Midwest Environmental Consulting Services

LEAD-BASED PAINT INSPECTION

Performed For:

Village of Villa Park
20 S. Ardmore Ave.
Villa Park, IL 60181-2610

Project Location:

Lions Park & Community Recreation Building
320 E. Wildwood Ave.
Villa Park, IL 60181-2610

September 9, 2022

MEC Project #: 22-07-376-LEAD

Corporate Headquarters
2551 N. Bridge Street
Yorkville, Illinois 60560
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Chicago, Illinois 60607
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Village of Villa Park

Lions Park & Community Recreation Building
320 E. Wildwood Ave.
Villa Park, IL 60181-2610

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MEC Project #: 22-07-376-LEAD

Midwest Environmental Consulting Services, Inc.
2551 N. Bridge St., Yorkville, IL 60560
Phone: (630) 553-3989 Fax: (630) 553-3990

LEAD-BASED PAINT INSPECTION SUMMARY

Lions Park & Community Recreation Building, 320 E. Wildwood Ave., Villa Park, IL 60181-2610

This lead-based paint inspection is an investigation to identify lead based-paint hazards and potential lead-based paint hazards on a surface-by-surface basis. A non-HUD lead-based paint inspection was performed on September 9, 2022, for the Village of Villa Park at the Lions Park & Community Recreation Center located at 320 East Wildwood Avenue, Villa Park, Illinois, 60181-2610. The Non-HUD inspection was conducted as the building is scheduled to be demolished.

In each room, the wall closest to the street address side of that particular building was always labeled side A. Then, in clockwise fashion the remaining walls were labeled side B, C, and D. Other attached painted surfaces (e.g., doors, floors) were tested but not always in order. There are instances when a wall or other painted surface could not be tested due to obstructions present during the time of this evaluation. That was not the case during this inspection. All practical efforts were made to test each surface. Every attempt was made to sample the existing remaining surfaces.

Validation of sampling was accomplished based upon adherence to the standard calibration check protocol as outlined in the Performance Characteristic Sheet for the instrument. Calibration check readings are recorded and taken at the beginning and end of the inspection also every time during the inspection the instrument is turned off and then turned back on.

Accessible Lead-based paint and lead-based containing substances found to be in a non-intact condition and therefore constitute a Lead-Based Paint Hazard are the following:

Interior:

- None

Exterior:

- None

Accessible Lead-Based Paint and lead-based containing substances found to be in an intact condition and therefore are potential moderate risks are the following:

Interior:

- None

Exterior:

- None

Testing was performed by Stephen Merwin, an Illinois licensed and certified Lead Based Paint Risk Assessor (#L-009858), using the RMD Model LPA-1 XRF Unit. His credentials are provided in Section 5, Certifications, Licenses, and Accreditations. The XRF analyzer is designed to measure the lead content of surface coatings on a variety of building surfaces, substrates, and components. The measurement is rapid and nondestructive and, according to the manufacturer, capable of detecting concentrations that occur within numerous layers of various surface coatings.

Please refer to the XRF Testing Results Section 2, for the detailed analytical testing results for each distinct area or unit inspected. The reports provide a summary of surfaces and components identified with lead-based paint coatings (Summary Report), and a sequential report providing complete testing data in sequential order (Sequential Report).

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 09/09/22 13:00

INSPECTION FOR: Village of Villa Park
20 S. Ardmore Ave.
Villa Park, IL 60181 - 2610

PERFORMED AT: Lions Park & Community Rec Bldg.
320 E. Wildwood Ave.
Villa Park, IL 60181-2610

INSPECTION DATE: 09/09/22

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2787

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: L-009858

SIGNED: _____ Date: 10/6/22

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Village of Villa Park

Inspection Date:	09/09/22	Lions Park & Community Rec Bldg.
Report Date:	10/6/2022	320 E. Wildwood Ave.
Abatement Level:	1.0	Villa Park, IL 60181-2610
Report No.	09/09/22 13:00	
Total Readings:	28 Actionable: 0	
Job Started:	09/09/22 13:00	
Job Finished:	09/09/22 13:00	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Calibration Readings									
---- End of Readings ----									

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Village of Villa Park

Inspection Date:	09/09/22
Report Date:	10/6/2022
Abatement Level:	1.0
Report No.	09/09/22 13:00
Total Readings:	28
Job Started:	09/09/22 13:00
Job Finished:	09/09/22 13:00

Lions Park & Community Rec Bldg.
320 E. Wildwood Ave.
Villa Park, IL 60181-2610

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								1.0	TC
2		CALIBRATION								1.0	TC
3	001	1st Floor	D	Wall	Lft		I	Brick	Yellow	-0.2	QM
4	001	1st Floor	A	Wall	N/A		I	Brick	Yellow	-0.2	QM
5	001	1st Floor	C	Wall	N/A		I	Brick	Yellow	-0.3	QM
6	001	1st Floor	B	Wall	N/A		I	Brick	Yellow	-0.2	QM
7	001	1st Floor	A	Door	N/A		I	Metal	Brown	-0.6	QM
8	001	1st Floor	A	Door	N/A	Casing	I	Metal	Brown	-0.2	QM
9	001	1st Floor	A	Wall	N/A		I	Dry wall	blue	-0.6	QM
10	001	1st Floor	C	Wall	N/A		I	Dry wall	Yellow	-0.5	QM
11	001	1st Floor	C	Railing	N/A	Balusters	F	Metal	Brown	0.0	QM
12	001	1st Floor	C	Railing	N/A	Balusters	F	Metal	Brown	0.0	QM
13	001	1st Floor	C	Wall	N/A		F	Brick	white	-0.2	QM
14	001	1st Floor	C	Door	N/A	Casing	F	Metal	Brown	0.3	QM
15	001	1st Floor	C	Door	N/A		F	Metal	Brown	-0.2	QM
16	001	1st Floor	C	Ceiling	N/A		F	Concrete	white	0.3	QM
17	002	Basement	C	Wall	N/A		F	Concrete	white	-0.6	QM
18	002	Basement	A	Wall	N/A		P	Concrete	white	-0.3	QM
19	002	Basement	A	Ceiling	N/A		I	Concrete	white	-0.2	QM
20	002	Basement	A	Duct	N/A		I	Metal	Yellow	-0.3	QM
21	002	Basement	A	Wall	N/A		I	Glazed Blk	green	-0.7	QM
22	002	Basement	D	Wall	N/A		I	Concrete	white	-0.3	QM
23	001	Exterior	B	Facia	N/A		P	Wood	Brown	-0.2	QM
24	001	Exterior	B	Wall	N/A		F	Wood	Tan	-0.2	QM
25	001	Exterior	D	Corner Trim	N/A		P	Wood	Brown	-0.1	QM
26	001	Exterior	D	Wall	N/A		P	Wood	Gray	0.0	QM
27	001	Exterior	B	pole	N/A		P	Steel	Brown	-0.3	QM
28		CALIBRATION								1.0	TC

---- End of Readings ----

IDPH

LEAD RISK ASSESSOR LICENSE

LEAD ID	ISSUED	EXPIRES
009858	2/1/2022	1/31/2023

Stephen D Merwin
25W101 Marblehead Court
Naperville, IL 60540

ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of this license shall result in legal action
RISK ASSESSOR CERTIFICATE EXPIRES
9/28/2023
This license issued under authority of the State of Illinois -Department of Public Health
This license is valid only when accompanied by a valid training course certificate
If found return to 525 W.Jefferson St Springfield, IL 62761

2020

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street | Willowbrook, IL 60527 | (630) 655-3900 | www.otssafety.com

Lead Risk Assessor Refresher

Occupational Training & Supply, Inc. certifies that

Stephen Merwin

has successfully completed the Lead Risk Assessor Refresher course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health (TCP ID No. 25) in accordance with the Illinois Lead Poisoning Prevention Code.

Course Date: 9/28/2020

Exam Date: 9/28/2020

Expiration Date: 9/28/2023

Certificate Number: LRAR2009282097

Kristina Miczek

Kristina Miczek, Training Manager

Certificate of Achievement

This is to certify that

Stephen D. Merwin

Midwest Environmental Consulting Services, Inc.

on the 6th day of November 2006 successfully completed the factory training for

RMD's LPA-1 Lead Paint Inspection System

including, but not limited to, the topics of Radiation Safety and the Proper Use of the Instrument

Sia Afshari, Product Manager
44 Hunt St., Watertown, Massachusetts

Performance Characteristic Sheet

EFFECTIVE DATE: **October 25, 2006** **EDITION NO.: 5**

MANUFACTURER AND MODEL:

Make: ***Radiation Monitoring Devices***
Model: ***LPA-1***
Source: ^{57}Co
Note: This sheet supersedes all previous sheets for the XRF instrument of the make, model, and source shown above ***for instruments sold or serviced after June 26, 1995. For other instruments, see prior editions.***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Quick mode or 30-second equivalent standard (Time Corrected) mode readings.

XRF CALIBRATION CHECK LIMITS:

0.7 to 1.3 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

For XRF results below 4.0 mg/cm^2, substrate correction is recommended for:

Metal using 30-second equivalent standard (Time Corrected) mode readings.
None using quick mode readings.

Substrate correction is not needed for:

Brick, Concrete, Drywall, Plaster, and Wood using 30-second equivalent standard (Time Corrected) mode readings
Brick, Concrete, Drywall, Metal, Plaster, and Wood using quick mode readings

THRESHOLDS:

30-SECOND EQUIVALENT STANDARD MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results corrected for substrate bias on metal substrate only	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

QUICK MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Readings not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on approximately 150 test locations in July 1995. The instrument that performed testing in September had a new source installed in June 1995 with 12 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm^2 for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.02 mg/cm^2 at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

> Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm^2. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.
>
> Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.
>
> For each substrate type (the 1.02 mg/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):
>
> $$\text{Correction value} = (1^{st} + 2^{nd} + 3^{rd} + 4^{th} + 5^{th} + 6^{th}\ \textit{Reading}) / 6 - 1.02\ \text{mg/cm}^2$$
>
> Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use either the Quick Mode or 30-second equivalent standard (Time Corrected) Mode readings.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

BIAS AND PRECISION:

Do not use these bias and precision data to correct for substrate bias. These bias and precision data were computed without substrate correction from samples with reported laboratory results less than 4.0 mg/cm^2 lead. The data which were used to determine the bias and precision estimates given in the table below have the following properties. During the July 1995 testing, there were 15 test locations with a laboratory-reported result equal to or greater than 4.0 mg/cm^2 lead. Of these, one 30-second standard mode reading was less than 1.0 mg/cm^2 and none of the quick mode readings were less than 1.0 mg/cm^2. The instrument that tested in July is representative of instruments sold or serviced after June 26, 1995. These data are for illustrative purposes only. Actual bias must be determined on the site. Results provided above already account for bias and precision. Bias and precision ranges are provided to show the variability found between machines of the same model.

30-SECOND STANDARD MODE READING MEASURED AT	SUBSTRATE	BIAS (mg/cm^2)	PRECISION* (mg/cm^2)
0.0 mg/cm^2	Brick	0.0	0.1
	Concrete	0.0	0.1
	Drywall	0.1	0.1
	Metal	0.3	0.1
	Plaster	0.1	0.1
	Wood	0.0	0.1
0.5 mg/cm^2	Brick	0.0	0.2
	Concrete	0.0	0.2
	Drywall	0.0	0.2
	Metal	0.2	0.2
	Plaster	0.0	0.2
	Wood	0.0	0.2
1.0 mg/cm^2	Brick	0.0	0.3
	Concrete	0.0	0.3
	Drywall	0.0	0.3
	Metal	0.2	0.3
	Plaster	0.0	0.3
	Wood	0.0	0.3
2.0 mg/cm^2	Brick	-0.1	0.4
	Concrete	-0.1	0.4
	Drywall	-0.1	0.4
	Metal	0.1	0.4
	Plaster	-0.1	0.4
	Wood	-0.1	0.4

*Precision at 1 standard deviation.

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, and negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. Earlier editions of this *XRF Performance Characteristics Sheet* did not include both bounds of the inconclusive range as "inconclusive." While this edition of the Performance Characteristics Sheet uses a different system, the specific XRF readings that are considered positive, negative, or inconclusive for a given XRF model and substrate remain unchanged, so previous inspection results are not affected.

DOCUMENTATION:

An EPA document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD. A HUD document titled *A Nonparametric Method for Estimating the 5th and 95th Percentile Curves of Variable-Time XRF Readings Based on Monotone Regression* provides supplemental information on the methodology for variable-time XRF instruments. A copy of this document can be obtained from the HUD lead web site, www.hud.gov/offices/lead.

This XRF Performance Characteristic Sheet was developed by QuanTech, Inc., under a contract from the U.S. Department of Housing and Urban Development (HUD). HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.*

IDNS.FLM-004-01 (9/91)

STATE OF ILLINOIS
ILLINOIS EMERGENCY MANAGEMENT AGENCY
BUREAU OF RADIATION SAFETY
1035 OUTER PARK DRIVE
SPRINGFIELD, ILLINOIS 62704
(217) 785-9947

RADIOACTIVE MATERIAL LICENSE

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess and transfer radioactive material(s) listed herein; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Agency now or hereafter in effect and to any conditions specified in the license.

LICENSEE	LICENSE NUMBER	EXPIRATION DATE
Midwest Environmental Consulting Services, Inc. **2551 N. Bridge Street** Yorkville, IL 60560	IL-02377-01 AMENDMENT NUMBER 3	February 28, 2022

Attention: Blake Mellecker
President

In accordance with letter with attachments dated March 28, 2018, License Number IL-02377-01 is amended in its entirety. Previous amendments are void.

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
A.	Co-57	Sealed Source – Isotope Products Laboratory Models 3814 or 3901 series, QSA Global, Inc. Model CTC.P1, North American Scientific Models IND1150 or IND1403, DuPont Merck Pharmaceutical Company Models NER-472 or NER-372	15 mCi	15 mCi

AUTHORIZED USE:

A. For use in RMD Instruments Corp. d/b/a Dynasil Products (formerly Radiation Monitoring Devices, Inc.) Model LPA-1 portable x-ray fluorescence analyzers for the measurement of lead in surfaces.

CONDITIONS

1. Radioactive material shall be stored at the licensee's facilities located at **2551 N. Bridge Street**, Yorkville, Illinois, and used at temporary jobsites of the licensee in areas not under exclusive Federal jurisdiction throughout the State of Illinois in accordance with statements, representations and procedures listed in other conditions of this license.

* µCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; µg-microgram; kg-kilogram

APPROVED BY:	DATE	PAGE of PAGES
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STATE OF ILLINOIS
IEMA BUREAU OF RADIATION SAFETY
RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Midwest Environmental Consulting Services, Inc.	IL-02377-01	3	February 28, 2022

2. Radioactive material shall be used by, or under the supervision and in the physical presence of, Stephen Merwin, Stuart J. Bruce, Jr., Daniel L. Medler, Steven R. Szeredy, or individuals who have successfully completed the manufacturer's training course or an equivalent, Agency approved, training course. The licensee shall maintain training records of all designated users.

3. The Radiation Safety Officer for this license is Stephen Merwin.

4. A. Each sealed source possessed under this license shall be tested for leakage and/or contamination as specified in 32 Ill. Adm. Code 340.410. Tests for leakage and/or contamination shall be performed by persons specifically licensed to provide such services.

   B. This license does not authorize analysis of leak test samples. However, the licensee is authorized to collect leak test samples for analysis by persons specifically authorized by the Agency, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.

5. Maintenance, repair and initial radiation monitoring of devices containing radioactive material shall be performed only by persons specifically authorized by the Agency, an Agreement State, or the Nuclear Regulatory Commission to perform such services.

6. A. The source holder shall be locked in the "off" or closed position when the device is not in use.

   B. Sealed sources shall not be opened or removed from their source holders by the licensee.

7. When performing tests at temporary job sites, the authorized user shall not leave the device unattended. Upon completion of tests, the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss, or theft.

* µCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; µg-microgram; kg-kilogram

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STATE OF ILLINOIS
IEMA BUREAU OF RADIATION SAFETY
RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Midwest Environmental Consulting Services, Inc.	IL-02377-01	3	February 28, 2022

8. At any time the licensee is engaged in making measurements by authority of this license at a temporary job site, the licensee shall have a current copy of each of the following documents available at the temporary job site for inspection by the Agency:

   A. The license, including all active amendments;

   B. The manufacturer's instruction manual for the sealed sources and devices at the temporary job site;

   C. The licensee's emergency procedures; and

   D. The results of the latest test for leakage and/or contamination performed on the sealed source.

9. Except as specifically provided otherwise by the license, the licensee shall possess and use radioactive material described in all schedules of this license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The regulations contained in 32 Ill. Adm. Code: Chapter II, Subchapters b and d shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations. The most recent statements, representations and procedures listed below shall govern if they conflict with previously submitted documents.

   A. Applications dated December 4, 2008 and January 21, 2014.

   B. Letter, with attachments, dated March 28, 2018.

MEB:WNC:kjc

* µCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; µg-microgram; kg-kilogram

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