

## Bahtic, Nedin

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**From:** Sobha, Ravi [RSobha@citrosuco.com]  
**Sent:** Thursday, April 05, 2012 1:18 PM  
**To:** Bahtic, Nedin  
**Cc:** Taylor, Lisa  
**Subject:** RE: Records for Citrosuco (1050001)

Mr. Bahtic,

Here is the information you requested. Please let me know if I can be of further assistance.

After reviewing these records, I have the following questions:

- What heat value was used to calculate MMBtu/hr input? The value used for the 2011 AOR was 1,040 MMBtu per million cubic feet natural gas (which is pretty standard; it is usually between 1,000 and 1,050 MMBtu). It looks like something a lot lower was used. For example, for North Dryer, I am coming up with  $281 \times 1,040 / 3,354 = 87.1$  MMBtu/hr; you have 64 MMBtu/hr.

I used 1018.

- Can you please send me the monthly fruit throughput records, something (up to date) that looks like the attached file I received after my inspection two years ago?

Jan-10	18,055,480
Feb-10	17,758,824
Mar-10	17,279,137
Apr-10	17,327,697
May-10	16,625,709
Jun-10	16,983,947
Jul-10	16,983,947
Aug-10	16,965,410
Sep-10	16,965,410
Oct-10	16,965,410
Nov-10	17,928,703
Dec-10	19,247,506

Jan-11	19,185,242
Feb-11	18,724,585
Mar-11	19,895,740
Apr-11	19,798,265
May-11	19,901,128
Jun-11	20,117,333
Jul-11	20,117,333
Aug-11	20,117,333
Sep-11	20,117,333
Oct-11	20,117,333
Nov-11	19,685,245
Dec-11	19,162,330

- For the VOC (oil recovery) records, you have 4.17 (2011) and 2.80 (2012) for "Title V (VOC 1) average." Do you know what these numbers correspond to in terms of percentage, since your permit minimum is "72% recovery of oil from citrus fruits processed each calendar year" (please see attached "percent recovery")?

Total Boxes run 2011 = 20,598,829

OPP = 813.78 Oil in Pressed Peel

ODP = 201.26 Oil in Pellets

OIF = 5372.40 Oil in Fruit

$$\text{Recovery per Equation \#1} = 1 - \frac{(\text{OPP} - \text{ODP})}{\text{OIF}} = 1 - \frac{(813.78 - 201.26)}{5,372.40} = 87\%$$

Regards,

## Ravi Sobha

Feedmill Supervisor

Citrosuco North America, Inc.

Office (863)696 - 6055

Cell (863) 528 - 6312

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**From:** Bahtic, Nedin [mailto:Nedin.Bahtic@dep.state.fl.us]

**Sent:** Tuesday, April 03, 2012 11:16 AM

**To:** Sobha, Ravi

**Subject:** RE: Records for Citrosuco (1050001)

Ravi/Lisa,

After reviewing these records, I have the following questions:

- What heat value was used to calculate MMBtu/hr input? The value used for the 2011 AOR was 1,040 MMBtu per million cubic feet natural gas (which is pretty standard; it is usually between 1,000 and 1,050 MMBtu). It looks like something a lot lower was used. For example, for North Dryer, I am coming up with  $281 \times 1,040 / 3,354 = 87.1$  MMBtu/hr; you have 64 MMBtu/hr.
- Can you please send me the monthly fruit throughput records, something (up to date) that looks like the attached file I received after my inspection two years ago?
- For the VOC (oil recovery) records, you have 4.17 (2011) and 2.80 (2012) for "Title V (VOC 1) average." Do you know what these numbers correspond to in terms of percentage, since your permit minimum is "72% recovery of oil from citrus fruits processed each calendar year" (please see attached "percent recovery")?

Thanks,

Nedin Bahtic  
Environmental Engineering Specialist III  
Florida Department of Environmental Protection  
Division of Air Resources, Southwest District  
13051 North Telecom Parkway  
Temple Terrace, FL 33637  
phone: 813-632-7600 x126  
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**From:** Sobha, Ravi [mailto:RSobha@citrosuco.com]

**Sent:** Friday, March 30, 2012 1:53 PM

To: Bahtic, Nedin; Taylor, Lisa  
 Subject: RE: Records for Citrusuco (1050001)

Nedin,

Here are the records you requested. Sorry for the delay.

Regards,

Ravi

**Citrusuco North America, Inc Annual Summary Report**

	<u>2011</u>	2012
<b>Running Hours</b>		
North Dryer	3354	899
South Dryer	3754	1253
North Cooler	4360	1349
South Cooler	4299	1277
800 HP Boiler	2441	1010
1000 HP Boiler	5430	859
2000 HPBoiler	4718	1290
ATF Boiler	1266	
<b>Fuel Usage Gas</b>		
North Dryer	281,007,304	47,216,000
South Dryer	316,883,206	71,573,000
800 HP Boiler	55,817,866	22,338,391
1000 HP Boiler	112,500,522	16,635,578
2000 HPBoiler	350,546,222	108,864,761
ATF Boiler	42,517,792	
<b>Monthly Totals</b>		
<b>MMBTU/Hr</b>		
North Dryer	64	35
South Dryer	64	56
800 HP Boiler	19	254
1000 HP Boiler	18	
2000 HPBoiler	66	
ATF Boiler	22	
Total MMBTU/Hr (Boilers)	Sep – Dec 2011= 275	
<b>Boxes Processed</b>		
	19,786,075	9,776,872
<b>Boxes Run In Feed Mill</b>		
	19,708,169	9,723,476
<b>Press Cake Tons</b>		
	202,779	99,245

<b>Feed Produced Tons</b>	79,246	38,894
<b>Title V (VOC 1) average</b>	4.17	2.80

## Ravi Sobha

Feedmill Supervisor  
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**From:** Bahtic, Nedin [<mailto:Nedin.Bahtic@dep.state.fl.us>]  
**Sent:** Tuesday, March 27, 2012 8:37 AM  
**To:** Sobha, Ravi; Taylor, Lisa  
**Subject:** Records for Citrosuco (1050001)

Good morning,

Can you please send me the records that I requested last Wednesday (3/21)? I am trying to finalize my inspection report. As a reminder, I need the following:

- Heat input records for the two dryers and three boilers for the last couple of years.
- Fruit throughput records for the last couple of years.
- VOC (oil recovery) records for 2010 and 2011.
- PM emissions records for the dryers.

Thanks,

Nedin Bahtic  
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