

January 9, 1991

RECEIVED

DER-BAOM

· 2- -

Ms. Teresa Heron
Bureau of Air Quality Management
Department of Environmental Regulations
2600 Blair Stone Road
Twin Towers Office Building
Tallahassee, Florida 32301

Re: Metal Container Corporation - Gainesville Lid Plant

Dear Ms. Heron:

This letter presents the chronology of the air permitting activities at the referenced facility as you requested.

Modules 1, 2, and 3 received the original permit to operate in May 1983. Module 4 received an operating permit in August 1985. The operating permit for all four modules was renewed in November 1986 and contained an annual VOC emission limit of 239.2 tons.

Module 5 was included in operating permit A001-144728, issued in October 1988. This permit contained a facility-wide VOC limit of 235.6 tons per year. The emissions decrease was due to a change in the VOC content of material used at the facility.

In September 1989, construction permit AC-159034 was issued for Module 6. This permit allowed an additional 87.4 tons of VOC per year, bringing the facility-wide total to 323.0 tons of VOC per year. This construction permit was revised in March 1990 to incorporate the 13th conversion press, with no change in permitted emissions.

The application for the construction permit for the modernization project, which is currently under review, was submitted on August 29, 1990.

If you have any questions regarding this information, please call me at (314) 577-4162.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.

Dean E. Pusch

Sr. Environmental Scientist

DEP:cd DEP10990

# AIR QUALITY MODELING STUDY OF THE METAL CONTAINER CORPORATION LID MANUFACTURING FACILITY GAINESVILLE, FLORIDA

(REVISED)

# Prepared for:

ANHEUSER-BUSCH COMPANIES, INC. St. Louis Missouri

Prepared by:



Environmental Consulting & Technology, Inc.

Gainesville, Florida

90100-0100

December 17, 1990

#### **PREFACE**

This revised report replaces the original modeling study report, which was dated July 27, 1990. Subsequent to the completion of the original study, and its submittal to the Florida Department of Environmental Regulation (FDER), more detailed engineering design work related to the proposed plant modification has resulted in changes that would affect stack and emission characteristics. These changes were factored into the revised modeling study, the results of which are contained in this updated report. The revised modeling has shown that the effect of the changes will be to reduce maximum n-hexane impacts to levels below FDER's "no-threat levels."

# TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
PREFACE	i
1.0 INTRODUCTION AND SUMMARY	1
2.0 FACILITY LAYOUT AND EMISSION PARAMETERS	3
3.0 MODELING APPROACH	8
.4.0 MODELING RESULTS	10
REFERENCES	15

## LIST OF TABLES

<u>Table</u>		<u>Page</u>
2-1	Summary of Stack Parameters and Emission Rates: Summer Operation	5
2-2	Summary of Stack Parameters and Emission Rates: Winter Operation	7
4-1	Top Five Off-Property N-Hexane Concentrations: 8-Hour Averaging Time	11
4-2	Top Five Off-Property N-Hexane Concentrations: 24-Hour Averaging Time	12

## LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1-1	Site Location Map	2
2-1	Facility Layout and Emission point Locations	4
3-1	Modeling Receptor Grid	9
4-1	Locations of Top Five 8-Hour N-Hexane Impacts Given in Table 4-1	13
4-2	Locations of Top Five 24-Hour N-Hexane Impacts Given in Table 4-2	14

#### 1.0 INTRODUCTION AND SUMMARY

Metal Container Corporation (MCC), an Anheuser-Busch company, owns and operates a lid manufacturing facility in Gainesville, Florida. The facility is located in a commercial area of northeast Gainesville, just southeast of the intersection of State Road 121 and US 441. The site location is shown in Figure 1-1.

MCC proposes to expand the production capability of the facility by adding to the existing building and adding new manufacturing equipment. Associated with the increase in production will be an increase in emissions of volatile organic compounds (VOCs) from building vents and exhausts. The principal VOC of interest is n-hexane, which is contained in solvents and end sealants used in the manufacturing process.

The compound n-hexane is considered by FDER to have the potential to cause human health effects if present in high enough concentrations. As such, it is listed by FDER in their Air Toxics Permitting Strategy (Draft) (FDER, undated). In order to demonstrate that the increase in emissions will not pose a threat to public health, Anheuser-Busch has retained Environmental Consulting & Technology, Inc. to perform a dispersion modeling study, the results of which are contained herein.

The modeling study was performed using emission inputs that are described in Section 2.0 of this report. Maximum potential hourly n-hexane emissions were used. The model and modeling methodologies used were those typically used by FDER. They are described in Section 3.0. The results, summarized in Section 4.0, showed that the facility will not pose a threat to public health. All modeled n-hexane impacts were less than the FDER "no-threat levels." Furthermore, the highest impacts were predicted to occur in close proximity to the facility, at locations zoned for non-residential uses.

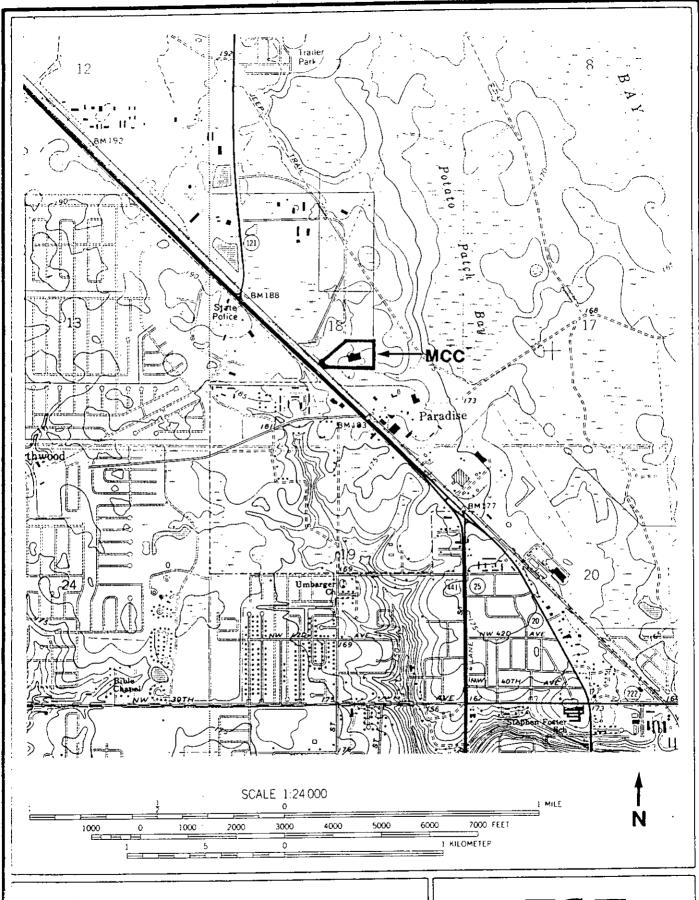


FIGURE 1-1.

SITE LOCATION MAP

Source: ECT, 1990.

Environmental Consulting & Technology, Inc.

#### 2.0 FACILITY LAYOUT AND EMISSION PARAMETERS

The layout of the expanded facility is provided in Figure 2-1. Also shown are the locations of all stacks, vents, or exhausts from which n-hexane will be emitted. Emission points numbered 10 through 14 will be added as a direct result of the expansion project. At the same time, the other vents will be modified to improve dispersion characteristics. The modifications involve raising stack heights by 10 feet (ft) for all other sources except Sources 6, 7, and 8, and where possible, changing exhaust orientations from horizontal to vertical.

Source 6 is a ventilation fan that exhausts out the side of the building; it could not be easily altered. Also, due to their operating characteristics, the three new scrap cyclones (Sources 10, 11, and 12) and the two existing vacuum vents (Sources 7 and 8) must have rain caps. Accordingly, they were modeled with no vertical momentum.

Tables 2-1 and 2-2 summarize stack parameters and emission rates used in the modeling. Table 2-1 addresses the summer operating scenario, while Table 2-2 addresses winter operations, when Sources 1 through 3 will not be in use. Rates of n-hexane emissions from each individual vent or exhaust were calculated in proportion to exhaust flow rate. Total facility emissions of n-hexane, with the expansion, are projected to be 26.8 pounds per hour (1b/hr) (maximum), based on manufacturer's data on the solvents and end sealants. (Note that Source 4 is not used.)

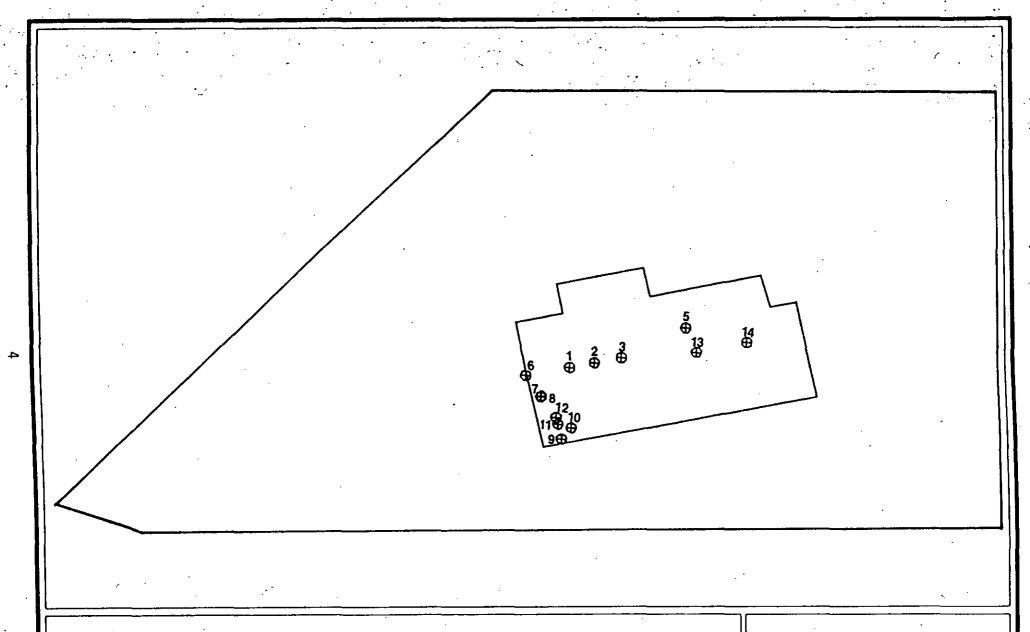


FIGURE 2-1.

FACILITY LAYOUT AND EMISSION POINT LOCATIONS Source: ECT, 1990.

Environmental Consulting & Technology, Inc.

Source	Exhaust Flow	Emissi	on Rate	Stac	k Ht.	Exhaus	t Temp.	Exit	Vel.	Stack	Diameter
No.	(acfm)	1b/hr	g/sec 	ft	m 	°F	°K	ft/sec	m/sec	in	m
1	18,000	3.25	0.410	36.7	11.2	80	300	42.4	12.9	36	0.91
2	18,000	3.25	0.410	36.7	11.2	80	300	42.4	12.9	36	0.91
3	18,000	3.25	0.410	36.7	11.2	80	300	42.4	12.9	36	0.91
5	21,450	3.87	0.488	36.7	11.2	80	300	64.0	19.5	32	0.81
6	6,000	1.08	0.137	26.7	8.13	80	300		0.01*		1.0*
7	1,080	0.19	0.025	31.7	9.65	80	300	••	0.01*	<del>-</del> -	1.0*
8	1,080	0.19	0.025	31.7	9.65	80	300		0.01*	• -	1.0*
9	6,750	1.22	0.154	36.7	11.2	80	300	63.7	19.4	18	0.46
10	6,000	1.08	0.137	36.7	11.2	80	300		0.01*		1.0*
11	7,000	1.26	0.159	36.7	11.2	80	300		0.01*		1.0*
12	9,100	1.64	0.207	36.7	11.2	80	300	<b></b>	0.01*		1.0*
13	18,000	3.25	0.410	36.7	11.2	80	300	53.7	16.4	32	0.81
14	18,000	3.25	0.410	36.7	11.2	80	300	53.7	16.4	32	0.81

<sup>\*</sup>Artificial parameters to simulate a non-vertical exhaust orientation.

Source: A-B, 1990. ECT, 1990.

Table 2-1. Summary of Stack Parameters and Emission Rates: Summer Operation

_	Exhaust				_Exhaust						
Source Number	Flow (acfm)	Emissic lb/hr	on Rate g/sec	<u>Stack</u> ft	<u>Height</u> meter	<u>Tempe</u> °F	rature <sup>®</sup> K	Exit V ft/sec	elocity m/sec	<u>Stack</u> inch	<u>Diameter</u> meter
1	18,000	3.25	0.410	36.7	11.2	80	300	42.4	12.9	36	0.91
2	18,000	3.25	0.410	36.7	11.2	80	300	42.4	12.9	36	0.91
3	18,000	3.25	0.410	36.7	11.2	80	300	42.4	12.9	36	0.91
5	21,450	3.87	0.488	36.7	11.2	80	300 -	64.0	19.5	32	0.81
6	6,000	1.08	0.137	26.7	8.13	80	300		0.01*		1.0*
7	1,080	0.19	0.025	31.7	9.65	80	300		0.01*		1.0*
8	1,080	0.19	0.025	31.7	9.65	80	300		0.01*		1.0*
9	6,750	1.22	0.154	36.7	11.2	80	300	63.7	19.4	18	0.46
10	6,000	1.08	0.137	36.7	11.2	80	300		0.01*		1.0*
11	7,000	1.26	0.159	36.7	11.2	80	300		0.01*		1.0*
12	9,100	1.64	0.207	36.7	11.2	80	300		0.01*	- +	1.0*
13	18,000	3.25	0.410	36.7	11.2	80	300	53.7	16.4	32	0.81
14	18,000	3.25	0.410	36.7	11.2	80	300	53.7	16.4	32	0.81

<sup>\*</sup>Artificial parameters to simulate a non-vertical exhaust orientation.

Source: A-B, 1990. ECT, 1990.

σ

Table 2-2. Summary of Stack Parameters and Emission Rates: Winter Operation

Exhaust Source Flow		_Emissi	on Rate	Stack	Exhaust Stack Height Temperature			Exit Velocity		Stack Diameter	
Number ———	(acfm)	lb/hr	g/sec	ft	meter	°F	*K	ft/sec	m/sec	inch	meter
1*	0	0.0	0.0	36.7	11.2				- <b>-</b>	36	0.91
2*	0	0.0	0.0	36.7	11.2					36	0.91
3*	0	0.0	0.0	36.7	11.2					36	0.91
5	21,450	6.09	0.767	36.7	11.2	80	300	64.0	19.5	32	0.81
6	6,000	1.70	0.215	26.7	8.13	80	300		0.01*	- <b>-</b>	.1.0+
7	1,080	0.31	0.039	31.7	9.65	8Ó	300	~ -	0.01*		1.0+
8	1,080	0.31	0.039	31.7	9.65	80	300		0.01+		1.0+
9	6,750	1.92	0.242	36.7	11.2	80	300	63.7	19.4	18	0.46
10	6,000	1.70	0.215	36.7	11.2	80	300		0.01*		1.0+
11	7,000	1.99	0.250	36.7	11.2	80	300		0.01		1.0+
12	9,100	2.58	0.326	36.7	11.2	80	300		0.01*		1.0+
13	18,000	5.11	0.644	36.7	11.2	80	300	53.7	16.4	32	0.81
14	18,000	5.11	0.644	36.7	11.2	80	300	53.7	16.4	32	0.81

<sup>\*</sup>Sources 1 through 3, associated with summer building ventilation, will not operate in the winter. +Artificial parameters to simulate a non-vertical exhaust orientation.

Source: A-B, 1990.

ECT, 1990.

#### 3.0 MODELING APPROACH

Since the averaging times of interest for n-hexane are 8-hour and 24-hour, the Industrial Source Complex Short-Term (ISCST) model was selected. This model is classified by the U.S. Environmental Protection Agency (EPA) (1986) as a preferred model and is also recommended by FDER.

The ISCST model was used in the rural mode since the area surrounding the MCC facility is largely wooded and undeveloped. Also, since the terrain in the area is generally flat, no terrain elevations were used.

A receptor grid with 50-meter spacing between receptor points was used in the modeling study. The grid was placed to capture the highest offproperty n-hexane concentrations resulting from the expanded operations. The orientation of the grid is illustrated in Figure 3-1.

All of the stacks and vents have heights less than 2.5 times the height of the building. Following EPA (1987) guidance, it was determined that direction-specific downwash parameters would apply to all stacks. Downwash parameters were calculated with the aid of the "GEP" program (BEE, undated).

One year of surface meteorological data and concurrent upper air data was used in the modeling study. Consistent with FDER practice, surface data from Tallahassee, Florida, and upper air data from Waycross, Georgia, were used. Data for the year 1986 were chosen since 1986 is the most recent year normally used by FDER.

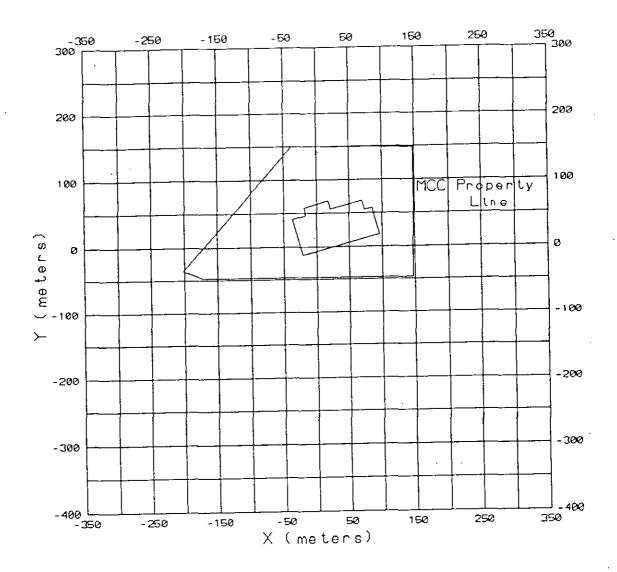


FIGURE 3-1.

MODELING RECEPTOR GRID

Source: ECT, 1990.

ECT

Environmental Consulting & Technology, Inc.

#### 4.0 MODELING RESULTS

The results of the modeling study are summarized in Tables 4-1 and 4-2. (A diskette containing copies of the ISCST input and output files is appended to this report.) Table 4-1 lists the top five off-property 8-hour n-hexane concentrations, while Table 4-2 lists the top five off-property 24-hour concentrations. In both cases the winter operating scenario resulted in all of the top five impacts. This would be expected since the same amount of emissions was modeled from fewer sources.

As shown, all of the top five 8-hour impacts were found to be less than half the no-threat level, which is  $1,800~\mu\text{g/m}^3$ . In addition, all occurred within close proximity to the facility, in an area normally not occupied by potential human receptors. Figure 4-1 illustrates.

Similarly, the highest 24-hour concentration was slightly less than 83 percent of the no-threat level (430  $\mu g/m^3$ ), as shown in Table 4-2. Again, the locations of the highest values were in areas containing no sensitive receptors, as shown in Figure 4-2. All of the highest impacts were predicted to occur on a parcel of land zoned non-residential.

Table 4-1. Top Five Off-Property N-Hexane Concentrations: 8-Hour Averaging Time

Rank	Concentration (µg/m³)	<u>Receptor</u> X	Location (m)* Y	Day	Period.
1	795.8	50	-50	141	3
2	690.1	0	-50	299	1
3	640.2	50	-100	298	3
4	632.4	50	-50	65	3
5	581.2	50	-150	299	1

<sup>\*</sup>See Figure 3-1.

Note: FDER no-threat level = 1,800  $\mu$ g/m<sup>3</sup>.

Source: ECT, 1990.

Table 4-2. Top Five Off-Property N-Hexane Concentrations: 24-Hour Averaging Time

Rank	Concentration (µg/m³)	Receptor I	Location (m)* Y	Day
1	355.1	0	-50	299
2	341.1	0	-100	354
3	337.9	-50	-100	348
4	330.0	-100	- 50	251
5	329.6	-50	-100	350

<sup>\*</sup>See Figure 3-1.

And the state of t

Note: FDER no-threat level = 430  $\mu$ g/m<sup>3</sup>.

Source: ECT, 1990.

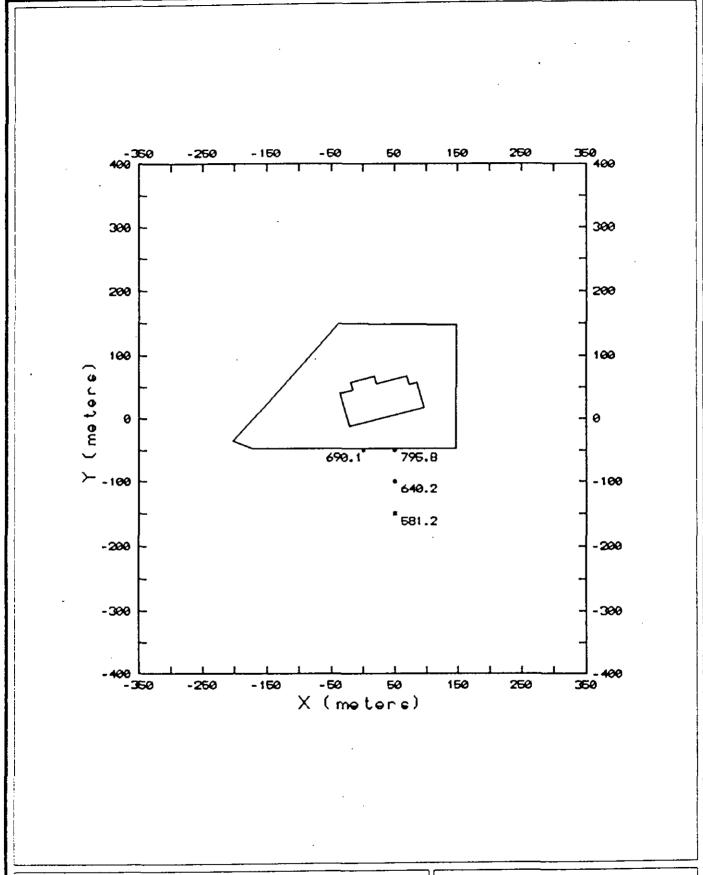


FIGURE 4-1.

LOCATIONS OF TOP FIVE 8-HOUR N-HEXANE IMPACTS GIVEN IN TABLE 4-1

Source: ECT, 1990.



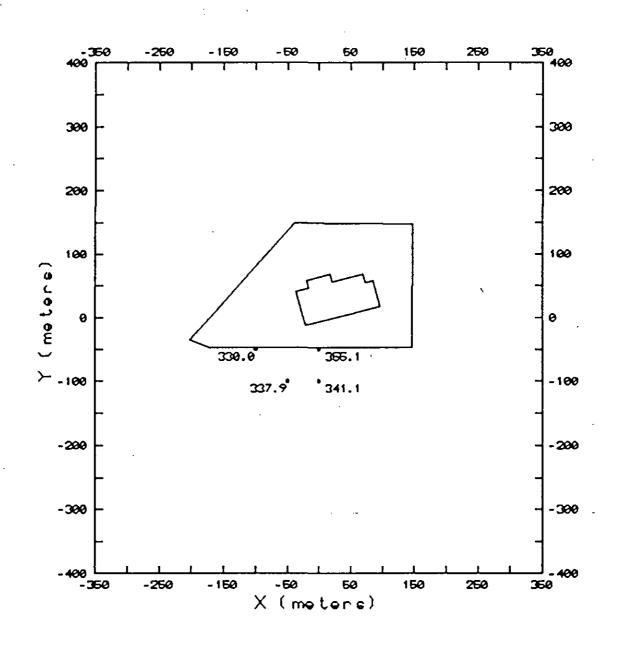


FIGURE 4-2.

LOCATIONS OF TOP FIVE 24-HOUR N-HEXANE IMPACTS GIVEN IN TABLE 4-2

Source: ECT, 1990.

ECT

Environmental Consulting & Technology, Inc.

#### REFERENCES

- Bowman Environmental Engineering (BEE). Undated. GEP Manual. Dallas, TX.
- Florida Department of Environmental Regulation (FDER). Undated. The Florida Air Toxics Permitting Strategy (Draft). Tallahassee, FL.
- U.S. Environmental Protection Agency (EPA). 1986. Guideline on Air Quality Models (Revised). EPA-450/2-78-027R. Research Triangle Park, NC.
- U.S. Environmental Protection Agency (EPA). 1987. Industrial Source Complex (ISC) Dispersion Model User's Guide, Second Edition (Revised). EPA-450/4-88-002. Research Triangle Park, NC.



#### ANHEUSER-BUSCH COMPANIES

December 10, 1990

PECEIVED DER. BAQM Ms. Teresa Heron Bureau of Air Regulation Florida Dept. of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Permit No. AC 01-185835 & PSD-FL-153 Re: Metal Container Corporation -Gainesville Lid Plant

Dear Ms. Heron:

Metal Container Corporation has elected to change the cleanup solvent used at the Gainesville Lid Plant from a hexane-based product to one with a heptane base. This change will reduce emissions of n-hexane at the facility; thereby reducing both worker exposure and ambient off-property impacts.

In addition, the heating ventilating and air conditioning design for the plant modernization has been reassessed, resulting in changes in building exhaust vent configuration. These changes in cleanup solvent usage and the HVAC design affect the information previously submitted in support of the referenced air permit. Thus, this submittal details the revisions to the permit application.

The change from the hexane-based solvent, Amsco 1487, to the heptane-based product, Texsolve C, will result in a decrease in n-hexane emissions of 35.3 tons per year from the facility after the modernization. Attachment A presents the material safety date sheet for Texsolve C, along with correspondence clarifying portions of the MSDS.

Total VOC emissions will increase slightly, from 563.8 tons per year when using Amsco 1487 to 567.2 tons per year with Texsolve C. Attachment B presents facility-wide VOC emissions by module, incorporating the change in solvent.

Since this product switch changes the potential air toxics that will be emitted and the HVAC changes will affect the impacts of the toxics emissions, the air toxics section submitted with the original application has been revised. See

Anheuser-Busch Companies, Inc. **Executive Offices** One Büsch Place St. Louis, MO U S.A. 63118-1852 Telex 447 117 ANBUSCH STL





#### RETURN PÖSTAGE GUARANTEED

ANHEUSER-BUSCH COMPANIES, INC. ST. LOUIS, MO. 63118

Ms. Teresa Heron
Bureau of Air Regulation
Florida Dept. of Environmental Regula
Twin Towers Office Building
2600 Blair Stone Road
Tallahasse, FL 32399-2400

Attachment C. This attachment includes a revision to the original air quality modeling study. The modeling analysis includes emissions from two vents for the process vacuum system. These vents had inadvertently been omitted from the original modeling study.

The modeling analysis in Attachment C shows that maximum impacts of potential toxics will be below the Department's no-threat levels, thus ensuring protection of public health.

The facility also has several very small sources within the building whose emissions have been included in previous permits and inventories, as well as the original application for the modernization, but previously have not been identified. These sources include two parts cleaners and the end sealant bulk tank and day tank. Details of these sources are presented in Attachment D.

If you have any questions on this information, please don't hesitate to call me at (314) 577-4162.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.

Dean E. Pusch

Sr. Environmental Scientist

DEP:cd

Attachments DEP120790-1

C: I, Hum C. Halladar

B. Brews A. Kutynow, WE Dist J. Haver, EPA C. Slaver, NPS S. Baruch, DER. Baincoulle

#### ATTACHMENT A

TEXSOLVE C MATERIAL SAFETY DATA SHEET



Texaco Chemical Company

PO Box 27707 Houston TX 77227 7707 713 961 3711

NAPLEDE ACCHEOD- NACL SSH

TENSOWE THIS IS THERE

RESPONSE.

TENSOWE THIS IS THERE

RESPONSE.

[ ]

October 23, 1990

Mr. E. B. Katzenmeyer Manager Industrial Hygiene Anheuser Busch Corporation One Busch Place St. Louis, MO 63118

Dear Mr. Katzenmeyer:

I appreciated your bringing to my attention the need for clarification of the composition section in the Material Safety Data Sheet for our TEXSOLVE C (commercial heptane). I agree with you that changes are needed and will propose the following to our Hazard Communication group:

Component	C.A.S. No.	Wt. &	Exposure limits	RO
Heptane	142-82-5	85-90	400 ppm TWA	-
n-Hexane	110-54-3	1-3.99	50 ppm TWA	-
Methylcyclopentane	96-37-7	1-3.99	-	-
Toluene	108-88-3	1-3.99	100 ppm TWA 1	.000
Cyclohexane	110-82-7	1-3.99	300 ppm TWA 1	000
Benzen <b>e</b>	71-43-2	0.01	1 ppm TWA	10

I trust that this information will help you to evaluate TEXSOLVE C better. Thank you again for calling.

Sincerely,

F. E. Bentley, Ph.D.

Sr. Coordinator Product Safety

FEB:sqv 23/04

HDA 9.8 1564

ENVIRONMENTAL ENGRG. DEPT.

08/14/1990 11:10 Tex.Chem.Co.2001C TAG

713 235 6077 P.03

#### INDUSTRIAL HYGIENE, TOXICOLOGY, AND MATERIAL SAFETY DATA SHEET



NOTE: NO REPRESENTATION IS MADE AS TO THE ACCURACY OF THE INFORMATION HEREIN. SEE PAGE 7 FOR CONDITIONS UNDER WHICH DATA ARE FURNISHED.

Trade Name and Synonyms 75726 TEXSOLVE C Manufacturer's Name Emergency Telephone No. Texaco Chemical Company (409) 722-8381 Address 3040 Post Oak Blvd. P.O. Box 27707 Houston, TX 77056 Chemical Name and/or Family or Description Commercial heptane THIS PRODUCT IS CLASSIFIED AS: CARCINOGENIC BY OSHA, IARC, OR NTP NOT CARCINOGENIC WARNING STATEMENT: EXTREMELY FLAMMABLE DANGER! CAUSES IRRITATION TO EYES MAY CAUSE IRRITATION TO SKIN OCCUPATIONAL CONTROL PROCEDURES Protective Equipment (Type) Eves: Chemical type goggles must be worn. Do not wear contact lenses. Skin: Protective clothing such as uniforms, coveralls or lab costs should be worn. Launder or dry clean when soiled. Gloves resistant to chemicals and petroleum distillates required. Inhalation: Supplied air respiratory protection for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. Ventilation: Loca: exhaust ventilation recommended Permissible Concentrations: 400 ppm averaged over an 8 hour exposure (ACGIH, 1987-88) for Ar: n-heptane. 500 ppm PEL OSHA. EMERGENCY AND FIRST ALD PROCEDURES First Aid Flush thoroughly with water for at least fifteen minutes. Eyes: medical attention. Wash exposed greas with scap and water. Skin: Do NOT induce vomiting. Aspiration of the fluid can cause Ingestion: serious lung injury, i.e. chemical pneumonitis. CALL A DOCTOR IMMEDIATELY. Should symptoms noted under physiological effects occur, remove inhalation: to fresh air. If not breathing, apply artificial respiration. Other Instructions: None.



PHYSIOLOGICAL	75726
Effects of Exposure	
Acute:	
Eyes:	Believed to cause moderate eye irritation.
Skin.	Believed to be moderately irritating; Believed to cause
	redness, edema or drying of the skin.
Respiratory System:	Overexposure to mist, vapors may cause dizziness, drowsiness, head- sche, nausea. Massive overexposure may cause unconsciousness, death.
Chronic:	Prolonged or repeated skin contact may cause drying or cracking of skin.
Other:	-See additional comments pg. 6.
	P
Sensitization Propertie	<b>\$</b> :
Skin: Yes — N	lo Unknown A Respiratory: Yes No Unknown A
Median Lethal Dose (L	D <sub>80</sub> LC <sub>80</sub> MSpecies)  Believed to be > 5 g/kg (rat): practically non-toxic
Oral	N.D.
Inhelation	Believed to be > 3 g/kg (rabbit); practically non-toxic
Other	N. D
• • • • • • • • • • • • • • • • • • • •	tion of Irritation (Species)
Skin	Believed to be 3-5/8.0 (rabbit): moderately irritating
Eves	Believed to be 25-50/110 (rabbit): moderately irritating
Symptoms of Exposur	See above.
PIRE PROTECTION	INCONATION
ignition Temp. <sup>0</sup> F.	399 F Flash Point OF. (Method) 13 F D56
Flammable Limits (%)	Lower 1.0 Upper 7.0
Products Evalved Wh	en Subjected to Hast or Combustion: Carbon monoxide and carbon dioxide may be formed on burning in
	limited air supply.
Recommended fire 5	ctinguishing Agents And Special Procedures:
The second secon	According to the National Fire Protection Association Guide 325A,
	use dry chemical, fosm or carbon dioxide. Water may be ineffec-
	tive on the flames, but water should be used to keep fire-exposed
	containers cool. If a leak or spill has not ignited, use water
	spray to disperse the vapors and to provide protection for the persons attempting to stop the leak.
	And the desired of the second
Unusual or Explosive	- Vanore beauter than hir. May travel, by lantial of temple to
	ations and flash back. Explosive air-vapors mixtures may occur.

N.D. - Not Determined

N.A. - Not Applicable > - Greater Than



. BOOKEN COMMENTS	L PROTECTION.		
Market Time Comment	and the state of the second se		No. 75736
Wasta Disposal Met	Re-Evaluation of the pr time of disposal, since mixtures and processes or hazardous for reason	oduct may be required by the product uses, trans may change classification s other than, or in addi rks for Waste Classifica	formations, n to non-hazardous tion to
Procedures in Case	of Breekage or Leakage: (Transport Eliminate all ignition ines and power tools. V SCBA or supplied-air ma		424-9300) al combustion eng- sthing vapor. Use onfined areas.Con-
Remarks:	RCRA characteristic of	roduct (as presently con- ignitability and if disc ve the hazardous waste n	arded in its
PRECAUTIONS			
	MAY CA Keep away from hi Aveid contect with Use enty in well-v breathing of vapor	ELY FLAMMABLE IRRITATION TO EYES LUSE IRRITATION TO SKIN  OUT. Eperks and flame. Keep centenner of eyes and prelonged contact with skin. entilited locations. Avoid prolonged or mist. Keep head away from centaine ispensing. Wash thereugifly efter heading	r
Transport,	responsation, Handling and Storage: handle, and store in accepted DOT Regulations.	cordance with OSHA Regula	ation 1910.106
DOT Proper Shipping DOT Hazard Class (if		id, UN 1206	
CHEMICAL AND	PHYSICAL PROPERTIES		
Boiling Point (PF)		Vapor Pressure 53820 C	(mmHg)
Specific Gravity	1.70 = 5.8/4/50 (H20=1)	Vapor Density 3.3	(Air=1)
Appearance and Odor	Colorless liquid: mile	odor	
pH of undiluted prod	uct NeAs	Solubility Neg.	
Percent Volatile by V	olume 100	Evaporation N. D.	( )=1
Viscosity N.D.		Other	
Hazardous Polymerizat The Meterial Reacts N Air Water	ligiently With (If others is checke	Do not occur d below, see additional comments Dxidizers Others X	on page 6 for futher details) None of These



Chemical/Common Name			<u></u>
The state of the s	CAS No.	Exposure Limit	Range in %
Hexane .	110543	50ppm TWA ACGIM 50ppm TWA-0SHA	1.00 - 3.9
Benzene	71432	10ppm TWA ACGIH 1 ppm TWA QSHA 5 ppm STEL OSHA	0.01 - 0.0
Contains 37% Raffinsts (petroleum) catalytic reformer ethylene glycol-water countercurrent extracts CAS# 68410719 and 63% Distillate (petroleum), light distillate hydrotreating process, low boiling CAS# 68410879,	MIXTURE	None Established	95.00 - 99.9

RA TYLE #			The second secon		
Component NONE		CAS Ng.	<b>%</b>	RQ (Lbs)	TPQ (Lb
II. CERCLA Section 102(a) Hazardous Substance Component Benzene	·	CAS No. 71432	0.01-0.09	RQ (Lbs) 1	
Toluene		08883	1.00-3.99	1000 ?	
Cyclohexane		10827	4.00-10.99	1000	
II. Title III Section 311 Hazard Categorization Acute Chronic I	Fire X	Pressure	Reactive	Not Applicable	
V. Title III Section 313 Toxic Chemicals					
Component Cyclohexane		CAS No.   10827	<u>4.00-10.99</u>		
~y~a~!!~aa!!~			4.00-10.99	,	



TOOUCT SHIPPING LABOR

Code No. 75726

78726 TEXSOLVE C

DANGER! EXTREMELY FLAMMABLE

CAUSES IRRITATION TO EYES MAY CAUSE IRRITATION TO SKIN

Keep away from heat, sparks and flame. Keep container closed avoid contact with eyes and prolonged contact with skin. Use only in well-ventilated locations. Avoid prolonged breathing of vapor or mist. Keep head away from container when opening or dispensing, wash thoroughly after handling.

Respiratory irritation, headache and drowsiness may result from exposure to vapors or mist. In poorly ventilated confined spaces, unconsciousness and asphyxiation may result. If these effects occur, remove to fresh air, and if necessary, administer artificial respiration, preferably mouth-to-mouth. Call a doctor. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Wash skin with soap and plenty of water. If swallowed, Do Not induce vomiting, Call a doctor immediately.

In case of fine use water spray, foam, dry chemical or CD2.

Chemical/Common Name	CAS No.	Range	1n %
+Hexane	110543	1.00	- 3.99
*Senzene	71432	0.01	- 0.09
Contains 37% Raffinate (petroleum) catalytic reformer ethylene glycol-water countercurrent bxtracts CAS# 68410719 and 63% Distillate (petroleum), light distillate hydrotreating process, low boiling CAS# 68410979.	MIXTURE	95.00	- 99.99

\*Hazardous according to OSHA (1910.1200) or one or more state Right-To-Know lists.

HMIS

Health :-1 Reactivity : 0 Flammability: 3 Special : -

DOT Proper Shipping Name: See Additional Comments Pg. 6 DOT Hazardous Class : Flammable Figure, UN 1206

CAUTION: Misuse of empty sontainers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

HEALTH EMERGENCY TELEPHONE: (\$14) 831-3400

Texaco 2000 Westchester Avanue White Plains, New York 10650 For Additional Technical Information Conserning: Fuels 1914/ 838-7336 Lubricants/Antifreeses (914) 838-7509 Chamicals 1512/ 488-8543

Transportation Spills: CHEMTREC (BOC) 424-9300



					Carlot Colors						
										المرياني والمحافظ والمرا	
										and a second	
										76	

STATE OF MICHIGAN CRITICAL MATERIALS ACT (REVISED 1989) No critical materials present.

Petroleum hydrocarbon solvents containing low molecular weight branched aliphatic hydrocarbons have been associated with kidney damage in male rats upon repeated exposure. The significance of these findings in humans has not been established as similar effects are not generally observed in female rats or mice of either sex.

Product contains n-hexane which can cause damage to the peripheral nervous system of humans. Symptoms in clude numbress and muscle weakness in the hands fingers and toes.

Product contains toluene which upon prolonged exposures to high concentrations produces loss of appetite, nose bleeds, and liver, kidney and neural dysfunction.

DOT Proper Shipping Name: Heptane, (contains toluene & cyclohex-ane.

To determine applicability or effect of any law or regulation with respect to the product, users should consult his legal advisor or the appropriate government agency. Texaco does not undertake to furnish advice on such matters

By F. E. Bentley	Title Senior Coord. of Product Safety	
Date05-21-90	New Revised, Supersedes 05-17-90	

ATTACHMENT B

VOC EMISSIONS

# METAL CONTAINER CORPORATION GAINESVILLE LID PLANT MODERNIZATION PROJECT

#### **VOC Emissions Basis**

estimates based on shell press capacity (assumes all shells produced are lined)

press operating efficiency 90 % annual operation 360 days usage rates 1989 actual

#### Shell Press Specifications

machine	speed	stations	shells/min	annual <u>producti</u>	<u>on</u>
1	275	27	7425	3.464	billion
2	275	27	7425	3.464	billion
3	275	24	6600	3.079	billion
4	140	22	3080	1.437	billion
			total	11.445	billion

#### Coating/Solvent Specifications

compound	typical <u>mfg ident</u>	<u>density</u> [lb/gal]	VOC content [wt frax]	usage rate [gal/1000lids]
end sealant	DM 2140	7.82	0.405	0.0174
tab lube	J-G 3810	6.35	0.945	0.0049
solvents	Texsolve C	5.84	1.000	0.0023 a)
	Amsco 1241	6.32	1.000	0.00019

#### VOC Emissions (by shell press production)

	pounds/hr	tons/yr
Machine 1 (Module 7)		
end sealant	24.5	95.4
tab lube	13.1	50.9
Texsolve C	6.0	23.3
Amsco 1241	0.5	2.1
total	44.2	171.7

	pounds/hr	tons/yr
Machine 2 (Module 6)		
end sealant	24.5	95.4
tab lube	13.1	50.9
Texsolve C	6.0	23.3
Amsco 1241	0.5	2.1
total	44.2	171.7
Machine 3 (Module 5)		
end sealant	21.8	84.8
tab lube	11.6	45.3
Texsolve C	5.3	20.7
Amsco 1241	0.5	1.8
total	39.3	152.6
Machine 4 (Module 4)		
end sealant	10.2	39.6
tab lube	5.4	21.1
Texsolve C	2.5	9.7
Amsco 1241	0.2	0.9
total	18.3	71.2
Entire Facility		
end sealant	81.1	315.2
tab lube	43.3	168.3
Texsolve C	19.8	76.9
Amsco 1241	1.8	6.9
total	145.9	567.2

a) Represents 77.7% of total usage; 22.3% is recovered for recycle.

#### ATTACHMENT C

REVISED ATTACHMENT VIII 
POTENTIAL TOXIC EMISSIONS ESTIMATES

AND IMPACT ASSESSMENT

### ATTACHMENT VIII

# POTENTIAL TOXIC EMISSIONS ESTIMATES AND IMPACT ASSESSMENT (REVISED 12/5/90)

### Table VIII-1

### METAL CONTAINER CORPORATION - GAINESVILLE LID PLANT MODERNIZATION PROJECT

### POTENTIAL TOXIC EMISSIONS

### Basis of Estimates

production 24530 lids/min; 11.445 billion lids/yr

	<u>density</u> [lb/gal]	usage rate [gal/1000 lids]	chemical	weight percent
end sealant	7.82	0.0174	n-hexane n-heptane cyclohexane cyclohexylmethane	13 3 2 1
Texsolve C	5.84	0.0023	benzene n-hexane n-heptane cyclohexane	0.001 4 90 4
Amsco 1241	6.32	0.0002	toluene benzene stoddard solvent	4 0.01 100

### **Emissions**

	pounds/hr	tons/yr
n-hexane	26.8	104.2
n-heptane	23.8	92.5
cyclohexane	4.8	18.6
cyclohexylmethane	2.0	7.8
toluene	0.8	3.1
benzene	0.004	0.02
stoddard solvent	1.8	6.9

### TOXIC EMISSIONS ESTIMATE

Estimates of emissions of potential air toxics from the use of low solvent compounds at the Gainesville facility are shown in Table VIII-1. The estimates are based on maximum hourly and annual average production rates, 1989 usage rates at the facility, and compound composition information provided by the manufacturer. These emissions reflect the change from hexane-based clean-up solvent to a heptane-based solvent (Texsolve C).

### IMPACT ASSESSMENT

The maximum hourly emissions of potential air toxics were modeled to determine the off-property ambient impacts for comparison to the no-threat levels established by the Florida Air Toxics Working Group. These no-threat levels include an ample margin of safety to ensure that public health effects are unlikely to occur at such levels. The attached report details the modeling analysis methodology and results.

Table VIII-2 summarizes the maximum predicted off-property impacts of each pollutant compared to the no-threat levels. All predicted impacts are well below the applicable no-threat levels.

TABLE VIII-2 MAXIMUM PREDICTED OFF-PROPERTY IMPACTS COMPARED TO THE FATWG\* NO-THREAT LEVELS

		MUM IMPAC ug/m <sup>3</sup> )	CT		EAT LEVEL	S
POLLUTANT	8 HOUR	24-HOUR	ANNUAL	8-HOUR	24-HOUR	ANNUAL
n-hexane	796	355		1,800	430	
n-heptane	707	315		32,000	15,238	
cyclohexane	143	64		1,000	238	
cyclohexylmethane	59	27		32,000	7,619	
toluene			11**			2,000
benzene			0.05**			0.12
stoddard solvent	53	24		5,250	1,250	

DEP1220 Revised 12/20/90

<sup>\*</sup>Florida Air Toxic Working Group
\*\*Annual impacts were not modeled. Annual impacts were conservatively
assumed to equal the modeled 24-hour maximum impact.

### ATTACHMENT D

PARTS CLEANERS AND TANKS DATA

### PARTS CLEANERS

```
1 - Safety Kleen Model 44 (40 gallon capacity)
```

1 - Heptane Solvent Unit (6 gallon capacity)

### SOLVENT

Safety-Kleen Unit - Stoddard Solvent

Heptane Unit - Texsolve C

### EMISSION ESTIMATES

### Safety-Kleen Unit

service interval - 8 weeks

43 gal/yr lost (Safety-Kleen Loss Calculation)

43 gal/yr x 6.3 lb/gal = 271 lb stoddard solvent/yr

### <u>Heptane Unit</u>

service interval - 4 weeks

Assume 20% lost (MCC records)

0.2 x 6 gal/mo x 12 mo/yr x 5.8 lb/gal = 84 lb

Texsolve C/yr

### END SEALANT COMPOUND STORAGE TANKS

```
1 - 7,000 gallon bulk storage tank
```

1 - 500 gallon day tank

1 C

### THROUGHPUT OF COMPOUND (DM 2140M)

0.0174 gal/1000 lids x 11,445,000,000 lids/yr

= 199,143 gal/yr

= 28 turnovers of bulk tank

= 398 turnovers of day tank

#### **EMISSIONS ESTIMATES**

### Breathing Losses

None - indoor tanks

### Working Losses

Lw = 0.000024 MV P V N Kn Kc

### where

Lw = loss (lb/yr)

Mv = molecular weight of vapor = 89

P = vapor pressure (psia) = 4.1

V = capacity (gal)

N = turnovers/yr

Kn = turnover factor (1.0, bulk; 0.25, day)

Kc = product factor (1.0)

Lw (7,000 gal) = 1742 lb/yr

Lw (500 gal) = 436 lb/yr



### ANHEUSER-BUSCH COMPANIES

October 5, 1990

RECEIVED

Mr. C. H. Fancy, P.E.
Chief, Bureau of Air Regulation
Florida Department of Environmental Regulation
Irwin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: Permit No. AC 01-185835 & PSD-FL-153 Metal Container Corporation - Gainesville Lid Plant

Dear Mr. Fancy:

This letter presents the additional information on the referenced application that was requested in your September 28, 1990 letter to Mr. Robert M. Lanham. This information is presented as responses to the questions in your letter.

Question 1: How many modules will exist after the plant modification? List equipment per each module after modification. Specify proposed emissions per each module.

Four modules will exist after the Response: modernization. The application presented these modules based on their associated shell presses. However, for clarity and consistency, these will be designated as modules. equipment associated with these modules is shown in Table 1. Emissions per each module are as presented in the original application (see attached spreadsheet). As stated in the application all shells produced are assumed to be converted and lined. Therefore, emissions from lining of lids converted by the off-line conversion presses (CP-11 and CP-12), as well emissions from tab lube, are distributed among the four modules (or machines, as presented in the application).

Question 2: Is there only one unit (exhaust vent) being added as a result of this modification? Please explain.

Mr. C. H. Fancy, P.E. October 5, 1990 Page 2

A number of "exhaust" vents are being added -Response: both scrap cyclone exhausts and building ventilation exhausts. The final vent configuration will be as it is presented in the application.

Question 3: What steps have been taken to minimize hexane emissions at your facility? What additional steps could be taken to lower maximum predicted hexane concentrations to be below the 24-hr no-threat level of 430 ug/m<sup>3</sup>?

As is presented in the application, very Response: significant design modifications will be made at the facility to minimize hexane emissions. Four building exhaust vents will be modified to vertical discharges with stacks that discharge 15 feet above the roof level. These vents will be operated continuously. The vents currently operate only during the summer months and discharge downward, several feet above roof level. Five other vents, of which three currently discharge horizontally at roof level, will be constructed/modified to discharge vertically through stacks ten feet above the roof. The scrap cyclones must have rain caps on their exhaust vents in order to operate properly. However, their discharges will be raised ten feet above the roof to reduce their contribution to the hexane impacts.

> Metal Container Corporation is current evaluating other measures to reduce the ambient hexane impacts. These include the technical feasibility of modifying the scrap cyclones to allow vertical exhausts.

Please don't hesitate to call me at (314) 477-4162 with any additional questions.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.

19 Etwel

D. E. Pusch

DEP/tms

cc:

a. Kutyner, NEWist S. Baruch, DER, Bainesulle 11-7-90 Q. Harper, EPA C. Lhauer, NPS

Table 1. METAL CONTAINER CORPORATION – GAINESVILLE LID CENTER MODERNIZATION PROJECT

### **EQUIPMENT IDENTIFICATION BY MODULE**

	Permit		Equipment (	<u>b)</u>
	Application	Shell	End	Conversion
<u>Module</u>	Designation (a)	<u>Press</u>	<u>Liners</u>	<u>Presses</u>
4 (c)	Machine 4 (c)	SP-4	EL-4	CP-6
			EL-5	CP-7
5 (d)	Machine 3 (d)	SP-3	EL-1	CP-8
			EL-2	CP-9
			EL-3	CP-10
			EL-6	
6	Machine 2	SP-2	EL-11	CP-4
			EL-12	CP-5
			EL-13	
			EL-14	
7	Machine 1	SP-1	EL-7	CP-1
			EL-8	CP-2
			EL-9	CP-3
			EL-10	
Off-Line	-	-	_	CP-11
Conversion				CP-12
Presses				

<sup>(</sup>a) As designated in the August 15, 1990 permit application

<sup>(</sup>b) As identified in Table II.A-1 of the August 15, 1990 permit application

<sup>(</sup>c) Currently identified/permitted as Module 4 by Florida

<sup>(</sup>d) Currently identified/permitted as Module 6 by Florida DNR

## TABLE II.A-1 GAINESVILLE LID CENTER MODERNIZATION EQUIPMENT LIST

<u>IDENTIFICATION</u>	MANUFACTURER	COMMENTS
SHELL PRESS SP-1 SP-2 SP-3 SP-4	Minster/Redicon* End Level II " " Minster/Redicon DAS-100-72	New " Existing <sup>a</sup> )
CONVERSION PRESS  CP- 1  CP- 2  CP- 3  CP- 4  CP- 5  CP- 6  CP- 7  CP- 8  CP- 9  CP-10  CP-11  CP-12	Minster/Stolle  ""  ""  Bruderer/Stolle  ""  Minster/Stolle  ""  ""  ""	New " " Existingb) " b) " a) " a) " New
END LINER EL-1 EL-2 EL-3 EL-4 EL-5 EL-6 EL-7 EL-8 EL-9 EL-10 EL-11 EL-12 EL-13 EL-14	Preferred  H  H  H  H  H  H  H  H  H  H  H  H  H	Existinga)  " a)  " b)  " b)  " " " " " " New "

- a) Currently identified/permitted as Module 6 by Florida DER.
- b) Currently identified/permitted as Module 4 by Florida DER.

DEP725-1

# METAL CONTAINER CORPORATION GAINESVILLE LID PLANT MODERNIZATION PROJECT

### **VOC Emissions Basis**

estimates based on shell press capacity (assumes all shells produced are lined)

press operating efficiency	90	%
annual operation	360	days
usage rates	1989	actual

### Shell Press Specifications

<u>machine</u>	speed	stations	shells/min	annuai <u>producti</u>	<u>on</u>
1	275	27	7425	3.464	billion
2	275	27	7425	3.464	billion
3	275	24	6600	3.079	billion
4	140	22	3080	1.437	billion
			total	11.445	billion

### Coating/Solvent Specifications

compound	typical <u>mfg ident</u>	density [lb/gal]	VOC content [wt frax]	usage rate [gal/1000lids]
end sealant	DM 2140	7.82	0.405	0.0174
tab lube	J-G 3810	6.35	0.945	0.0049
solvents	Amsco 1487	5.58	1.000	0.0023 a)
	Amsco 1241	6.32	1.000	0.00019

### VOC Emissions (by shell press production)

	pounds/hr	tons/yr
Machine 1 (Module 7)		
end sealant	24.5	95.4
tab lube	13.1	50.9
Amsco 1487	5.7	22.2
Amsco 1241	0.5	2.1
total	43.9	170.6

	pounds/hr	tons/yr
Machine 2 (Module 6)		
end sealant	24.5	95.4
tab lube	13.1	50.9
Amsco 1487	5.7	22.2
Amsco 1241	0.5	2.1
total	43.9	170.6
Machine 3 (Module 5)		
end sealant	21.8	84.8
tab lube	11.6	45.3
Amsco 1487	5.1	19.8
Amsco 1241	0.5	1.8
total	39.0	151.7
Machine 4 (Module 4)		
end sealant	10.2	39.6
tab lube	5.4	21.1
Amsco 1487	2.4	9.2
Amsco 1241	0.2	0.9
total	18.2	70.8
Entire Facility		
end sealant	81.1	315.2
tab lube	43.3	168.3
Amsco 1487	18.9	73.4
Amsco 1241	1.8	6.9
total	145.0	563.8

a) Represents 77.7% of total usage; 22.3% is recovered for recycle.



April 23, 1991

Mr. Barry Andrews, P.E. - Administrator Permitting and Standards Section Bureau of Air Regulation Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Re: Metal Container Corporation Gainesville Lid Plant Modernization Project DER File No. AC 01-185835, PSD-FL-153

Dear Mr. Andrews:

This letter and the supplemental data submitted April 25, 1991, present Metal Container Corporation's comments on the Technical Evaluation and Preliminary Determination and proposed permit to modify the Gainesville Lid Plant.

### Incorporation of Supplemental Data

Metal Container Corporation requests that the Department include in any technical evaluation the data submitted on December 10, 1990 regarding the reduction in hexane emissions as well as the supplemental information submitted on April 25, 1991. The information presented in these submittals will change emission summaries and proposed permit limits.

### Specific Condition 1 - VOC Content

The VOC content of the heptane based cleanup solvents is 5.84 lb/gal. The plant has changed to this solvent from the previously used hexane based solvent to reduce hexane emissions from facility operations.

### Specific Condition 7 - Thermal Oxidizer

Thermal oxidation of fugitive emissions from high-speed lid lines is an unproven technology. Metal Container ° Corporation's April 25, 1991 submittal presents technical data that demonstrates that the thermal oxidation system on which this permit condition is based is not a technically

مرجم بعدائه

### feasible control

alternative. The technical problems and excessive costs associated with thermal oxidation of fugitive emissions at this type of plant are presented in the April 25, 1991 submittal. This submittal demonstrates that best available control technology is the use of low solvent, high solids end sealant compound.

### Specific Condition 11 - Waste Solvent Analysis

In the original permit application, MCC estimated that 23 percent of TexSolve C (heptane) will be shipped offsite as waste for recycling. These wastes contain a mixture of oils as well as solvents. To obtain an accurate determination of the VOC content of waste cleanup solvent taken offsite, MCC proposes analysis of the wastes for heptane. A composite sample of the wastes will be taken every six months and analyzed for heptane to determine the quantity sent offsite.

### BACT Determination - Environmental Impact Analysis

The air toxics emissions data overstated the air toxics emissions from end sealant usage on the two new modules. The correct emissions are shown below.

Air Toxic	Emissions <u>(tons/year)</u>
n-hexane	38.1
n-heptane	8.8
cyclonexane	5.9
cyclohexylmethane	<u>2.9</u>
	Total 55.7

The maximum 24-hour impact of n-hexane (287  $ug/m^3$ ) due to emissions from the entire facility is well below the Florida Air Toxic Working Group's No-Threat Level (430  $ug/m^3$ ). Thus, these emissions do not pose a threat to public health or welfare.

### BACT Determination - Discussion

This section states that the facility would be ranked as the sixth highest VOC emitter in Florida after the modernization. This determination is not valid, since MCC's potential emissions were compared to the other facilities' actual emissions.

of the second

### General Comment

MCC requests that the Department redesignate the lid modules to be consistent with the plant's designation. The April 25, 1991 submittal presents the preferred designation, as shown below.

# MCC Designation Module 4 Module 5 Module 6 Module 7 Module 4a) Module 6a) Module 6a - Module 7

a) currently permitted

Call me at (314) 577-4162 if you have any questions regarding these comments.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.

Dean EPusel

Dean E. Pusch

Sr. Environmental Scientist

DEP:cd



## Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

October 2, 1990

Mrs. Chris Shaver
Chief, Permit Review and Technical
Support Branch
National Park Service
Air Quality Division
P. O. Box 25287
Denver, Colorado 80255

Dear Mrs. Shaver:

Re: Completeness Review

The enclosed information is being forwarded to you for completeness review.

- 1. CF Industries "C" and "D" Double Absorption Sulfuric Acid Plants modifications; PSD-FL-155; please submit comments by October 25, 1990; and,
- Anheuser-Busch Companies, Inc. lid production capacity modification; PSD-FL-153; currently incomplete and their response will be forwarded upon receipt; please review for comments.

If there are any questions, please call Barry Andrews at (904) 488-1344 or write to me at the above address. All comments, written or oral, should be received by the above requested dates. If it is convenient to FAX a response to us, the FAX number to use is (904)922-6979.

Sincerely,

Barry D. Relum F-C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/BM/t

Preadly File



### Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Bob Martinez, Governor

John S

John Shearer, Assistant Secretary

Dale Twachtmann, Secretary
October 2, 1990

Ms. Jewell A. Harper, Chief Air Enforcement Branch U.S. EPA - Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Ms. Harper:

Re: Completeness Review

The enclosed information is being forwarded to you for completeness review.

- Vero Beach Municipal Power Plant: 58 MW combined cycle plant; PSD-FL-152; please submit comments by October 29, 1990;
- Farmland Industries, Inc. Green Bay Complex: Sulfuric Acid Plant No. 5 modification; PSD-FL-143A; please submit comments as soon as possible;
- 3. CF Industries "C" and "D" Double Absorption Sulfuric Acid Plants modifications; PSD-FL-155; please submit comments by October 25, 1990; and,
- 4. Anheuser-Busch Companies, Inc. lid production capacity modification; PSD-FL-153; currently incomplete and their response will be forwarded upon receipt; please review for comments.
- 5. Ft. Pierce Utilities Authority H.D. King Unit 9: modification; PSD-FL-154; currently incomplete and their response will be forwarded to you upon receipt; please review for comments.

If there are any questions, please call Barry Andrews at (904) 488-1344 or write to me at the above address. All comments, written or oral, should be received by the above requested dates. If it is convenient to FAX a response to us, the FAX number to use is (904)922-6979.

Sincerely,

Ramy D. Alm L. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/BM/t



### Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Dale Twachtmann, Secretary Bob Martinez, Governor

John Shearer, Assistant Secretary

September 28, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Robert M. Lanham Anheuser-Busch Companies, Inc. Executive Office St. Louis, Missouri 63118-1852

Dear Mr. Lanham:

Permit No. AC 01-185835 & PSD-FL-153

The Department has reviewed your application for a permit to construct/modify the metal container lid facility in Gainesville, Alachua County, Florida. We need more information to process this application. Please complete the applications by supplying the information requested below:

- How many modules will exist after the plant modification? List equipment per each module after modification. Specify proposed emissions per each module.
- Is there only one unit (exhaust vent) being added as a result of this modification? Please explain.
- What steps have been taken to minimize hexane emissions at your facility? What additional steps could be taken to lower maximum predicted hexane concentrations to be below the 24-hr no-threat level of 430 ug/m<sup>3</sup>?

We will resume processing your application this information is received.

If you have any questions, please call Teresa Heron, review engineer, at (904)488-1344 or Cleve Holladay, meteorologist, or write to me at the above address.

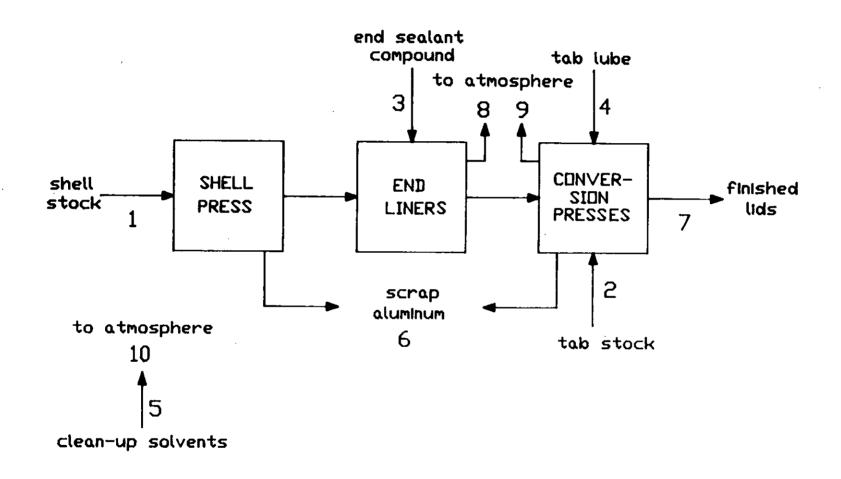
Sincerely,

C. H. Fanoy, P.E.

Chief

Bureau of Air Regulation

CHF/TH/plm



GAINESVILLE MODERNIZATION - FLOW DIAGRAM

TYPICAL MODULE BASED ON SHELL PRESS - ONE OF FOUR

### P 256 396 204

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

8 4

124	70007701507						
-U.S.G.P.O. 1989-234-555	Sent to Mr. Robert M. Lanha						
1989	Street and No. Com Executive Office						
0.9.0	PO. State and ZIP Code St. Louis, MO 63118-1852						
, 13°	Postage	S					
,	Certified Fee						
`	Special Delivery Fee						
	Restricted Delivery Fee						
ın	Return Receipt showing to whom and Date Delivered						
198	Return Receipt showing to whom, Date, and Address of Delivery						
Jun.	TOTAL Postage and Fees	5					
3800	Postmark or Date Mailed: 9-28-90						
PS Form 3800, June 1985	Permit: AC 01-1858 PSD-FL-153	_					
S.	155 12 155						