody 19 MS. STUEVE: It will be contingent 19 in the audience that just because you don't take an 20 on the decision. 20 opportunity to speak tonight doesn't mean this is 21 (Discussion off the record) 21 your last opportunity for input. Certainly we 22 CHAIRMAN HANSON: Please, go ahead. 22 would welcome written comments at the Commission as 23 MS. STUEVE: Okay. Another concern 23 well. That's it. 24 and something I would like to be considered, total 24 CHAIRMAN HANSON: Thank you. And, 25 maximum daily load, TMLD. I'm certain South Dakota 25 Nancy from WAPA, would you please make an attempt, PRECISION REPORTING, LTD. (605) 945-0573

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

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