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STATEMENT OF BASIS

for the issuance of Draft Air Permit #2058-AR-3:

1. **PERMITTING AUTHORITY:**

Arkansas Department of Environmental Quality Air Division 5301 Northshore Drive North Little Rock, AR 72118-5317

2. APPLICANT:

Pet Solutions, LLC RR 1, Box 306, Mt. Tabor Rd. Danville, AR 72833

3. **PERMIT WRITER:** Parviz Mokhtari

4. PROCESS DESCRIPTION AND NAICS CODE:

NAICS Description: Independent rendering plant that produces animal feed ingredients from poultry by-products

NAICS Code:

311613

5. SUBMITTALS:

8/14/2007

6. REVIEWERS NOTES:

Pet Solutions, LLC operates a poultry by-product plant near Danville. The purpose of the rendering facility is to transform inedible meat processing by-products from poultry processors into grease/oils and protein solids (bone meal) which can be used as ingredients in the animal feed processing industry. This permit modification authorizes the following changes:

- Remove SN-01 from service.
- Install and operate five additional cookers (will effect emissions from: SN-05 and SN-06);
- Install additional storage bins (will effect emissions from: SN-04);
- Install and operate meal elevators and aspirator (SN-07);
- Include ash bin/conveyor system on the wood fired boiler (insignificant activity);
- Include the wood chip/sawdust storage piles into the current permit (insignificant activity).
- Allow the facility to burn landfill gas (methane) in the gas boiler.
- Allow the close door condition to be removed for the east entrance door (process building)

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and the north entrance door (raw material storage building).

The proposed overall annual permitted emissions will be 2.1 tpy PM, 1.7 tpy PM10, and 30.5 tpy NOx.

7. **COMPLIANCE STATUS:**

The following summarizes the current compliance status of the facility including active/pending enforcement actions and recent compliance activities and issues:

There are no known current active/pending enforcement actions or recent compliance activities related to this facility.

8. APPLICABLE REGULATIONS:

PSD Applicability

Did the facility undergo PSD review in this permit (i.e., BACT,	N
Modeling, et cetera?	
Has this facility undergone PSD review in the past?	N
Is this facility categorized as a major source for PSD?	N
100 tpy and on the list of 28 (100 tpy)?	N
250 tpy all other	N
PSD Netting	
Was netting performed to avoid PSD review in this permit?	N

Source and Pollutant Specific Regulatory Applicability

Source	Pollutant	Regulation [NSPS, NESHAP
		(Part 61 & Part 63), or PSD
		<u>only</u>]
		NSPS Part 60, Subpart Dc
SN-05 and SN-06	None, Recordkeeping only	Standards of Performance for
Sit os and Sit oo	rtone, recordaceping omy	Small Industrial-Commercial-
		Institutional

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9. EMISSION CHANGES:

The following table summarizes plant wide emission changes associated with this permitting action.

	Plant Wide Permitted	Emissions (ton/yr)	
Pollutant	Air Permit [Previous Permit 2058-AR-2]	Air Permit [Permit #]	Change
PM ₁₀	39.7	41.4	1.7
PM	39.7	41.8	2.1
SO ₂	3.3	3.2	-0.1
VOC	3.9	3.2	-0.7
CO	96.5	87.5	-9.0
NO _X	52.8	83.3	30.5

10. MODELING:

Criteria Pollutants

Examination of the source type, location, plot plan, land use, emission parameters, and other available information indicate that modeling is not warranted at this time.

Other Modeling

Odor

Odor modeling for sources emitting styrene: N/A

H₂S Modeling: N/A

11. Non-Criteria Pollutants

N/A

12. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01	Removed From Service				

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
02			Removed Fr	om Service	
03	Estimate	N/A	N/A	N/A	Just odor abatement equipment
04	AP-42	Grain Loading	None	N/A	They used Grain loading to estimate the offloading of their product which shouldn't be as dusty.
05	AP-42 except for NOx (see comment on this Table)	Natural Gas	None	N/A	 Will use Landfill methane gas (emission calculation for NOx is based on an average (0.38 lb NOx /MMBTU) of a default emission factor range of 0.22 -0.54 lb NOx /MMBTU Initial performance test for NOx for the verification of the emission factors is required
06	AP-42	Wood factors	Multiclone	N/A	test will verify CO and VOC (The initial performance test was performed on April 11, 2006)
	AP-42	Dump pit Table 9.9.1-1	None	N/A	
07	AP-42	Conveyor & Handling Table 9.9.1-2	None	N/A	Max raw meal processed 17,000 tons/year

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13. TESTING REQUIREMENTS:

This permit requires stack testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
05 (Using landfill gas)	NOx	7E	initial only	no good data available

14. MONITORING OR CEMS

The permittee must monitor the following parameters with CEMs or other monitoring equipment (temperature, pressure differential, etc), frequency of recording and the need for records included in any annual, semiannual or other reports.

	Parameter or			
	Pollutant to be	Method of Monitoring (CEM,		Report
SN	Monitored	Pressure Gauge, etc)	Frequency*	(Y/N)**
		N/A		···

^{*} Indicate frequency of recording required for the parameter (Continuously, hourly, daily, etc.)

15. RECORD KEEPING REQUIREMENTS

The following are items (such as throughput, fuel usage, VOC content of coating, etc) that must be tracked and recorded, frequency of recording and whether records are needed to be included in any annual, semiannual or other reports.

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
03	ORP	200 mA	Every 8 Hours	N
05	Natural Gas Usage	No limit	Monthly	N
06	Cardboard Poultry fat Poultry meal Sludge	15.8 tons per day 1.9 tons per day 4.8 tons per day 11.3 tons per day	daily	N
07	Meal	3900 tons/12 consecutive month	monthly	N

^{**} Indicates whether the parameter needs to be included in reports.

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16. OPACITY

SN	Opacity %	Justification (NSPS limit, Dept. Guidance, etc)	Compliance Mechanism (daily observation, weekly, control equipment operation, etc)
SN-04	5%	§18.501 of Regulation 18	
SN-05	5%	§18.501 of Regulation 18	
SN-06	20%	§19.503 of Regulation 19	
SN-07	5%	§18.501 of Regulation 18	

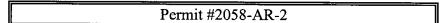
17. **DELETED CONDITIONS:**

The previous permit contained the following deleted Specific Conditions.

Former	
SC	Justification for removal
	None

18. VOIDED, SUPERSEDED OR SUBSUMED PERMITS

List all active permits voided/superseded/subsumed by issuance of this permit for this facility.



19. CONCURRENCE BY:

The following supervisor concurs with the permitting decision:

Phillip Murphy, P.E.

^{*}Indicate frequency of recording required for the item (Continuously, hourly, daily, etc.)

^{**}Indicates whether the item needs to be included in reports