HICKMAN'S family farms
6515 S. Jackrabbit Trail, Buckeye, AZ 85326

To:
Environmental Protection Agency
Janice Chan
Kathleen H. Johnson

Date: 6/27/2016

From:
Shari Yeatts - Hickman's Egg Ranch
6515 S. Jackrabbit Trail
Buckeye, AZ 85326

Re: Cover Letter for HER Request # 4 and # 5

Janice,

Attached to the email are two documents that are referenced in the below responses.

4. *Provide a table that identifies each device used, at any time between January 1, 2011 through May 31, 2016, for thermal processing of chicken litter and/or manure at the facilities, including rotary dryers, drying ovens, and heat/steam treatment devices. For each unit identified provide the following:*

a. *Facility (e.g. Arlington, Tonopah);*
b. *Date of Installation*
c. *Manufacturer and Model*
d. *Rated capacity in pounds per MMBtu*
e. *Fuel Type*
f. *Equipment used to control or mitigate emissions of particulate matter, volatile organic compounds, oxides of nitrogen, carbon monoxide, and ammonia (See DOC # 18)*

5. *Provide the following information regarding manure barns, manure windrows, manure turning, and related buildings and structures:*

a. *Facility (e.g. Arlington or Tonopah);*
b. *Number of manure barns as of May 31, 2016 and approximate dimensions; (See DOC # 0017)*
c. *Number of windrows as of May 31, 2016 and approximate dimensions;*
d. *Schedule(s) for manure turning;*
e. *Equipment used for manure turning, including number and purpose of each type of vehicle/device;*
f. *Engineering design or calculations used for air flow rates or volumes, including concentrations of volatile organic compounds, oxides of nitrogen, carbon monoxide, ammonia or particulate matter, where applicable, i.e. for manure barns; and (See DOC # 18)*
g. *Describe practices used to control, reduce, or mitigate emissions from manure barns, manure windrows, manure turning and manure handling operations*

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Equipment Description 4c	4a	4b	4d	4e	5a	5c	5d	5e	5g
California Pellet Mill Model 3020	ARL	2007	n/a	electricity	Arlington	65 rows 1200' long, 5'tall, and 11' wide on average.	The windrows are turned with a compost turner until the manure is sufficiently dry for further processing.	Case Farm Tractors and 12' HCL Machine Works Compost Turners.	The Manure is managed to be dried as rapidly as possible under the current weather conditions, and is handled as minimally as possible until it reaches a moisture % that is sufficiently dry for further processing. In addition, Hickman Family Farms conducts monthly Hydrogen Sulfide readings at both Arlington and Tonopah comp-lexes in accordance and in compliance with our Maricopa County Air Quality Permit.
California Pellet Mill Model 7000	ARL	2010	n/a	electricity					
Seattle Boiler	ARL	2013	20,000	propane					
Engineered Systems & Equipment EX10 Drying Oven	ARL	2013	6,000	propane					
Vulcan 30' x 6' Drum Dryer	ARL	8/2014	3500	propane					
Vulcan 32' x 7' Drum Dryer	ARL	9/2015	4000*	propane					

* The Vulcan 32' x 7' Drum Dryer was overdesigned. This Equipment is run at 30% of Burner Capacity, which would lead to a Capacity in lbs. per MMBtu of 13,333

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Equipment Description	Items						
	5a	5b	5c	5d	5e	5f	5g
Manure Barns	Arlington & Tonopah	See attached	0	Manure is not turned in the Manure Barns		See attached	The Manure is managed to be dried as rapidly as possible under the current weather conditions, and is handled as minimally as possible until it reaches a moisture % that is sufficiently dry for further processing. In addition, Hickman Family Farms conducts monthly Hydrogen Sulfide readings at both Arlington and Tonopah comp-lexes in accordance and in compliance with our Maricopa County Air Quality Permit.
Manure Windrow	Arlington		65 rows 1200' long, 5'tall, 11' wide on average	The windrows are turned with a compost turner until the manure is sufficiently dry for further processing.	Case Farm Tractors and 12' HCL Machine Works Compost Turners.		
Manure Turning	Arlington		65 rows 1200' long, 5'tall, and 11' wide on average.				
Related Buildings & Structures	No Related Buildings & Structures for these processes.						

Sincerely,

Shari Yeatts

Shari Yeatts
Compliance Manager / HACCP Coordinator
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