PROPOSED AMENDMENT TO RULE 1127 – EMISSION REDUCTIONS FROM LIVESTOCK WASTE

SURVEY FORM

Please complete the form as appropriate and indicate information you consider proprietary or confidential with asterisks (*). Please use additional sheets for additional information.

GENERAL INFORMATION

AQMD Facility ID ☐

Temporary Facility ☐ *(Will be at this location less than 2 years from survey data)*

Permanent Facility ☐

Facility (Farm) Name ☐

Location Address ☐

Mailing Address ☐

Contact Person ☐ Title ☐

Phone ☐ Fax ☐ Email ☐

Number of employees on payroll at this facility ☐

EMISSION CONTROLS CURRENTLY USED

1. Feed and Silage Operations

Feed according to National Research Council guidelines Yes ☐ No ☐

Feed animals high moisture corn or steam-flaked corn Yes ☐ No ☐

Use modified feed to lower nitrogen content to lower odor (i.e., ammonia) Yes ☐ No ☐

Remove spoiled feed from feed lane Once/week ☐ 2 - 4 times/week ☐ Other ☐ *(Frequency)*

Remove spilled feed from feed alleyways Once/2 weeks ☐ Once/week ☐ Other ☐ *(Frequency)*

Remove uneaten wet feed from feed bunks within 24 hours of a rain event Yes ☐ No ☐

Feed or dispose of rations within 48 hours of grinding and mixing rations Yes ☐ No ☐

Store grain in a weatherproof storage structure from October through May Yes ☐ No ☐

Cover the horizontal surface of silage piles Yes ☐ No ☐

Collect leachate from the silage piles and sent it to a waste treatment system, such as a lagoon Once/24 hours ☐ Once/48 hours ☐ Other ☐
(Frequency)

Describe alternative mitigation measure(s) not listed above & subject to AQMD approval, if appropriate

Enclose silage in a silage bag system Yes ☐ No ☐

Enclose silage in a weatherproof structure vented to a control device with at least 80% control efficiency Yes ☐ No ☐

Eliminate silage from animal diet Yes ☐ No ☐

2. Milk Parlor

Flush or hose milk parlor
Immediately prior to ☐ Immediately after ☐ During each milking ☐

Describe alternative mitigation measure(s) not listed above & subject to AQMD approval, if appropriate

Enclose and vent the milk parlor to a control device with at least 80% capture and control efficiency Yes ☐ No ☐

3. Freestall Barns

Vacuum or scrape freestalls Yes ☐ No ☐

Inspect water pipes and troughs, and repair leaks Once/day ☐ Twice/day ☐ Other ☐
(Frequency)

Use non-manure-based bedding (rubber mats, almond hulls, sand, or waterbeds) for at least 90% of the bedding material Yes ☐ No ☐

Remove wet manure from individual cow freestall beds
Once/day ☐ Twice/day ☐ Other ☐
(Frequency)

Rake, harrow, scrape, or grade bedding
Twice/week ☐ 3 – 4 times/week ☐ Other ☐
(Frequency)

Use a dry manure handling system (scraping) Yes ☐ No ☐

Have no animals in exercise pens, corrals, or dry lots at any time Yes ☐ No ☐

Flush freestalls more frequently than milking schedule Yes ☐ No ☐

Describe alternative mitigation measure(s) not listed above & subject to AQMD approval, if appropriate

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4. Corrals

Clean manure (with at least 60 days between cleaning) 4 times/year ☐ 5 - 8 times/year ☐ Other ☐ *(Frequency)*

Clean corrals between April and July Once ☐ 2 – 4 times ☐ Other ☐ *(Frequency)*

Clean corals between October and December Once ☐ 2 – 4 times ☐ Other ☐ *(Frequency)*

Clean concrete areas to maintain manure depth below 12 inches Yes ☐ No ☐

Manage corrals to maintain manure depth below 12 inches Yes ☐ No ☐

Knockdown fence line manure build-up prior to its exceeding 12 inches Yes ☐ No ☐

Scrape or flush feed aprons in all corrals Once/7days ☐ 2 - 4 times/7 days ☐ Other ☐ *(Frequency)*

Slope the surface of the pens at least 3% where the space for each animal is 400 ft^2 or less Yes ☐ No ☐

Slope the surface of the pens at least 1.5% where the space for each animal is more than 400 ft^2 Yes ☐ No ☐

Maintain corrals to ensure drainage and prevent water from standing more than 48 hours after a storm Yes ☐ No ☐

Maintain corrals and drylots so that no puddles would remain for more than 48 hours Yes ☐ No ☐

Install floats on the troughs or use another AQMD approved method to ensure no water overflow or spill onto an earthen ground Yes ☐ No ☐

Inspect water pipes and troughs, and repair leaks Once/day ☐ Twice/day ☐ Other ☐ *(Frequency)*

Harrow, rake, or scrape pens to maintain a dry surface, unless corrals have been unoccupied in the last 30 days Yes ☐ No ☐

Use lime or similar absorbent in the pens Yes ☐ No ☐

Apply thymol to corral soil Yes ☐ No ☐

Apply eugenol to corral soil Yes ☐ No ☐

Describe alternative mitigation measure(s) not listed above & subject to AQMD approval, if appropriate

Install shade structures Yes ☐ No ☐

House animals in an enclosure vented to a control device with at least 80% control efficiency Yes ☐ No ☐

5. Solid Manure/Separated Solids Handling

Cover dry manure piles outside the pens with waterproof covering from October through May Yes ☐ No ☐

Cover dry separated solids outside the pens with waterproof covering from October through May Yes ☐ No ☐

Remove manure from the facility within 72 hours of removal from the pens or corrals Yes ☐ No ☐

Use manure additive to control odor or pH for ammonia emissions Reduction Yes ☐ No ☐

Brand name

Frequency

Describe alternative mitigation measure(s) not listed above & subject to AQMD approval, if appropriate

Compost manure from pens with an aerated static pile vented to a biofilter or other control device with at least 80% control efficiency Yes ☐ No ☐

Store all removed manure in an enclosure vented to control device with at least 80% control efficiency Yes ☐ No ☐

Send at least 51% of animal waste removed from site to a digester with at least 80% control efficiency, within 72 hours of removal from housing Yes ☐ No ☐

6. Liquid Manure Handling

Manage the facility such that lagoons only contain waste from the milking parlor and storm water	Yes ☐	No ☐
Use phototrophic lagoons	Yes ☐	No ☐
Use an anaerobic treatment lagoon	Yes ☐	No ☐
Remove solids from the waste system with a solid separator prior to the waste entering the lagoon	Yes ☐	No ☐
Maintain lagoon at a pH between 6.5 and 7.5	Yes ☐	No ☐

Describe alternative mitigation measure(s) not listed above & subject to AQMD approval, if appropriate

Use an aerobic lagoon	Yes ☐	No ☐
Use a mechanically aerated lagoon	Yes ☐	No ☐
Maintain organic loading in the lagoon such that total solid/volatile solid is less than 3.5 mg/L	Yes ☐	No ☐
Use AQMD approved additional non-standard equipment or chemicals (roller, screw presses, chemical coagulants/flocculants) to increase the percent of solid separation	Yes ☐	No ☐
Cover the lagoon or storage pond vented to a control device with at least 80% control efficiency	Yes ☐	No ☐

7. Land Application of Liquid/Dry Manure

Land incorporate all manure within 72 hours of removal	Yes ☐	No ☐
Only apply manure that is treated with an anaerobic digester, aerobic lagoon or digester	Yes ☐	No ☐
Allow liquid manure to stand in the fields no more than 24 hours after irrigation and apply liquid manure according to appropriate guidelines	Yes ☐	No ☐
Only apply solid manure with moisture content of less than 50%	Yes ☐	No ☐

Describe alternative mitigation measure(s) not listed above & subject to AQMD approval, if appropriate

ADDITIONAL INFORMATION

Please provide your best estimated capital and/or annual maintenance cost for each implemented control measure, if possible

SUGGESTIONS

Please describe in details any feasible and cost-effectiveness control measures/equipment that you would suggest for our consideration.

SEND COMPLETED SURVEY TO:

Ms. Tuyet-Le Pham
Air Quality Specialist
South Coast Air Quality Management District
21865 Copley Dr.
Diamond Bar, CA 91765-4182