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June 4, 2019

VIA EMAIL (matthewa.thompson@wisconsin.gov) AND U.S. MAIL

Mr. Matt A. Thompson Hydrogeologist – Remediation & Redevelopment Program Wisconsin Department of Natural Resources 1300 West Clairemont Avenue Eau Claire, WI 54701

Re:

Request for Information Related to Wood Waste Burning Wauleco Site, 125 Rosecrans Street, Wausau, WI 54401

BRRTS #02-37-000006

Dear Mr. Thompson:

On behalf of Wauleco, Inc., this supplements Wauleco's March 15, 2019 response to the Department's January 15, 2019 request for information related to wood waste burning. Wauleco has discovered additional documents in its historical files that would appear to be responsive. The documents are enclosed bearing bates stamps WCO-WW000343 to WCO-WW000346, supplementing Wauleco's prior document production. We have reviewed these documents and believe that they confirm and do not alter the positions asserted in our March 15, 2019 response.

Please let me know if you have any questions.

Very truly yours

MICHAEL BEST & FRIEDRICH LLP

David A. Crass

Enclosures

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December 30 1972

Thomas & Franços, Administrator, Division of Environmental Protection State of Wisconsin Department of Natural Resources Box 450 Madison, WI 53701

Reference 4530

- Of This progress report is submitted in compliance with Order Number (A-72-037-10, Reference 4530 Crestline/Neuseu SIC 2430.
- G2 For record, Crestine fires 2 boilers as prime heat and humidity sources, neither used in industrial processes.
 - a Supplemental boiler #1 (Frost 1915 type MRT 72", Wis B-8062) ms topic of DNR order has been used to incinerate wood process by-product waste, is necessary to supplement heating of #2 boiler in cold weather. Per prior submissions, the company intended to came wood waste incineration in tayor of natural gas tueting.
 - b Boiler #2 is natural gas fired conversion of presumed coal fired locomotive boiler (Titusville 1959 type FT Loco 84" and NB6327, Wim B-8063).
 - a Bollers are used for building heat and humidity and not for any process, turbine, generators or power sources. Boller use is seasonal, fall and Spring demands met with single #2 boller gas fired. The #1 boller is standby except Winter, where need exists to meet working conditions as co- and supplement to #2 unit.
- 03 Waste disposal has been evaluated and some new procedures effected to reduce general waste to the "incinerator" boiler.

1972 Wood Waste Disposal Approximated:

4200 Tons shavings sold via boxcar for recycle

5880 Tons chips sold via boxcer for recycle

1440 Tons sawdust sold via boxcar for recycle

1260 Tons combustible waste routed to municipal dump

78 Tons wood block fueled in #1 boller

O4 Crestline has and is modifying industrial processes to improve production and processes, mindful of the Occupational, Safety and Health Act, DNR emission (NR 154.11), and DLURR safety and finish criteria (Ind 20 Dusta, Fumes, Vapors and Gases, and 21 Spray Coating) to generally improve waste problem and reduce emissions.

a Soller #2 converted from waste to natural gas circa November 1970. Wastes to boller #2 rerouted to municipal dump and to resale, and some of #1 waste fuel diverted to municipal dump and to waste sale for recycle.

Wood wastes are now principally disposed by sale via ralicar to manufacturers of core and chip board, where wastes are prime filler material. Two new storage allos were erected by December 1971 for interim storage of wood waste, most particularly as interceptors during railroad boxcar switching operations.

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No

- O4 c By June 31 1972, wood dust and waste from machining was substantially collected per ind 20 in dust systems and extracted via cyclone separators.

 Sawdust, wood chip and wood shaving waste is now processed via dust systems to boxcars for sale recycle and reuse as practical and core material in flat panel productions.
 - d Wood crating and cartoning is now trucked to Wausaus municipal (private contracted) landtill site.
 - The minimum garbage from self lunch and vending machines, and the office paper waste is likewise trucked to the municipal dump.
 - f Other saydust westes from spillage, boxest leaks and miscellaneous sources are trucked to municipal dump.
 - g The second intended wood hog to chip cut-offs and remnants has not yet been selected, decision waiting evaluation of "hog" blades that would waste cut off through the new dust system, reduction in waste generation, and the reconsideration of sorted woods as an alternate fuel mindful of current gas fuel limitations. The present wood hog can chip waste block stock off-production if quantity is controlled. A hopper added for batch and controlled introduction together with cutting reductions may suffice.
- 05 Humber I boller operations have been interim modified to effect emission reductions.
 - a Number I boiler is presently continued but limited to solid wood block cuttings and remnants as tuel without the fines, soudust, shavings or chips. Segregation and other deposition of wood dust, this and shavings from wood solid block remnants for wood fuel has reduced objectionable emission particles.
 - (1) The assumption is sawdust particles surface and incompletely burn, are air borne to produce soot particles.
 - (2) The solid wood blocks burn without appreciable visual notice from chimney.
 - (3) Former manual batch firing of combined weates apparently "exploded" some particles in etmosphere before sensible combustion. Care in kindling and tuel introduction has materially reduced problem contribution. (A mechanical continual fuel feed may further improve wood waste combustion if reconsidered as tuel).
 - b Consideration of wood block solid fuel, on improved grating, with forced air supplement, and mechanical feed as standby fuel (per NR 154-16) may be warranted by current gas fuel restrictions and limitations. Mindful of emission reduction by fuel quality, and further potential improvements in return and forced exidation, continuation of solid wood fuel may be feesible and reasonable, and the outstanding order setitioned for modification.
 - e Wood weste quantity burned has been reduced from continual operations to careful batch firing during one 8 hour shift daily, 5 days per week of the heating season. Five (5) cubic foot scrap carts dump wood weste (at 28 PCF) (150 pounds each cart) 8 hours for 1200pound per day. 26 week operation at 5 days/week at
 - d Complete conversion of #1 boiler to gas fuel predicted in prior reports and submissions can be effected by July 1 1973. The wood waste now burned can be wasted via municipal landfill and recycled through the improved dust and waste systems. Since the boiler is aged (1915), particle emission controlled within prescribed limits can be effected with operations and supplements, the boiler is both standby and critical weather supplement, and there is criticism of gas dependency, intended conversion is now questioned.

- Several manufacturers have been consulted regarding
 - (1) Stack after-burners to wood fueling (not desired as second burner contributes no usable heat).
 - (2) Boller modification to effect a second or repass of wood burnings through gas fired combustion chamber (gas as prime fuel).
 - (3) Complete conversion of #1 boiler to natural gas (reservations considering
 - potential gas shortages and ultimate use as stendby unit).

 (4) Phase out of #1 bolier in ileu of unit gas fired heaters, especially makeup, scattered throughout plant (course initiated, but comprehensive program not evaluated) (see per 6).
- Of Creetline is developing an alternate to any use of #1 boller except as standay by effecting make-up air compilances with individual gas units to meet DILHR and OSHA standards.
 - Creatilise purchased for scattered area installation circa January I 1973. S one fired make-up air heaters, each rated at 350MStuh input, four to meet apray booth exhaust demands. All were specified indirect fired with dust-ducts for alternate use as unit heaters and to supplement either boiler in crisis.
 - b Creatilnes Insurance carrier, Lumbermans Underwriting Alliance (LUA), limits consideration of recycled air through bag filters or like. Improvements in filtering for recycle may reduce heating load and need for second boiler (#1), except standby. Alternate consideration is pursued as equipment also conserves fuel and effects unfired emission reduction.
- 07 To sum. Creatline has appreciably reduced quantity of wood waste burned in favor of recycle through sain, and by conversion prime heating boller to natural gas. Secondly Greatline new burns only wood block by-product in limited quantity as solid wood fuel in second boller, reducing particle emission by quantity and quality of burnings, probably now within legal limits. Make-up equipment and water based paint process driers are being developed to supplement prime boller, so ultimate and sensible use of #1 boller is standby; and as standby wood fuel fired within environmental limits is most desirable.

Plent Engineer heat

ce: Vilas Sonntag, VP



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

L. P. Voigt Secretary

January 10, 1973

BOX 450 MADISON, WISCONSIN 59701

IN REPLY REFER TO: 4530

Mr. Vilas Sonntog Crestline 910 Cleveland Avenue Wausau, Wisconsin 54401

Dear Mr. Sonntog:

Thank you for your progress report of December 30, 1972 which satisfies

Order provision 1 of special Order 1A-72-037-10.

Very truly yours, Bureau of Air Pollution Control and Solid Waste Disposal

John H. Torke, Engineer Air Pollution Control Section

JHT:nys

cc: Dale Urso

North Central District