

ITEM SUPPLEMENTARY 19
MANAGER'S REPORT NO. 75
COUNCIL MEETING 85/11/25

Re: LETTER FROM MRS. ELIZABETH ELWOOD WHICH APPEARS ON THE AGENDA FOR THE
1985 NOVEMBER 25 COUNCIL MEETING (Item 4g) BURNABY INCINERATOR

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT a copy of this report be sent to Mrs. Elizabeth Elwood,
8134 14th Avenue, Burnaby, B. C., V3N 2B8.

REPORT

1. Question

What will be the total cost of the operation with (a) two units?
(b) three units?

Reply

Annual operating cost: (a) 2 units \$3,313,700
(b) 3 units \$4,549,200

2. Question

How will the cost of burning and disposal costs of ash balance against
the payments from Belkin for steam?

Reply

The revenue from steam sales almost offsets the annual operating cost
of the plant.

3. Question

What quantity of steam is guaranteed to Belkin to maintain our
contract with them?

Reply

The District will sell all the steam produced from the 2 line plant,
over and above in-plant requirements, to Belkin. When the third line
is approved the steam sale agreement will be amended.

4. Question

What will Belkin pay per 1000 lbs. of steam?

Reply

\$10.

5. Question

What would the operation of the incinerator cost us if the Belkin
industry were to fail?

Reply

If no revenue from the sale of steam were possible, the annual
operating cost of the plant would be as noted in reply #1.

6. Question

What actual percentage of garbage collected would be combustible
material? (Material that does not require a secondary fuel.)

Reply

The plant will burn primary household refuse, approximately 80 percent
combustible. The burning process requires no secondary fuel.

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7. Question

Will there be a separation process to ensure that non-combustibles do not go through the furnace? (Non combustible material absorbs heat.)

Reply

Large non-combustible items will be separated and set aside for alternative disposal by the crane operator.

8. Question

How much could Burnaby's 55,000 Tonnes per year of garbage be reduced by the implementing of further recycling programs?

Reply

The District's initial goal is to reduce it by 10 percent or 5,500 tonnes per annum.

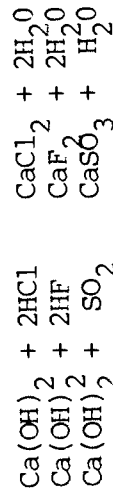
9. Question

It is my understanding that scrubbing is a chemical process that converts gaseous materials to particular matter. What solutions are being utilized in the scrubbing process and what are the chemical equations resulting from this process?

Reply

The acidic gases are neutralized by the infusion of an alkaline substance such as lime.

The basic chemical equations for removal of the acidic gases hydrogen chloride (HCl), hydrogen fluoride (HF) and sulphur dioxide (SO₂) are:



10. Question

What additional technology is in effect to cope with the sub-micron particulate matter that ingests into people's lungs?

Reply

The sub-micron particles are removed by the scrubbing process to below regulatory limits.

11. Question

At what height will the stack release flue gas to the atmosphere?

Reply

60 meters.

12. Question

What will be the temperature of the flue gas emitting from the stack? Will this temperature be sufficient to ensure that flue gas will not descend to ground level during winter months?

Reply

A minimum of 130°C. Enciromental Sciences Ltd. have conducted an air dispersal study to determine the ambient air concentrations of emissions from the plant. Their conclusion is that these levels will be only 10 percent of regulatory permissible limits as set in B. C. and Ontario.

13. Question

What routes will the 90 (or 135) garbage trucks take to get to and from Marine Way?

Reply

Delivery vehicles will arrive from both directions on Marine Way and will then use Marshland and Wiggins to get to the incinerator. Arrangements have already been finalized to assure that all twelve of Burnaby's garbage trucks will utilize Boundary Road and Stride Avenue to gain access to Marine Way. In this way, there should be no basis for complaint of trucks using internal local or even collector residential streets to reach the incinerator. It is intended to request all private haulers to abide by the same "rules" that apply to Burnaby's own trucks.

It should be noted that the figure of 135 trucks per day pertaining to the 210,000 tonne per annum incinerator has now been revised downward by the GVS & DD to approximately 85 trucks per day following a review of actual tonnages of refuse being carried by garbage trucks.

14. Question

Who will pay for the upgrading of Marshland Avenue so that it can cope with the increased truck traffic?

Reply

Marshland will not have to be upgraded due specifically to traffic coming to the incinerator.

15. Question

Where will the refuse from the incinerator be taken?

Reply

To the Coquitlam, Port Mann and Burns Bog landfill sites.

16. Question

Will the incinerator result in increased pressure for new road development through our community?

Reply

No because the answer given to question #13 will confine vehicles to major municipal arterials such as Boundary Road and Marine Way.

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