

**APPENDIX A**  
**Current PTOs**

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-406-1-2

**EXPIRATION DATE:** 08/31/2008

**EQUIPMENT DESCRIPTION:**

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)

## PERMIT UNIT REQUIREMENTS

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1. Total facility raw material process rate shall not exceed 850,000 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]
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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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. 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]
25. 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]
26. 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]
27. 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]
28. 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]
29. 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]
30. 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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

31. 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]
32. 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]
33. 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]
34. 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]
35. 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]
36. 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]
37. The afterburner shall be operated whenever the cooker is processing material. [District Rule 4102]
38. 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]
39. 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]
40. 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]
41. 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]
42. 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]
43. 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]
44. 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]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-406-2-2

**EXPIRATION DATE:** 08/31/2008

**EQUIPMENT DESCRIPTION:**

ANIMAL RENDERING OPERATION EQUIPPED WITH AN ATLAS-STORD TST-2264 COOKER, TALLOW WORK TANK, ROTO-SHEAR FAT DRAINER, PRESSES, SCREWS, CENTRIFUGE, AND CONDENSER SERVED BY A 12,000 CFM VENTURI SCRUBBER AND AN 18 MMBTU/HR NATURAL GAS-FIRED THERMAL OXIDIZER WITH AN ASSOCIATED 350 HP HEAT RECOVERY STEAM BOILER

## PERMIT UNIT REQUIREMENTS

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1. Total facility raw material process rate shall not exceed 850,000 pounds per day. [District Rules 2201 and 4102]
2. 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 vapors shall only be vented to the odor control system. [District Rule 4102]
3. 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 NSR Rule]
4. 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]
5. 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]
6. 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]
7. 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]
8. 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]
9. All noncondensable odors from the condenser and odors from the cooker shall be vented to the afterburner. [District Rule 4102]
10. The afterburner shall be operated whenever the cooker is processing material. During periods of afterburner breakdown as determined by the District under Rule 1100, all noncondensable odors from the condenser and odors from the cooker shall be vented to the 75,000 cfm scrubber listed under permit C-406-1. [District Rules 1100 and 4102]
11. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
12. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
13. 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]
14. Natural gas consumption shall not exceed 2,470,000 cubic feet per week. [District NSR Rule]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

15. Emissions from the thermal oxidizer shall not exceed 0.04 lb-PM10/hr, 0.01 lb-SO2/hr, 2.52 lb-NO2/hr, 0.05 lb-HC/hr, nor 0.63 lb-CO/hr. [District NSR Rule]
16. Thermocouple at rear of oxidizer shall provide accurate temperature readings of the flue gas. An audible alarm shall be installed to alert plant personnel to low temperature readings. [District NSR Rule]
17. All non-condensibles and vapors shall be incinerated in the thermal oxidizer at a minimum temperature of 1200 F and a minimum retention time of 0.5 seconds. Temperature shall be monitored by a continuously recording temperature device. [District Rule 4102]
18. Permittee shall maintain record of weekly 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]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-406-4-3

**EXPIRATION DATE:** 08/31/2008

**EQUIPMENT DESCRIPTION:**

MEAL PRODUCT STORAGE AND LOADOUT OPERATION WITH A CRAX RECEIVING OPERATION AND FOUR ENCLOSED STORAGE LOADOUT BINS ALL SERVED BY A PACKED-TOWER SCRUBBER (SHARED WITH PERMIT C-406-1), EIGHT TALLOW AND YELLOW GREASE LOADOUT TANKS, AND TWO MEAT AND BONE MEAL STORAGE SILOS

## PERMIT UNIT REQUIREMENTS

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1. 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]
2. The overhead loadout bins 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. [District Rule 4102]
3. 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]
4. The Air Pollution Control District shall be immediately notified of any breakdown or malfunction that reduces or disrupts the normal processing of odors required by this permit. [District Rule 4102]
5. All loadout material trucks shall be maintained in condition to prevent leakage of solid or liquid material. [District Rule 4102]
6. The 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]
7. Openings to the processing building shall be controlled so the building remains under negative pressure at all times except during the entry or exit of trucks or personnel. [District Rule 4102]
8. 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]
9. 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]
10. 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]
11. 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]
12. Total facility raw material process rate shall not exceed 850,000 pounds per day. [District Rule 4102]
13. Total meat and bone meal loaded into delivery trucks shall not exceed 648,000 pounds per day. [District Rule 4102]
14. Emissions from this loadout system shall not exceed 0.7 lb PM10/day. [District Rule 2201]
15. Permittee shall record daily quantity of raw material processed and quantity of meat and bone meal loaded from the storage bins. Records shall be retained for at least five years and shall be made readily available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

**APPENDIX B**  
**Raw Material Receipt Records**



**Raw Material Process Rate Compliance Form**

1/13/2007

Date	Received	Shipped	Work In Process		Daily Process Rate
			Beginning	Ending	
8-Jan	1,131,240	302,510	0	0	828,730
9-Jan	1,286,800	395,420	0	100,000	791,380
10-Jan	1,352,050	397,060	100,000	225,000	829,990
11-Jan	1,380,020	434,590	225,000	325,000	845,430
12-Jan	1,416,140	651,380	325,000	350,000	739,760
13-Jan	1,040,440	382,980	350,000	275,000	732,460
14-Jan			275,000	0	275,000

**Daily Compliance Form week Ending****1/27/2007**

<b>Date</b>	<b>Received</b>	<b>Shipped</b>	<b>Work In Beginning</b>	<b>Process Ending</b>	<b>Daily Process Rate</b>
22-Jan	1,122,420	342,540	0	75,000	704,880
23-Jan	1,158,230	433,860	75,000	0	799,370
24-Jan	1,259,220	434,180	0	0	825,040
25-Jan	1,219,257	340,880	0	50,000	828,377
26-Jan	1,273,970	493,520	50,000	0	830,450
27-Jan	1,075,040	259,120	0	0	815,920
28-Jan	0	0	0	0	0
	<b>7,108,137</b>	<b>2,304,100</b>			<b>4,804,037</b>

**Raw Material Process Rate Compliance Form**

2/10/2007

Date	Received	Shipped	Work In Process		Daily Process Rate
			Beginning	Ending	
5-Feb	963,040	345,840	0	0	617,200
6-Feb	1,291,330	348,920	0	200,000	742,410
7-Feb	1,381,410	387,740	200,000	350,000	843,670
8-Feb	1,299,070	480,600	350,000	375,000	793,470
9-Feb	1,350,790	344,960	375,000	575,000	805,830
10-Feb	300,320		575,000	100,000	775,320
11-Feb			100,000	0	100,000

**Raw Material Process Rate Compliance Form**

2/24/2007

Date	Received	Shipped	Work In Process		Daily Process Rate
			Beginning	Ending	
19-Feb	800,920	0	0	100,000	700,920
20-Feb	1,262,056	512,236	100,000	50,000	799,820
21-Feb	1,264,340	431,400	50,000	75,000	807,940
22-Feb	1,250,700	348,520	75,000	150,000	827,180
23-Feb	1,224,870	429,900	150,000	150,000	794,970
24-Feb	1,010,460	203,660	150,000	150,000	806,800
25-Feb			150,000	0	150,000

**Raw Material Process Rate Compliance Form**

3/10/2007

Date	Received	Shipped	Work In Process		Daily Process Rate
			Beginning	Ending	
5-Mar	1,135,140	285,780	0	75,000	774,360
6-Mar	1,311,440	435,120	75,000	125,000	826,320
7-Mar	1,328,860	391,200	125,000	250,000	812,660
8-Mar	1,133,650	262,340	250,000	300,000	821,310
9-Mar	1,113,480	382,720	300,000	225,000	805,760
10-Mar	371,040	167,400	225,000	0	428,640
11-Mar			0	0	0

**APPENDIX C**  
**Draft ATCs and Emissions Profiles**

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.

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DAVID WARNER, Director of Permit Services  
C-406-1-5 : Aug 22 2007 1:41PM - LET : 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]

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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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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: C-406-2-4

LEGAL OWNER OR OPERATOR: DARLING INTERNATIONAL INC.

MAILING ADDRESS: PO BOX 11445  
FRESNO, CA 93773

LOCATION: 795 W BELGRAVIA  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

ANIMAL RENDERING OPERATION EQUIPPED WITH AN ATLAS-STORD TST-2264 COOKER, TALLOW WORK TANK, ROTO-SHEAR FAT DRAINER, PRESSES, SCREWS, CENTRIFUGE, AND CONDENSER SERVED BY A 12,000 CFM VENTURI SCRUBBER AND AN 18 MMBTU/HR NATURAL GAS-FIRED THERMAL OXIDIZER WITH AN ASSOCIATED 350 HP HEAT RECOVERY STEAM BOILER: 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 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 vapors shall only be vented to the odor control system. [District Rule 4102]
3. 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 NSR Rule]
4. 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]
5. 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]
6. 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]
7. 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]

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-406-2-4: Aug 22 2007 1:41PM - LET Joint Inspection NOT Required

8. 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]
9. All noncondensable odors from the condenser and odors from the cooker shall be vented to the afterburner. [District Rule 4102]
10. Permittee shall inspect the air/fuel mixing cone in the thermal oxidizer at least once quarterly to ensure that the integrity of the cone is not compromised, and to ensure that the thermal oxidizer is operating at optimum. Records of quarterly inspection shall be maintained. [District Rule 4102]
11. The afterburner shall be operated whenever the cooker is processing material. During periods of afterburner breakdown as determined by the District under Rule 1100, all noncondensable odors from the condenser and odors from the cooker shall be vented to the 75,000 cfm scrubber listed under permit C-406-1. [District Rules 1100 and 4102]
12. {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
13. {15} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
14. 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]
15. Natural gas consumption shall not exceed 2,470,000 cubic feet per week. [District NSR Rule]
16. Emissions from the thermal oxidizer shall not exceed 0.04 lb-PM10/hr, 0.01 lb-SO2/hr, 2.52 lb-NO2/hr, 0.05 lb-HC/hr, nor 0.63 lb-CO/hr. [District NSR Rule]
17. Thermocouple at rear of oxidizer shall provide accurate temperature readings of the flue gas. An audible alarm shall be installed to alert plant personnel to low temperature readings. [District NSR Rule]
18. All non-condensibles and vapors shall be incinerated in the thermal oxidizer at a minimum temperature of 1200 F and a minimum retention time of 0.5 seconds. Temperature shall be monitored by a continuously recording temperature device. [District Rule 4102]
19. Permittee shall maintain record of weekly 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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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

DRAFT

**PERMIT NO:** C-406-4-5

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

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

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

**EQUIPMENT DESCRIPTION:**

MEAL PRODUCT STORAGE AND LOADOUT OPERATION WITH A CRAX RECEIVING OPERATION AND FOUR ENCLOSED STORAGE LOADOUT BINS ALL SERVED BY A PACKED-TOWER SCRUBBER (SHARED WITH PERMIT C-406-1), EIGHT TALLOW AND YELLOW GREASE LOADOUT TANKS, AND TWO MEAT AND BONE MEAL STORAGE SILOS: REMOVE RAW MATERIAL THROUGHPUT LIMIT (ONLY APPLICABLE TO UNITS C-406-1 AND C-406-2)

**CONDITIONS**

1. 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]
2. The overhead loadout bins 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. [District Rule 4102]
3. 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]
4. The Air Pollution Control District shall be immediately notified of any breakdown or malfunction that reduces or disrupts the normal processing of odors required by this permit. [District Rule 4102]
5. All loadout material trucks shall be maintained in condition to prevent leakage of solid or liquid material. [District Rule 4102]
6. The 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]
7. Openings to the processing building shall be controlled so the building remains under negative pressure at all times except during the entry or exit of trucks or personnel. [District Rule 4102]
8. 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]

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-406-4-5 : Aug 22 2007 1:41PM - LET : Joint Inspection NOT Required

9. 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]
10. 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]
11. 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]
12. Total meat and bone meal loaded into delivery trucks shall not exceed 648,000 pounds per day. [District Rule 4102]
13. Emissions from this loadout system shall not exceed 0.7 lb PM10/day. [District Rule 2201]
14. Permittee shall record daily quantity of raw material processed and quantity of meat and bone meal loaded from the storage bins. 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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Permit #: C 406 -1 -5

Issued: / /  
Implemented: / /

Last Updated

09/14/07 LET

Facility: DARLING INTERNATIONAL INC.

Equipment Prebaselined:  Yes  
 No

	<b>NOX</b>	<b>SOX</b>	<b>PM10</b>	<b>CO</b>	<b>VOC</b>
Potential to Emit (lb/Yr):	0	0	0	0	0
Daily Emis. Limit (lb/Day):	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)	1: 0	0	0	0	0
	2: 0	0	0	0	0
	3: 0	0	0	0	0
	4: 0	0	0	0	0
Check if offsets are triggered but exemption applies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Offset Ratio:					
Quarterly Offset Amounts (lb/Qtr)	1:				
	2:				
	3:				
	4:				
SLC ID (PTE):					
SLC ID (DEL):					

Facility SLC

Exit

Permit #: C 406 -2 -4  
 Issued: / /  
 Implemented: / /  
 Facility: DARLING INTERNATIONAL INC.

Last Updated  
 08/14/07 LET

Equipment Prebaselined:  Yes  No

	NOX	SOX	PM10	CO	VOC
Potential to Emit (lb/Yr):	18870	75	300	4717	374
Daily Emis. Limit (lb/Day):	60.5	0.2	1.0	15.1	1.2
Quarterly Net Emissions Change (lb/Qtr)					
1:	0	0	0	0	0
2:	0	0	0	0	0
3:	0	0	0	0	0
4:	0	0	0	0	0
Check if offsets are triggered but exemption applies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Offset Ratio:					
Quarterly Offset Amounts (lb/Qtr)					
1:					
2:					
3:					
4:					
SLC ID (PTE):					
SLC ID (DEL):					

Facility SLC

Exit



Permit #: C 406 -4 -5

Issued: / /  
Implemented: / /

Last Updated

08/14/07 LET

Facility: DARLING INTERNATIONAL INC.

Equipment  Yes  
Prebaselined:  No

	<b>NOX</b>	<b>SOX</b>	<b>PM10</b>	<b>CO</b>	<b>VOC</b>
Potential to Emit (lb/Yr):	0	0	227	0	0
Daily Emis. Limit (lb/Day):	0.0	0.0	0.7	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)	1: 0	0	0	0	0
	2: 0	0	0	0	0
	3: 0	0	0	0	0
	4: 0	0	0	0	0
Check if offsets are triggered but exemption applies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Offset Ratio:					
Quarterly Offset Amounts (lb/Qtr)	1:				
	2:				
	3:				
	4:				
SLC ID (PTE):					
SLC ID (DEL):					

Facility SLC

Exit