



Armor Shield®

November 09, 2020

Lucky Mart
203 N Main Street
North Liberty, IN 46554

Attn: Raj Singh
LSS Real Estate Inc.

Armor Shield performed an internal tank lining 5-year compliance inspection on two 8K Regular gasoline underground storage tanks to include using inspection and non-destructive ultrasonic tank average metal thickness testing methods described in NLPA-631 and API-1631 Standards.

Tanks two tanks inspected passed the standards for internal tank lining recertification. No further lining inspections are required by the standards until November 09, 2025.

Please feel free to call with any questions or concerns.

Thank You

Steve Witham
NLPA -SNT-TC-1A KY-0055-09-1CV



Armor Shield KY • 850 Charlotte Drive • Alexandria KY 41001 • Office 859-635-1568 • Cell 859-743-7187

INTERIOR LINING INSPECTION FORM



Armor Shield KY

850 Charlotte Dr Alexandria, KY 41001
Office (859)635-1568 Cell (859)743-7187

UST Facility Information		Interior Lining Inspector Information			
UST Facility Contact: <u>RAJ SINGH</u>		Person Conducting Test: <u>Jeremy Simpson</u>			
UST Facility Name: <u>LUCKY MART</u>		Name of Company: <u>ARMOR SHIELD</u>			
Address: <u>203 N MAIN ST</u>		Address: <u>850 CHARLOTTE DR</u>			
City, County, Zip Code: <u>NORTH LIBERTY, IN 46554</u>		City, State, Zip Code: <u>ALEXANDRIA KY 41001</u>			
UST I.D.# and/or AI #:		Phone Number: <u>859-816-1235</u>			
Owner or Operator Information		General Information			
Owner or Operator: <u>LSS REAL ESTATE INC</u>		Date of Inspection: <u>11-09-2020</u>			
Address: <u>P.O. Box 528</u>		Code of Practice used:			
		☒ NLPA Standard 631 ☐ API 1631 (Current Edition) ☐ Video Camera (3 rd Party Approved)			
City, State, Zip Code: <u>NORTH LIBERTY, IN 46554</u>		Date Lining Installed:			
Phone Number:		Date Lining Last Inspected:			
Answer each question as specified. If there are more than 4 tanks at this site, photocopy pages and complete for additional tanks.		Tank No.	Tank No.	Tank No.	Tank No.
Tank capacity in gallons?		#1	#2		
Substance stored? G-gasoline, D-diesel, K-kerosene, E-ethanol >85%, B-biodiesel, O-other(specify)		8000	8000		
		REGULAR	REGULAR		
TANK CLEANING PRIOR TO INSPECTION					
Interior of tank was cleaned as required for the use of ultrasonic thickness gauging equipment?		(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Estimate of the volume of sludge removed in gallons?		-	-		
Attach invoice or receipt for removal and disposal.					
VISUAL INSPECTION OF LINING					
Evidence of peeling, of internal lining?		(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Evidence of blistering of internal lining?		(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Evidence of surface wrinkling of internal lining?		(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Evidence of roughing of internal lining?		(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Imperfections in lining repaired in accordance with lining material manufacturer's specifications?		(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Attach documentation on repairs made.		N/A	N/A		
For each tank, provide description, location and extent of any evidence of peeling, blistering, roughing and wrinkling of internal lining:					
Tank No.					
Tank No.					
Tank No.					
Tank No.					

UST Facility Name: LOCKY MART Job 1134 UST Facility I. D. Number: 11/9/2020

TESTING OF LINING				
Test procedure used to determine lining thickness? <u>MIL GAUGE</u>				
Number of lining thickness readings taken?	<u>88</u>	<u>88</u>		
Lining minimum thickness is 100 mils and nominal thickness is 125 mils?	(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Inadequate thickness repaired in accordance with lining material manufacturer and tank re-tested with no inadequate thickness detected?	(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
	(N/A)	(N/A)	(N/A)	(N/A)
Test procedure used to determine lining holidays? <u>TINKER RISKER HD</u>				
Entire surface tested for holidays?	(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Presence of holidays detected?	(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Holidays repaired in accordance with lining material manufacturer and tank re-tested with no holidays detected?	(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
	(N/A)	(N/A)	(N/A)	(N/A)
Test procedure used to determine lining hardness? <u>BARCHOL DOROMETER</u>				
Number of hardness readings taken?	<u>88</u>	<u>88</u>		
Minimum lining hardness?	<u>70</u>	<u>71</u>		
Lining hardness meets manufacturer's specifications?	(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Inadequate hardness repaired in accordance with lining material manufacturer and tank re-tested with no inadequate hardness detected?	(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
	(N/A)	(N/A)	(N/A)	(N/A)

TANK METAL THICKNESS TEST RESULTS AND TANK REPAIR				
Any holes or perforations found in tank?	(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Original tank metal thickness?	<u>.240</u>	<u>.240</u>		
Average tank metal thickness for entire tank before repair?	<u>.237</u>	<u>.236</u>		
Were any thin wall areas repaired and re-lined?	(YES)(NO)	(YES)(NO)	(YES)(NO)	(YES)(NO)
Percentage of original tank metal thickness after repair?	<u>98%</u>	<u>98%</u>		

RESULTS OF INTERIOR LINING INSPECTION	
☐	Tank has perforations and/or holes that cannot be repaired in accordance with the selected Code of Practice; <u>TANK MUST BE PERMANENTLY CLOSED.</u>
☐	After allowable repairs, average metal thickness is less than 75 percent of original tank metal thickness; <u>TANK MUST BE PERMANENTLY CLOSED.</u>
☐	After allowable repairs, average tank metal thickness is 75 to 84 percent of original tank metal thickness; <u>CATHODIC PROTECTION IS REQUIRED WITHIN ONE YEAR OF THIS INSPECTION.</u>
☒	After allowable repairs, average tank metal thickness is 85 to 100 percent of original tank metal thickness; <u>RE-INSPECT LINING WITHIN 5 YEARS.</u>

NEXT INTERIOR LINING INSPECTION REQUIRED	
Month: <u>NOVEMBER</u> Day: <u>09</u> Year: <u>2025</u>	
Inspections must be performed every five years after the initial 10-year inspection until DECEMBER 22, 2013,	

CERTIFICATION	
I certify under penalty of law that the internal inspection was performed in accordance with the appropriate standard and information in that and all attached documents is true, accurate and complete.	
Signature of Certified Internal Lining Inspector	Date <u>11/9/2020</u>

Signature of Owner/Operator <u>XG Sanchez SM</u>	Date <u>12/21/20</u>
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Detailed Description

Lucky MART

11/9/20

The 100 TANK INSPECTION PASSED

NCPA-631 STANDARD MATS THE

MANUFACTURES DASHED SPECIFICATIONS

Site Plan

#4

Prem

#3

MID

#6

Diesel

#5

KIP

STATION

#1

8000

REGULAR

#2

8000

REGULAR

PUMP ISLAND

REFRIGERATOR

SUBTOTALS

144" DIAMETER
(12 FOOT)

120" DIAMETER
(10 FOOT)

96" DIAMETER
(8 FOOT)

ENDCAP #1

READINGS RECORDED
COUNTER-CLOCKWISE
WHILE FACING
END CAP #1 -

1920 - 2-10

PRINT
AVERAGE
IN BOX
BELOW

237 miles

6 O'clock	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42
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THE WALL TARGET AREAS

CHECK BOX
IF NONE

AVERAGE

AVFRAG

AVERAGE

5218	67
TOTAL	

#1

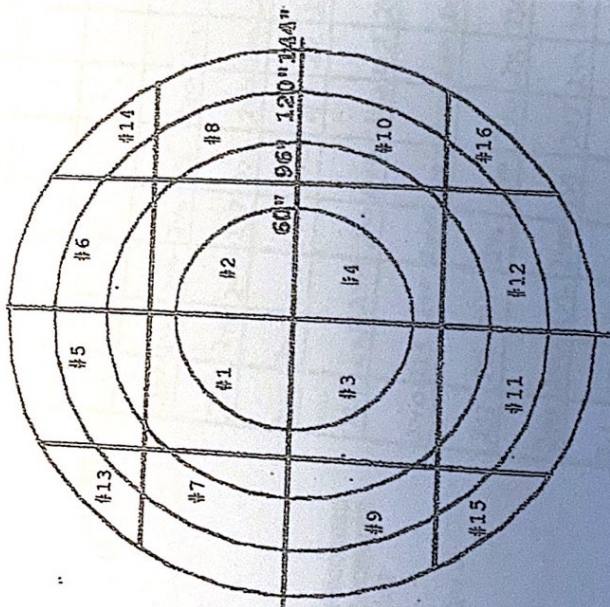


ENDCAP TANK LINING THICKNESS

ENDCAP #1

ENDCAP #2

120" OR 144" DIAMETER



96" DIAMETER

72" OR LESS DIAMETER

ENDCAP #1 LOCATION

TOTAL OF ALL READINGS

TOTAL/# OF READINGS =

ENDCAP #2 LOCATION

TOTAL OF ALL READINGS

TOTAL/# OF READINGS =

#1

141" DIAMETER
(12 FOOT)

120" DIAMETER
(10 FOOT)

96" DIAMETER
(8 FOOT)

ENDCAP
#1

READINGS RECORDED
COUNTER-CLOCKWISE
WHILE FACING
END CAP #1 -

1910. - 240
OK

TANKWALL UT SUMMARY

[illegible]

6 o'clock

TENIN WALL TARGET AREAS

CHECK BOX
IF NONE



AVERAGE

	1	

1

	2	

AVRAGE

TOTAL

15,147	67
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SUBTOTALS

TOTAL	DIV. BY	#READINGS	EQUALS	AVERAGE
100	10	10	10	10

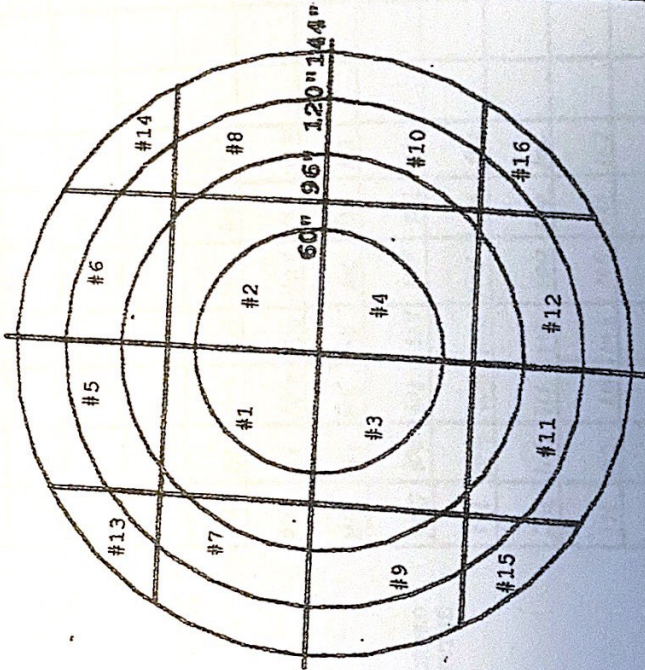
PRINT
AVERAGE
IN BOX
BELOW

236 miles

ENDCAP UT SUMMARY

ENDCAP#1 ENDCAP#2

120" OR 144" DIAMETER



96" DIAMETER

235	238		235	
238	240	237	235	238
237	237	235	238	
238	235			

234	235		
235	235	235	235
235	234	237	235
237	235		

72" OR LESS DIAMETER 12-24"-2880

ENDCAP #1 LOCATION 2
TOTAL OF ALL READINGS 2861
TOTAL/# OF READINGS = 238

ENDCAP #2 LOCATION 5
TOTAL OF ALL READINGS 2815
TOTAL/# OF READINGS = 234



Tank Lining Thickness

144" DIAMETER
(12 FOOT)

120" DIAMETER
(10 FOOT)

96" DIAMETER
(8 FOOT)

ENDCAP
#1

READINGS RECORDED
COUNTER-CLOCKWISE
WHILE FACING
END CAP #1.

8K

6' 0" Clock

6 O'Clock	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42
-----------	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----

TOTAL	DIV. BY	#READINGS	EQUALS	AVERAGE
100	10	10	10	10

**PRINT
AVERAGE
IN BOX
BELOW**

mit

SUBTOTALS

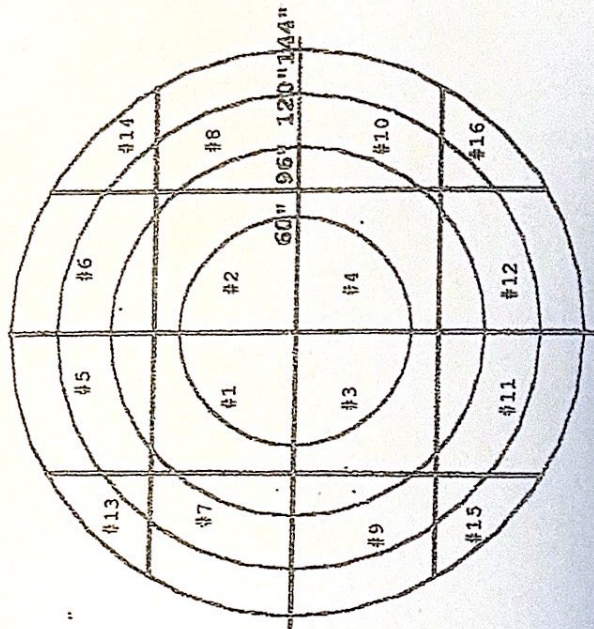


ARMOR SHIELD KY

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1#

ENDCAP TANK LINING THICKNESS



ENDCAP #1
120" OR 144" DIAMETER

96" DIAMETER

100	100	
100	100	100
100	100	100
100	100	100

100	100	
100	100	100
100	100	100
100	100	100

72" OR LESS DIAMETER

ENDCAP #1 LOCATION

TOTAL OF ALL READINGS

TOTAL/# OF READINGS =

ENDCAP #2 LOCATION

TOTAL OF ALL READINGS

TOTAL/# OF READINGS =

#2