



Exelon Generation®

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RA20-015

10 CFR 50.4

March 20, 2020

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555 - 0001

LaSalle County Station, Units 1 and 2
Renewed Facility Operating License Nos. NPF-11 and NPF-18
NRC Docket Nos. 50-373 and 50-374

Subject: Triennial Chlorine Survey Report

Enclosed is the Exelon Generation Company, LLC, LaSalle County Station (LSCS) Triennial Chlorine Survey Report. The survey is submitted in accordance with the provisions of the April 11, 1986, letter transmitting Amendments 38 and 20 to the LSCS Facility Operating Licenses for Units 1 and 2, respectively.

This letter contains no new regulatory commitments. Should you have any questions concerning this letter, please contact Mr. Daniel Mearhoff, Regulatory Assurance Manager, at (815) 415-2800.

Respectfully,

John J. Washko
Site Vice President
LaSalle County Station

Enclosure: Chlorine Survey in the Vicinity of LaSalle County Generating Station

cc: Regional Administrator - NRC Region III
NRC Senior Resident Inspector - LaSalle County Station

CHLORINE SURVEY IN THE VICINITY OF LASALLE COUNTY GENERATING STATION

1. Executive Summary

A triennial survey of potential sources of chlorine was conducted by LaSalle County Station to ensure compliance with General Design Criteria (GDC) 19 of Appendix A of 10 CFR 50. The survey reevaluates use of chlorine within 5 miles of the plant's Control Room and ensures that a chlorine hazard does not exist. The survey also ensures compliance with Regulatory Guides (RG) 1.78, Revision 0, "Assumptions for Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release," and RG 1.95, Revision 0, "Protection of Nuclear Power Plant Control Room Operators Against an Accidental Chlorine Release".

A database of potential chlorine sources was built based on facilities identified in previous surveys and updated with information from the Grundy and LaSalle County Emergency Services and Disaster Agencies (ESDA). The database was limited to facilities located between the Marseilles and Dresden Island Locks and included facilities within and outside the five-mile radius of LaSalle County Station. A total of fifteen facilities in Grundy and LaSalle Counties fit the criteria and were included in this survey, of which fourteen responded.

Data from five controlling authorities and fourteen facilities was reviewed and follow-up contacts were made to confirm the information gathered. The survey identified five facilities used and stored chlorine onsite. The results of this survey indicate chlorine is used and stored in cylinders that are not larger than 150 lbs. at facilities within five miles of LaSalle Station. Also, no chlorine is transported on the Illinois River.

2. Introduction

Licensing of LaSalle County Station required a survey of industries and transportation routes in the site vicinity that may use, store, and/or transport hazardous chemicals. The original survey, conducted in 1975, revealed anhydrous ammonia and probably chlorine were transported by barge on the Illinois River. The information gathered was not complete enough to conclude that chlorine was not shipped in large quantities by barge on the Illinois River.

A new survey was conducted in January – February 1986 to supplement the information obtained from the 1975 chlorine survey. The information collected by the 1986 survey concluded no special chlorine protection provisions were required at LaSalle County Station. In the safety evaluation supporting Amendment No. 38 to Facility Operating License No. NPF-11 and Amendment No. 20 to Facility Operating License No. NPF-18, the U.S. Nuclear Regulatory Commission (NRC) agreed with this conclusion, but recommended a three-year update for the Illinois River chlorine survey. Exelon Corporation committed to the survey update in a letter to the NRC dated March 5, 1986. Surveys have been conducted on a 3-year frequency supporting the conclusion that chlorine is not shipped on the Illinois River in sufficient quantities to present a hazard to the LaSalle County Station Control Room. In accordance with this commitment, a new survey has been conducted.

The following sections describe regulatory guides that form the basis of the Control Room habitability evaluation, results of previous surveys, the methods and results of current survey, and the conclusion regarding chlorine as a hazard. The results of the current survey and previous surveys fully support the 1986 conclusion that no special chlorine protection measures are required at LaSalle County Station.

3. Regulatory Guides

Regulatory Guide 1.78, Revision 0, “Assumption for Evaluating the Habitability of a Nuclear Power Plant Control Room during a Postulated Hazardous Chemical Release” identifies chlorine as a hazardous chemical that requires a control room habitability analysis in the event of an accidental chlorine release from stationary or mobile sources near the station. Regulatory Guide 1.95, Revision 0, specifically addresses onsite accidental chlorine release. However, it can also be used in analyzing effects of an offsite chlorine release.

Regulatory Position 1 of Regulatory Guide 1.78, states chlorine stored or situated at greater distances than five miles from the control room need not be considered in evaluating habitability of the nuclear power plant control room during a postulated chlorine release. Regulatory Guide 1.78 also specifies frequency, distance, and quantity of chemicals transported or stored with respect to the Control Room that require Control Room habitability analysis. The Regulatory Guide specifies three modes of transportation that must be considered for chlorine manufactured, stored or used by industries in the vicinity of the control room: railroads, highways, and waterways.

4. Earlier Surveys of Chlorine Shipment

The LaSalle County Final Safety Analysis Report (FSAR) Section 2.1.1 describes the location of the plant and transportation routes near the plant. FSAR Section 2.2.2 describes nearby industrial, transportation, and military facilities. All industrial facilities are located outside of a five-mile radius of the plant, therefore, chlorine used or stored at these facilities need not be considered in evaluating control room habitability. A survey of these industries was conducted in 1975 to determine the shipment of chlorine by three

modes of transportation, U.S. Highway 6 and State Highway 47, the nearest highways to the station used by these industries and the Chicago Rock Island and Pacific, the nearest railroad, are all located farther than five miles from the station. Therefore, transportation of chlorine by these two modes of transportation need not be considered in the control room habitability analysis.

FSAR Section 2.2.2.4 describes river traffic on the Illinois River passing the site. Section 2.2.3.1.c concluded the only transportation route potentially carrying chlorine within five miles of the station was the Illinois River, which is located approximately 4.7 miles north of the station. However, the available data on commodities transported on the Illinois River (FSAR Table 2.204) did not differentiate barge shipments of chlorine from other chemicals. The survey found a small quantity of chlorine was used by the Illinois Nitrogen Corporation, located at river mile 248.7, approximately five miles north of the station. There was not sufficient information available to determine if it was receiving chlorine supply by barge. In order to expedite the licensing process, chlorine detectors were provided in the Control Room HVAC system intake air ducts.

To supplement the 1975 survey and to obtain additional specific information on chlorine shipments, a survey was conducted during January-February 1986 to determine whether chlorine was transported in barges on the Illinois River.

Information was collected from the U.S. Army Corps of Engineers, the U.S. Coast Guard, and Lockmasters for Starved Rock and Dresden Dams. None of the sources had information suggesting chlorine is transported on the Illinois River. Because none of the barge operators, barge terminals, or chemical companies reported chlorine shipments on the Illinois River and neither of the lockmasters was aware of any chlorine passing through their locks, it was concluded that chlorine was not shipped on the river in significant quantities.

5. Current Survey of Chlorine Shipments

The criteria used for the current survey limited sites of interest to those located between Marseilles and Dresden Island Locks and included facilities within and outside of the five-mile radius of LaSalle County Station. Previous surveys were reviewed and updated from reports from Grundy and LaSalle County Emergency Services and Disaster Agencies (ESDAs).

Table 1 shows results of the fourteen barge terminals, chemical companies, water treatment plants, and potential chlorine users that responded to the survey. None of the barge terminals located between the closest upstream and downstream dams handles chlorine. None of the chemical companies, water treatment plants or other potential chlorine users sends or receives chlorine on the Illinois River. Five facilities were identified using small quantities of chlorine. Two of these sites are located within five miles of LaSalle County Station. All five facilities stated their chlorine is transported and stored in 150- lb. cylinders via highway. CSX Railroad currently operates the closest

regularly traveled railroad to LaSalle Station. The railroad is located outside the five-mile radius of LaSalle Station.

Table 2 shows the results of five government agencies, public officials, and trade organizations contacted for the survey. The Chlorine Institute reported no chlorine is transported on the Illinois River, and has no knowledge of any chlorine producer or distributor located on the river. The United States Coast Guard stated that any company transporting chlorine on a barge is required to notify them and that they have not received such notification for the Illinois River.

In addition, the LaSalle County Station HAZMAT Coordinator reported no chlorine was used or stored on-site in single 150-lb. cylinders.

6. Conclusion of Findings

The current survey concludes chlorine is not transported in any significant quantities on the Illinois River nor within a five-mile radius of LaSalle County Station. Small quantities of chlorine are used and stored in 150-lb. cylinders at five sites. Two of the five sites identified are within the five-mile radius of LaSalle Station. Regulatory Guide 1.95 C.3 states that only single container quantities exceeding 150-lb. need to be considered for Control Room ventilation requiring automatic chlorine protection features. Therefore, the survey concludes that chlorine detectors are not required for LaSalle County Station.

Table 1. Barge Terminals, Chemical Companies, Water Treatment Plants, and Other Potential Chlorine Users in Towns on the Illinois River in the Vicinity of LaSalle Station

Company	County	Address	Phone	Distance to LaSalle Station	Chlorine Identified?
Cargill Inc.	LaSalle	S. Main Street Seneca POC: Janelle Beck	(815) 357-8760	<5 miles	None
Agrium US Inc.	LaSalle	2100 E. Broadway Marseilles POC: Beth Cosby	(815) 795-4151	>5 miles	None
Morris Sewage Treatment Plant	Grundy	N. River Road Morris POC: Brent Pierce	(815) 942-0643	>5 miles	Yes 12 x 150 lb. cylinders 2 x 1-ton cylinders
HB Fuller	Grundy	DuPont Road Seneca POC: Dan Deacon	(815) 357-8215	>5 miles	None
Growmark	LaSalle	P.O. Box 380 Seneca POC: Jerry Anderson	(815) 357-6721	<5 miles	None
Marseilles Wastewater Treatment Facility	LaSalle	#2 Spicer Lane Marseilles POC: Jason Rix	(815) 795-2150	>5 miles and < 5 miles	Yes, 150 lb. Cyl. 1 stored inside 5-mile radius 6-8 stored outside 5- mile radius
Village of Seneca Wastewater Treatment Facility	LaSalle	301 W. Union Seneca POC: Jim Applebee	(815) 326-0840	> 5 miles	Yes 10 x 150 lb. cylinders 2 x 1-ton liquid chlorine
ADM/Growmark	LaSalle	Towpath Road Ottawa POC: Becca Serena	(815) 433-3636	>5 miles	None
CF Industries, Inc.	Grundy	737 E. DuPont Road Seneca POC: Ryan Caba	(815) 357-8811	>5 miles	None

Dyno Nobel	Grundy	7700 DuPont Road Morris POC: Rich Pugh	(815) 942-5800	>5 miles	None
Sabic Innovative Plastics	LaSalle	2148 N 2753rd Rd Ottawa, IL POC: Dave Parrot	(815) 434-7000 ext. 7621	> 5 miles	Yes 8 x 150 lb. cylinders
Marseilles Streets Dept. (Various well houses)	LaSalle	Well House #4 Well House #5 Well House #6 POC: Paul Rivett	815-795-4000	#4 > 5 miles #5 > 5 miles #6 < 5 miles	Yes 5 x 150 lb. cylinders 4 x 150 lb. cylinders 2 x 150 lb. cylinders
Air Products and Manufacturing	Grundy	8805 Tabler Rd Morris POC: Kurt Serrine	815-223-2924	> 5 miles	None
Miller and Company	Grundy	444 Shipyard Road Seneca POC: Jessica Paulsen	815-357-1400 Ext. 2725	<5 miles	None

Table 2. Government Agencies, Public Officials and Trade Organizations

Organization	Information that Chlorine is Transported on the Illinois River
Chlorine Institute, Rosslyn, VA	None
Lockmaster, Marseilles, Illinois	None
Emergency Services and Disaster Agency of LaSalle County, Ottawa, IL	None
Emergency Services and Disaster Agency of Grundy County, Morris, IL	None
U.S. Coast Guard, Chicago, IL.	None

7. References

Chlorine Institute, Rosslyn, VA, Ms. Robin Kinsley, Email correspondence with Exelon Corporation on 3/6/20, (703) 894-4140, robyn.kinsley@cl2.com

Lockmaster, Marseilles Lock and Dam, Marseilles, Illinois, (815) 795-2593, Mr. Clifford Wright, Telephone conversation with Exelon Corporation on 3/4/20.

Grundy County Emergency Services and Disaster Agency, (815) 941-3200, Mr. Joe Schroeder, Voice mail conversation with Exelon Corporation on 3/9/20.

LaSalle County Emergency Services and Disaster Agency, (815) 433-5622, Mr. Fred Moore, Telephone conversation with Exelon Corporation on 3/4/20.

Cargill Inc., Seneca, Illinois, (815) 357-8760, Ms. Janelle Beck, Telephone conversation with Exelon Corporation on 3/4/20.

Agrium US Inc, Marseilles, Illinois, (815) 795-4151, Ms. Beth Cosby, Telephone conversation with Exelon Corporation on 3/4/20.

Morris Sewage Treatment Plant, Morris, Illinois, (815) 942-0643, Mr. Brent Pierce, Telephone conversation with Exelon Corporation on 3/6/20.

HB Fuller, Seneca, Illinois, (815) 357-8215, Mr. Dan Deacon, Telephone conversation with Exelon Corporation on 3/4/20.

Growmark, Seneca, Illinois, (815) 357-6721, Mr. Jerry Anderson, Telephone conversation with Exelon Corporation on 3/4/20.

Wastewater Treatment Facility, Marseilles, Illinois, (815) 795-2150, Mr. Jason Rix, Telephone conversation with Exelon Corporation on 3/4/20.

Village of Seneca Wastewater Treatment Facility, Seneca, Illinois, (815) 326-0840, Mr. Jim Applebee, Telephone conversation with Exelon Corporation on 3/4/20.

ADM/Growmark, Ottawa, Illinois, (815) 433-3636, Ms. Becca Serena, Telephone conversation with Exelon Corporation on 3/4/20.

CF Industries, Inc., Seneca, Illinois, (815) 357-8811, Mr. Ryan Caba, Telephone conversation with Exelon Corporation on 3/4/20.

Dyno Nobel, Morris, Illinois, (815) 942-5800, Mr. Rich Pugh Telephone conversation with Exelon Corporation on 3/4/20.

US Coast Guard, Chicago, Illinois, (630) 986-2147, Petty Officer Zachary Strack, Telephone conversation with Exelon Corporation on 3/4/20.

Sabic Innovative Plastics, Ottawa, Illinois, (815) 434-7000 ext. 7621, Mr. Dave Parrott, Voice mail exchange with Exelon Corporation on 3/6/20.

Air Products and Manufacturing Corp, Morris, Illinois, (815) 223-2924, Mr. Kurt Serrine, Telephone conversation with Exelon Corporation on 3/6/20.

Marseilles Streets Department, Marseilles, Illinois (815) 795-4000, Mr. Paul Rivett, Telephone conversation with Exelon Corporation on 3/6/20.

Miller and Company, Seneca, Illinois (815) 357-1400 ext. 2725, Ms. Jessica Paulsen, Telephone conversation with Exelon Corporation on 3/10/20.

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted **Air Products and Manufacturing, Morris, IL**

Point of Contact **Kurt Serrine**

Telephone Number **(815) 223-2924** Date Contacted **3/6/20**

Distance from LCGS **X**
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u> </u>	<u>X</u>
Used	<u> </u>	<u>X</u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u> </u>	<u>X</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored **N/A**

Size of Container Chlorine **N/A**
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported **N/A**

Note: N/A may be entered in the inapplicable portions of this form.

Survey Conducted by **James J. DiCola**

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Cargill, Inc

Point of Contact Janelle Beck, Supervisor

Telephone Number (815) 357-8760 Date Contacted 3/4/20

Distance from LCGS X
 Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	_____	<u> X </u>
Used	_____	<u> X </u>
Manufactured	_____	<u> X </u>
Transported	_____	<u> X </u>

Mode of transportation	Rail Road	<u> N/A </u>
	Highway	<u> N/A </u>
	Waterway	<u> N/A </u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

No chlorine is stored, used or handled.

Survey Conducted by James J. DiCola

**Level of Use
Reference**

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Agrium

Point of Contact Beth Cosby

Telephone Number (815) 795-4151 Date Contacted 3/4/20

Distance from LCGS X
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u> </u>	<u>X</u>
Used	<u> </u>	<u>X</u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u> </u>	<u>X</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

No chlorine is stored, used or handled.

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted **Morris Sewage Treatment Plant**

Point of Contact **Brent Pierce**

Telephone Number **(815) 942-0643** Date Contacted **3/6/20**

Distance from LCGS **X**
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u>X</u>	<u> </u>
Used	<u>X</u>	<u> </u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u> </u>	<u>X</u>

Mode of transportation Rail Road
Highway **X**
Waterway

Quantity stored **Fourteen (14) cylinders**

Size of Container Chlorine **Twelve 150 lbs cylinders and two 1 ton cylinders**
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported **N/A**

Note: N/A may be entered in the inapplicable portions of this form.

Transported from Willow Springs, IL or potentially from Hawkins Chemical in Bourbonnais

(IR not required since facility is outside the 5 mile radius.)

Survey Conducted by **James J. DiCola**

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted HB Fuller

Point of Contact Dan Deacon – Plant Manager

Telephone Number (815) 357-8215 Date Contacted 3/4/20

Distance from LCGS Less than 5 Miles X
Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u> </u>	<u>X</u>
Used	<u> </u>	<u>X</u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u> </u>	<u>X</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

No chlorine is stored, used or handled.

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Growmark

Point of Contact Jerry Anderson Plant Manager

Telephone Number (815) 357-6721 Date Contacted 3/4/20

Distance from LCGS X
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u> </u>	<u>X</u>
Used	<u> </u>	<u>X</u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u> </u>	<u>X</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

No chlorine is stored, used or handled.

Survey Conducted by James J. DiCola

Level of Use Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Marseilles Wastewater Treatment Facility

Point of Contact Jason Rix

Telephone Number (815) 795-2150 Date Contacted 3/4/20

Distance from LCGS X (South) X (North)
Less than 5 Miles Greater than 5 Miles

Chlorine Use Yes No

Stored	<u>X</u>	<u> </u>
Used	<u>X</u>	<u> </u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u> </u>	<u>X</u>

Mode of transportation Rail Road
 Highway X
 Waterway

Quantity stored North Facility – six to eight (6-8) cylinders ;
South Facility – one (1) cylinder

Size of Container Chlorine 150 lbs.
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

Seasonal usage during the months of May – October but stored year around.

North Facility – No. 2 Spicer Road Marseilles, IL

South Facility (Lagoon) – 2425th Road Marseilles, IL

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Seneca Wastewater Treatment Facility

Point of Contact Jim Applebee

Telephone Number (815) 326-0840 Date Contacted 3/4/20

Distance from LCGS X
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u>X</u>	<u> </u>
Used	<u>X</u>	<u> </u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u>X</u>	<u>X</u>

Mode of transportation Rail Road
Highway X
Waterway

Quantity stored ten cylinders

Size of Container Chlorine 150 lbs.
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

Transported about 1 mile from water plant to the Waste Water Treatment Facility (WWTF)

Added the following Chlorine Storage at Excess Flow Facility:
One ton liquid chlorine (98%) in use
One ton liquid chlorine (98%) standby

(IR not required since facility is outside the 5 mile radius.)

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted ADM / Growmark

Point of Contact Becca Serena

Telephone Number (815) 433-3636 Date Contacted 3/4/20

Distance from LCGS X
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u> </u>	<u>X</u>
Used	<u> </u>	<u>X</u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u> </u>	<u>X</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

No chlorine is stored, used or handled.

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted CF Industries

Point of Contact Ryan Caba

Telephone Number (815) 357-8811 Date Contacted 3/4/20

Distance from LCGS
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u> </u>	<u> X </u>
Used	<u> </u>	<u> X </u>
Manufactured	<u> </u>	<u> X </u>
Transported	<u> </u>	<u> X </u>

Mode of transportation	Rail Road	<u> N/A </u>
	Highway	<u> N/A </u>
	Waterway	<u> N/A </u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

No chlorine is stored, used or handled.

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Dyno Nobel

Point of Contact Rich Pugh

Telephone Number (815) 942-5800 Date Contacted 3/4/20

Distance from LCGS X
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u> </u>	<u>X</u>
Used	<u> </u>	<u>X</u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u> </u>	<u>X</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

No chlorine is stored, used or handled.

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Sabic Innovative Plastics

Point of Contact Dave Parrott

Telephone Number (815) 434-7000 x7621 Date Contacted 3/6/20

Distance from LCGS X
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u>X</u>	<u> </u>
Used	<u>X</u>	<u> </u>
Manufactured	<u> </u>	<u>X</u>
Transported	<u> </u>	<u>X</u>

Mode of transportation Rail Road
Highway X
Waterway

Quantity stored Eight cylinders

Size of Container Chlorine 150 lbs.
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

Transported via Rockford area

Survey Conducted by James J. DiCola

Level of Use
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ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Marseilles Streets Dept. - Various Marseilles Well houses

Point of Contact Paul Rivett

Telephone Number (815) 795-4000 Date Contacted 3/6/20

Distance from LCGS X X
 Less than 5 Miles Greater than 5 Miles

Chlorine Use		Yes	No
	Stored	<u> X </u>	<u> </u>
	Used	<u> X </u>	<u> </u>
	Manufactured	<u> </u>	<u> X </u>
	Transported	<u> </u>	<u> X </u>

Mode of transportation Rail Road
 Highway X
 Waterway

Quantity stored See below

Size of Container Chlorine 150 lbs.
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

Well house #4 – 5 x 150 lb cylinders located > 5 miles

Well house #5 – 4 x 150 lb cylinders located > 5miles

Well house #6 – 2 x 150 lb cylinders located < 5 miles

Survey Conducted by James J. DiCola

<p align="center">Level of Use Reference</p>
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ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Miller & Company

Point of Contact Jessica Paulsen

Telephone Number (815) 357-1400, ext 2725 Date Contacted 3/10/20

Distance from LCGS X
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u>N/A</u>	<u>N/A</u>
Used	<u>N/A</u>	<u>N/A</u>
Manufactured	<u>N/A</u>	<u>N/A</u>
Transported	<u>N/A</u>	<u>N/A</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.
They said no chlorine is used or stored onsite.

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Chlorine Institute (Table 2)

Point of Contact Robin Kinsley (email: robyn.kinsley@cl2.com)

Telephone Number (703) 894-4140x. 4123 Date Contacted 3/6/20

Distance from LCGS N/A N/A
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u>N/A</u>	<u>N/A</u>
Used	<u>N/A</u>	<u>N/A</u>
Manufactured	<u>N/A</u>	<u>N/A</u>
Transported	<u>N/A</u>	<u>N/A</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

Email Correspondence from Robyn Kinsley: I can tell you that there are zero chlorine production facilities within 5 miles of your facility. There also are zero packaging facilities within 5 miles – the closest are in Willow Springs and Lemont, both over 60 miles out I believe.

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Marseilles Lock and Dam (Table 2)

Point of Contact Clifford Wright, Lockmaster

Telephone Number (815) 795-2593 Date Contacted 3/4/20

Distance from LCGS Less than 5 Miles X (Dam location)
Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u>N/A</u>	<u>N/A</u>
Used	<u>N/A</u>	<u>N/A</u>
Manufactured	<u>N/A</u>	<u>N/A</u>
Transported	<u>N/A</u>	<u>N/A</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

They checked their database and chlorine is not identified as a shipment.

Survey Conducted by James J. DiCola

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted LaSalle County Emergency Services and Disaster Agency
(ESDA) (Table 2)

Point of Contact Fred Moore

Telephone Number (815) 433-5622 Date Contacted 3/4/20

Distance from LCGS N/A N/A
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u>N/A</u>	<u>N/A</u>
Used	<u>N/A</u>	<u>N/A</u>
Manufactured	<u>N/A</u>	<u>N/A</u>
Transported	<u>N/A</u>	<u>N/A</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

They said no new businesses handle chlorine in LaSalle County other than Sabic. They do not receive any information on transportation.

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted Grundy County Emergency Services and Disaster Agency (ESDA) (Table 2)

Point of Contact Joe Schroeder

Telephone Number (815) 941-3200 Date Contacted 3/9/20

Distance from LCGS N/A N/A
Less than 5 Miles Greater than 5 Miles

Chlorine Use Yes No

Stored	<u>N/A</u>	<u>N/A</u>
Used	<u>N/A</u>	<u>N/A</u>
Manufactured	<u>N/A</u>	<u>N/A</u>
Transported	<u>N/A</u>	<u>N/A</u>

Mode of transportation Rail Road N/A
Highway N/A
Waterway N/A

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

They only receive information related to Tier 2 surveys which deal with on-site storage. They do not receive any info on transportation. Mr. Schroeder explained that there is no chlorine used or stored within a five mile radius of the station.

Survey Conducted by James J. DiCola

Level of Use
Reference

ATTACHMENT A

LASALLE COUNTY STATION CHLORINE SURVEY

2020

Year

Organization Contacted US Coast Guard (Table 2)

Point of Contact Petty Officer Zachary Strack

Telephone Number (630) 986-2147 Date Contacted 3/4/20

Distance from LCGS N/A N/A
Less than 5 Miles Greater than 5 Miles

Chlorine Use	Yes	No
Stored	<u>N/A</u>	<u>N/A</u>
Used	<u>N/A</u>	<u>N/A</u>
Manufactured	<u>N/A</u>	<u>N/A</u>
Transported	<u>N/A</u>	<u>N/A</u>

Mode of transportation	Rail Road	<u>N/A</u>
	Highway	<u>N/A</u>
	Waterway	<u>N/A</u>

Quantity stored N/A

Size of Container Chlorine N/A
Stored in 150 lbs. Max. per RG 1.95

Quantity Transported N/A

Note: N/A may be entered in the inapplicable portions of this form.

Individual was unaware of any large quantities of chlorine shipped on the Illinois River. They would only track these if it were a bulk transfer to a barge. Individual quantities of chlorine in #150 cylinders or less may not be individually declared.

Survey Conducted by James J. DiCola

Level of Use Reference
