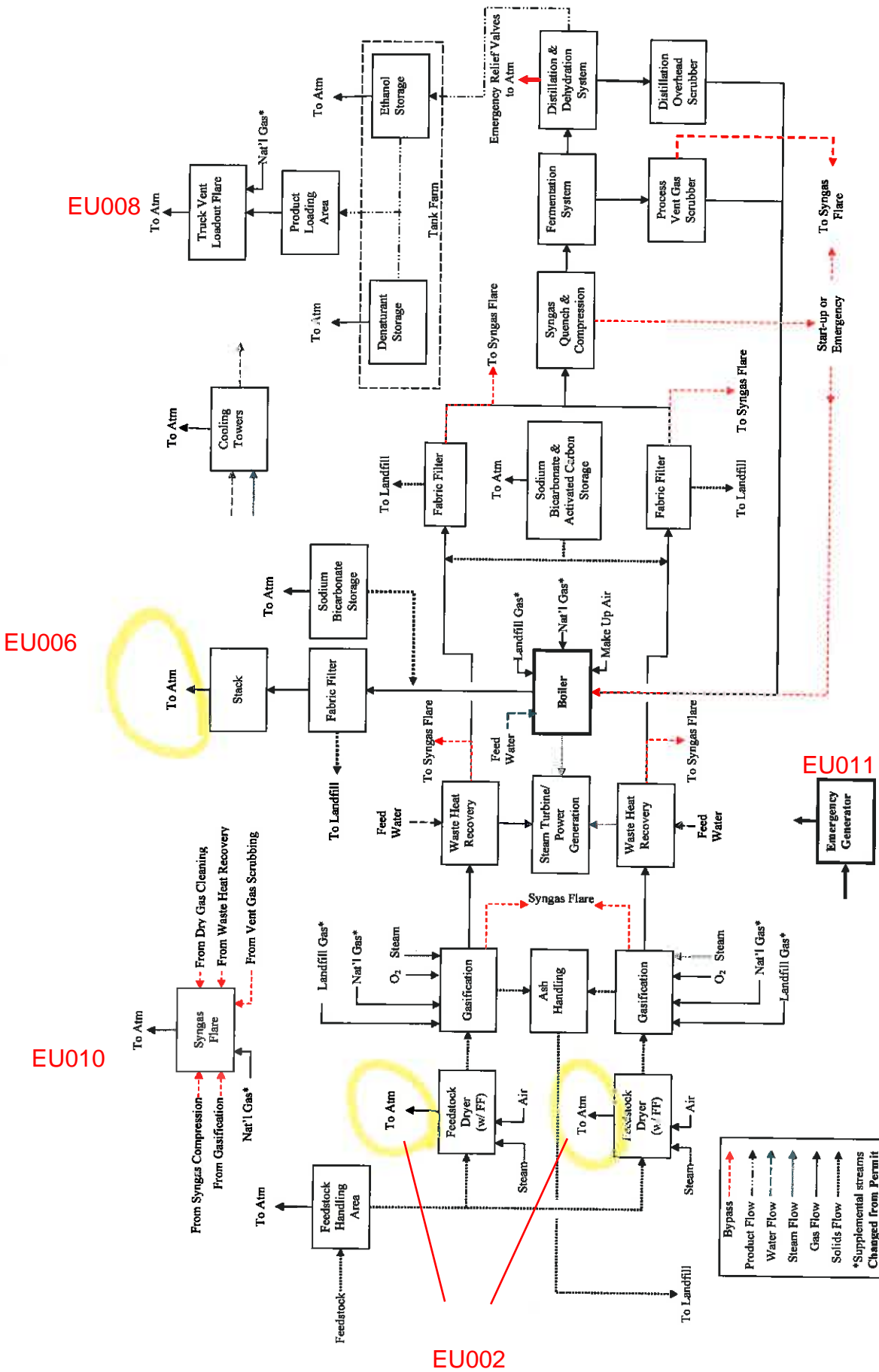


**INPB IRC Facility Process Flow**  
 Air Construction Permit Modification Application, April 2012



INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *August*  
Year: *2012*

**ID No.**      **Emission Unit Description**

001      Materials Handling Area

Gallons of Ultra Low Sulfur Diesel Fuel Used      *N/A*

**ID No.**      **Emission Unit Description**

002      Feedstock Dryers No. 1 and No. 2

Total Combined Tons of Biomass and MSW

*# 1 = N/A      # 2 = N/A*

**ID No.**      **Emission Unit Description**

003      Gasification, Fermentation and Distillation system

Gallons of Ethanol Produced      *0*

**ID No.**      **Emission Unit Description**

004      Distillation Unit Fugitive Emissions

See Leak Detection and Repair Program – N/A System not operational

**ID No.**      **Emission Unit Description**

006      Vent Gas Boiler  
Continuous Emission Monitoring Report (See CEMS Book)

*Syn Gas      N/A Gas      LFG*  
*0                      0      0*

**ID No.**      **Emission Unit Description**

007      Tank Farm

*Amount of fuel (diesel) otherwise throughout  
(gpa)*

*= 0*

INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *August*  
Year: *2012*

**ID No.**      **Emission Unit Description**

008      Load Out Flare  
*FLOW RATE OF DISPLACED VAPORS (SCFM) = 0*  
*duration of EACH FLARE EVENT & REASON = 0*

**ID No.**      **Emission Unit Description**

010      Syngas Flare

**ID No.**      **Emission Unit Description**

011      Emergency Equipment

*zero by gallons of liquid fuel used*

INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: SEPTEMBER  
Year: 2012

**ID No.**      **Emission Unit Description**

001            Materials Handling Area

Gallons of Ultra Low Sulfur Diesel Fuel Used      N/A

**ID No.**      **Emission Unit Description**

002            Feedstock Dryers No. 1 and No. 2

Total Combined Tons of Biomass and MSW      #1 = 0      #2 = 113.2

**ID No.**      **Emission Unit Description**

003            Gasification, Fermentation and Distillation system

Gallons of Ethanol Produced      0

**ID No.**      **Emission Unit Description**

004            Distillation Unit Fugitive Emissions

See Leak Detection and Repair Program – N/A System not operational

**ID No.**      **Emission Unit Description**

006            Vent Gas Boiler      152 hours  
Continuous Emission Monitoring Report (See CEMS Book)

<u>SynGas</u>	<u>Nat. Gas</u>	<u>LFG</u>
<u>0</u>	<u><del>32-2005</del></u>	<u><del>52000</del></u>
	<u>2902303</u>	

**ID No.**      **Emission Unit Description**

007            Tank Farm

= 0

INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *SEPTEMBER*  
Year: *2012*

<u>ID No.</u>	<u>Emission Unit Description</u>
008	Load Out Flare <i>= 0</i> <i>= 0</i>

<u>ID No.</u>	<u>Emission Unit Description</u>
010	Syngas Flare <i>monthly flow rate of displaced vapors, duration + reason</i>
<u>ID No.</u>	<u>Emission Unit Description</u>
011	Emergency Equipment

*SCF = 9,916,377*

~~*8,215,189*~~ *(W)*

*7,896,773* *(W)*

*4-23-13*

INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *October*  
Year: *2012*

**ID No.**      **Emission Unit Description**

001            Materials Handling Area

Gallons of Ultra Low Sulfur Diesel Fuel Used      *N/A*

**ID No.**      **Emission Unit Description**

002            Feedstock Dryers No. 1 and No. 2

Total Combined Tons of Biomass and MSW      *#1 = 884.3    #2 = 165.3*

**ID No.**      **Emission Unit Description**

003            Gasification, Fermentation and Distillation system

Gallons of Ethanol Produced      *0*

**ID No.**      **Emission Unit Description**

004            Distillation Unit Fugitive Emissions

See Leak Detection and Repair Program – N/A System not operational      *SCF*

**ID No.**      **Emission Unit Description**

006	Vent Gas Boiler	<i>741 hours.</i>	<i>SYNGAS</i>	<i>NAT GAS</i>	<i>LFG</i>
Continuous Emission Monitoring Report (See CEMS Book)			<i>1771283</i>	<i>32530086</i>	<i>526723</i>

**ID No.**      **Emission Unit Description**

007            Tank Farm

*0*



INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *November*  
Year: *2012*

**ID No.**      **Emission Unit Description**

001            Materials Handling Area

Gallons of Ultra Low Sulfur Diesel Fuel Used      *200 gallons*

**ID No.**      **Emission Unit Description**

002            Feedstock Dryers No. 1 and No. 2

Total Combined Tons of Biomass and MSW      *#1 = 0 #2 = 1,047.2*

**ID No.**      **Emission Unit Description**

003            Gasification, Fermentation and Distillation system

Gallons of Ethanol Produced      *0*

**ID No.**      **Emission Unit Description**

004            Distillation Unit Fugitive Emissions

See Leak Detection and Repair Program – N/A System not operational

**ID No.**      **Emission Unit Description**

006	Vent Gas Boiler	<i>720 hours</i>	<i>SynGas</i>	<i>SCF</i>	<i>N/A Gas</i>	<i>CF6</i>
Continuous Emission Monitoring Report (See CEMS Book)		<i>0</i>	<i>0</i>	<i>30617776</i>	<i>3156883</i>	

**ID No.**      **Emission Unit Description**

007            Tank Farm

*0*



INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *November*  
Year: *2012*

<u>ID No.</u>	<u>Emission Unit Description</u>
008	Load Out Flare = 0 = 0

<u>ID No.</u>	<u>Emission Unit Description</u>
010	Syngas Flare SCF = <del>28,139,168</del> <del>94,479,709</del>

<u>ID No.</u>	<u>Emission Unit Description</u>
011	Emergency Equipment

*WRP* 4-29-13

INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *December*  
Year: *2012*

**ID No.**      **Emission Unit Description**

001            Materials Handling Area

Gallons of Ultra Low Sulfur Diesel Fuel Used      *200 gallons*

**ID No.**      **Emission Unit Description**

002            Feedstock Dryers No. 1 and No. 2

Total Combined Tons of Biomass and MSW      *#1 = 0    #2 = 335.6*

**ID No.**      **Emission Unit Description**

003            Gasification, Fermentation and Distillation system

Gallons of Ethanol Produced      *1*

**ID No.**      **Emission Unit Description**

004            Distillation Unit Fugitive Emissions

See Leak Detection and Repair Program – N/A System not operational

**ID No.**      **Emission Unit Description**

006	Vent Gas Boiler	<i>673 maxs.</i>		<i>SCF</i>	
	Continuous Emission Monitoring Report (See CEMS Book)		<i>Syngas</i>	<i>Nat Gas</i>	<i>LFG</i>
			<i>1937777</i>	<i>2613957</i>	<i>19012197</i>

**ID No.**      **Emission Unit Description**

007            Tank Farm

*0*



INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *January*  
Year: *2013*

**ID No.**      **Emission Unit Description**

001            Materials Handling Area

Gallons of Ultra Low Sulfur Diesel Fuel Used      *100 gallons*

**ID No.**      **Emission Unit Description**

002            Feedstock Dryers No. 1 and No. 2      *0/0*

Total Combined Tons of Biomass and MSW

**ID No.**      **Emission Unit Description**

003            Gasification, Fermentation and Distillation system

Gallons of Ethanol Produced      *0*

**ID No.**      **Emission Unit Description**

004            Distillation Unit Fugitive Emissions

See Leak Detection and Repair Program – N/A System not operational

**ID No.**      **Emission Unit Description**

006	Vent Gas Boiler	<i>344 hours.</i>	<i>See 18945</i>	<i>SCF</i>	<i>NAT Gas</i>	<i>LF6</i>
	Continuous Emission Monitoring Report (See CEMS Book)	<i>0</i>	<i>0</i>	<i>12760915</i>	<i>3170703</i>	

**ID No.**      **Emission Unit Description**

007            Tank Farm

*0*

INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month:  
Year:

*January*  
*2013*

<u>ID No.</u>	<u>Emission Unit Description</u>
008	Load Out Flare = 0 = 0

<u>ID No.</u>	<u>Emission Unit Description</u>
010	Syngas Flare

<u>ID No.</u>	<u>Emission Unit Description</u>
011	Emergency Equipment

INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *FEBRUARY*  
Year: *2013*

**ID No.**      **Emission Unit Description**

001      Materials Handling Area

Gallons of Ultra Low Sulfur Diesel Fuel Used      *200 gallons*

**ID No.**      **Emission Unit Description**

002      Feedstock Dryers No. 1 and No. 2

*#1*  
*118.8 TON*      *#2*  
*0*

Total Combined Tons of Biomass and MSW

**ID No.**      **Emission Unit Description**

003      Gasification, Fermentation and Distillation system

Gallons of Ethanol Produced      *0*

**ID No.**      **Emission Unit Description**

004      Distillation Unit Fugitive Emissions

See Leak Detection and Repair Program – N/A System not operational

**ID No.**      **Emission Unit Description**

006      Vent Gas Boiler  
Continuous Emission Monitoring Report (See CEMS Book)

*672 hours.*      *SynGas*      *SCF*  
*175555*      *29331900*      *2117600*      *216*  
*1064591*

**ID No.**      **Emission Unit Description**

007      Tank Farm

*0*

INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *FEBRUARY*  
Year: *2013*

<u>ID No.</u>	<u>Emission Unit Description</u>
008	Load Out Flare      = 0 = 0

<u>ID No.</u>	<u>Emission Unit Description</u>
010	Syngas Flare

<u>ID No.</u>	<u>Emission Unit Description</u>
011	Emergency Equipment

INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *MARCH*  
Year: *2013*

**ID No.**      **Emission Unit Description**

001            Materials Handling Area

Gallons of Ultra Low Sulfur Diesel Fuel Used      *200 gallon*

**ID No.**      **Emission Unit Description**

002            Feedstock Dryers No. 1 and No. 2

*#1*  
            
*1530.7*                      *#2*  
            
*0*

Total Combined Tons of Biomass and MSW

**ID No.**      **Emission Unit Description**

003            Gasification, Fermentation and Distillation system

Gallons of Ethanol Produced      *0*

**ID No.**      **Emission Unit Description**

004            Distillation Unit Fugitive Emissions

See Leak Detection and Repair Program – N/A System not operational

**ID No.**      **Emission Unit Description**

006            Vent Gas Boiler

*740 hrs.*

Continuous Emission Monitoring Report (See CEMS Book)

*541615*      *2117615*      *216*  
                                                                            
*22054522*                      *29168585*                      *596095,*

**ID No.**      **Emission Unit Description**

007            Tank Farm

*0*



INEOS New Planet Bioenergy  
Vero Beach Facility  
Monthly Operation Summary

Month: *MARCH*  
Year: *2013*

<u>ID No.</u>	<u>Emission Unit Description</u>
008	Load Out Flare <i>- 0</i> <i>- 0</i>

<u>ID No.</u>	<u>Emission Unit Description</u>
010	Syngas Flare

<u>ID No.</u>	<u>Emission Unit Description</u>
011	Emergency Equipment