

FORM POL-EMP

EMISSION MITIGATION PLAN FOR POULTRY RANCHES

| | |
|------------------------------------|---|
| Feed Mitigation Measures | <p>Poultry owners/operators must select at least <u>five</u> of the following feed mitigation measures:</p> <ul style="list-style-type: none"><input type="checkbox"/> Feed according to National Research Council (NRC) guidelines.<input type="checkbox"/> Feed animals probiotics designed to improve digestion according to manufacturer recommendations.<input type="checkbox"/> Feed animals an amino acid supplemented diet to meet their nutrient requirements.<input type="checkbox"/> Feed animals feed additives such as amylase, xylanase, and protease, designed to maximize digestive efficiency according to manufacturer recommendations.<input type="checkbox"/> Remove spilled feed from housing at least once every 7 days.<input type="checkbox"/> Enclose grain in a weatherproof storage structure from October through May.<input type="checkbox"/> Feed or dispose of rations within 48 hours of grinding and mixing rations.<input type="checkbox"/> Use feed additives designed to reduce feed decomposition or oxidization.<input type="checkbox"/> Remove uneaten wet feed from the housing within 24 hours of a rain event. |
| Housing Mitigation Measures | <p>Poultry owners/operators must select at least <u>four</u> of the following mitigation measures for each animal housing structure:</p> <ul style="list-style-type: none"><input type="checkbox"/> Remove caked animal waste at least once every 14 days.<input type="checkbox"/> Clean under poultry cages at least once every 14 days.<input type="checkbox"/> Use poultry litter additives designed to reduce air emissions or moisture content in litter, such as aluminum sulfate or sodium bisulfate, according to manufacturer recommendations.<input type="checkbox"/> Use a dry housing cleaning method at all times, except when a wet cleaning method is required for animal health or biosecurity issues.<input type="checkbox"/> Use drinkers that do not have a drip system.<input type="checkbox"/> Adjust the height, volume, and location of drinkers at least once every 14 days.<input type="checkbox"/> Use no foggers in the house.<input type="checkbox"/> Only use fogger systems designed, operated and maintained according to manufacturer recommendations that provide water droplets with an average size of 50 microns or less.<input type="checkbox"/> Slope the surface of the house at least 3%.<input type="checkbox"/> Install mounds or berms up gradient to prevent the runoff of stormwater into pens (only an option for animals allowed to freely move between indoor housing structures and outdoor pens).<input type="checkbox"/> Inspect water pipes and drinkers and repair leaks at least once every 14 days.<input type="checkbox"/> Maintain the roof structure and manage roof runoff in accordance with the applicable standards in NRCS Field Office Technical Guide Code 558 or other applicable standards approved by the APCO, ARB, and EPA.<input type="checkbox"/> Vent housing to a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%.<input type="checkbox"/> Use a belt litter removal system that dries the litter.<input type="checkbox"/> House animals in a tunnel ventilated houses with mechanical ventilation.<input type="checkbox"/> Use a litter drying system, such as a flat bed drying system. |

| | |
|--|--|
| <p>Solid Waste Mitigation Measures</p> | <p>Poultry owners/operators which handle solid animal waste or separated solids animal waste stored outside the animal housing must select at least <u>one</u> of the following solid or separated solids animal waste mitigation measures:</p> <p>Please note, only one of the following two measures will count towards the one required for this category.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Remove all animal waste from the facility within 72 hours of removal from housing. <input type="checkbox"/> Send all animal waste to a lagoon within 72 hours of removal from housing. <p>Please note, any of the following five measures may be selected.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cover animal waste outside the housing with a weatherproof covering from October through May, except for times, not to exceed 24 hours per event, when wind events remove the covering. <input type="checkbox"/> Use a solid animal waste handling system in housing, such as stockpiles, solid land application, or a thin bed animal waste drying system, instead of a liquid system such as flushing, animal waste storage ponds, or animal waste treatment lagoons. <input type="checkbox"/> Send at least 51% of the animal waste removed from site to a digester, with a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%. <input type="checkbox"/> Compost animal waste removed from the housing with an aerated static pile vented to a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%. |
| <p>Liquid Waste Mitigation Measures</p> | <p>Poultry owners/operators which handle liquid animal waste must select at least <u>one</u> of the following liquid animal waste mitigation measures:</p> <p>Please note, only one of the following two measures will count towards the one required for this category.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Use phototrophic lagoon as defined in Rule 496, Section 234. <input type="checkbox"/> Use an anaerobic lagoon as defined in Rule 496, Section 204. <p>Please note, only one of the following two measures will count towards the one required for this category.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Use an aerobic lagoon as defined in Rule 496, Section 202. <input type="checkbox"/> Use a mechanically aerated lagoon. <p>Please note, any of the following seven measures may be selected.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Manage the facility such that there are no lagoons at the facility.. <input type="checkbox"/> Remove solids from the waste system with a solid separator system, prior to the waste entering the lagoon. <input type="checkbox"/> Maintain lagoon pH between 6.5 and 7.5. <input type="checkbox"/> Maintain organic loading in the lagoon such that the total solids are less than 3.5 mg (dry weight)/mL, or total volatile solids are less than 3.5 mg/mL. <input type="checkbox"/> Use additional non-standard equipment or chemicals on the solid separator system, such as roller or screw presses or chemical coagulants and flocculants, that increase the percent of solid separation achieved by the separator and that is approved by the APCO, ARB, and EPA. <input type="checkbox"/> Cover the lagoon or storage pond and vent to a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%. |