



COMPANY I	NFORMATION			Date: 01/24/17		
Company N	lame: GEA Houle In	ε.				
Phone:	819-477-7444		Web Site:	http://www.gea.com/		
Address:	4591 Boulevard St-Joseph		City:	Drummondville		
State:	QC, Canada		Zip Code:	J2B 6W3		
BUSINESS CONTACT			TECHNICAL CONTACT			
Name:	Jeramy Sanford		Name:	Jeramy Sanford		
Phone:	630-453-8867		Phone:	630-453-8867		
Email:	jeramy.sanford@gea.com		Email:	jeramy.sanford@gea.com		
Address:	1880 Country Farm Dr.		Address:	1880 Country Farm Dr.		
City:	Naperville		City:	Naperville		
State:	IL		State:	IL		
Zip Code:	60563		Zip Code:	60563		
BUSINESS H	ISTORY					
How long h	nave you been in busi	ness? 1957				
Are you pa	rt of a larger compan	/? ● Yes ○ No				
Did you exist as another company before this company was formed? Yes No If so, what was that company's name?						
J Houle and Fils						
Number of employees? 17,000						
What is yo	What is your business structure? Publicly traded corp					
What type	s of insurance and or	surety do you provide?				
Long history, positive reputation with the industry, contact company representative for more information.						

References. Please provide customers or colleagues with whom we can discuss your business and performance. Please include a separate list with company name, location, contact name and contact information.
Contact Company Representative
Describe your business service(s). For example: consulting, development, engineering, equipment sales, finance, other.
Equipment manufacturing and sales, process engineering
Area or region of operation.
Worldwide
Does your company hold any patents or the rights to any patents? Please identify.
Yes, contact company representative
Do you manufacture equipment? Yes No Please describe.
Manufacture milking, manure, and livestock housing equipment, food process and packaging.
Do you integrate equipment manufactured by others? Yes No If you integrate, please list the names of the companies you represent.
Numerous, see company representative

How do you answer potential customer's question about financial strength of your company?						
GEA is a publicly traded company and financials are available.						
Do you offer technical/service support? No If so, what methods?						
Call in, field service and web based.						
Do you offer design services? Yes No Please describe.						
CAD drawings and farm layouts on varying platforms						
Do you offer financing?						
Are you a full stop shop? Design to construction to operate? Yes No Please describe.						
Do you have preferred partners? Yes No If so, please list and provide contact information/identify partners by name.						

Do you have any third-party verification/research that has been done on this technology? • Yes • No If so, please describe.
See company representative
Do you provide a performance guarantee? (a) Yes (b) No If so, what are you guaranteeing? For example: up time, methane production, biogas production, parasitic load, throughput, O&M cost, percent recovery, other.
We can provide Service contracts and extended warranties, performance based guarantees based on throughput, percent recovery and moisture.
Are there any other aspects of your business that you feel should be included in this document?
GEA is one of the largest suppliers of process technology for the food industry and for a wide range of other industries. In 2016, GEA generated consolidated revenues in excess of about EUR 4.5 billion

INITIAL TECHNOLOGY OVERVIEW

This information is to guide in the development of a more specific and detailed Technology Information Request. *Please answer the following questions for each Technology or Service Provided.*

What is the name of the technology or service?

Modular XPress, Slope screen, Two stage slope screen, centrifuge, vertical dewaterer, manure pumps and agitators

What unit process is the technology used in?

For example: initial collection/transfer manure storage, energy recovery, primary/coarse solids recovery, advanced suspended/fine solids recovery, drying, struvite production, nitrification denitrification, ammonia stripping, algae, vermi composting, membrane filtration, evaporation, other.

Initial collection/transfer manure storage

Primary/coarse solids recovery

Ammonia stripping

Membrane filtration

Advanced suspended/fine

solids recovery

Drying

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How many systems have you installed on dairy farms or other livestock operations?

The number of installations is tremendous. GEA has excellent market saturation and provides producers worldwide with solutions.

Size of farm(s)?

All sizes of dairy and hog farms use GEA equipment

Location of farm(s)?

Worldwide

What's the smallest/largest farm for your system?

< 50 cows >10,000 cows

Input material description/characteristics: For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.
Raw manure
Digestate
Screened digestate
Suitable non-farm feedstocks
Other
Does the technology treat the full manure stream for a farm or a fraction of the stream?
Both, depends on the farm specific needs
Do you consider this a mature system or ongoing farm development?
The majority of the system is mature, however we constantly strive to develop both on farm and at our facilities.
Any weather constraints? Yes No Please describe.
Any weather constraints? Yes No Please describe. Cold weather protection, humidity can affect processes as well.
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Cold weather protection, humidity can affect processes as well. Any bedding constraints? Yes No Please describe.
Cold weather protection, humidity can affect processes as well. Any bedding constraints? Yes No Please describe. Sand bedding can reduce operating costs of equipment.
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We can do a mass balance analysis on the type of treatment system that you prefer.					
Do you consider this technology part of a larger system that you provide? Yes No Please describe.					
Yes, We offer complete milking, manure and barn equipment for Dairy farms.					
Has your technology been accepted by the NRCS? Yes No Please describe.					
Approved manure transfer and treatment technology.					
Would you be willing to provide information for a technical review? Yes No					
Would you be willing to respond to a Request for Quotation (RFQ) on a generic project for comparison of your technology against other technologies in the same unit process? Yes No					
Are there any other facts about this technology that you feel should be included in this document?					
Manure and nutrient separation is a constantly developing process. There is no one solution for the needs of todays producers. The reasons and end goals of separation vary and at GEA we strive to develop and work towards maating the goals of the individual.					