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DEPARTMENT OF ENVIRONMENTAL LANSING	. QUI	LITY
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ENVIR. APPEALS BOARD

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FAX TRANSMITTAL

DATE SENT: <u>9 - 9 - 08</u>

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TO:	Eurika	Durr	

COMPANY/DIVISION: EPA Env. Appends Board

PHONE: 202-233-0110 FAX: 202-233-0121

FROM: V. Plummer

PHONE: 517-341-7394 FAX: 517-341-7301

COMMENTS:

Per your conversation with M.B. Thelen



NTH Consultants, Ltd.

Infrastructure Engineering and Environmental Services CECEI Lansing, MI 48933 U.S. E. 512,484,6900 517,485.8323 Fax

202 SEP 13 AN 8: 43 September 18, 2007 CIMUR. APPEAL NEL Project No. 16-060504

Mr. David Riddle Senior Environmental Engineer Michigan Dept. of Environmental Quality AQD - Thermal Process Unit P.O. Box 30260 Lansing, MI 48909

RECEIVED SEP 2 1 2007 AIR QUALITY DIV.

RE: Addendum to Application No. 60-07 to Update SO₂ Emission Limit Northern Michigan University – Ripley Heating Plant

Dear Mr. Riddle:

Northern Michigan University (NMU) submitted an application for an air use permit on February 5, 2007 as part of their proposed project to install a new solid fuel-fired circulating fluidized bed (CFB) boiler at the Ripley Heating Plant. The primary fuel for this boiler will be virgin wood waste. However, for fuel stability and financial concerns, the CFB will also be capable of utilizing coal as fuel.

In the original application, NMU proposed an SO₂ emission limit of 0.478 lb/MMBtu based on using 3.5% S coal utilizing in-situ flue gas desulfurization (FGD) with direct limestone injection into CFB boiler combustion zone. Using in-situ FGD processes has been shown at effectively reducing SO₂ emissions by 90%. The 3.5% S coal was based upon a wide-range of fuel suppliers. Since the time of the application, NMU has determined that it can secure shipments of coal with sulfur content not greater than 1.5%.

The in-situ FGD system will be capable of removing between 91% and 92% of the SO₂ formed inside the boiler. Assuming 91.5% removal efficiency from 1.5% S coal will yield SO₂ emissions of 0.20 lb/MMBtu. This emission limit is consistent with 40 CFR 60.42(b) and also with other recently issued permits for CFB boilers much larger than the estimated 10 MW unit proposed by NMU.

BEST AVAILABLE CONTROL TECHNOLOGY (BACT) ANALYSIS FOR SO2

I have reviewed the RACT/BACT/LAER Clearinghouse (RBLC) as well as the power plant spreadsheet that U.S. EPA Region 7 maintains to compare this newly proposed SO₂ emission limit of 0.20 lb/MMBtu with other recent BACT limits for CFB boilers. I have included an updated summary of the RBLC as an attachment to this letter but have also summarized some of the recently issued permits below.

Cargill, Inc. (Blair, NE)

Cargill, Inc. received permit number CP06-0008 for the construction of a new Wet Corn Milling and Ethanol Production Facility in August 2007 and includes a new 1,500 MMBtu/hr coal-fired CFB boiler. The SO2 limit contained in this permit is defined as 0.11 - 0.20 lb/MMBtu based upon sulfur content of the fuel. Cargill is permitted to burn fuel with an uncontrolled SO₂



Mr. David Riddle September 18, 2007

emission limit ranging from 2.0 lb/MMbtu to 1.1 lb/MMBtu. Based on the calculation provided in the permit to use for determining the SO2 emissions, Cargill is permitted to burn up to coal with a sulfur content of 1.25%. Additionally, Cargill is using limestone injection to achieve an SO₂ control efficiency of 90%.

NEVCO Energy Company, LLC (Sigurd, UT)

NEVCO Energy Company, LLC received permit number DAQE-AN2529001-04 on October 12, 2004 for the construction of a new 270 MW (2,531.5 MMBtu/hr) CFB boiler. The boiler will utilize low sulfur (0.25% - 0.9%) coal and include limestone injection control of SO₂ emissions and a spray dryer for trimming and acid gas control. Specifically, the BACT analysis was designed around 0.4% sulfur coal and 0.022 lb/MMBtu for a 30-day rolling compliance period and 0.9% sulfur coal and 0.05 lb/MMBtu for a 24-hour average.

Therefore, to meet a SO₂ limit of 0.022 lb/MMBtu with 0.4% S coal and 0.05 lb/MMBtu with 0.9% S coal equates to 96.5% control with the performance coal specified in the application. This level of control on low sulfur coal is extremely aggressive and few, if any, vendors would guarantee such high removal rates.

Red Trail Energy, LLC - Richardton Plant (Richardton, IA)

Red Trail Energy, LLC received permit number PTC04004 for a com-based ethanol production facility with a coal-fired CFB boiler. The CFB boiler is to be fired primarily on lignite with subbituminous coal allowed as well. Lignite has a lower sulfur content as compared to many other ranks of coals. Specifically, the sulfur content of the lignite proposed for this project will be 0.808%. RTE has proposed both limestone injection and a spray dry absorber. However, the BACT analysis for this project states that BACT for lignite boilers is 0.25 lb/MMBtu but this the boiler will meet an SO₂ emission limit of 0.09 lb/MMBtu.

The SO₂ emission limit was calculated assuming 1.2% S in coal with uncontrolled emissions at 3.55 lb/MMBtu. This is equivalent to a heating value of approximately 6,900 Btu/lb. Further, RTE is assuming that the limestone injection technology will only control SO₂ emissions to a level of 75%, or 0.87 lb/MMBtu and that the spray dryer will deliver an additional 90% control of the remaining SO₂. In summary, RTE is assuming that the combination of limestone injection into the boiler with an add-on spray dryer will deliver an SO₂ control of 97.5% for low sulfur lignite. Based on recent discussions with vendors and other vendor guarantees, this level of control for SO₂ emissions is unlikely.

Included with this letter is an updated emission spreadsheet that has only been changed to reflect the new proposed bituminous coal. Note that the bituminous coal proposed has a sulfur content of 1.5% at 12,500 Btu/lb. This is because it is expected that the coal will come from the Marquette Board of Light and Power with We Energies Presque Isle facility as a backup supplier.

We have reviewed the option of including an add-on technology to further control emissions of SO_2 . Specifically, the use of a lime spray dryer upstream of the fabric filter. It is expected that the lime spray dryer could remove an additional 40% of the SO_2 remaining in the flue gas to a level of 0.12 lb/MMBtu. I have also included the cost effectiveness spreadsheet for a spray dryer that shows a cost of \$15,980 per ton to control SO_2 to 0.12 lb/MMBtu, which is much higher than recent BACT cost-effectiveness determinations of \$7,500 per ton. The cost effectiveness

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Mr. David Riddle September 18, 2007

recent BACT cost-effectiveness determinations of \$7,500 per ton. The cost effectiveness represents the incremental cost to get from 0.20 lb/MMBtu to 0.12 lb/MMBtu, which would represent 95% control for SO₂. However, it is unlikely that any SDA vendor would guarantee an additional 40% removal of SO₂ above the 92% removal that will be obtained through the use of limestone injection.

Should you have any questions regarding the information presented, please do not hesitate to contact me.

Sincerely,

NTH Consultants, Ltd.

Jeffrey P. Jaros Project Manager

cc: Mr. Mike Hellman, Northern Michigan University Mr. Steve Yambor, Cummins & Barnard, Inc. Mr. Randy Russell, Cummins & Barnard, Inc.

Enclosures

JPJ/mib

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NMU Control Technology Cost Basis for Spray Dryer for SO₂ Control 10 MW Circulating Fluidized Bed (CFB) Botler

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DIRECT CAPITAL INVESTMENTS (DCI)	Buildings Site Preparation Installation Cost Purchased Equipment Takes TOTAL DCI	8% on 60% of buildings and foundations	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$00,000.00 200,000.00 3,000,000.00 1,750,000.00 15,000.00 5,465,000.00
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ID THE CHPTTHE INVESTMENT (ICI)			\$	6,215,000.00
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	- Operator	·		
	- Operator - Supervisory	1 operators @ \$65,000/year	\$	65,000.00
	- Supervisory - Maintenance	20% of Operator Labor Cost	5	13.000.00
	- Maintenance Materials	1 (schniclans 없 \$40.000/year	\$	40,000.00
			•	
	- Maintenance Materials		\$	
	- Reagent (Lime)	\$60.00 per ton	\$	1,600.00
	- Limestone - Water		\$ \$	-
	Utilities			-
· . ·	- Electricity	1 NW/hr	· e	10 000 00
,	- Fuel	3 DAVAAUL	\$	10,000.00
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	- Pressure Drop	, 	5	-
	- Waste Disposal TOTAL DOC	13.33 per ion	<u> </u>	400.000
			5	129,800.00
INDIRECT OPERATING COSTS (IOC)				
	Overhead	60% of Operator labor & Maintenance	5	70,600.00
	Property Taxes	1% of TCi	\$	62,150.00
	Insurance	1% of TCI	S	62,150.00
	Administrative Charges	2% of TCl	\$	124,300.00
	Capital Recovery	20 years; 7% interest = 0.0944 CRF	\$	666,696.00
	TOTAL IOC		ş	806,096.00
RECOVERY CREDITS (RC)			-	
	Materials Energy		S	-
	TOTAL RC			·····
			\$	•
TOTAL ANNUALIZED COSTS (TAC)	DOC + IOC - RC		\$	1,035,896.00
SO2 EMISSIONS	Uncontrolled	0.20 ID/MMSIU		162.06
	Controlled	0.12 Io/MMB(u		97.24
	TOTAL REDUCTION			64.82
	Cost-Effectivness	S per ton of SO ₂ removed	\$	15,980.13

Sep. 9. 2008 5:02PM



Michigan Dept of Environmental Quality Attn: Ms. Mary Ann Dolehanty, Supervisor

AQD - Thermal Process Unit

February 5, 2007

No. 1941 P. 6

Facilities Department Facilities Specialist/Planner 1401 Presque Isle Avenue Marquette, MI 49855-5301 906 227-2025 FAX: 906 227-2467

RECEIVED

FEB 0 5 2007

AIR QUALITY DIV.

SUBJECT: Permit to Install Application for a New Circulating Fluidized Bed Boiler Northern Michigan University – Ripley Heating Plant

Dear Ms. Dolehanty:

P.O. Box 30260

Lansing, MI 48909

Enclosed is a Permit to Install Application for the proposed installation of a new solid fuel-fired circulating fluidized bed (CFB) boiler at the Northern Michigan University (NMU) – Ripley Heating Plant. In support of the Governor's 21st Century Energy Plan, this project will be designed to allow operation on Renewable Resources (specifically wood chips) up to 100% of the total heat input, with the capability to operate on subbituminous coal, and natural gas if the Renewable Resource fuel is unavailable or not economically feasible. The application requests that all fuels be allowed up to a possible 100% of the total heat input into the boiler. It is anticipated that NMU may blend these solid fuels as needed, to support the heat input required with the Renewable Resource fuel given preference whenever feasible. Natural gas is only intended to be used for startup, shutdown, and backup purposes.

NMU recently received PTI 126-05 for two (2) new oil/gas fired boilers. Since NMU is proposing to install the new solid fuel boiler within the contemporaneous period, we have included these boilers in the analysis for the new CFB. Based on our analysis, the facility will continue to comply with all applicable standards. In addition, we have provided correspondence from the U.S. Fish & Wildlife Service regarding the impacts to endangered species.

We authorize Mr. Jeffrey P. Jaros of NTH Consultants, Ltd., to serve as our agent in responding to your questions concerning this application and to negotiate the conditions for the revised permit. Should you have any questions concerning the application, please contact Mr. Jaros at (517) 484-6900.

Sincerely yours, NORTHERN MICHIGAN UNIVERSITY

Hellun

Michael G. Hellman, Facilities Specialist/Planner

MGH:kag

 cc: Jeff Jaros, NTH Consultants, Ltd.
Randy Russell, P.E., Cummins & Barnard, Inc.
Carl S. Pace, Assoc. VP Facilities & Business Services - NMU Kathy Richards, Director of Engineering & Planning - NMU Robert Ryan, Project Manager - NMU Sep. 9. 2008 5:03PM

TABLE B.S. MOXMUM

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