

From: Johnston, Chris
To: ["Anderson, Mark";](#)
Subject: RE: FW: Flue gas emissions of MDF pellets
Date: 12 December 2015 18:22:00

Irrelevant information redacted
by the RHI Inquiry

Chris Johnston
Tel:- 02892681540
email:- chris.johnston@afbini.gov.uk

From: Anderson, Mark [<mailto:m.anderson@ulster.ac.uk>]
Sent: 12 December 2015 17:53
To: Johnston, Chris
Subject: RE: FW: Flue gas emissions of MDF pellets

Irrelevant information redacted by the RHI
Inquiry

Regards
Mark Anderson

From phone

On 12 Dec 2015 5:46 pm, "Johnston, Chris" <Chris.Johnston@afbini.gov.uk> wrote:

No not a partner - the material can come in under hegan or whoever.....

A way to do the work, get paid for it and add to the overall outputs and reach of SUBB.

Irrelevant information redacted by the RHI Inquiry

Chris Johnston

[Tel:- 02892681540](tel:02892681540)

email:- chris.johnston@afbini.gov.uk

From: Anderson, Mark [<mailto:m.anderson@ulster.ac.uk>]
Sent: 12 December 2015 17:45
To: Johnston, Chris
Subject: Re: FW: Flue gas emissions of MDF pellets

If you want but not a partner!!

Regards
Mark Anderson

From phone

On 12 Dec 2015 5:43 pm, "Johnston, Chris" <Chris.Johnston@afbini.gov.uk> wrote:

Hi Mark

Please see below. I think the hurdle is the RHI NOx which she isn't considering and from what you say there is no chance of emissions passing the rhi limits !

It would be interesting to analyse a few batches within SUBB however would you not think?

Talk soon

Regards

Chris

Chris Johnston

Tel:- 02892681540

email:- chris.johnston@afbini.gov.uk

From: Anne McLaughlin [<mailto:annemclaughlin@bacomponents.co.uk>]

Sent: 11 December 2015 08:50

To: Johnston, Chris

Subject: RE: Flue gas emissions of MDF pellets

Hi Chris

We currently burn our own wood waste to heat our factory & provide hot water, but have excess,

which is why we're also looking at commercial MDF pelletisation.

So we already have a PPC Permit issued by Cookstown District Council, and have annual emission inspections & testing carried out by an independent body.

Annual Emission testing carried out on our boiler stack includes:

Total particulate matter

Total VOCs

Combustion flue gases (CO, NO_x, SO₂)

Hydrogen Cyanide

Formaldehyde

We know that our MDF waste product already meets the PPC emission requirements; but I'm not sure if this excludes us from WID, or if WID requirements are indeed stricter than PPC? I need to look into this further.

Or if the pelletisation process will change the MDF composition, also changing the emissions?

I thought that at least if we had some emission testing done on our pellets, it would lead us closer to answering these questions. What do you think?

Regards

Anne McLaughlin
Business Improvement Manager

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BA Components

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From: Johnston, Chris [<mailto:Chris.Johnston@afbini.gov.uk>]

Sent: 08 December 2015 18:13

To: Anne McLaughlin

Subject: RE: Flue gas emissions of MDF pellets

Hi Anne,

I have been asking around and there is a concern that the resins are likely to raise the N content to such a degree that they will fall outside fuel spec and likely need WID? Have you looked into this?

Regards

Chris

Chris Johnston

Tel:- 02892681540

email:- chris.johnston@afbini.gov.uk

From: Anne McLaughlin [<mailto:annemclaughlin@bacomponents.co.uk>]

Sent: 08 December 2015 12:59

To: Johnston, Chris

Subject: RE: Flue gas emissions of MDF pellets

Hi Chris

Sorry it's been a while since I was last in contact, we've had a very busy month & only just getting back onto this project now.

We've already planned for Southwest College to carry out the analysis listed below & InvestNI then recommended we get also some form of emission testing done.

Material testing

- Dry matter
- Calorific value
- Ash Content
- Particle Size

Pellet testing

- Pellet durability
- Bulk density

I thought with the results of the above testing along with your emissions testing, we would be in a good position of assessing whether our MDF pellets may be a viable commercial option.

However, I'm not an expert on this, so this may not be the case. I would appreciate a few moments of your time to discuss further – if you could call me at your convenience?

Many thanks

Regards

Anne McLaughlin
Business Improvement Manager

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From: Johnston, Chris [<mailto:Chris.Johnston@afbini.gov.uk>]
Sent: 10 November 2015 19:34
To: Anne McLaughlin
Subject: RE: Flue gas emissions of MDF pellets

Thanks Anne,

Talk soon

Regards

Chris

Chris Johnston

[Tel:- 02892681540](tel:02892681540)

email:- chris.johnston@afbini.gov.uk

From: Anne McLaughlin [<mailto:annemclaughlin@bacomponents.co.uk>]

Sent: 10 November 2015 10:39

To: Johnston, Chris

Subject: RE: Flue gas emissions of MDF pellets

Hi Chris

I'm at our Doncaster factory for the next couple of days but I will contact you to discuss further when I return on Thursday.

Regards

Anne McLaughlin

Business Improvement Manager

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From: Johnston, Chris [<mailto:Chris.Johnston@afbini.gov.uk>]

Sent: 09 November 2015 07:43

To: Anne McLaughlin

Subject: RE: Flue gas emissions of MDF pellets

Hi Anne,

Following up on the email below, we do indeed analyse biomass combustion emissions from a 130kW biomass boiler. The data however will be representative of that particular technology and at that size and will not have any relations to an emission standard however.

It may be worth having more of a discussion on this as some data would I'm sure be useful in giving an indication of emissions, combustion kinetics and what about constituent analysis, ash content and even calorific value. I have a project I am trying to get off the ground with several SMEs and indeed these are the sort of things we will be looking into...

What do you think? We can discuss at your convenience.

What is in your MDF dust? What are the waxes, glues, resins?

Regards

Chris

Chris Johnston

[Tel:- 02892681540](tel:02892681540)

email:- chris.johnston@afbini.gov.uk

From: Lyons, Gary (AFBI)
Sent: 06 November 2015 13:38
To: Anne McLaughlin
Cc: Johnston, Chris
Subject: RE: Flue gas emissions of MDF pellets

Hi Anne,

My colleague Chris Johnston should be able to help you with this, I have copied him in to this reply, and he will be in touch.

Best wishes

Gary

Dr Gary Lyons | Agriculture Branch |

AFBI | Large Park, Hillsborough, BT26 6DR | (44531

(+44 (0) 2892681531 | * gary.lyons@afbini.gov.uk

From: Anne McLaughlin [<mailto:annemclaughlin@bacomponents.co.uk>]
Sent: 06 November 2015 12:58
To: Lyons, Gary (AFBI)
Subject: Flue gas emissions of MDF pellets

Afternoon Gary

I've been given your contact details by a colleague at InvestNI to get a quotation for flue gas

emissions testing on MDF pellets.

At BA Components, we are exploring the possibility of pelletising our MDF waste dust with the intention of retailing the pellets as a biomass fuel.

We are currently working alongside CREST, Southwest College, Enniskillen who will pelletise & analyse the material for us.

We would then require flue gas emission testing on the pellets for compliance as a commercial biomass fuel.

- Could you please provide us with a quote for this work?
- What quantity of pellets are required for the analysis?

Regards

Anne McLaughlin
Business Improvement Manager

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