

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-406-1-5

**LEGAL OWNER OR OPERATOR:** DARLING INTERNATIONAL INC.

**MAILING ADDRESS:** PO BOX 11445  
FRESNO, CA 93773

**LOCATION:** 795 W BELGRAVIA  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF ANIMAL RENDERING OPERATION INCLUDING A RAW MATERIAL RECEIVING OPERATION EQUIPPED WITH A RECEIVING AREA, SURGE BIN, PROCESSING EQUIPMENT, MEAL GRINDING AREA, AND WASTEWATER TREATMENT SYSTEM WITH TWO FLOW EQUALIZATION TANKS SERVED BY ONE 100,000 CFM PACKED-TOWER WET SCRUBBER AND ONE 75,000 CFM PACKED-TOWER WET SCRUBBER (75,000 CFM PACKED-TOWER WET SCRUBBER SHARED WITH C-0406-4): INCREASE RAW MATERIAL THROUGHPUT LIMIT TO 1,510,560 LBS/DAY

**CONDITIONS**

1. Total facility raw material process rate shall not exceed 1,510,560 pounds per day. [District Rules 2201 and 4102]
2. The rendering facility, associated equipment, and surrounding Darling International property shall be operated and maintained in such a manner as to prevent the generation of odors which may constitute a nuisance. [District Rule 4102]
3. The wastewater system shall be operated and maintained such that it does not cause a public nuisance. [District Rule 4102]
4. Air pollution control equipment shall be maintained in good operating condition and shall be operated in accordance with the manufacturer's instructions when the process equipment is in operation. [District Rule 4102]
5. All air pollution equipment and associated ducting shall be maintained in a leak-free manner to prevent the escape of air contaminants to the outside atmosphere prior to their treatment in the odor control system. [District Rule 4102]
6. The plant shall not be operated unless the odor control system is fully operating. All potential points of odor shall be contained and/or treated to prevent escape into the atmosphere. Odorous vapor shall only be vented to the odor control system. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**DAVID WARNER, Director of Permit Services**

C-406-1-5 : Aug 30 2007 1:14PM -- THAOC : Joint Inspection NOT Required

7. The processing facility shall be kept under negative pressure at all times when in operation. No nuisance shall be allowed. [District Rule 4102]
8. Odor detection tubes shall be maintained in the scrubber exhaust so samples of the discharge air may be evaluated at ground level. [District Rule 4102]
9. Permittee shall make available to District inspection staff an operational and portable digital anemometer with which to verify that the main processing building is under negative pressure during periods of plant operation. The anemometer shall be calibrated per the manufacturer's recommendations. Records of anemometer calibrations shall be kept, maintained, and made available for District inspection upon request. Records of anemometer calibrations shall be retained for at least five years. [District Rule 4102]
10. Equipment shall be operated in such a manner as to not constitute a nuisance or annoyance to a considerable number of people. [District Rule 4102]
11. Permittee shall maintain an updated odor control plan detailing all methods of nuisance odor control as it applies to the facility. The odor control plan shall be made available to all employees and shall be used as a training aid for new employees. The odor control plan shall be made available for District inspection upon request. [District Rule 4102]
12. The District shall be immediately notified of any breakdown or malfunction as defined in District Rule 1100 that reduces or disrupts the normal processing of odors allowed by this permit. [District Rules 1100 and 4102]
13. The District shall have access to the facility at any time to inspect operations, review records, or perform other actions to assure compliance. [District Rule 1070]
14. The District shall have authority to investigate possible odors alleged to originate from the facility and to make a determination of whether or not a nuisance exists, either in response to a complaint or on its own initiative. [District Rule 4102]
15. Bulk blood and poultry feathers shall not be processed at this facility. [District Rule 4102]
16. Delivery trucks shall be unloaded within 2 hours of entering the property. [District Rule 4102]
17. Trucks shall only be unloaded inside of the main processing building under negative pressure to ensure any nuisance odors are controlled by the scrubbers. [District Rule 4102]
18. All raw material trucks shall be maintained in condition to prevent leakage of solid or liquid material. [District Rule 4102]
19. No outside storage of raw material is allowed. Trucks waiting their turn to unload within the 2 hour unload time limitation are not considered outside storage. [District Rule 4102]
20. All trucks delivering raw material shall be washed clean of raw material and raw material residue prior to exiting the controlled process building to minimize nuisance emissions. Truck tires shall be especially washed such that no trackout of raw material or raw material residue occurs. No washing of trucks to remove raw material and raw material residue shall be performed outside. [District Rule 4102]
21. The unloading area shall be washed as necessary to prevent any trackout of odor-causing materials. [District Rule 4102]
22. Except during periods of equipment breakdown as determined by the District under Rule 1100, all material received shall be processed within 24 hours of receipt. Each delivery of material shall be monitored to ensure that processing is performed within this time limit. [District Rules 1100 and 4102]
23. During periods of equipment breakdown as determined by the District under Rule 1100, no further deliveries of raw material shall be accepted until the breakdown condition is remedied. [District Rules 1100 and 4102]
24. The 75,000 cfm scrubber shall be monitored daily to ensure that the pressure drop does not fall below a minimum pressure of 3 inches of water column or exceed a maximum pressure of 6 inches of water column. [District Rule 4102]
25. The 100,000 cfm scrubber shall be monitored daily to ensure that the pressure drop does not fall below a minimum pressure of 1 inch of water column or exceed a maximum pressure of 4 inches of water column. [District Rule 4102]
26. Scrubbers and scrubber recycle tanks shall be drained and thoroughly cleaned at least once per week. Scrubber liquids shall be disposed of in a manner to prevent a release which may constitute a nuisance odor. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

27. When using chlorine dioxide as the scrubber oxidant, the oxidation-reduction potential (ORP) shall be at least positive 300 mV, measured on a continuous basis. [District Rule 4102]
28. When using chlorine dioxide as the scrubber oxidant, the ORP probe shall be calibrated in accordance with the manufacturer's specifications. A copy of the user's manual or like document from the manufacturer shall be maintained onsite so that the District may verify calibration frequency and procedures. [District Rule 4102]
29. When using chlorine dioxide as the scrubber oxidant, the permittee shall maintain a log of the ORP calibrations which shall include the date and time of each calibration and any corrective actions needed to bring any of the ORP probes back into calibration [District Rule 4102]
30. When using chlorine dioxide as the scrubber oxidant, if the ORP of the liquor solution used in any of the scrubbers falls below the permitted level, the permittee shall immediately correct the ORP of the scrubber liquor solution to comply with the acceptable limit. If the ORP of the liquor solution continues to be below the acceptable limit for more than 10 consecutive minutes, the permittee shall notify the District within the following 1 hour. [District Rule 4102]
31. When using Radox as the scrubber oxidant, the pH of the scrubber liquor shall be maintained between 3.0 and 6.0, measured on a continuous basis. [District Rule 4102]
32. When using Radox as the scrubber oxidant, if the pH of the liquor solution used in any of the scrubbers falls out of the permitted acceptable range, the permittee shall immediately correct the pH of the scrubber liquor solution to within the acceptable range. If the pH of the liquor solution continues to be out of the permitted acceptable range for more than 10 consecutive minutes, the permittee shall notify the District within the following 1 hour. [District Rule 4102]
33. When using Radox as the scrubber oxidant, all of the pH monitors shall be calibrated in accordance with the manufacturer's specifications. A copy of the user's manual or like document from the manufacturer shall be maintained onsite so that the District may verify calibration frequency and procedures. [District Rule 4102]
34. When using Radox as the scrubber oxidant, the permittee shall maintain a log of the pH monitor calibrations which shall include, the date and time of each calibration and any corrective actions needed to bring any of the pH monitors back into calibration. [District Rule 4102]
35. The premises of the plant shall be kept clean and free from spillage of raw or finished materials, refuse, and standing pools of water which may present a nuisance condition. All raw material spills shall be cleaned up immediately. [District Rule 4102]
36. Hot water under pressure and detergent shall be used for washing. No raw material or odor-causing residue shall remain in trailers after washing. All wash down water and residue shall be confined and directed to the appropriate sewage disposal system. [District Rule 4102]
37. The main processing building doors, meal building doors, and meal load out doors shall remain closed except during actual entry or exit of trucks and/or personnel or in case of emergency. [District Rule 4102]
38. Openings to the processing building shall be controlled so the building remains under negative pressure at all times except as otherwise allowed in this permit. [District Rule 4102]
39. The afterburner shall be operated whenever the cooker is processing material. [District Rule 4102]
40. No grease shall be stored outside the storage tanks unless it is contained within the process building and removed from the property on a weekly basis. [District Rule 4102]
41. The odor concentrations, in odor units per cubic foot (OU/CF), shall not exceed the following levels at each exhaust point: a) 75,000-cfm scrubber - 35 OU/CF, b) 100,000-cfm scrubber - 35 OU/CF, and c) afterburner - 25 OU/CF. [District Rule 4102]
42. Permittee shall maintain daily record of wind speed, wind direction, and ambient temperature. Data shall be logged and initialed on a daily basis. Records shall be retained for at least five years and shall be made available for District inspection upon request. [District Rule 1070]
43. When using Radox in the scrubbers, permittee shall maintain a continuous record of the pH of the scrubber solution. Records shall be retained for at least five years and shall be made readily available for District inspection upon request. [District Rule 1070]

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CONDITIONS CONTINUE ON NEXT PAGE

44. When using chlorine dioxide in the scrubbers, permittee shall maintain a continuous record of the ORP of the scrubber solution. Records shall be retained for at least five years and shall be made readily available for District inspection upon request. [District Rule 1070]
45. Permittee shall maintain record of all packed-tower scrubber cleaning procedures including date, time, and personnel performing the procedure. Records shall be retained for at least five years and shall be made readily available for District inspection upon request. [District Rule 1070]
46. Permittee shall maintain records of daily processing rates and monthly fuel consumption. Records shall be retained for at least five years and shall be made readily available for District inspection upon request. [District Rule 1070]

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