

Northland Fuels and Energy

Division of OIT Inc

2355 Richardson Highway

North Pole, AK

Phone 907-488-5563

Cell: 425-478-9012

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E-mail northlandfuelsrc@aol.com

Fax

| | |
|----------------------------------|--|
| To: Rhonda (for Mark) | From: Northland Fuels – Rod Chiupka |
| Fax: 907-488-4823 | Pages: 15 - (plus cover) |
| Phone: | Date: 8/24/2011 |
| Re: Omni Labs Email Trail | CC: |

X Documents:

Rhonda,

Please give to Mark...It is important that the documents are in the order received.

Rod Chiupka

Managing Director / NLF&E

northlandfuelsrc@aol.com

425-478-9012

Email trail
Omni Labs – Northland Fuels / OIT Inc.

Subj: Re: Test methods
Date: 5/10/2011 4:29:11 P.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com
CC: ron.muir@oitinc.net

Sebastian,

Thanks for taking the time to talk with us this afternoon and for the testing method information you provided. We look forward to refining dates and times as we move forward. If you need to move us back a few days to aid with your scheduling let us know...we have some logistical leeway.

Thank you,
 Rod R. Chiupka
 GM/Northland Fuels & Energy
 A Division of OIT Inc.
 Office: 907-488-5563
 Cell: 425-478-9012

-----Original Message-----

From: Sebastian Button <sbutton@omni-test.com>
 To: northlandfuelsrc <northlandfuelsrc@aol.com>
 Sent: Tue, May 10, 2011 3:54 pm
 Subject: Test methods

| Pollutant/Performance Parameters | Measurement Method/ Principle | Test Equipment |
|---|---|--|
| Sulfur Dioxide (SO ₂) | EPA Method 6C; UV absorption | UV analyzer |
| Nitrogen Oxides (NO _x) | EPA Method 7E; Chemiluminescence | Chemiluminescence analyzer |
| Volatile Organic Compounds (VOC) | EPA Method 25A; Flame Ionization | FID analyzer |
| Oxygen (O ₂) | EPA Method 3A; Paramagnetic Analyzer | Paramagnetic analyzer |
| Carbon Monoxide (CO) | EPA Method 10; NDIR/GFC | NDIR/GFC Analyzer |
| Ammonia (NH ₃) | EPA CTM 27; Inertial Separation Gravimetric | Impinger series |
| Particulate Matter (PM _{2.5}) | EPA Method OTM 27; Gravimetric | PM _{2.5} cyclone sampling kit or equivalent |

Thank you,

Subj: Re: Test methods
Date: 5/18/2011 12:41:58 P.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com

Hi Sebastian,

Rod Chiupka here, checking in...I hope all is well with you. I understand from Jeff (Clearstak) you guys are very busy and there may be a need to move things back a bit. I wanted to let you know we are flexible on dates so if moving us back works for you it would also work for us. We will need a space to store our truck and trailer until testing. If the week of June 6th is better for testing the Decker just let me know. I believe FNSB is on board...spoke with Todd Thompson indications are we / you will be testing the Decker unit without Clearstak convertor. Still time but that's what I know at this time.

Thanks for you time.
 Rod R. Chiupka
 GM/Northland Fuels & Energy
 A Division of OIT Inc.
 Office: 907-488-5563
 Cell: 425-478-9012

-----Original Message-----

From: Sebastian Button <sbutton@omni-test.com>
 To: northlandfuelsrc <northlandfuelsrc@aol.com>
 Sent: Tue, May 10, 2011 3:54 pm
 Subject: Test methods

| Pollutant/Performance Parameters | Measurement Method/ Principle | Test Equipment |
|---|---|--|
| Sulfur Dioxide (SO ₂) | EPA Method 6C; UV absorption | UV analyzer |
| Nitrogen Oxides (NO _x) | EPA Method 7E; Chemiluminescence | Chemiluminescence analyzer |
| Volatile Organic Compounds (VOC) | EPA Method 25A; Flame Ionization | FID analyzer |
| Oxygen (O ₂) | EPA Method 3A; Paramagnetic Analyzer | Paramagnetic analyzer |
| Carbon Monoxide (CO) | EPA Method 10; NDIR/GFC | NDIR/GFC Analyzer |
| Ammonia (NH ₃) | EPA CTM 27; Inertial Separation Gravimetric | Impinger series |
| Particulate Matter (PM _{2.5}) | EPA Method OTM 27; Gravimetric | PM _{2.5} cyclone sampling kit or equivalent |

Thank you,

Subj: **Test Specifics:**
Date: 5/20/2011 12:40:24 P.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com
CC: mark.sanford@oitinc.net

Hi Sebastian,

I talked with Mark earlier...he will know this evening but looks like a Saturday afternoon arrival...depending on plane flights he will be flying either late Saturday or early Sunday. We are OK with leaving the truck/trailer wherever you want us to and drop the keys were directed. Being today is Friday is there a contact number or email we can use to follow up with you on Saturday in making final arrangements as needed. Also, Todd with [FNSB](#) said you would be conducting a hot test and a cold test is it possible to get any information on what each test will entail?

Thank you for your time,
Rod R. [Chiupka](#)
GM/Northland Fuels & Energy
A Division of [OIT](#) Inc.
Office: 907-488-5563
Cell: 425-478-9012

Subj: **Wednesday May 25:**
Date: 5/25/2011 12:30:12 P.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com

Sebastian,

I am glad to hear all items are still in the truck, we can deal with the lost fuel. Anyway, after our conversation yesterday morning I talked with Mark, he said the Titan I has been purchased by a customer and the customer does not want us to use it for testing.

All pre tests in Manitoba at Decker Manufacturing both with and without Clearstak converter were conducted using the Titan II model. The guys at Decker Manufacturing said they just used a regular garden hose to run cold water through one side of the heat exchanger and it worked perfect in equalizing BTU output at full run capacity. We have also designed an after-burner into the Titan II that currently is not part of Titan I. If we need to do something additional to off-load the Titan II or in connecting the exchanger we would be willing to absorb that cost. I was thinking about coming down to Portland during the week of May 30th to help insure we are prepared for you test runs. I will check with you sometime today.

Thank you,

Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012

Subj: **Re: Wednesday May 25:**
Date: 5/26/2011 11:52:36 A.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com

Sebastian...see my responses below in **bold**.

-----Original Message-----

From: Sebastian Button <sbutton@omni-test.com>
To: Rod R. Chiupka <northlandfuelsrc@aol.com>
Sent: Wed, May 25, 2011 1:34 pm
Subject: RE: Wednesday May 25:

Rod,

I am going to be pretty busy testing other units that week, It might be best to save for the next week. Here are the issues as I currently see them:

I was thinking it would help in facilitating the process if I was to do a pre-test overview...and or arrange for off-loading the Titan II. Also, wanted to visit with the Clearstk group.

-Coal: I am just about out of the stoker coal that was provided to me by the borough, I was told that some would be brought in for the testing, is that something you are providing?

We have about 1000 - 1200lbs on the truck...if you can provide specific run times for testing the Titan II I can calculate the usage and anything left would be OK to use on the other appliances.

-Getting the Titan II off of the trailer, we can't get our forks under it

I was thinking I could assist with that...I understand it was put on with a boom truck. I believe it is possible to slide the unit back with straps to a position on the truck were it could then be picked with a folk lift.

-Test setup/taking the BTUs off the unit, I guess we will see

Also FYI in Decker using a graden hose the group ran cold domestic water through the heat exchanger discharging into the drain system...it worked well.

What do you think?

Sebastian

From: Rod R. Chiupka [mailto:northlandfuelsrc@aol.com]
Sent: Wednesday, May 25, 2011 12:30 PM
To: Sebastian Button
Subject: Wednesday May 25:

Sebastian,

I am glad to hear all items are still in the truck, we can deal with the lost fuel. Anyway, after our conversation yesterday morning I talked with Mark, he said the Titan I has been purchased by a customer and the customer does not want us to use it for testing.

Wednesday, August 24, 2011 AOL: NorthlandfuelsRC

All pre tests in Manitoba at Decker Manufacturing both with and without Clearstak converter were conducted using the Titan II model. The guys at Decker Manufacturing said they just used a regular garden hose to run cold water through one side of the heat exchanger and it worked perfect in equalizing BTU output at full run capacity. We have also designed an after-burner into the Titan II that currently is not part of Titan I. If we need to do something additional to off-load the Titan II or in connecting the exchanger we would be willing to absorb that cost. I was thinking about coming down to Portland during the week of May 30th to help insure we are prepared for you test runs. I will check with you sometime today.

Thank you,

Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012

Subj: **Re: Wednesday May 25:**
Date: 5/26/2011 12:29:03 P.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com

Sebastian,

Thanks...are we on for set-up on Monday, June 6th and testing on Tuesday, June 7th? Can you give me an idea of run time for testing...I can use to calculate coal consumption.

Thank you,
Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012

-----Original Message-----

From: Sebastian Button <sbutton@omni-test.com>
To: Rod R. Chiupka <northlandfuelsrc@aol.com>
Sent: Thu, May 26, 2011 12:19 pm
Subject: RE: Wednesday May 25:

Thanks Rod, feel free to come down anytime, I just wanted to make clear that we would not be at the setup phase for you next week.

Sebastian

From: Rod R. Chiupka [<mailto:northlandfuelsrc@aol.com>]
Sent: Thursday, May 26, 2011 11:53 AM
To: Sebastian Button
Subject: Re: Wednesday May 25:

Sebastian...see my responses below in **bold**.

-----Original Message-----

From: Sebastian Button <sbutton@omni-test.com>
To: Rod R. Chiupka <northlandfuelsrc@aol.com>
Sent: Wed, May 25, 2011 1:34 pm
Subject: RE: Wednesday May 25:

Rod,

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I was thinking it would help in facilitating the process if I was to do a pre-test overview...and or arrange for off-loading the Titan II. Also, wanted to visit with the Clearstk group.

-Coal: I am just about out of the stoker coal that was provided to me by the borough, I was told that some would be brought in for the testing, is that something you are providing?

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I was thinking I could assist with that...I understand it was put on with a boom truck. I believe it is possible to slide

Wednesday, August 24, 2011 AOL: NorthlandfuelsRC

the unit back with straps to a position on the truck were it could then be picked with a folk lift.

-Test setup/taking the BTUs off the unit, I guess we will see

Also FYI in Decker using a garden hose the group ran cold domestic water through the heat exchanger discharging into the drain system...it worked well.

What do you think?

Sebastian

From: Rod R. Chiupka [<mailto:northlandfuelsrc@aol.com>]
Sent: Wednesday, May 25, 2011 12:30 PM
To: Sebastian Button
Subject: Wednesday May 25:

Sebastian,

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Thank you,

Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012

Subj: **Titan II Testing:**
Date: 6/14/2011 12:08:28 P.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com
CC: clarence@deckerbrand.com

Sebastian,

I hope this email finds you doing well. As you may be aware, any performance data we can obtain concerning the Decker - Titan II hydronic coal system the sooner we can begin the next step in our process. We at Northland Fuels and Energy are very excited with what we observed during the testing procedure, and upon final results look forward to expanding our affiliation with Decker Manufacturing. I fully understand that FNSB is your direct client and respect the obligations attached. However, you did mention that it would be possible to receive data but not the report itself. I was hoping that it is still possible, and if so is there a time frame around my request?

Thank you for your time,

Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012

Subj: Re: Titan II Testing:
Date: 6/14/2011 12:37:22 P.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com
CC: clarence@deckerbrand.com

Sebastian,

Thanks for your timely response. That time frame does not do us any real favors...I will get back to you hopefully sooner than later I hope.
Thanks again,
Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012

-----Original Message-----

From: Sebastian Button <sbutton@omni-test.com>
To: Rod R. Chiupka <northlandfuelsrc@aol.com>
Cc: clarence <clarence@deckerbrand.com>
Sent: Tue, Jun 14, 2011 12:26 pm
Subject: RE: Titan II Testing:

Rod,

Thanks for the email. The data will be available to you in a couple months. My clients in FNSB requested that they get a chance to digest the data prior to anyone else getting to looking at it. That being said, we are probably looking at August before I have anything for you. Feel free to bug me again if you haven't yet heard from me.

Sebastian

From: Rod R. Chiupka [<mailto:northlandfuelsrc@aol.com>]
Sent: Tuesday, June 14, 2011 12:08 PM
To: Sebastian Button
Cc: clarence@deckerbrand.com
Subject: Titan II Testing:

Sebastian,

I hope this email finds you doing well. As you may be aware, any performance data we can obtain concerning the Decker - Titan II hydronic coal system the sooner we can begin the next step in our process. We at Northland Fuels and Energy are very excited with what we observed during the testing procedure, and upon final results look forward to expanding our affiliation with Decker Manufacturing. I fully understand that FNSB is your direct client and respect the obligations attached. However, you did mention that it would be possible to receive data but not the report itself. I was hoping that it is still possible, and if so is there a time frame around my request?

Thank you for your time,

Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012

Wednesday, August 24, 2011 AOL: NorthlandfuelsRC

Subj: **PM Test Norms:**
Date: 7/5/2011 3:49:40 P.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com
CC: mark.sanford@oitinc.net

Hi Sebastian,

I hope your fourth was a good one...

I was wondering if you could assist me in our discussion ...during conversations the question about what is a "normal" process for PM testing has come up a number of times...can you tell me is it normal analytical procedure to perform all four of the PM analytical test you had mentioned when evaluating results for Outdoor Hydronic Heaters. In your experience using EPA protocols for OWHH what types of PM test are normally performed on these devises?

Thanks for your time,

Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012

Subj: **Titan II Testing:**
Date: 7/25/2011 9:13:58 A.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com
CC: clarence@deckerbrand.com, mark.sanford@oitinc.net, ron.muir@oitinc.net

Good Morning Sebastian,

I hope all is well with you. Just checking to see if you had any information on delivery of the Decker Titan II test reports to the Fairbanks Northstar Borough. Have you had the chance to review the final reports? Without getting you into hot water can you comment on any results that may stand out in a positive way or negative way? We are in a holding pattern until the results are published.

As always thanks very much for your time,
Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012

Subj: **Thanks for Taking the Time:**
Date: 7/27/2011 9:16:37 A.M. Pacific Daylight Time
From: NorthlandfuelsRC@aol.com
To: sbutton@omni-test.com

Sebastian,

Thank you for taking the time to call yesterday. I appreciate the information you are able to share...I apologize if I am being a bit of a pest...just trying to keep our company informed of the process that means a great deal to us over the long run as we continue our search for the latest clean burning options for coal.

Thanks again,

Rod R. Chiupka
GM Northland Fuels and Energy
Office 907-488-6205
Cell 425-478-9012

Subj: **Titain Testing Data:**
Date: 8/2/2011 8:46:25 A.M. Pacific Daylight Time
From: northlandfuelsrc@aol.com
To: sbutton@omni-test.com, jweston@omni-test.com

Sebastian, Jim...

I hope all is well with you guys.

We just completed a mangers meeting here in Fairbanks, among the discussion of importance was testing on the Titan II conducted for the FSNB at Omni Labs. We would like to move forward with our business plan of installing a number of Titan hydronic systems for this upcoming fall/winter season. However, without a clear representation pertaining to the test results we are hesitant. From what I understand the data report process is complicated and there is a certain reliance on outside entities. Problematic to our need is the length of time, I also understanding there is additional time needed in compiling data from tests conducted on numerous other heating appliances tested under the FNSB's contract. There is a possibility it could be weeks more before any completed data information is available. That being the case we were wondering if it would be possible to work out a separate testing data purchase agreement specific to Titan II testing data compiled during the test runs conducted in May 2011. Right now we are truly flying blind and without test results cannot justify the risk of capital needed to purchase the large number of Titan model coal boilers being requested.

In summary...at a substantial cost we provided the coal, purchased the Titan unit and financed transporting of the unit, in return the FSNB would share the test results with us. Their time concern is not the same as ours and we now hope to find a different avenue in attaining this vital information.

All along we felt strongly the Decker Titan System would produce effective results...we assume that to be true but cannot endorse without some facts. In closing is it possible we could initiate a discussion regarding us purchasing some of the data specific to particulate emission measurements and possibly other emissions data relative to a comparative phase II assessment.

We are hoping this can be arranged, we have been patiently waiting and fully understand the challenges however, up here winter is only 5 – 7 weeks out and time is of most importance. I look forward to hearing from you.

Thank you for your time,

Rod R. Chiupka
GM/Northland Fuels & Energy
A Division of OIT Inc.
Office: 907-488-5563
Cell: 425-478-9012