STATEMENT OF BASIS

for the issuance of Draft Air Permit #: 1949-AR-4

1. PERMITTING AUTHORITY:

Arkansas Department of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118

2. APPLICANT:

Joernes Healthcare, Incorporated 100 East Brookhaven Dumas, AR 71639

3. PERMIT WRITER: Charles Hurt

4. PROCESS DESCRIPTION AND NAICS CODE:

NAICS Code	NAICS Description
337122	Nonupholstered Wood Furniture Manufacturing
337121	Upholstered Wood Furniture Manufacturing

5. SUBMITTALS: 4/5/2006

6. REVIEWER'S NOTES:

Joernes Healthcare, Incorporated. formerly known as Akin Industries, Incorporated. manufactures wood and upholstered furniture for the health care industry at its location of 100 East Brookhaven, Dumas, Desha County, Arkansas. The facility proposed to utilize existing unused production capacity and to increase the permitted plantwide VOC limit by 8.8 tpy.

7. COMPLIANCE STATUS:

The facility was last inspected March 16, 2007 and determined to be out of compliance with the existing permit. The facility had exceeded the VOC limit established in the permit for eleven months out of the reporting period between March 2005 and February 2006.

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	Permit#	N/A
Is this facility categorized as a major source for PSD?	N		
\geq 100 tpy and on the list of 28 (100 tpy)?	N		
≥ 250 tpy all other	N		

Permit #: 1949-AR-4 AFIN: 21-00121 Page 2 of 5

Source and Pollutant Specific Regulatory Applicability

The are no applicable source and/or pollutant specific regulations for this facility.

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 # 1949-AR-3	Air Permit # 1949-AR-4	Change	
PM/PM ₁₀	45.7	45.7	0	
VOC	91.0	99.8	8.8	
Total HAP	23.7	23.7	0	
Toluene	7.88	7.88	0	
2-Butoxyethanol	1.23	1.23	0	
Xylene	4.00	4.00	0	
Ethyl Benzene	4.53	4.53	0	
MIBK	1.30	1.30	0	
Methanol	1.30	1.30	0	
Naphthalene	0.21	0.21	0	
Dibutyl Phthalate	1.75	1.75	0	
Hexane	4.90	4.90	0	
Hexamethylene Diisocyanate	0.10	0.10	0	
Acetone	20.00	20.00	0	

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

The facility has not reported any use of materials containing hydrogen sulfide or styrene. Therefore, odor modeling is not warranted at this time.

Permit #: 1949-AR-4 AFIN: 21-00121 Page 3 of 5

Non-Criteria Pollutants

This permit contains a TLV table for non-criteria pollutants. Modeling was used to determine the permitted emission rates for ranges of non-criteria pollutants (grouped by TLVs) that pass the *PAIL*. Therefore, modeling of specific non-criteria pollutants was not performed.

Product	HAP/Toxic Content (lb/gal)
Acetone	8.0
Toluene	5.1
2-Butoxyethanol	2.6
Xylene	8.0
Ethyl Benzene	8.0
MIBK	5.5
Methanol	7.0
Naphthalene	1.4
Dibutyl Phthalate	0.13
Hexane	4.7

11. CALCULATIONS:

SN	Emission Factor Source	Emission Factor and units	Control Equipment Type	Control Equipment Efficiency	Comments
01	Manufacturer's Specifications	PM: 0.5 mg/m ³	baghouse	99%	Air flow rate: 35,000 cfm
02,	AP-42, 4 th Ed. table 10.4.1	PM: 0.03 gr/ft ³	cyclone		Air flow rate: 20,000 cfm
04	Mass Balance, AP-42	1 lb _{PM} / 1 T _{sawdust}	baghouse cyclone	99% 85%	
05-07, 10-14	Equipment Spec. & MSDS sheets	maximum lb/gal Acetone: 8.0 Toluene: 6.4 2-Butoxyethanol: 2.6 Xylene: 8.0 Ethylbenzene: 8.0 MIBK: 6.4 Methanol: 8.0 Napthalene: 1.6 Dibutyl Phthalate: 0.16 Hexane: 5.6			Maximum Capacity: 26 gal/hr

Permit #: 1949-AR-4 AFIN: 21-00121 Page 4 of 5

SN	Emission Factor Source	Emission Factor and units	Control Equipment Type	Control Equipment Efficiency	Comments
15	Equipment Spec. & MSDS	Max Content lb/gal VOC: 8.0 Acetone: 8.0 Toluene: 6.4 Hexamethylene Diisocynate: 0.1 Dibutyl Phthalate: 0.16 Hexane: 5.6			Maximum Capacity: 3 gal/hr

12. TESTING REQUIREMENTS:

There are no testing requirements for this facility.

13. MONITORING OR CEMS

There are no required monitoring devices or CEMS for this facility.

14. 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	Limit	Frequency*	Report (Y/N)**
05-07,	Monthly VOC Emissions [material, MSDS, VOC content (lb/gal), & usage (gal/month)]	99.8 tpy 8.0 lb/gal	Monthly	Y
10-15	Monthly HAP Emissions [material, MSDS, HAP content (lb/gal), & usage (gal/month)]	23.7 tpy	Monthly	Y

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

15. OPACITY

	SN	Opacity %	Justification (NSPS limit, Dept. Guidance, etc)	Compliance Mechanism (daily observation, weekly, control equipment operation, etc)
L	01-04	15%	Department Guidance	Inspector's Observation

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

Permit #: 1949-AR-4 AFIN: 21-00121 Page 5 of 5

16. **DELETED CONDITIONS:**

No specific condition was deleted.

17. VOIDED, SUPERSEDED OR SUBSUMED PERMITS

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

	Permit #
Γ	1949-AR-3

18. CONCURRENCE BY:

The following supervisor concurs with the permitting decision:

Phillip Murphy, P.E.

Engineering Supervisor, Air Division