# Pfeiffer, Jane K - DNR

From: Angy Singh <angy.singh@ksinghengineering.com>

Sent: Saturday, April 20, 2024 2:11 PM

**To:** Pfeiffer, Jane K - DNR

Cc: Mylotta, Pamela A - DNR; Shane LaFave; Que El-Amin; Robert Reineke;

rfedorchak@patrioteng.com; Kathryn Balachandran

**Subject:** RE: Community Within the Corridor - East Block (02-41-263675) - Information

Requested

Attachments: CWC EB - GC Unit Calibration - March 2024.pdf; CWC East Block - YTD Indoor Air TCE

Data.xlsx; CWC EB Rev. Vacuum Measurements.pdf; 101-150644-02P-GBR123 240V.pdf

Follow Up Flag: Follow up Flag Status: Flagged

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Jane,

Please see below for responses to your questions regarding our Second Round of Commissioning (the Report):

- Provide up-to-date raw excel sheets with the indoor air data collected to-date. Attached is an
  example of the raw excel datasheets that CWC provided to the DNR in December 2023. The DNR
  requests that the data be provided in a similar format as the attached example. In addition to the
  data presented by month, please include a sheet that presents all data (April 2023 April 2024).
  The DNR will use this information to aid in our review of the indoor air contamination trends todate.
  - Attached please find the updated raw data spreadsheet which includes data through the end of the 2<sup>nd</sup> round of commissioning (March 21, 2024). Given the large amount of data (more than 3,000 data points), we have separated the data by month. We are in the process of combining all months into one sheet, but this will require more time and extensive QC. In the meantime, we request that you evaluate the Report using the attached spreadsheet.
  - We have included a sheet in this workbook that shows the average reading per month of 13 select units/rooms at CWC EB from April 2023 to March 2024. Please note that the number of samples in each room over the course of the past year varies, and the average does not account for the readings listed as <0.6 ug/m3.</li>
- Indicate whether blower/fan vacuum measurements were collected during the March 2024 commissioning event. If so, provide this data.
  - Blower/Fan vacuum measurements were not proposed or taken. The 2<sup>nd</sup> Round of Commissioning Plan included measuring vacuum from the 55 vapor pins on the 1<sup>st</sup> level. Part E of the Commissioning Plan titled "Blower Efficiency," indicates that commissioning would include measuring velocity of the exhaust as well as TCE concentrations from the exhaust. Table 5 of the Report details the velocity, flow rate, TCE reading, and TCE removal.

As indicated by the GBR 123 Spec (attached), vacuum can be measured by the flow rate and be calculated using the performance curve.

- Provide the calibration information/graphs for the GC unit.
  - Attached please find calibration data for the GC unit for the month of March 2024.
     Hartman Environmental Science assisted KSingh to ensure that calibration of the GC unit was conducted properly, and that standards were being run regularly.
- Provide a figure displaying both the PFE information and the VMS layout.
  - Attached please find the requested figure. The figure has been revised to reflect the vacuum measurements on the as-built VMS layout.

Please let us know if you have any questions or need any additional information in order to provide a review of our Report and the 3<sup>rd</sup> Round of Commissioning Plan.

Thank you,

# Angy K. Singh, Ph.D.

Director of Business Development | <u>angy.singh@ksinghengineering.com</u> 262.821.1171 (p) | 414.232.2420 (cell) www.ksinghengineering.com



IN ENGINEERING

From: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>

Sent: Tuesday, April 16, 2024 3:15 PM

To: Pratap Singh <psingh@ksinghengineering.com>

**Cc:** Angy Singh <angy.singh@ksinghengineering.com>; Robert Reineke <rreineke@ksinghengineering.com>; Kathryn Balachandran <kbalachandran@ksinghengineering.com>; Shane LaFave <Shane@roerscompanies.com>; Que El-Amin <que@scott-crawford.com>; Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>

Subject: Community Within the Corridor - East Block (02-41-263675) - Information Requested

Greetings,

On April 9, 2024, the DNR received *Second Round of Commissioning* (the Report) for the subject site. To assist with the DNR's review of this report, please provide the following information/documentation:

- Provide up-to-date raw excel sheets with the indoor air data collected to-date. Attached is an example of the
  raw excel datasheets that CWC provided to the DNR in December 2023. The DNR requests that the data be
  provided in a similar format as the attached example. In addition to the data presented by month, please
  include a sheet that presents all data (April 2023 April 2024). The DNR will use this information to aid in our
  review of the indoor air contamination trends to-date.
- Indicate whether blower/fan vacuum measurements were collected during the March 2024 commissioning event. If so, provide this data.
- Provide the calibration information/graphs for the GC unit.
- Provide a figure displaying both the PFE information and the VMS layout.

The requested information should be presented all together and can be submitted to the DNR via email. The DNR will continue our technical review of the Report once this information is submitted.

# Thank you, Jane

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## Jane Pfeiffer

(she/her/hers)

 $\label{lem:hydrogeologist & Project Manager - Remediation & Redevelopment Program$ 

Wisconsin Department of Natural Resources

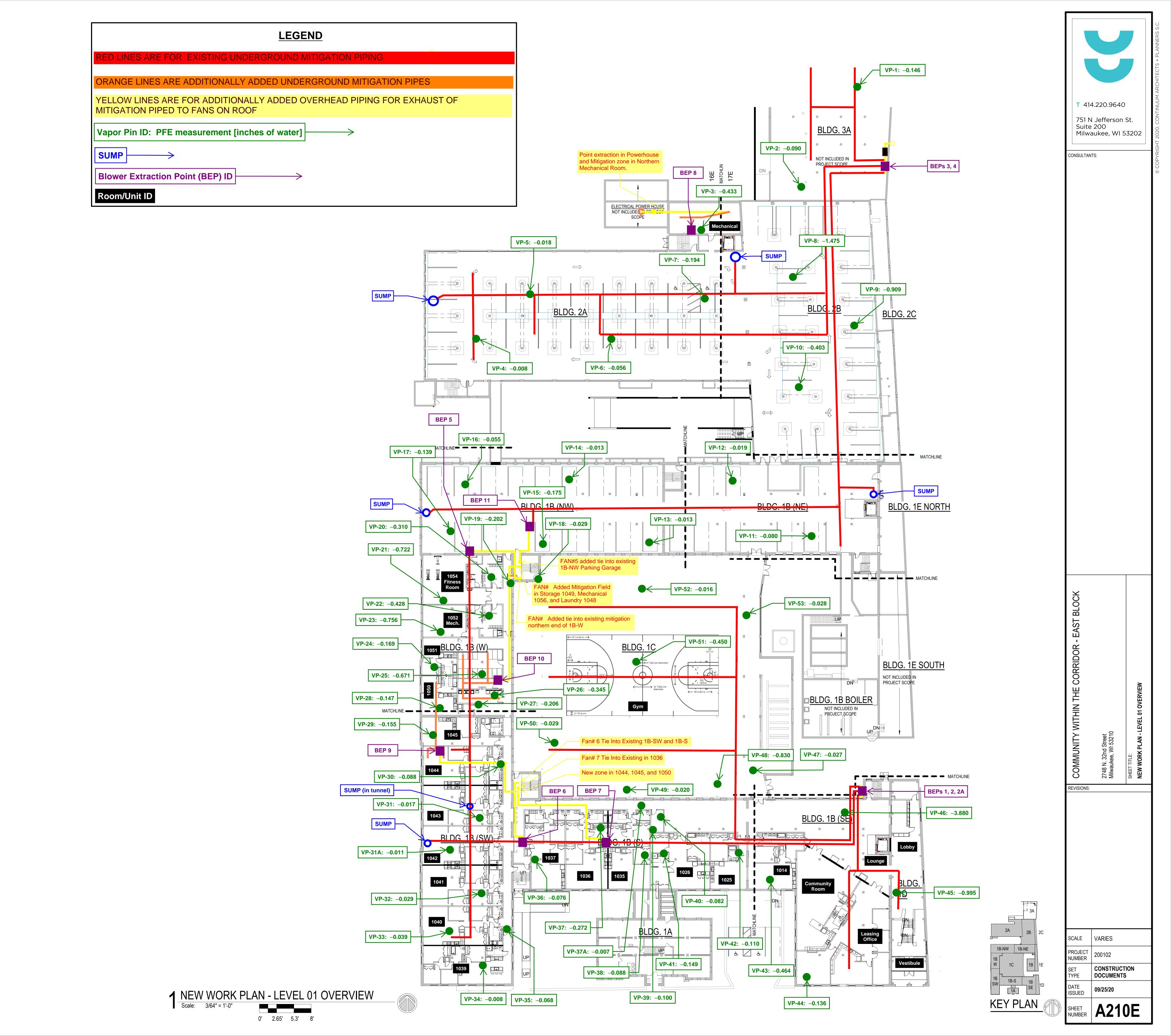
Phone: (414) 435-8021 jane.pfeiffer@wisconsin.gov

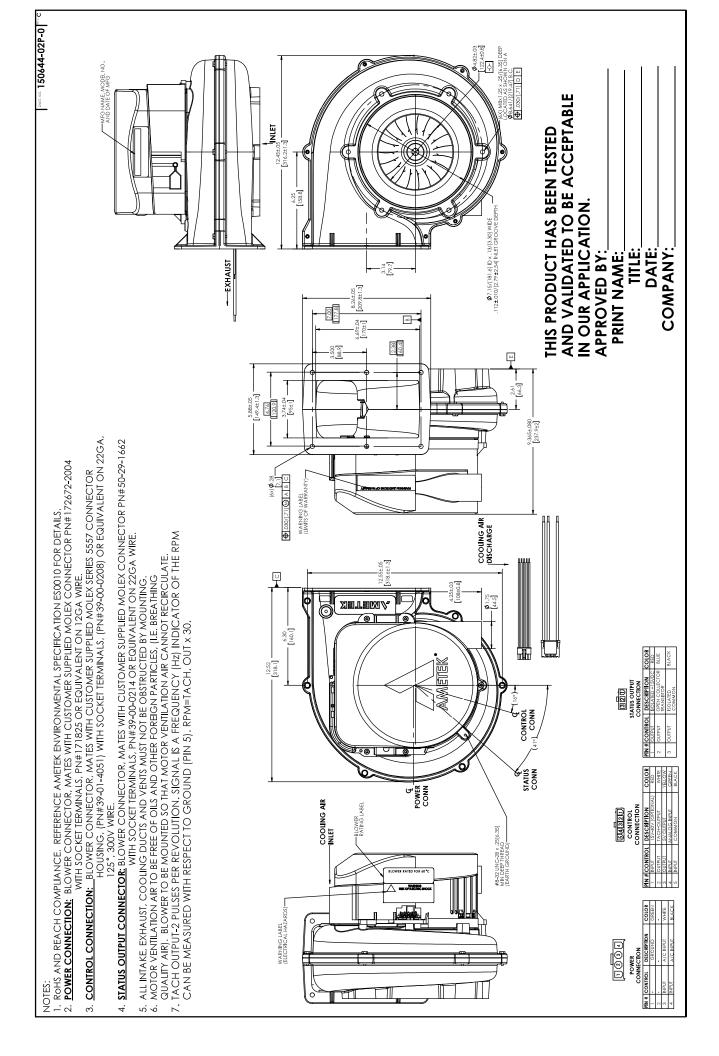


### Community Within the Corridor - East Block GC Unit Calibration/Standard Data March 2024

Filename	Date	Time	COC	R-Time	Area Counts	ppbv	ug/m3	unit	COC	R-Time	Area Counts	ppbv	ug/m3	unit
KSingh 051623-3166.chr	3/1/2024	12:09:20	TCE	3.456	768.3048	0.9518	5.2348	ug/m3	PCE	6.573	4716.3632	1.2473	8.6314	ug/m3
KSingh 051623-3167.chr	3/1/2024	12:26:27	TCE	3.466	1039.1001	1.3948	7.6712	ug/m3	PCE	6.586	211.2806	0.023	0.1594	ug/m3
KSingh 051623-3203.chr	3/4/2024	8:44:30	TCE	3.516	1446.0912	2.0563	11.3099	ug/m3	PCE	6.733	7172.7454	2.1041	14.5604	ug/m3
KSingh 051623-3285.chr	3/6/2024	10:17:56	TCE	3.573	1433.617	2.0283	11.1558	ug/m3	PCE	6.85	10869.876	4.2574	29.4609	ug/m3
KSingh 051623-3358.chr	3/8/2024	8:43:42	TCE	3.523	1584.72	2.3676	13.022	ug/m3	PCE	6.73	8093.1802	2.6402	18.27	ug/m3
KSingh 051623-3400.chr	3/11/2024	9:15:12	TCE	3.54	1354.4104	1.8945	10.4196	ug/m3	PCE	6.77	7830.4612	2.4872	17.2112	ug/m3
KSingh 051623-3449.chr	3/12/2024	7:47:35	TCE	3.513	1285.8878	1.7859	9.8223	ug/m3	PCE	6.7	6282.4237	1.7648	12.2127	ug/m3
KSingh 051623-3503.chr	3/13/2024	8:00:27	TCE	3.54	1313.6678	1.8299	10.0645	ug/m3	PCE	6.773	6164.626	1.7259	11.9433	ug/m3
KSingh 051623-3547.chr	3/14/2024	7:45:18	TCE	3.523	1461.9047	2.0919	11.5052	ug/m3	PCE	6.726	6880.3812	1.9625	13.5802	ug/m3
KSingh ECD2 P2-3390.chr	3/21/2024	14:02:06	TCE	3.516	1141.988	2.0904	11.4973	ug/m3	PCE	6.7	5050.3482	1.4665	10.1485	ug/m3









### **NAUTILAIR**

#### **MECHANICAL**

**DIAMETER: 12.3" (312mm) DISCHARGE TYPE**: Tangential

**DISCHARGE:** Large Rectangular Flange APPROXIMATE WEIGHT: 28lbs/12.7kg

### **PERFORMANCE**

FLOW CLASSIFICATION: High Energy

STAGES: 1 Stage

### **TEMPERATURE**

OPERATING TEMP: 0°C to 60°C STORAGE TEMP: -40°C to 85°C

### Model: 150644-02P

#### **ELECTRICAL**

**OPERATING INPUT VOLTAGE: RANGE:** 

180-264 VAC

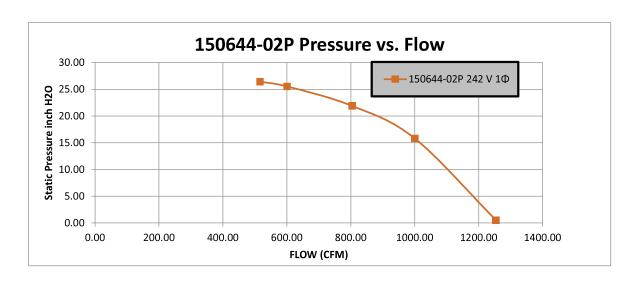
**OPERATING INPUT VOLTAGE: 240V 1Ø** 

#### **OPTIONAL FEATURES**

SPEED CONTROL: Remote Pot., Open Loop, 4-Pin Power, 5-Pin Control, 3-Pin

### **REGULATORY CERTIFICATIONS**

**COMPLIANCE: RoHS and Reach UL FILE NUMBER: E94403** AGENCY FULL LOAD AMPS: 30A REFERENCE: E-54147



Flow Rate	Static	Total		Power		Flow	Rotational	Static	Total
cfm	Pressure	Pressure	Current	Demand	Voltage	Temp.	Speed	Efficiency	Efficiency
	inch H2O	inch H2O	$\boldsymbol{A}$	W	V	${}^{\!$	rpm	%	%
1254.13	0.50	1.31	22.94	3668.54	241.71	26.45	7620	2.05	5.32
999.97	15.82	16.33	24.99	4002.16	241.73	27.99	8700	47.31	48.83
804.13	21.90	22.23	22.93	3651.93	241.61	28.78	9150	57.80	58.67
600.63	25.54	25.73	20.40	3214.99	242.38	29.50	9510	57.31	57.72
515.85	26.41	26.54	19.19	2994.57	243.03	29.99	9690	54.69	54.97

#### WARNING PERFORMANCE DATA IS FOR REFERENCE ONLY

DESIGN APPLICATION: Designed to provide variable airflow for low NOx and CO emission in high efficiency gas fired combustion systems. Built with nonsparking materials. Blower housing assembly constructed of die cast aluminum. Impeller constructed from hardened aluminum. Rubber isolation mounts built into blower construction to dampen vibration within the motor. Two-piece blower housing assembly sealed, and factory leak checked. Customer is responsible to check for any leakage once the blower is installed into the final application.

MISCELLANOUS: Motor cooling inlet and discharge vents must not be obstructed. Motor ventilation air to be free of oils and other foreign particles. Blower is to be mounted so ventilation air cannot be re-circulated.



**AMETEK Dynamic Fluid Solutions** 

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