

Josephine Kennedy

From: Una O'Callaghan
Sent: 01 December 2011 10:45
To: Josephine Kennedy; Ann Kehoe
Subject: Additional Information for W0253-01
Attachments: RE: query; Attachment E.1.Rev.1.doc; Class of Activities

Hi,

Can you please place the attached correspondence with consultant acting on behalf of W0253-01 on eDMS

Regards

Una

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Josephine Kennedy

From: Una O'Callaghan
Sent: 10 November 2011 17:20
To: Helen Behan
Subject: RE: query

Helen,

200126* was included in the list of EWC codes supplied in additional information dated 06/05/11. This is the list I am working from regarding material proposed to be accepted at the facility.

Regards

Una O'Callaghan

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

From: Helen Behan [<mailto:Helen.Behan@bnm.ie>]
Sent: 10 November 2011 16:57
To: Una O'Callaghan
Cc: mkerin@cleanirl.com
Subject: query

Una,

Leave the sludge with me for the moment, I need to speak with Paddy in the morning.

On the EWC code 20 01 26- i don't see this on the h.1.1 waste types (non haz) attachment in revised application only 20 01 25 edible oil & fat.

Can you tell me where you saw this in the application?

kind Regards, Helen

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Josephine Kennedy

From: Helen Behan <Helen.Behan@bnm.ie>
Sent: 28 November 2011 16:15
To: Una O'Callaghan
Subject: Attachment E.1.Rev.1.doc
Attachments: Attachment E.1.Rev.1.doc

Hi Una,

I checked back through the submitted amended licence application 2009 and I had included ELV's for a generic CHP engine. Pls see page 4 emission A2-2 CHP engine in the attached word doc. The only pollutant emissions the engine generates are NOx and CO, this JMS 312 GS-BL model was selected by Celtic Bioenergy given their expertise. Is SOx not when you have are burning hydrocarbons such as diesel/kerosene?

Celtic Bioenergy estimated that AD will generate 1,720,000 m3 per annum of biogas.

The speed for the generic CHP engine that we looked at was 1500l/min.

Please advise if this will suffice.

Should the choice of CHP engine change when the WL is granted, we will go for a technical amendment when we have a definitive technology capability.

Kind Regards,
Helen

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TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point Ref. N ^o :	A2-1
Source of Emission:	Biofilter
Location :	Southern boundary
Grid Ref. (12 digit, 6E,6N):	102791,165887
Vent Details Diameter: Height above Ground(m):	Not Available
Date of commencement:	Not Applicable

Characteristics of Emission :

(i) Volume to be emitted: Not Available			
Average/day	m ³ /d	Maximum/day	m ³ /d
Maximum rate/hour	m ³ /h	Min efflux velocity	m.sec ⁻¹
(ii) Other factors			
Temperature	°C(max)	°C(min)	°C(avg)
For Combustion Sources: Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____ %O ₂			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	60 min/hr 24 hr/day 365 day/yr
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TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point Ref. N ^o :	A2-2
Source of Emission:	CHP Engine
Location :	Within Biostabilisation Building
Grid Ref. (12 digit, 6E,6N):	102720,165889
Vent Details	
Diameter:	Not Available
Height above Ground(m):	8
Date of commencement:	Not Applicable

Characteristics of Emission :

(i) Volume to be emitted: Not Available			
Average/day	m ³ /d	Maximum/day	m ³ /d
Maximum rate/hour	m ³ /h	Min efflux velocity	m.sec ⁻¹
(ii) Other factors			
Temperature	°C(max)	°C(min)	°C(avg)
For Combustion Sources:			
Volume terms expressed as :	<input type="checkbox"/> wet.	<input type="checkbox"/> dry.	_____ %O ₂

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	<u>Not available</u> min/hr _____ hr/day day/yr
---------------------------	--

TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)Emission Point Reference Number: A2-1

Parameter	Prior to treatment ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾					
	mg/Nm ³		kg/h			mg/Nm ³		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max
Hydrogen Sulphide	5 ppm	5 ppm			Not Applicable						
Mercaptans	5ppm	5ppm			Not Applicable						
Ammonia	50ppm	50ppm			Not Applicable						
Amines	5ppm	5ppm			Not Applicable						

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C, 101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: A2-2

Parameter	Prior to treatment ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾					
	mg/Nm ³		kg/h			mg/Nm ³		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max
Nitrogen Dioxide	Not Available	Not Available	Not Available	Not Available	No treatment	<u>500</u> (note 2)	<u>500</u> (note 2)	<u>0.85</u> (note 2)	<u>0.85</u> (note 2)		
Carbon Monoxide	Not Available	Not Available	Not Available	Not Available	No treatment	<u>1000</u> (note 2)	<u>1000</u> (note 2)	<u>1.7</u> (note 2)	<u>1.7</u> (note 2)		

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1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C, 101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.
2. in dry exhaust at 5% oxygen
3. The frequency of operation has not been devised at this time.

TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor /Fugitive

Emission point Reference Numbers	Description	Emission details ¹				Abatement system employed
		material	mg/Nm ³⁽²⁾	kg/h.	kg/year	
A2-3	Diesel Generator	Diesel oil	Not Available	Not Available	Not Available	Not Applicable

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1 The maximum emission should be stated for each material emitted, the concentration should be based on the maximum 30 minute mean.
 2 Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C/101.3kPa). Wet/dry should be clearly stated. Include reference oxygen conditions for combustion sources.

Josephine Kennedy

From: Helen Behan <Helen.Behan@bnm.ie>
Sent: 17 November 2011 11:22
To: Una O'Callaghan
Cc: mkerin@cleanirl.com; paddy hedigan
Subject: Class of Activities

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Una,

Please be advised that the tonnes for non-hazardous industrial sludge and sewage sludge relate to dewatered sludge which will be treated in the dry AD process in the Biostabilisation Plant.

The EWC class for 20 01 26 will relate to greases from other sources as to not exclude potential grease wastes from customers other than edible oils & fats.

Kind Regards,

Helen Behan

on Behalf of Clean Ireland (Refuse & Recycling) Ltd.

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