



Date: 5/1/2016

COMPANY INFORMATION

Company Name: RCM International LLC

Phone: 510-834-4568

Web Site: <http://www.rcmdigesters.com/>

Address: PO Box 4716

City: Berkeley

State: CA

Zip Code: 94704

BUSINESS CONTACT

Name: Mark Moser or Angela McEliece

Phone: 510-834-4568

Email: contact@rcmdigesters.com

Address: PO Box 4716

City: Berkeley

State: CA

Zip Code: 94704

TECHNICAL CONTACT

Name: Mark Moser or Angela McEliece

Phone: 510-834-4568

Email: contact@rcmdigesters.com

Address: PO Box 4716

City: Berkeley

State: CA

Zip Code: 94704

BUSINESS HISTORY

How long have you been in business? Since 1982

Are you part of a larger company? Yes No

Did you exist as another company before this company was formed? Yes No

If so, what was that company's name?

RCM Digesters

Number of employees? 7-15, fluctuates

What is your business structure? LLC

What types of insurance and or surety do you provide?

RCM carries \$2 Million Professional Liability Insurance for digester design

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.

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Describe your business service(s). *For example: consulting, development, engineering, equipment sales, finance, other.*

Development, Engineering, Design and Construction. RCM provides Turn-key digester system installations.

Area or region of operation.

U.S. and Internationally; specifically Australia and Mexico, Central and South America

Does your company hold any patents or the rights to any patents? *Please identify.*

No	
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Do you manufacture equipment? Yes No *Please describe.*

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Do you integrate equipment manufactured by others? Yes No

If you integrate, please list the names of the companies you represent.

We are dealers for Doda and Bauer	
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How do you answer potential customer's question about financial strength of your company?

We have been in business since 1982.

Do you offer technical/service support? Yes No *If so, what methods?*

We offer digester system operation training and troubleshooting. We are available for ongoing support for digester system management throughout the life of the project

Do you offer design services? Yes No *Please describe.*

Do you offer financing? Yes No *If so, what terms?*

Yes. If the project owner has grants and is willing to assign payment of these grants directly to RCM, RCM will carry construction financing in the amount of the grant value

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.

John Williamson P.E
Team Ag Inc. Agricultural Engineering
Address: 120 Lake St, Ephrata, PA 17522
Phone:(717) 721-6795
(permitting assistance, and site survey and NRCS inspections for construction approvals.)

Provost and Pritchard- Engineering
Steven Bommelje
130 N. Garden Street
Visalia, CA 93291 [Map]
Phone: 559.636.1166



Do you have any third-party verification/research that has been done on this technology? Yes No

If so, please describe.

Cornell – Pro Dairy has profiled many of our systems. Digester projects in New York with NYERDA grants have been carefully monitored over the years by that organization.

Do you provide a performance guarantee? Yes No

If so, what are you guaranteeing? For example: up time, methane production, biogas production, parasitic load, throughput, O&M cost, percent recovery, other.

Digester projects are protected under RCM's professional liability insurance if the digester were to stop operating due to errors or omissions by RCM. We can offer guarantees based on the waste being digested.

Are there any other aspects of your business that you feel should be included in this document?

Response not given

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?

Anaerobic Digester System, Complete Mix, Smart Lagoons, Smart Plug Flow Systems

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.

Facilitation of the anaerobic digestion process from the collection of biogas from waste organic matter such as animal manure or foodstuffs.

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

100+

Size of farm(s)?

400 - 10,000 cows
10,000 – 238,000 finisher pigs
28,000 beef cattle + stillage

Location of farm(s)?

U.S. and Internationally

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

300 cows + food waste
450 cows no food waste
10,000 finishers with or without food waste.
Farm < 10,000 finishers + food waste on a case by case basis depending on amount of food waste available and allowable by state laws

Input material description/characteristics:

For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.

Raw manure
Food waste

Does the technology treat the full manure stream for a farm or a fraction of the stream?

- Full manure stream
- Fraction of stream upon request by the farm (for example to reduce total project cost)

Do you consider this a mature system or ongoing farm development?

Our technologies are 'mature systems' with continuous improvement.

Any weather constraints? Yes No *Please describe.*

Unheated anaerobic digester systems for flush manure collection in cold climates are not recommended

Any bedding constraints? Yes No *Please describe.*

Scrape manure collection systems that use sand bedding are technically challenging. We advise project owners that digested solids bedding is preferred if a digester system is implemented.

Is this process scalable and to what extent (top and bottom limits)? Yes No *Please describe.*

An engine-generator can be sized as needed and second engines used easily and economically replaced. We advise project owners to build the system for the planned herd expansion in the foreseeable 5-8 years. Expanding concrete construction and gas handling equipment is technically possible, but not always economically wise to do. We discuss this on a case by case basis

Do you have a known scaling factor? Yes No *Please describe.*

Our systems consider future expansion up to 100% of current capacity

Input and output of your unit/system – do you have a mass balance analysis? Yes No *Please describe.*

Yes, prepared on a case- by- case basis. We will provide under a non-disclosure agreement along with a specific estimate request.

Do you consider this technology part of a larger system that you provide? Yes No *Please describe.*

Has your technology been accepted by the NRCS? Yes No *Please describe.*

Yes, NRCS has an anaerobic digester practice standard.

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?

Please call our office with your technology or feasibility questions.