#### STATEMENT OF BASIS

For the issuance of Draft Air Permit # 1035-AOP-R2 AFIN: 04-00247

### 1. PERMITTING AUTHORITY:

Arkansas Department of Environmental Quality 8001 National Drive Little Rock, Arkansas 72219-8913

### 2. APPLICANT:

Mid-America Cabinets, Inc. 20980 Marion Lee Road Gentry, Arkansas 72734

#### 3. PERMIT WRITER:

Paul Osmon

#### 4. PROCESS DESCRIPTION AND NAICS CODE:

NAICS Description: Wood Kitchen Cabinet Manufacturing

NAICS Code: 337110

#### 5. SUBMITTALS:

May 13, 2005

## 6. REVIEWER'S NOTES:

This is the first Title V permit renewal for the facility. No changes in emissions or processes except to add a laminator to the Insignificant Activities List. The facility is subject to 40 CFR 63, Subpart JJ.

#### 7. COMPLIANCE STATUS:

There are no compliance issues related to this facility.

## 8. APPLICABLE REGULATIONS:

**PSD** Applicability

Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N
Has the facility undergone PSD review in the past?

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Is the facility categorized as a major source for PSD?	N
$\geq$ 100 tpy and on the list of 28?	N
$\geq$ 250 tpy all other?	N

N

**PSD** Netting

Was netting performed to avoid PSD review in this permit?

Source and Pollutant Specific Regulatory Applicability

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
Facility	НАР	40 CFR 63, Subpart JJ

## 9. EMISSION CHANGES:

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

Plantwide Permitted Emissions (tpy)			
Pollutant	Permit # 1035-AOP-R1	Permit # 1035-AOP-R2	Change
PM	17.6	17.6	0
$PM_{10}$	17.6	17.6	0
VOC	166.9	166.9	0
Any single HAP	33.5	33.5	0
Total HAP	55.1	55.1	0
Acetone	89.1	89.1	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.

### 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 TLV) that pass the PAER or PAIL. Therefore, modeling of specific non-criteria pollutants was not performed.

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The following TLV table is included in the permit. Acetone is evaluated separately because it is a named substance in the permit which is not a HAP but has a listed TLV.

Minimum HAP TLV (mg/m³)	Maximum Individual HAP Content ( wt. %)
172.0	100
153.9	90
136.8	80
119.7	70
102.6	60
85.5	50
68.4	40
51.3	30
34.2	20
25.6	15
17.1	10
12.8	7.5
8.4	5.0
4.2	2.5
1.7	1.0

<sup>1&</sup>lt;sup>st</sup> Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Department has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

Pollutant	TLV (mg/m <sup>3</sup> )	$PAER (lb/hr) = 0.11 \times TLV$	Proposed lb/hr	Pass?
Acetone	1188	130.68	109.0	Y

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Other Modeling:

Odor: No styrene or hydrogen sulfide emissions from this facility.

## 11. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01	Material Balance	7.5 Lb/gal VOC 4.0 Lb/gal Acetone	None	NA	Spray Rate of 7.5 gallons/hr; tpy is actual usage
02	Material Balance	7.5 Lb/gal VOC 4.0 Lb/gal Acetone	None	NA	Spray Rate of 8.75 gallons/hr; tpy is actual usage
03	Material Balance	7.5 Lb/gal VOC 4.0 Lb/gal Acetone	None	NA	Spray Rate of 2.5 gallons/hr; tpy is actual usage
04	Material Balance	7.5 Lb/gal VOC 4.0 Lb/gal Acetone	None	NA	Spray Rate of 7.5 gallons/hr; tpy is actual usage
06	Material Balance	7.5 Lb/gal VOC 4.0 Lb/gal Acetone	None	NA	Spray Rate of 0.5 gallons/hr; tpy is actual usage
07	Material Balance	7.5 Lb/gal VOC 4.0 Lb/gal Acetone	None	NA	Spray Rate of 0.5 gallons/hr; tpy is actual usage
05	AP-42	0.03gr/scf	cyclone	70%	Controlled

## 12. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
	No st	ack testing in this pe	ermit.	

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## 13. MONITORING OR CEMS

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
No Monitoring or CEMS in this permit.				

## 14. RECORD KEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
01 through 04 06 07	VOC usage	166.9 tons/12months	Monthly	Y
01 through 04 06 07	VOC content	7.5 lb/gal	-	-
01 through 04 06 07	HAP usage	33.5 any single HAP 55.1 Total HAP	Monthly	Y
01 through 04 06 07	HAP content	TLV Table see permit	-	-
01 through 04 06 07	Acetone Usage	89.1 tpy	-	-

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01 through 04 06 07	Acetone Content	4.0 Lb/gal except for pure solvent used for gun cleaning	-	-
01 through 04 06 07	Subpart JJ Compliance	1.0 lbs solid deposit/lb VHAP emitted of compliant materials usage	twice yearly	Y
01 through 04 06 07	Subpart JJ Compliance	various reports including work plans, operator training documentation, and usage of HAP in Table 5	as required	N

## 15. OPACITY:

SN	Opacity	Justification for limit Complia Mechan	
05	20%	Department Guidance	weekly observations

## 16. DELETED CONDITIONS:

Former SC	Justification for removal
	No permit changes.

# 17. VOIDED, SUPERCEDED, OR SUBSUMED PERMITS:

List all active permits voided/superceded/subsumed by the issuance of this permit.

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18.	CONCURRENCE BY:
	The following supervisor concurs with the permitting decision.

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Thomas Rheaume, P.E.