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Bensenville, IL 60106

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December 8, 2017

Mr. Mark Baumhart
1551 Elmhurst Road
Elk Grove Village, Illinois 60007

Re: December 7, 2017 FOIA Request

Dear Mr. Baumhart:

I am pleased to help you with your December 7, 2017 Freedom of Information Act ("FOIA"). The Village of Bensenville received your request on December 7, 2017. You requested copies of the items indicated below:

"Information on file with the Village for 240 Foster (Chem Blend) including inspection reports, any info on incidents for chemical spills, any reports."

After a search of Village files, the following documents are enclosed to fulfill your request:

- 1) Letter from Richard A. Young, PE, REM, Pollution Control Office Dated December 9, 1998. (3 pgs.)
- 2) Chemical Distribution, Inc. Request for Occupancy Dated February 10, 1999. (5 pgs.)
- 3) Illinois Environmental Protection Agency Letter Dated March 2, 2000. (6 pgs.)
- 4) Fire Safety Consultants, Inc. Letter Dated October 4, 2005. (9 pgs.)
- 5) Village of Bensenville Correction Notice No. 28947. (1 pg.)

These are all of the documents that can be discovered responsive to your request.

Do not hesitate to contact me if you have any questions or concerns in connection with this response.

Very truly yours,

Corey Williamsen
Freedom of Information Officer
Village of Bensenville

Linnick/copy

To: Chief Jack Barba, Bensenville, Fire Department
CC: Art Manaois, Chemical Distribution, Inc.
From: Richard A. Young, PE, REM, Pollution Control Officer
Date: December 9, 1998
Subject: 240 Foster, Bensenville

On December 9, 1998, Pollution Control Officers R. A. Young and S. S. Young were invited by Chemical Distribution Inc. to conduct a preliminary environmental health and safety walk-through compliance audit of the building and property at 240 Foster, Bensenville. The building is owned by Alpha Metals, Inc. We were accompanied by Chemical Distribution Inc. employees Art Manaois (Plant Manager), Anand Setaram (Process Engineer) and Bonnie Eberhart (Safety Compliance Officer), 701 Warrenville Rd, Lisle, IL. Phone: (630) 633 - 0130, fax: (630) 633 - 0136

At the time of our inspection, the building appeared to be virtually vacated with only two employees still onsite. It appeared most stocks had been removed and tanks emptied.

It is important to note that no assumptions in this report were based on the possible future use or purchase of the building.

The following potential environmental health and safety problems were noted in the building and on the surrounding grounds.

1. Housekeeping

- Laboratories
 - work surfaces in rear laboratory were cluttered and dirty
 - glassware and other laboratory equipment in rear area not stored in designated areas.
 - Exhaust hoods were unclean and cluttered.
 - Trash in Alcohol storage tank area of back of building including lab equipment table.
- Upper Level Storage
 - Trash and flammable material piled in corners.

2. Safety Equipment and Training

- Fire extinguishers were not fully charged or tested within appropriate time limits.

- Fire blankets not provided or accessible.
- Splash suits, goggles, aprons, gloves, and masks not available onsite.
- Safety equipment not worn during storage, inspection, on in laboratory.
- No disaster response or safety plan available onsite.
- No bilingual safety signs.
- No MSDS Sheets onsite.
- No proof of training onsite.

3. Chemical Control

- Chemicals and solvents improperly stored or labeled.
 - Sink in laboratory
 - Misc. drums and bags
 - Exhaust hood (Makeshift storage)
- Hazardous liquids and materials stored above eye level.
- Liquid chemical materials present and improperly labeled.
 - Disposal and storage issues.
- Poor or nonexistent diking. Stored chemicals in drums and bags must be diked.
- All tanks must be labeled as to contents.
- MSDS must be readily available in all areas where chemicals are used or stored
- Nitrogen and hydrogen gas systems must be certified.
- Chemical piping systems must be protected inside and outside the plant from vehicular damage.

4. Electrical

- Electrical cords and plugs in poor condition. Many electrical boxes not covered.
- Improper wiring of lights in plant office – wire not enclosed in conduit.

5. Security

- Access areas not provided for fire department (Key boxes).
- Eight tanks in tank farm behind the building with Alcohol. (Undetermined status).
- Chain link fence doorway being held closed with scrap wire and must be repaired and locked.

6. Sewer system

It has been reported by the Public Works Department that the floors inside the plant have not been cleaned and neutralized for hazardous materials, and that Alpha Metals is taking bids from contractors. The Village will have to sample and analyze the discharge from the plant to ensure it meets discharge standards.

7. Hazardous Materials

The Bensenville Fire Department must be provided with Material Safety Data Sheets (MSDS) for all of the following hazardous materials found in the plant at the time of our audit.

Chemicals Found Onsite

Monoethanolamine 2,2,0

Hydroxyacetic Acid 2,0,0

Photoresist 2,2,0

Acetone

Mineral Spirits

KFR Developer (Flammable Liquid)

Resist 930 1,2,0
Ortek and Ornap
Xylene and Glycol Ether EE Acetate
Monsanto Scripse 11 (Resin)

Any of these chemicals remaining in the plant at the time of change in ownership will be considered as hazardous wastes, and by federal law must be disposed of in 90 days by the previous owner, unless their ownership is transferred to a new owner and that they are classified as hazardous materials and not wastes. Of particular concern should be the ultimate disposition of the contents in the tank farm.

8. Ventilation

Building requires installation of a makeup air system and balancing of the exhaust systems. The makeup air system must take into account all laboratory and process exhausts. Exhaust hoods must be certified and information provided as to materials being emitted from the facility.

There are gas-fired, ceiling-hung heating units in the plant area. All units must be inspected prior to occupancy to ensure proper operation.

9. Fire violations

At the time of our inspection, we found one fire door blocked open, one flammable materials cabinet left open, several ceiling panels left open, materials stored too close to sprinkler heads. We found substantial quantities of materials labeled as "Flammable." This material will have to be reviewed by the Bensenville Fire Department to determine if it is being stored within approved amounts.

10. Future Use

The Village of Bensenville must be provided with plans and descriptions of operations and storage prior to determination of environmental acceptability. Employee training must be conducted prior to operation. Federal, State of Illinois and DuPage County environmental permits must be obtained prior to startup.

This report is not intended to be a complete Phase I or Phase II environmental audit and/or assessment. No samples were taken or analyzed. No testing was conducted for lead paint, asbestos, radon or soil contamination. No air samples were taken for "sick building syndrome." Additionally, this report is not intended to provide all of the environmental health and safety requirements that may be required for any future use of the subject property.

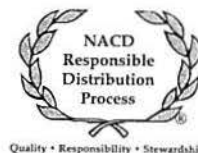
In accordance with the Illinois Real Estate Transfer Act, we vigorously recommend that prior to acquisition of this or any other property, that a Phase I and Phase II environmental assessment be conducted by potential purchasers to ensure due diligence is carried out.



Chemical Distribution, Inc.

Tel: 630-663-0130
1-800-533-3287
FAX 630-663-0136

701 Warrenville Road
Suite 155
Lisle, Illinois 60532



Quality • Responsibility • Stewardship

February 10, 1999

To: Chief Jack Barba, Bensenville Fire Department
Richard A. Young, PE, REM, Pollution Control Officer
Captain Lonnie Jackson, Bensenville Fire Department

Re: Request for Occupancy Permit

Chemical Distribution, Inc. will be completing the purchase of the facility at 240 Foster Avenue from Alpha Metals on March 1, 1999. We hope to be able to obtain a permit from the Village of Bensenville to commence our distribution and blending operations on March 8, 1999. I have attached an update of our timetable for addressing the issues raised during your walkthroughs in December. I will apprise you of any changes to this timetable. I hope that this would help facilitate the Village of Bensenville's review process for issuing an Occupancy Permit.

As an active member of the National Association of Chemical Distributors (NACD), CDI is committed to exercising the association's Responsible Distribution Program (RDP) at its new home in Bensenville. The RDP program mandates the implementation of effective systems for Risk Management, Compliance Review and Training, Handling and Storage, Waste Management, Emergency Response and Public Preparedness, Community Outreach, and Product Stewardship.

I will contact you in a few days after you have had the opportunity to review this report. If you should have any question please call me at (630) 663-0130.

Sincerely,
CHEMICAL DISTRIBUTION, INC

Arthur C. Manaois
Plant Manager

Description of the Fire Chief's Observations	Action Plan	Target Date of Completion
	Close purchase of facility	Mar 1
	Start blending and distribution operations	Mar 8
	Negotiating with Alarm companies	Mar 1
1. Upgrade Exit Signs	Exit signs will be upgraded to meet current codes.	Apr 2
2. Upgrade Emergency Lighting	Emergency Lighting will be upgraded to meet current codes.	Apr 2
3. Upgrade Fire Extinguisher	Fire Extinguishers will be upgraded to meet current codes.	Mar 8
4. Drop Test X2	To be conducted per current code	Mar 8
5. Certify Electrical lines	We'll schedule the village inspector to certify.	Mar 12
6. Alarm coverage in Lab	Part of item 9 below.	June 30
7. In-Rack System	The Rack Plan is attached. All flammables will be stored in racks equipped with sprinklers.	Completed
8. Fire Pump Test	Fire Pump test will be conducted by Grinnell and witnessed by a representative of the Fire Department Report to follow.	Mar 8
9. Fire Alarm System	Upgrade fire alarm system to meet current codes.	June 30
10. Certify Flammable Liquid Rooms	Certify to current codes. Report to follow	Apr 2
11. No Smoking	CDI will be a NON-SMOKING facility	Mar 8
12. HAZMAT	CDI employees have received HAZMAT Training	Complete
13. MSDS Sheets	MSDS's for all chemicals will be on site and accessible.	Mar 8
14. Improper Storage	Alpha Metals vacated the site in disarray. CDI will implement appropriate storage plan (See item 7 above)	On-Going
15. Spill Protection	Will be available at the plant.	Mar 8
16. Certify Sprinkler System Density w/ 100% head coverage	Grinnell will certify to current code. Report to follow.	Mar 8
17. Fire Pump Certification Flow Tests (X2)	Grinnell will certify to current code. Report to follow.	Mar 8
18. In-Rack Sprinklers	Most of the racks are already equipped with sprinklers. These racks will be used for flammables. The racks without sprinklers will be used to store chemicals that are either nonflammables or are not compatible with water.	Complete
19. Fire Hose Stations	Are available at the plant.	Complete
20. Column Sprinklers	Need to discuss further.	Follow-up
21. Certify Inside & Outside Foam Systems	Grinnell will conduct the testing and a representative from the Fire Department will witness. Report to follow.	Mar 8
22. Main drain to outside	There are already several floor drains throughout the plant.	In Place
23. Water Indicator Lights	Some of the water indicator lights in the panel are burned out. These will be replaced when testing is done.	Mar 8
24. Outside Access door to Pump Room	We have surveyed the pump room to determine how to install an access door to outside. We could not envision a way to accomplish this task without incurring very costly reconfiguration of the pipes and panels. We request some guidance from Chief in addressing this item.	Request for Guidance

Description of the Fire Chief's Observations	Action Plan	Target Date of Completion
25. Remove abandoned tanks	CDI will utilize the vessels and tanks that Alpha Metals left at the plant. Any equipment left that is inoperable will be removed from the premises.	Mar 31
26. Improperly maintained weeds by the tank farm	CDI will contract a landscaping company to maintain the grounds (and snowplowing)	Mar 31
27. Improper gas water heater/furnace venting	Certify to meet current codes.	Complete
28. Certify electrical system	We'll schedule the village inspector to visit.	Mar 12
29. Certify plumbing system	Certify to meet current codes. <i>RPZ</i>	Complete
30. Certify HVAC system	Certify to meet current codes.	Complete
31. Rack Storage Plan w/ In Rack Sprinklers on all racks/levels	The Rack Plan is attached	Complete
32. RPZ certification	Certify to meet current codes. Report to follow	Mar 8
33. Certify all Nitrogen/Hydrogen gas systems	Vendors to certify gas	Mar 8
34. Certify a. Diking b. Pumps, tanks & vats c. Building ventilation	a. Diking is addressed in the response to Mr. Young's item 3 (Chemical Control) below b. Certify pumps and tanks for safe operations c. Certify to meet current codes	Mar 8
35. Certify mixing rooms & flammable liquid rooms w/ proper explosion proof wiring, grounding & bonding, ventilation	Certify to meet current codes	Mar 8
36. Manual Emergency shut down valves w/ proper signage on all tanks	The outside farm tank will not be in use for the first few months of occupancy. However, the manual emergency shutdown valves will be properly identified with appropriate signs.	May 8
37. MSDS on all products, label all tanks, & Vats w/NFPA 704 marking system	All tanks and vessels will be properly labeled and MSDS's will be made accessible when plant operation begins.	On-Going
38. Employee HAZMAT Training Program	CDI has an Employee HAZMAT Training Program	In Place
39. Identity of 24 hr Emergency Clean up Contractor	In the process of negotiating for a contractor. To follow.	Mar 8
40. Protect all outside piping from vehicle damage (dock and tank areas)	Outside piping will be protected from vehicular damage	May 31
41. Remove boulders on row	CDI would like to retain the boulders to prevent the trucks from driving over the lawn. CDI respectfully requests the Fire Chief to waive this requirement.	Request for Waiver <i>JD</i>
42. Remove parking spaces @ front entrance	The parking lot will be re-striped in late spring and the parking spaces at the front office will be removed <i>HANDICAP PK 100</i>	May 1
43. Note max quantities of flammable liquids allowed inside and outside	Currently, CDI will be handling/storing on the average of 35,000 pounds per day of flammable liquids. The anticipated level allowed will be 100,000 pounds. If this rises, the Fire Department will be notified immediately.	On-Going

Description of the Pollution Control Officer's Observations	Action Plan	Target Date of Completion
1. Housekeeping	Alpha Metals has vacated the premises in disarray. CDI will clean the facility before operation begins.	Mar 8
2. Safety Equipment and Training	<p>The following will be done prior to the commencement of operation.</p> <ul style="list-style-type: none"> - Fire Extinguishers will be charged - Fire blankets will be accessible - Splash suits, goggles, aprons, gloves, and masks will be available - Policies will be established regarding the mandatory use of appropriate safety equipment throughout the plant - Disaster response plan will be available - MSDS will be available 	Mar 8
	<p>The following will be done monthly</p> <ul style="list-style-type: none"> - Safety Training will be conducted - Fire Extinguishers will be inspected 	On-going
	Currently, all CDI employees are fluent in reading and writing in English. Bilingual signs will be instituted when the need arises.	On-hold
3. Chemical Control	<p>Alpha Metals vacated the facility in disarray. CDI will do the following.</p> <ul style="list-style-type: none"> - Store and label chemicals properly. (See in-rack system). - All tanks will be properly labeled. - MSDS will be made available - Nitrogen and Hydrogen gas cylinders will be certified by the vendor 	On-going
	Chemical piping systems will be protected from vehicular damage. (See item 40 above)	May 31
	<p>CDI feels that there is adequate diking around the main tanks. However, establishing a diking system for chemicals in drums and bags would be very prohibitive to our daily operation. CDI has researched the chemical industry for reference and model but could not find anyone that use dike for drums and bags. Also, having such a system would pose a greater safety risk rather than without it.</p> <p>CDI feels that establishing strict procedures and administrative controls and implementing good manufacturing practice would be more effective measures for the prevention of runaway materials due to spills.</p>	Request for Procedural alternative to diking of drums and bags.

Description of the Pollution Control Officer's Observations	Action Plan	Target Date of Completion
4. Electrical	Alpha left the electrical system in poor condition after removing most of the mixing equipment. CDI will have the electrical system certified. (See above)	Complete
5. Security	There is a key box for the fire department to gain access to the facility. The box is located by the front entrance.	In place
	The use for the tank farm is yet to be determined. Appropriate signage will be affixed to identify the status of these tanks.	May 31
	Alpha Metals did not properly secure the tank farm area when they vacated the facility. CDI will provide adequate security to the tank farm area.	May 31
6. Sewer system	Alpha Metals denied ever contacting the Public Works with regards to discharging hazardous materials down the sewer. CDI would like to arrange for the village to analyze the sewer drain.	Mar 8
7. Hazardous Materials	It is CDI's understanding that the Fire Department already has copies of the MSDS for the chemicals found at the plant during the audit. However, the MSDS 's are attached to the Fire Chief's copy. The ownership of these chemicals will be transferred to CDI when the transaction for the facility is completed.	Submitted
	Alpha Metals has emptied the contents of all the storage tanks and mixing vessels and transferred them to the Alpha facility in Georgia. There should be no environmental concerns regarding these vessels.	No action
8. Ventilation	See item 30 above	Complete
9. Fire Violations	The fire violations cited are remnants of how Alpha vacated the plant. CDI will correct these problems with its own procedures and controls that will be in compliance to current codes and Good Manufacturing Practices.	On-going
10. Future Use	This report serves as a description of CDI's initial plan for the facility. CDI will warehouse, distribute, and perform light manufacturing of chemicals primarily for the Personal Care industry.	On-Going
	All current CDI employees have had HAZMAT training.	Complete
	Permits will be obtained from all pertinent regulatory agencies prior to the start of plant operation.	Mar 8
	Per our Due Diligence a Phase I assessment has been conducted by an independent lab.	Complete



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

P.O. BOX 19506, SPRINGFIELD, ILLINOIS 62794-9506

THOMAS V. SKINNER, DIRECTOR

217/782-2113

March 2, 2000

Chemical Distribution, Inc.
Attn: Edward Wedge
240 Foster Avenue
Bensenville, Illinois 60106

BENSENVILLE
L.H. JACKSON
FIRE PREVENTION
BUREAU CHIEF
FROM
ED WEDGE
3/8/00

#327.3729

I.D. No.: 043414ACX

Dear Mr. Wedge:

Enclosed is a revised permit letter which reflects only a change of ownership. Please note that if you have changed or intend to change this operation it will be necessary to apply for revision of your air pollution permit(s).

If you have any questions or require any assistance concerning these matters, contact Karen Luparell at 217/782-2113.

Very truly yours,

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:KJL:89010036:jar

Enclosure

cc: Region 1
I.D. File
Permit File



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

P.O. BOX 19506, SPRINGFIELD, ILLINOIS 62794-9506

THOMAS V. SKINNER, DIRECTOR

217/782-2113

LIFETIME OPERATING PERMIT - REVISED

PERMITTEE

Chemical Distribution, Inc.
Attn: Edward Wedge
240 Foster Avenue
Bensenville, Illinois 60106

Application No.: 89010036
Applicant's Designation: BLENDEQUIP
Subject: Chemical Blending
Date Issued: June 15, 1999
Location: 240 Foster Avenue, Bensenville

I.D. No.: 043414ACX
Date Received: June 15, 1999
Expiration Date: See Condition 1.

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of:

7 Resist Mixers
3 Resist Roll Mills
One Portable Mix Tank Station
One Filling Station
One Natural Gas Boiler
30 Chemical Blend Tanks
7 Storage Tanks
An Acid Product Process which includes One 15,00 Gallon Blending Tank
One 5,500 Gallon Transfer Tank Controlled by a Scrubber
A Drum Filling Station
Associated Hoods

pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.
- b. This permit shall terminate if it is withdrawn or is superseded by a revised permit.
- 2a. This permit is issued based on negligible emissions of organic material from the organic material storage tanks. For this purpose, emissions from each source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
- b. Emissions and operation of equipment shall not exceed the following limits:

Item of Equipment	Process Rate		VOM Emissions	
	(Lbs/Hr)	Operating Hours (Hour/Year)	(Lb/Hour)	(Ton/Yr)
Mix Tank M-2	2,160	200	0.2	0.02
M-4	2,300	1,500	0.2	0.15
M-5	2,870	1,400	0.3	0.21
M-6	1,340	400	0.2	0.04
M-8	3,750	100	0.4	0.02
M-13	800	3,100	0.2	0.31
M-14	800	2,100	0.3	0.32
M-15	4,740	1,152	0.1	0.06
Portable Mix Tanks Station	1,100	4,160	0.56	0.17
Filling Table	1,000	550	0.1	0.03
7 Resist Mixers	170	4,608	0.06	0.14
3 Resist Roll Mills	170	4,608	0.07	0.17

These limits are based on maximum process weight rate and operating hours. Compliance with annual limits shall be determined from a running total of 12 months of data.

- c. This permit is issued based on negligible emissions of organic material from all other mix tanks. For this purpose, emissions from each source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
- d. This permit is issued based on the Permittee's miscellaneous formulation manufacturing and ink manufacturing operations not being subject to the VOM control requirements of 35 Ill. Adm. Code Part 218, Subparts QQ and AA, respectively. This is because the potential to emit VOM as described in the application is less than 25 tons per year.
- e. Operation and emissions of acid products process shall not exceed the following limit:

Production Rate		VOM Emissions	
(Gal/Mo)	(Gal/Yr)	(Lb/Mo)	(Ton/Yr)
26,667	320,000	50	0.30

These limits are based on maximum annual production, 90% of raw materials consists of a vapor pressure of < 0.04 mmHg and 10% of raw materials consists of a maximum vapor pressure of 33 mmHg at blending temperature (ambient temperature). Compliance with these limits shall be determined from the records required by this permit. Compliance with annual limits shall be determined from a running total of 12 months of data.

- f. This permit is issued based on negligible emissions of particulate matter and acid gases (primarily nitric and hydrochloric acid) from acid product process. For this purpose emissions of each contaminant shall not exceed nominal emission rates of 0.1 lb/hr and 0.44 ton/yr.
3. The Permittee shall maintain annual and monthly records of the following items:
- a. All raw materials used during each month. These records shall include the chemical name and the amount of each raw material consumed. For each raw material consumed in excess of 10,000 pounds in the previous calendar year, the permittee shall maintain records of the estimated emissions of the raw material into the atmosphere.
 - b. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic maintenance on the pollution control equipment covered under this permit such that the pollution control equipment be kept in proper working condition and not cause a violation of the Environmental Protection Act or regulations promulgated therein.
 - c. The Permittee shall also maintain records of the following items, and such other items as may be appropriate to allow the Illinois EPA to review compliance with the limits in this permit.
 - i. Production from acid product process (gallon/month and gallon/year).
 - ii. Molecular weight and vapor pressure at blending temperature of each VOM containing raw materials.
 - iii. MSDS of each raw materials.
 - iv. Maintenance log of scrubber system.
 - v. VOM emissions calculation from acid product process (lb/mo and ton/yr).
4. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

5. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
6. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

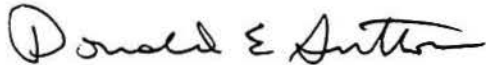
and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Eisenhower Tower
1701 South First Avenue
Maywood, Illinois 60153

7. Persons with lifetime operating permits must obtain a revised permit for any of the following changes at the source:
 - a. An increase in emissions above the amount the emission unit or the source is permitted to emit;
 - b. A modification;
 - c. A change in operations that will result in the source's noncompliance with conditions in the existing permit; or
 - d. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

Page 5

If you have any questions on this permit, please contact Don Hanko at 217/782-2113.

A handwritten signature in cursive script that reads "Donald E. Sutton". The signature is written in dark ink on a white background.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:DMH:jar

cc: Region 1

FILE COPY



FIRE SAFETY CONSULTANTS, INC.

1015 W. WISE ROAD, SUITE 200
SCHAUMBURG, ILLINOIS 60193-3737

847/891-3665 • FAX 847/891-3932
EMAIL: INFO@FIRESAFETYFSCI.COM

October 4, 2005

Ed Wedge
Chemblend of America
240 Foster Ave.
Bensenville, IL 60106

Re: Fire Protection Issues

Ed,

On December 17th 2004, you received a list of outstanding Fire and Life Safety issues from the Bensenville Fire Department. The following outline the requirements based on NFPA 30, 2000 edition.

NFPA 30 Fire Protection Criteria

Sprinklers: The fire protection criteria outlined in NFPA 30 tables are based around important variables found in determining the severity and rate of fire growth. These tables specify the sprinkler system design criteria. For either water based or foam water based systems.

Storage: The type of storage, which includes height limitations, storage width, aisle width and ceiling height limitations.

Containers: This includes type and size of the containers along with the class of liquid in the container. Class is determined by the flash point of the liquid.

Fire protection measures and prevention strategies are also an important segment of NFPA 30. These include building construction features, ignition source control, vapor venting, electrical wiring and processing of flammable / combustible liquids.

Michigan Office • 23650 Woodward Avenue, Pleasant Ridge, MI 48069 • 248.545.3330 • Fax 248.545.3376

Classifications of liquids that are subject to NFPA 30 are generally known as combustible or flammable liquids. A combustible liquid is any liquid with a (closed cup) flash point of 100 F degrees or greater. Combustible liquids are further classified as Class II class IIIA. Flammable liquids are classified 1A, 1B or 1C. Class 1A having a flash point of below 73 F degrees and a boiling point below 100 F degrees. Class 1B having a flash point below 73 F degrees and a boiling point of at or above 100 F degrees. Class 1C having a flash point at or above 73 F degrees and below 100 F degrees.

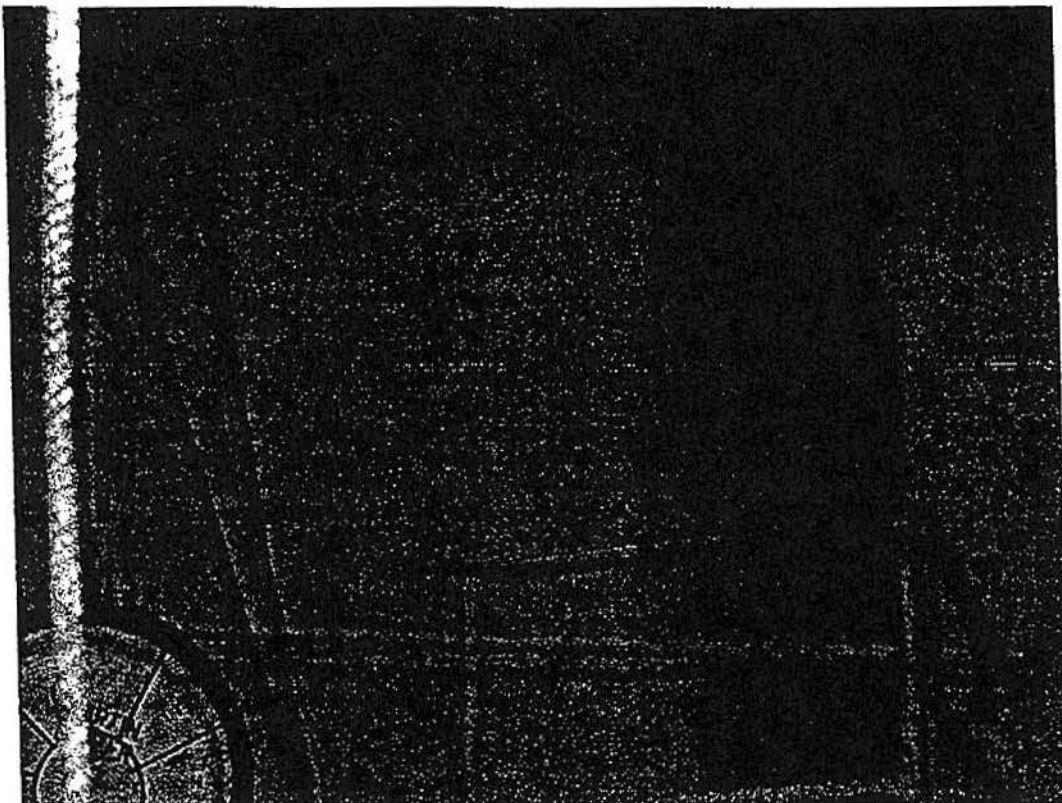
1) Design and Construction Requirements NFPA 30 (4-4.2)

Building features, layout and construction are also critical factors in NFPA 30. Important definitions are:

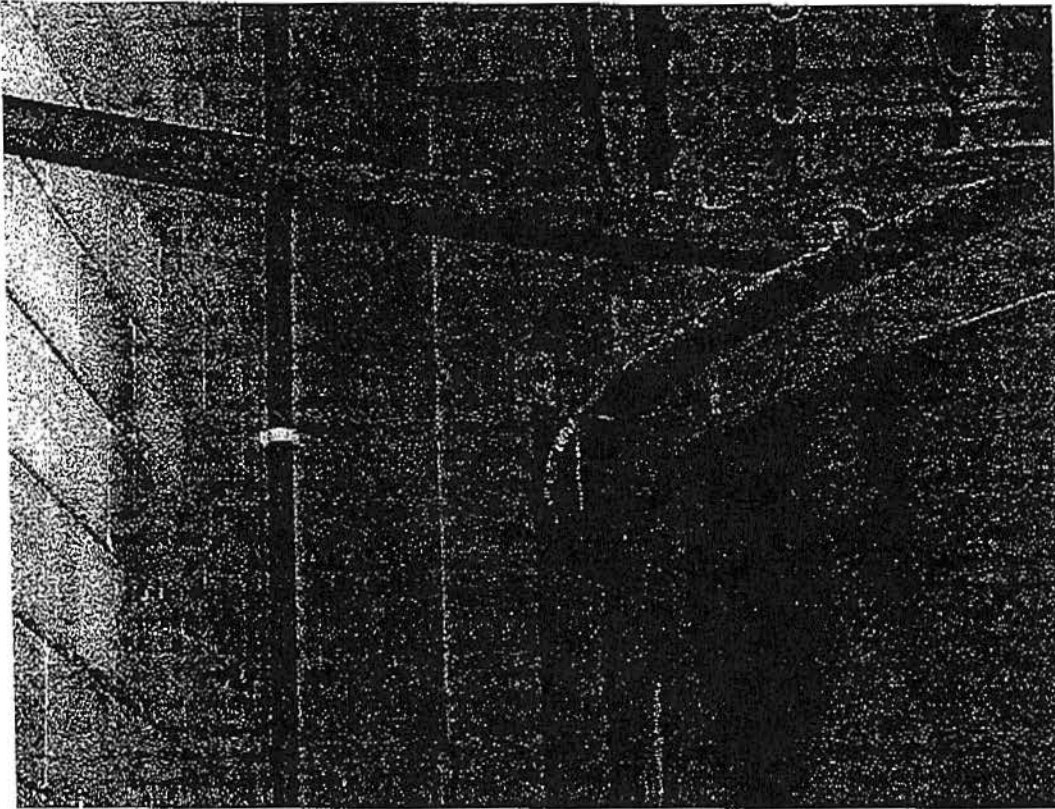
NFPA 30, 1.6.25.1 Inside room. A room totally enclosed within a building and having no exterior wall.

NFPA30, 1.6.25.2 Cutoff room. A room within a building and having at least one exterior wall.

Inside rooms with a floor area of 150 square feet to 500 square feet require a 2 hr. fire resistance rating for interior walls and ceilings. Cut off rooms with a floor area of 300 square feet or greater requires 2 hr. fire resistance rating. Cut off rooms of less than 300 square feet of floor area requires 1 hr. (NFPA 30 Table 4.4.2.1)



Picture 1



Picture 2

Photographs 1 and 2 show the upper portion of this wall is constructed of lightweight metal panels. These panels do not meet the fire resistance rating required for this inside room. The 8-inch cinderblock wall should be continuous to the roof deck.

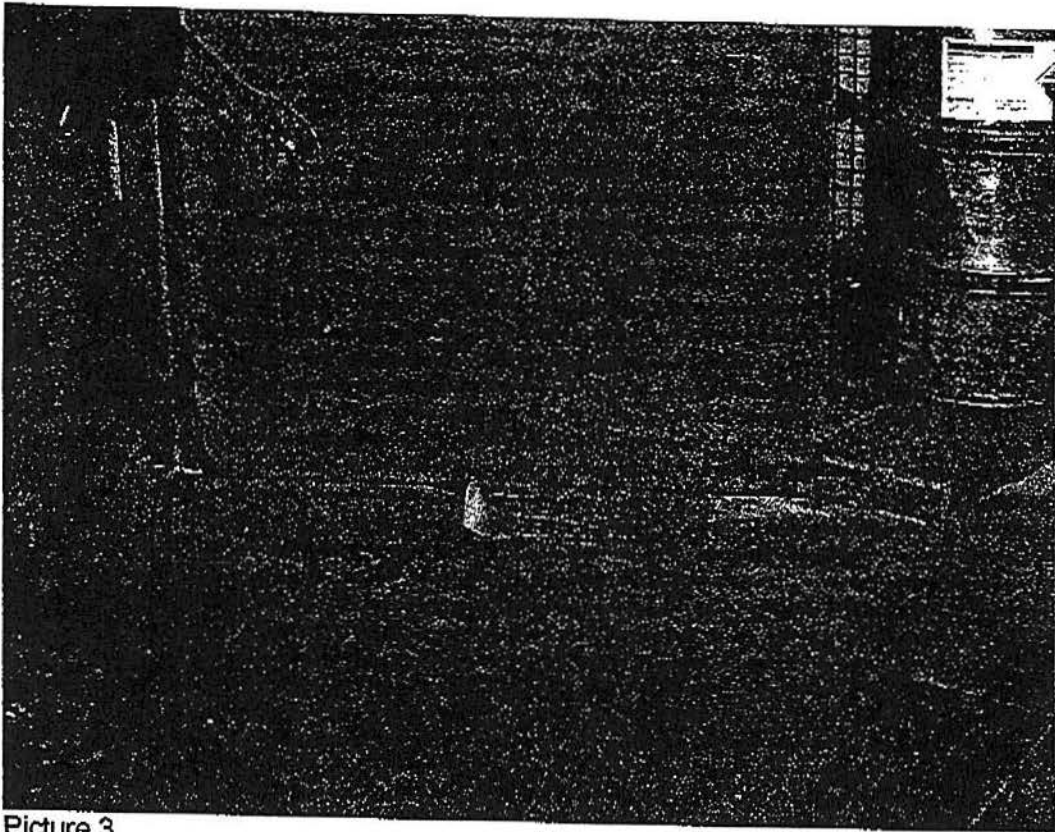
Areas of liquid transfer from one container to another shall be provided with the following.

1. Separation from other operations by the proper fire rated separation requirements (1 or 2 hrs.)
2. Containment, drainage or other means of spill control
3. Natural or mechanical ventilation. (NFPA 30, 5.5.5)

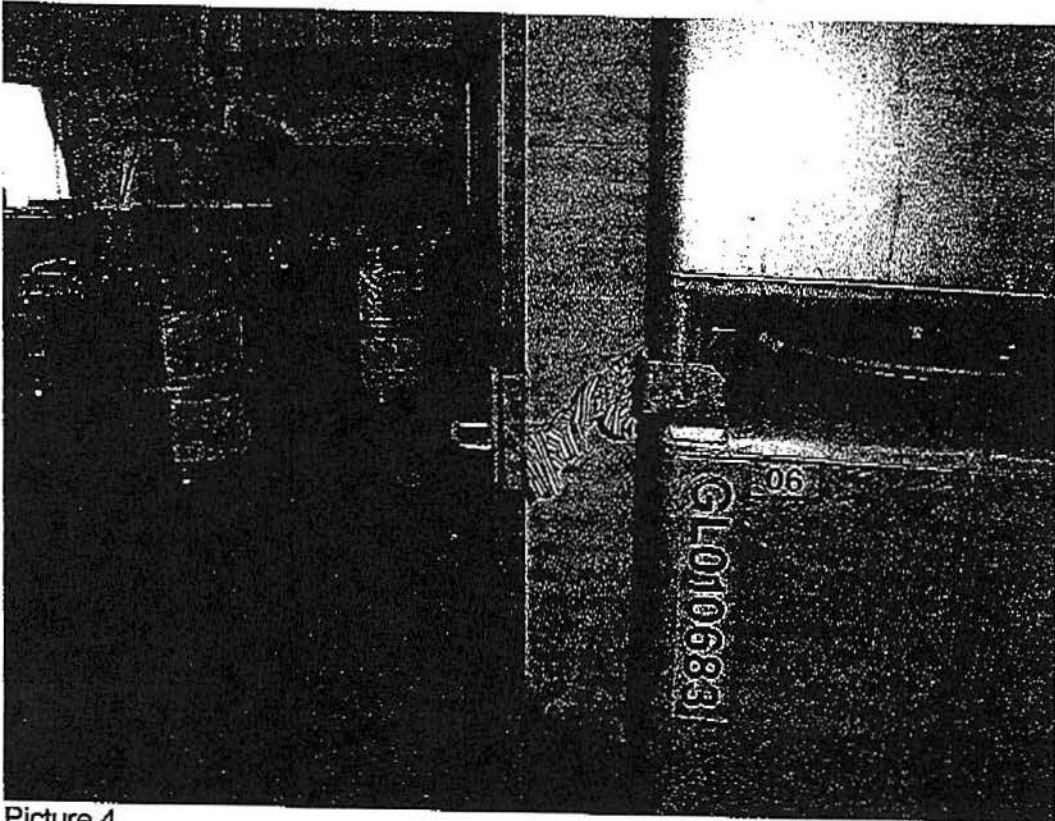
This includes the areas where one-gallon glass containers are filled.

II) Fire Doors

Openings in interior walls to adjacent rooms with fire resistant ratings shall be provided with normally closed, listed fire doors with fire protection ratings corresponding to the fire resistance rating of the walls. Such doors shall be permitted to stay open during material handling operations if the doors are designed to close automatically upon activation of the fire alarm system. (NFPA 30, 4.4.2.2)



Picture 3



Picture 4

The above arraignments shown in pictures 3 and 4 do not meet the code requirements for automatic door closers. One room is a cut off room the other is an inside room.

NFPA 30, Table 4.4.2.2 Fire resistance rating for fire doors.

If the wall resistance requirement is 1 hr. the fire door requirement shall be $\frac{3}{4}$ hr rating. If the wall requirement is 2 hrs. the fire door rating must be a 1 $\frac{1}{2}$ hr. rated door.

The fire separation for the office area is required by local ordinance to be 2 hrs. masonry wall with all doors being 1 $\frac{1}{2}$ hr. rated fire doors. All penetrations in the 2 hr. fire separation must have proper fire caulk or seal to fill the voids

III) Venting requirements

Enclosed processing areas using class I, II or III liquids heated to temperatures at or above their flash point shall be ventilated at a rate sufficient to maintain the concentration of vapors within the area at or below 25% of the lower flammable range. (NFPA30 5.3.4.1)

Ventilation requirements shall be confirmed by sampling or calculations (NFPA 30 5.3.4.2)

Ventilation shall be arranged to include all floor areas where vapor may collect. (NFPA 30, 5.3.4.5)

Exhaust air shall be taken from a point near a wall on one side of the room and within 12 inches of the floor. The location of both the exhaust and inlet air openings shall be arranged to provide air movement across all portions of the room. (NFPA 30, 4.4.2.7.1)

IV) Deflagration venting

Areas where class 1A or unstable liquids were polymerization may occur shall have explosion venting through one or more of the following roof hatches, windows of explosion-venting type or explosion vent panels. (NFPA 30, 5.3.3.7)

V) Means of Egress

The size and arraignment of the exits meet the code requirements provided the exits are not blocked by materials or pallets. On both visits to this facility the Northwest corner exit was blocked. The emergency exit light at the Northwest exit needs to be relocated so it can be seen down the aisle.

Exit lighting throughout the facility are required to remain illuminated for 2 hrs. in the event of a power failure. This is required by local ordinance.

VI) Aisle Storage

Adequate aisles shall be maintained for the unobstructed movement of personnel and fire protection equipment. Accesses to the fire hoses are clear and well maintained. The aisles were blocked in several areas by materials staged for shipment. This practice while temporary defeats this code provision.

Operations:

I) Electrical considerations

Static

All metallic equipment where an ignitable mixture could be present shall be bonded or ground or both. Non-metallic equipment and piping shall be designed to provide safeguards against static electricity. (NFPA30, 5.9.4.) In the area where a drum is being emptied into glass containers (as seen below) the drums need to be grounded. The slow transfer rate is a safeguard against static buildup however this is still a code requirement.

Electrical equipment

Any electrical equipment shall not constitute a source of ignition for flammable vapor that might be present under normal operations or during a spill. (NFPA 30 6.2)

All electrical equipment and wiring shall be of the type specified in accordance with NFPA 70, National Electric Code. (NFPA 30 6.2.1)

NFPA 30 Table 6.2.2 specifies that indoor equipment where flammable vapor-air mixtures can exit under normal operations must have division one wiring for the entire area associated with that equipment. The area within 5 feet of any edge of such equipment, extending in all directions must be Division 1 wiring.

Division 2 wiring must be used between 5 and 8 feet of any edge of such equipment extending in all directions; also, space up to 3 feet above the floor within 5 feet to 25 feet horizontally from any edge of such equipment.

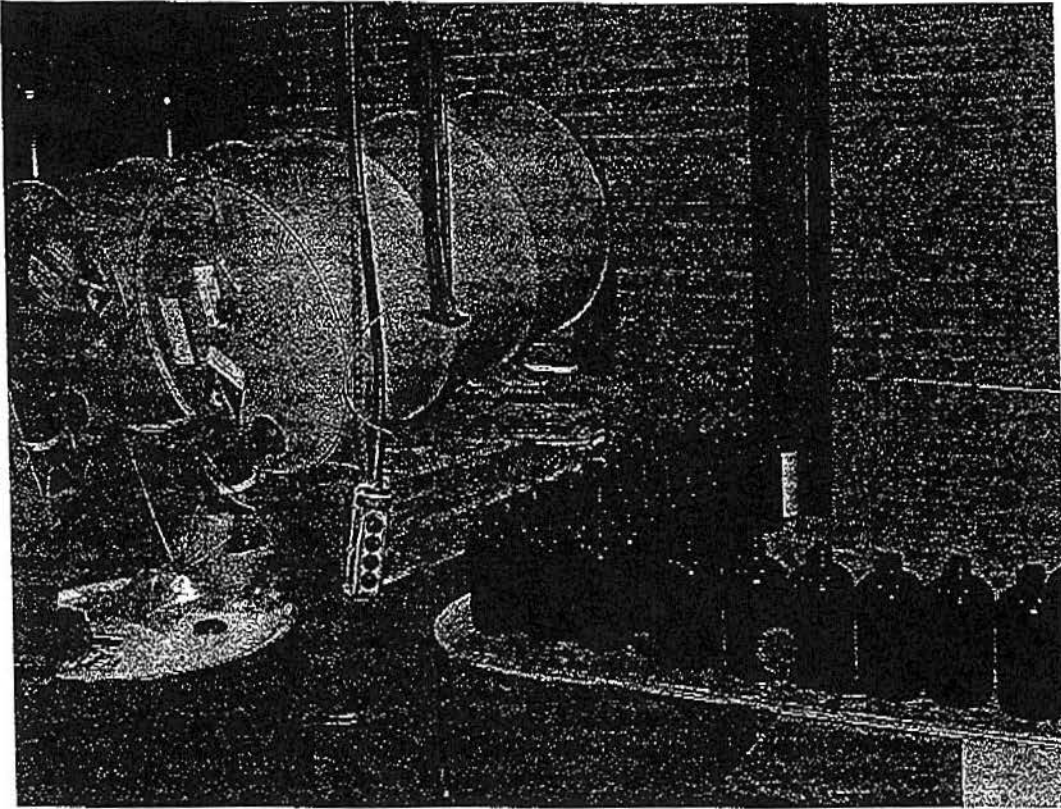
II) Storage Compatibilities

Incompatible materials need to be separated by space and or barriers. Acid and bases fall into this category and any material incompatible as listed on the MSDS sheets. The facility chemists know which materials these are. They need to insure that these materials are kept separate during all phases of production, storage and shipping.

III) Containment practices

Curbs, scuppers, special drains, or other means of containment shall be provided to prevent the flow of liquids under emergency conditions into adjacent building areas. (NPPA 30, 4.4.2.5)

The practice of propping up the drums on wooden wedges to elevate the back of the drum seems to be questionable at best (see below). A more permanent fixture should be fabricated or purchased that would hold the drums more securely.



Picture 5

Picture 5 shows the transferring of Class I, II and III liquids that are at or above their flash point shall be drawn from or transferred into vessels or container by gravity must have a listed self-closing valve or faucet.

IV) Review of the mixing process

The mixing process as described by three separate employees seems to be within code the requirements with some procedural adjustments. Fire doors need to be closed to separate the rooms from other areas of the building. The proper grounding and bounding of the mixing equipment and containers. Monitoring of LEL (Lower Explosive Level) within the mixing room and proper ventilation to limit the build-up of vapors.

Page 7

V) Sprinkler System

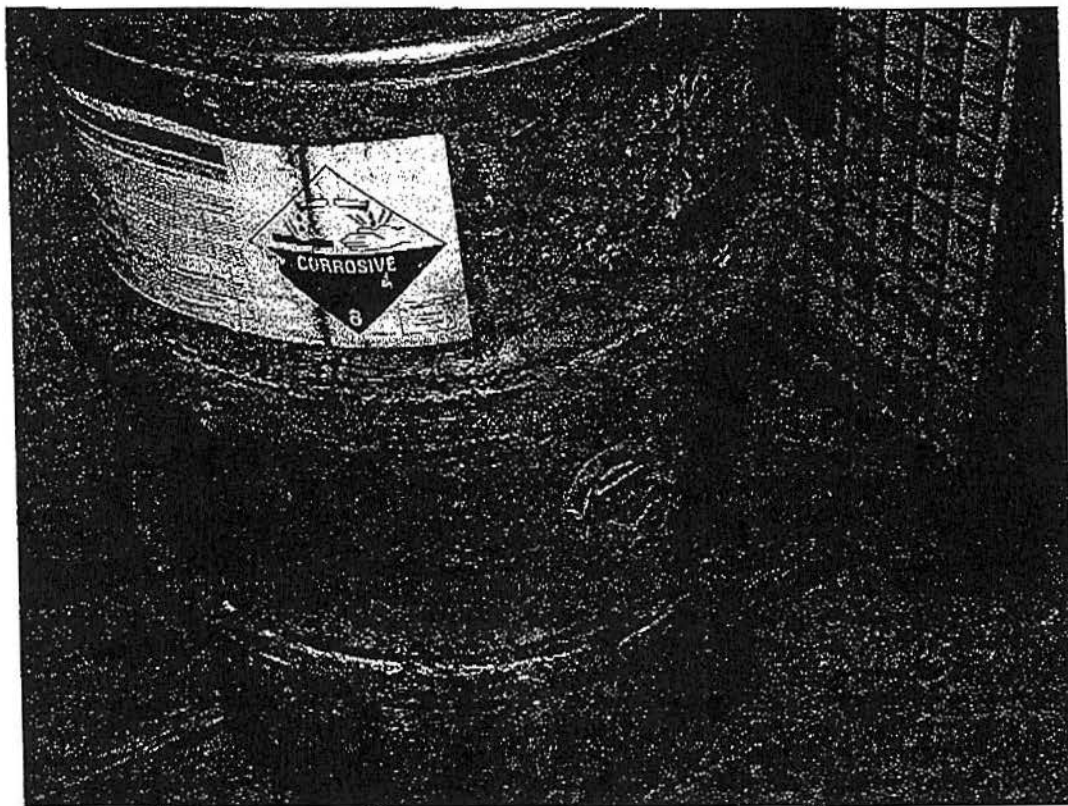
Factors taken into consideration to determine the sprinkler density required is the storage height (16 feet maximum), aisle width (8 feet minimum) and ceiling height to the roof deck (20 feet maximum). Other factors include size and type of containers.

The following requirements noted in this report are this facility by NFPA 30 Table 4.8.2 ©. The overhead sprinkler system density needs to be .30 over 3000 square feet. The remote area can be reduced to 2000 square feet if the foam system is pre-primed. The in-rack sprinklers shall be 9 feet on center staggered vertically using 5.6 K-factor. Quick response sprinklers with shields designed to 30 GPM per sprinkler flowing the most remote 6 sprinkler heads in each of the top 3 levels. If the foam system is pre-primed The most remote 3 sprinklers on the top three levels can be calculated to 30 GPM per sprinkler.

VI) General Comments:

*The existing is Designed to
.30/1500 w/ 2 levels of in Rack
sprinklers w/A UNKNOWN Design.*

1. Containers and materials require a minimum of 36 inches of clearance in all directions from any heaters.
2. All containers need to be kept in good condition with questionable or damaged containers being replaced. Please note in picture 6 the Nitric acid drum below with the bottom-reinforcing band corroded almost completely through.



Picture 6

3. More conspicuous signage for no smoking particularly by truck docks and areas drivers have access to.
4. Provide an emergency evacuation plan for the employees with maps posted to the closest exit.

This report is not all inclusive that is to say the alarm system, sprinkler systems, fire prevention and safety provisions now in place need to be maintained and adhered to. Bensenville Fire officials are the Authority Having Jurisdiction (AHJ) this report in no way diminishes or subjugate their authority. These requirements are based on the city of Bensenville ordinances, NFPA 30, 2000 edition, BOCA 1999 and good fire protection practices.

If you have any questions or comments feel free to contact myself or Adam Klemme.

Cordially,



James Mayer
Fire Protection Consultant

CC: Curt Shires Bensenville Fire Department



VILLAGE OF BENSENVILLE
INSPECTIONAL SERVICES
 12 South Center
 Bensenville, IL 60106
 630-350-3413 fax:630-350-3449

Type of Inspection: CORRECTION NOTICE

CORRECTION NOTICE

Address: 240 FOSTER

Unit:

Business name:: Chemblend

Phone:

Business Owner:

Address:

Inspection Date: 5/22/14

Inspector: TOM KNIGHT

<u>Checklist #</u>	<u>Violation</u>
005A	STORM WATER POLLUTION

<u>Violation comment</u>
Failed to prevent a chemical spill and contaminated storm water sewer. Visually verified spill in storm sewer in loading dock and on east side of building along Thomas Drive.
Pump out storm sewer in loading dock and along Thomas Drive.

005B	CLEAN UP REQUIRED
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Additional Remarks/Comments:

Reinspection 28953 created on 05/22/2014
 by 6523tkni

THOSE ITEMS LISTED ABOVE ARE VIOLATIONS OF BENSENVILLE'S ADOPTED VILLAGE CODE AND/OR PROPERTY MAINTENANCE CODE. THIS IS YOUR WRITTEN "CORRECTION NOTICE". FAILURE TO CORRECT THE ABOVE LISTED VIOLATIONS WITHIN THE PRESCRIBED TIME CAN RESULT IN A FINE OF UP TO \$750 PER VIOLATION, PER DAY.

You are hereby notified to remedy the conditions as stated above within IMMEDIATELY days from the date of this order. Appeal from this order may be made within 20 days from the above date of service. Direct such appeal for a hearing before the Bensenville Board of Appeals in writing through the Director of Inspectional Services, 12 South Center.

Neither this inspection nor any Certificate of Occupancy issued by the Village of Bensenville shall be considered a complete list of Code or Municipal Ordinances. Our inspection can be substantially limited by access available and stored items or furniture. Some occupancies may require inspections to be completed on individual systems such as heating appliances, roofing, structure or fire protection systems. If you have questions about this inspection, please call 630-350-3448.

DISCLAIMER: The Village of Bensenville does not warrant the condition of any property inspected and disclaims all liability for any claims arising out of the property or condition thereof.

Copy of this report received by/mailed to: _____

Inspector: _____

Date: _____