<u>Dairy Potential BACT Requirements and Mitigation</u> <u>Measures</u>

Emission Unit:		Cow Housing	
Pollutant	Control Technology/Mitigation Technique		✓
	Concrete freestall and drylot feed lanes and walkways (required)		
	Feed lanes and walkways to be flushed four times a day, scraped four times daily, or vacuumed four times daily (required)		
VOC		scraping and/or manure removal using a pull type manure harvesting ent, except during periods of rainy weather (required)	
VOC	Agricult	sloped to facilitate runoff and drying in accordance to Title 3. Food and ure, Division 2. Animal Industry of the California Code of Regulations. 646.1 (required)	
		edlane at least 8 feet on the corral side of the fence (required)	
		Il enclosure with biogas vented to biofilter with 80% control ogically feasible)	
	Shade S	Structures on open corrals (required)	
	Weekly scraping and/or manure removal using a pull type manure harvesting equipment in morning hours when moisture in air except during periods of rainy weather (required)		
	Use of v maintair minimize	water and/or soil stabilizers on the dirt corral surfaces, as necessary to optimum moisture content, such that PM and VOC emissions are ed. A detailed proposal of this system needs to be provided to the (technologically feasible)	
PM ₁₀	Feeding	Young Stock (heifers and calves) Near Dusk (required)	
	Individual Calve Hutches (Calves under three months) (required)		
	Concrete freestall and drylot feed lanes and walkways (required)		
	meet the	controlled by windbreaks – Downwind and upwind shelterbelts must e USDA National Research Conservation Services (NRCS) vation Practice Standard: Windbreaks/Shelterbelt Establishment - Code chnologically feasible)	
		nes and walkways to be flushed four times a day, scraped four times vacuumed four times a day (required)	
NH_3		scraping and/or manure removal using a pull type manure harvesting ent, except during periods of rainy weather (required)	
	Agricult	sloped to facilitate runoff and drying in accordance to Title 3. Food and ure, Division 2. Animal Industry of the California Code of Regulations. 646.1 (required)	
	Pave fe	edlane at least 8 feet on the corral side of the fence (required)	

Emission Unit:		Milking Barn	
Pollutant	Control Technology/Mitigation Technique		
VOC	Flush/S	pray after each batch of milking (required)	
		re of milk parlor with biogas vented to biofilter with 80% control logically feasible)	
NH ₃	Flush/S		

Emission Unit:		Land Application of Liquid and Solid Manure		
Pollutant	Control Technology/Mitigation Technique			
	Liquid Manure Handling: Irrigation of crops using liquid and slurry manure from a holding / storage pond (required)			
VOC	Slurry Manure Handling: Liquid injection of manure until the crops become tall enough that damage would occur (optional)			
	Solid Manure Handling: Rapid incorporation of the manure into the soil after land application (required)			
NH ₃	Liquid Manure Handling: Irrigation of crops using liquid and slurry manure from a holding / storage pond (required)			
	Liquic	Manure Handling: If injection of manure until the crops become tall enough that damage to occur (only applies to slurry)		
PM ₁₀	On-field Crop(s) Activities (required): 1. Minimize passes 2. Practice conservation tillage 3. Restrict field activity during high wind events (>20 mph) 4. Surface roughening of fallow fields 5. Track-out prevention			

Emission Unit:		Liquid Manure Management		
Pollutant	Control Technology/Mitigation Technique			
VOC	Aerobic lagoon (aeration) (technologically feasible)			
	Anaerobic digester system with 95% VOC control of captured biogas (IC engine w/catalyst or equivalent) (optional)			
	If not proposing an anaerobic digester, you MUST commit to install one if it is required by the final BACT guideline. If you agree, please check the box			
	Anaerobic Treatment Lagoon designed according to NRCS Guideline (two cell system: Mechanical separator – anaerobic treatment lagoon – Storage Pond – Flush from storage Pond) (required)			
NH ₃	Aerobic lagoon (aeration) (technologically feasible)			

Emission Unit:		Mechanical Separators		
Pollutant		Control Technology/Mitigation Technique		
VOC	Dewatering press to reduce moisture content of separated solids (dehydrator or screw press or similar) (required)			
	Weekly	removal of separated solids (required)		
NH ₃		ering press to reduce moisture content of separated solids (dehydrator or press or similar) (required)		
	Weekly	removal of separated solids (required)		

Emission Unit:		Settling basins/Weeping Walls		
Pollutant		Control Technology/Mitigation Technique		
VOC	Dry cor	ntents in basins within a 2-week period (required)		
		ts must either be directly incorporated into land or spread in thin layers, ed and dried (required)		
NH_3	Dry cor	ntents in basins within a 2-week period (required)		
		ts must either be directly incorporated into land or spread in thin layers, ed and dried (required)		

Emission Unit:		Feed		
Pollutant		Control Technology/Mitigation Technique		
	Animals fed in accordance with NRC or other District approved guidelines utilizing routine nutritional analysis for rations (required)			
	Cov	er or ensile all silage Piles except the face of pile (required)		
VOC	Collect leachate from the silage piles and send it to a waste treatment system such as a lagoon at least once every twenty-four (24) hours (required)			
	Uneaten feed should be re-fed or removed daily to minimize emissions from decomposing feed (required)			
		ge Face Management (only disturb the required area of face – leave aining area undisturbed) (required)		
PM ₁₀	Cov	er all silage piles (required)		
F IVI ₁₀	All d	dry grain to be stored in commodity barns (required)		
		mals fed in accordance with NRC or other District approved guidelines zing routine nutritional analysis for rations (required)		
	Cov	er or ensile all silage Piles except the face of the pile (required)		
NH_3	Collect leachate from the silage piles and send it to a waste treatment system such as a lagoon at least once every twenty-four (24) hours (required)			
		eaten feed should be re-fed or removed daily to minimize emissions from composing feed (required)		
		ge Face Management (only disturb the required area of face – leave aining area undisturbed) (required)		