Abbreviated Vibration Monitoring Report

Monitoring Period: 02 February 2026 to 01 March 2026

Project:	Grenfell Tower
Document Ref:	EEMC-VMR-201/106 – Grenfell Tower Rev 00
Period:	02 February 2026 to 01 March 2026

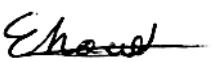
(EEMC) Limited Contact Information:
European Environmental Monitoring & Consultancy (EEMC) Ltd.
Suite 11, 5a Lombard Road, Wimbledon, London SW19 3TZ
t: 0203 6271312
e: info@eemc.london
w: www.eemc.london

Details of Vibration Monitor at Receptor Point VMP1 – VMP3

ID Reference	Location
VMP1	Opposite Southeast corner of tower between two (2) concrete blocks
VMP2	Base of North hoarding co located with NMP2
VMP3	Mobile unit- Located base of NW hoarding with DMP5 and NMP3

Contents

Review and Authorisation

	Name	Role	Signature	Date
Author:	Ibrahim Busari MSc	Consultant		03/03/2026
Technical Reviewer:	Emma Howard AMIOA, AISEP	Operations Manager/ Senior Consultant		12/03/2026

1. Exceedance Summary

At **VMP1**:
There were **ten (10) exceedances** of the Red Action Level 3.0mm/s and **fifty-six (56)** exceedances of the Amber Trigger level 1.0mm/s during working hours in this reporting period.

At **VMP2**:
There were **no exceedances** of the Red Action level 5.0mm/s, **four (4)** exceedances of the Amber Trigger level 3.0mm/s during working hours in this reporting period.

At **VMP3**:
There was **one (1) exceedance** of the Red Action level 5.0mm/s, and **no exceedances** of the Amber Trigger level 3.0mm/s in this reporting period.

Any exceedances that do occur will be shown in **Tables 0.1 and 0.2**, if there are no exceedances these tables will remain empty.

For more information regarding the trigger limits please refer to Section 4 – Methodology.

There were works adjacent to VMP1 throughout this monitoring period as outlined in Tables 0.1 and 0.2, and the location of works and the monitor are shown in Image 1.

Table 0.1. – Amber Alert Exceedance Count

Monitoring Location	Time and Date of Exceedance	Measured Level of Exceedance *(mm/s)*	Amber Trigger Alert Level *(mm/s)*	Cause of Exceedance
VMP1	02/02/2026 11:15	1.04	1.0mm/s	No works undertaken near monitoring location, given the isolated nature of this exceedance this may have been caused by an accidental disturbance of the MEMS sensor.
	11/02/2026 13:00	1.34		Soft stripping close to the monitor.
	11/02/2026 13:30	1.56		
	11/02/2026 15:30	1.86		
	11/02/2026 15:50	2.93		
	11/02/2026 16:05	1.64		
	11/02/2026 16:35	1.80		

	11/02/2026 16:55	1.66		
	11/02/2026 17:00	2.42		
	12/02/2026 08:25	1.83		No works undertaken near monitoring location, given the isolated nature of this exceedance this may have been caused by an accidental disturbance of the MEMS sensor.
	12/02/2026 09:30	1.29		
	16/02/2026 10:30	1.18		Scaffolding close to the monitor.
	16/02/2026 10:35	2.08		
	17/02/2026 13:00	1.22		
	18/02/2026 10:45	1.76		No works undertaken near monitoring location, given the isolated nature of this exceedance this may have been caused by an accidental disturbance of the MEMS sensor.
	25/02/2026 15:45	1.82		Operatives installing Temporary works near to the monitor
	25/02/2026 15:55	1.09		
	25/02/2026 16:10	1.73		
	25/02/2026 16:20	1.14		
	25/02/2026 16:45	2.66		
	25/02/2026 17:05	1.34		
	26/02/2026 09:15	1.24		
	26/02/2026 09:20	2.57		
	26/02/2026 10:20	2.84		
	26/02/2026 11:55	1.06		
	26/02/2026 12:00	1.71		
	26/02/2026 12:30	1.35		
	26/02/2026 12:35	2.05		
	26/02/2026 13:30	1.38		

	26/02/2026 13:45	1.09		
	26/02/2026 13:50	1.03		
	26/02/2026 15:10	1.23		
	26/02/2026 15:15	1.89		
	26/02/2026 15:55	1.08		
	26/02/2026 16:00	1.01		
	26/02/2026 16:25	1.44		
	26/02/2026 16:35	1.16		
	26/02/2026 16:40	1.09		
	26/02/2026 16:50	1.13		
	26/02/2026 16:55	1.38		
	26/02/2026 17:00	1.99		
	26/02/2026 17:10	1.82		
	27/02/2026 09:20	1.06		Installation of the Temporary propping close to the monitor
	27/02/2026 09:30	1.31		
	27/02/2026 09:35	1.25		
	27/02/2026 09:40	1.11		
	27/02/2026 09:55	1.29		
	27/02/2026 10:00	1.64		
	27/02/2026 14:45	1.38		
	27/02/2026 15:00	1.64		
	27/02/2026 15:20	1.01		
	27/02/2026 15:30	1.26		

	27/02/2026 15:50	1.09		
	27/02/2026 16:25	1.18		
	27/02/2026 16:50	1.13		
	27/02/2026 17:05	1.12		
VMP2	12/02/2026 16:40	3.83	3.0mm/s	No works undertaken near monitoring location, given the isolated nature of this exceedance this may have been caused by an accidental disturbance of the MEMS sensor.
	16/02/2026 11:15	3.82		14T digger loading rebar into skip in close proximity to the monitor.
	26/02/2026 11:05	4.47		
	26/02/2026 11:10	3.09		
VMP3	-	-		-

**Exceedances outside of working hours can be explained as small mammals e.g. mice/rats/cats or foxes landing on the monitor after climbing a fence or by extreme heavy rainfall.*

Table 0.2. Red Alert Exceedance Count

Monitoring Location	Date and Time of Exceedance	Measured Level of Exceedance *(mm/s)*	Red Action Alert Level *(mm/s)*	Cause of Exceedance	Mitigation
VMP1	11/02/2026 16:30	3.07	3.0mm/s	Soft stripping close to the monitor.	Soft stripping methodology reviewed with operatives; works briefed to minimise direct impact adjacent to monitor. Reduced use of percussive tools within exclusion zone and increased supervision during close-proximity activities.
	17/02/2026 14:20	3.02		Scaffolding close to the monitor.	Scaffolding installation sequence reviewed; manual handling prioritised over impact
	17/02/2026 14:25	3.24			Works temporarily paused following alert. Installation method adjusted to reduce dynamic loading and avoid sudden impacts. Continued monitoring maintained during remaining works.
	25/02/2026 13:20	3.26		Operatives installing Temporary	Temporary works installation methodology reviewed and sequenced to limit vibration generation. Increased

				works near to the monitor.	stand-off distance from monitor where practicable and activities closely supervised.
VMP1	25/02/2026 15:05	4.00			Works halted immediately upon exceedance. Method revised to reduce impact force and use lower vibration techniques. Monitoring frequency reviewed during high-risk activities.
	25/02/2026 15:30	5.50			Activity stopped and reassessed. Alternative installation technique implemented to reduce impulsive loading. Additional briefing provided to site team and exclusion buffer reinforced around monitor.
	26/02/2026 10:15	3.06			Operatives reminded of vibration constraints. Reduced working intensity near monitor and sequencing adjusted to stagger higher vibration tasks.
	26/02/2026 11:10	5.00			Immediate cessation of works following alert trigger. Method statement reviewed and amended to incorporate lower vibration equipment and controlled installation techniques. Enhanced supervision implemented.
	26/02/2026 12:45	3.76			Refined working method to minimise repetitive impacts. Continued real-time monitoring maintained and works undertaken in shorter controlled durations.
VMP1	27/02/2026 14:40	3.02		Installation of the Temporary propping close to the monitor	Propping installation sequence revised to reduce vibration transmission. Manual tightening methods prioritised over mechanical impact tools and operatives briefed on proximity constraints.
VMP2	-	-	5.0mm/s	-	
VMP3	09/02/2026 15:25	9.31		Given the magnitude and isolated nature of this exceedance, it was likely caused by an accidental disturbance of the MEMS sensor and not related to site works.	

Image 1 – Works Location throughout the monitoring period, adjacent to VMP1

Wooden box on the right hand side houses the vibration monitor – highlighted with a red box

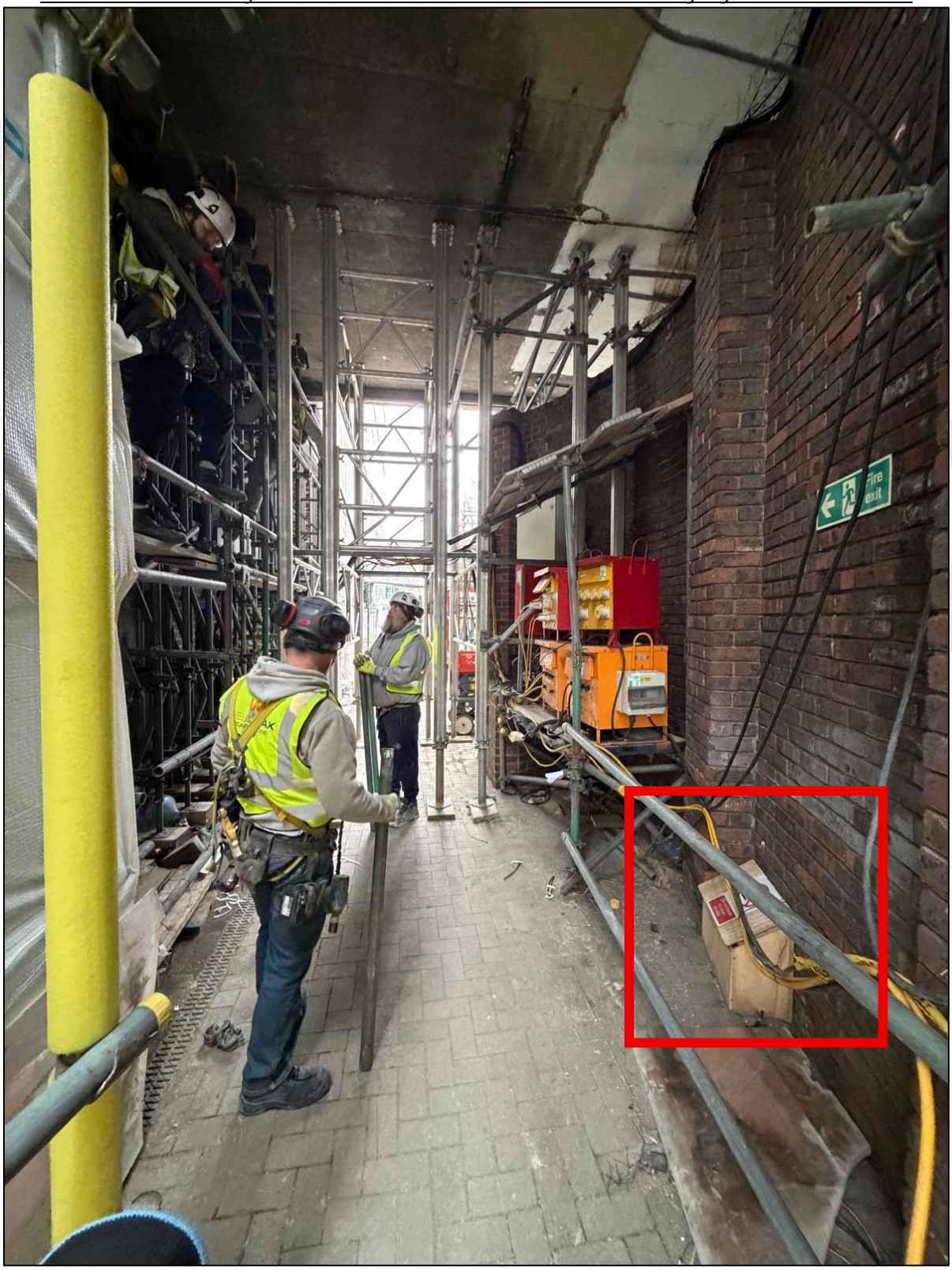


Figure 1- Map of Vibration, Dust & Vibration Monitoring Locations

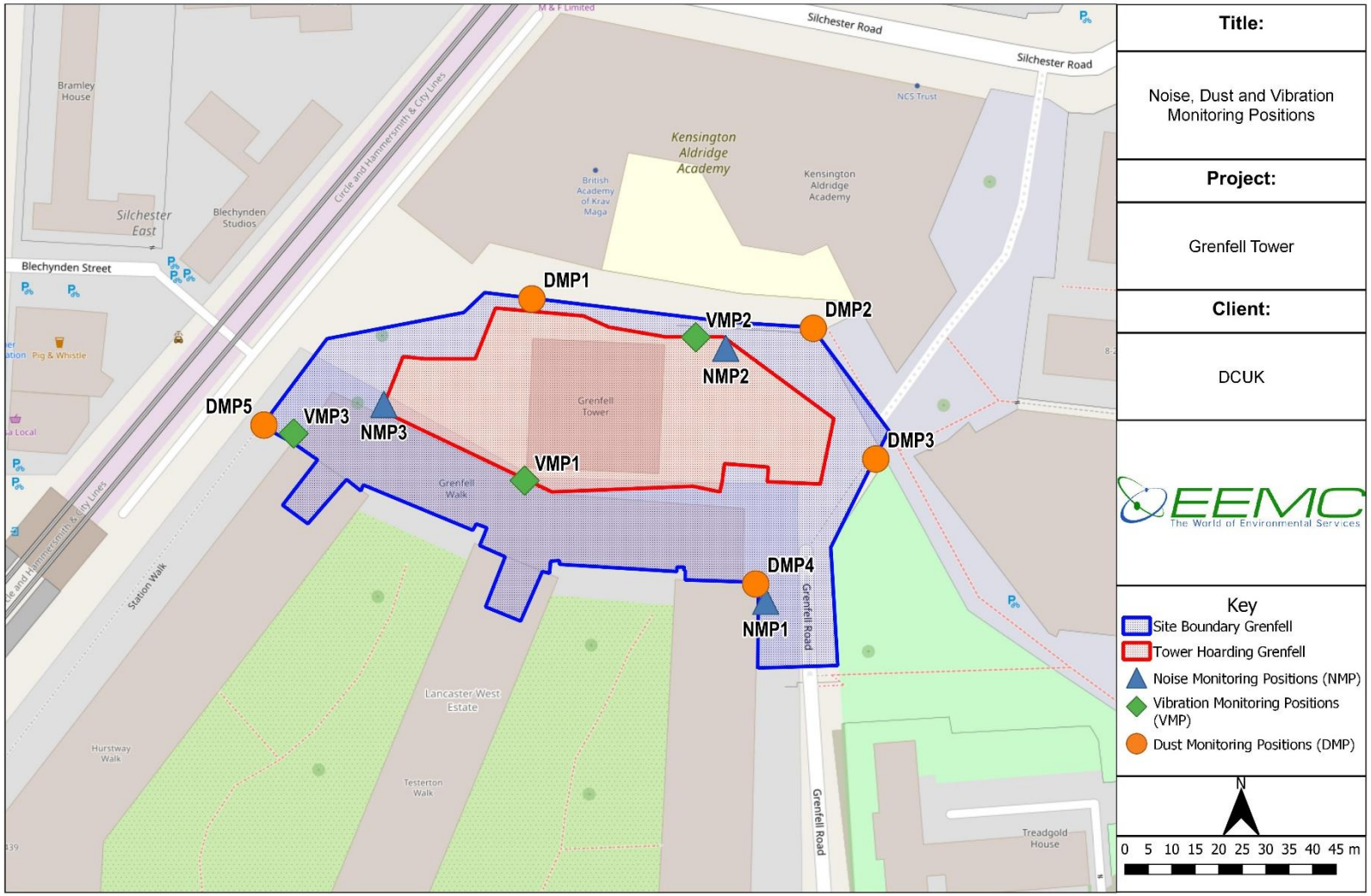


Image 2 – VMP1 Monitoring Location

Image 3 –VMP2 Monitoring Location

Image 4 – VMP3 Monitoring Location

2. Introduction

European Environmental Monitoring and Consultancy (EEMC) Limited have been appointed by Deconstruct to undertake vibration monitoring work during the Deconstruction works at the Grenfell Tower project.

The site boundary and hoarding line of this project is shown in Figure 1. The project is located at Grenfell Tower, Grenfell Road, W11 1TQ. The entire site is located within Royal Borough of Kensington & Chelsea (RBKC) and is bordered by residential blocks to the south, and a school and football pitches to the north and a leisure centre to the east. The London Underground viaduct is 70m to the west and Latimer Road Tube station is 200m from the project

This report presents the measured and recorded unattended vibration monitoring data for the period 02 February 2026 to 01 March 2026.

Deconstruct will ensure ongoing liaison with MHCLG and RBKC when required to obtain any required consents and permits for the project.

3. Instrumentation

Three (3) Omnidots Swarm vibration (DIN45669-2 compliant) monitoring systems, affixed to ground vibration base plates, are installed positioned on a solid floor structure, close to the site boundary. A copy of the calibration certificates for the monitor located at VMP1 is attached as Appendix 1.

The Swarm monitor has built in logging and telemetry and data is managed, configured, and viewed on the Honeycomb cloud portal. Email alerts are generated when trigger levels are exceeded.

4. Methodology

The Swarm monitors record Peak Particle Velocity (PPV) in orthogonal (x, y and z) directions in mm/s continuously over 1-minute periods. A map showing the locations of the monitors is in Figure 1. A photograph showing the monitoring location is shown in Image 1.

The Trigger and Action levels for the project are set out in the **Noise and Vibration Management Plan** (ref: Noise and vibration management plan - Grenfell Tower) and are reproduced for reference in Table 3.1. The NVMP sets out different limits depending on if the closest sensitive receptor is residential or commercial.

The closest sensitive receptors for the three (3) monitoring positions are outlined below and directly link to the limits used:

- The closest sensitive receptor to VMP1 is the ***residential*** Receptor: E - Testerton Walk.
- The closest sensitive receptor to VMP2 is the ***commercial*** Receptor: A - Kensington Aldridge Academy.
- The closest sensitive receptor to VMP3 is the ***commercial*** adjacent Hammersmith and City and Circle Tube Lines.

Table 3.1 – Trigger & Action Levels

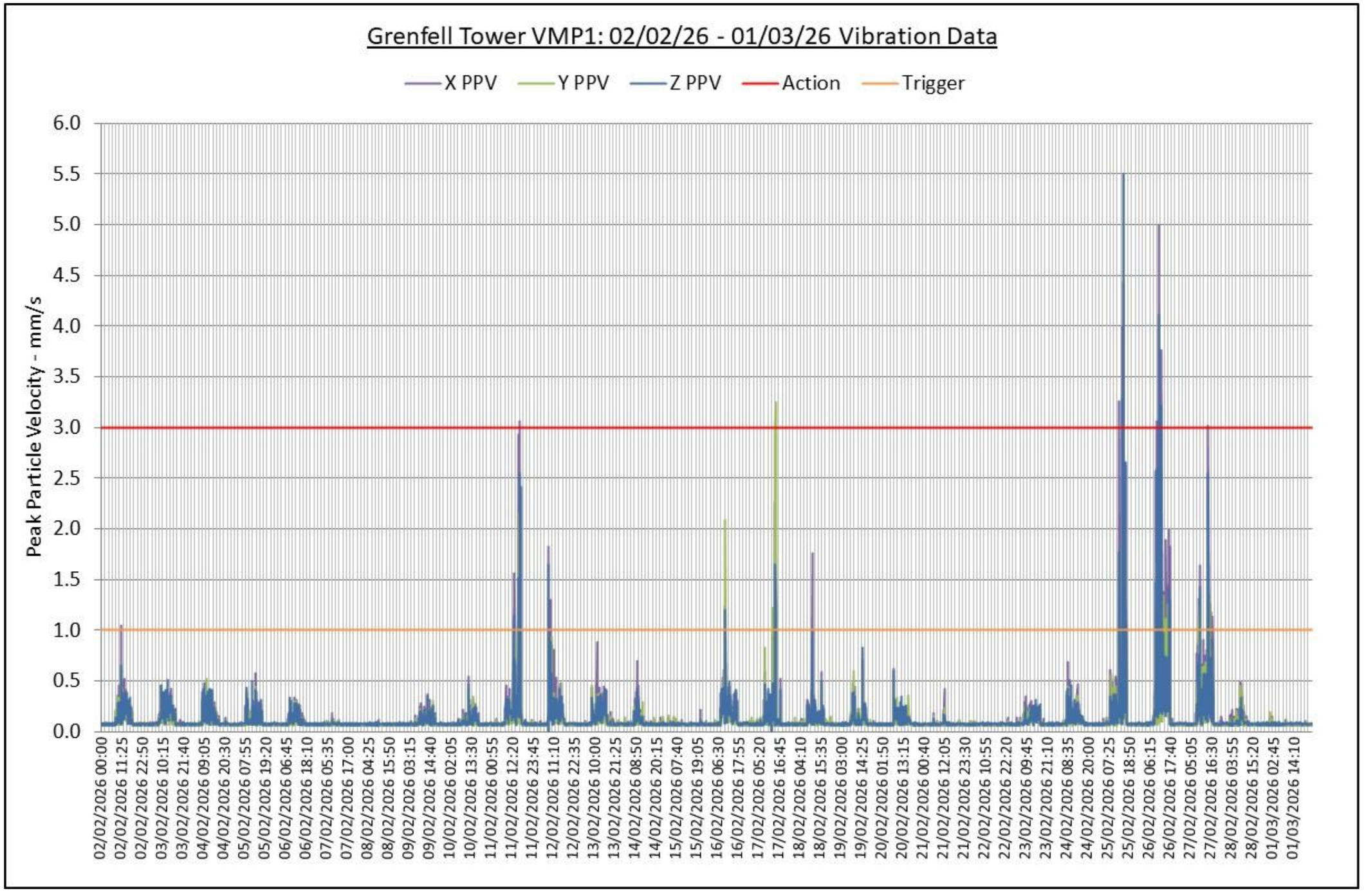
	Green Trigger Level	Amber Trigger Level	Red Action Level
VMP1 *Residential*		1 mm/s	3 mm/s
VMP2 and VMP3 *Commercial*	1 mm/s	3 mm/s	5 mm/s

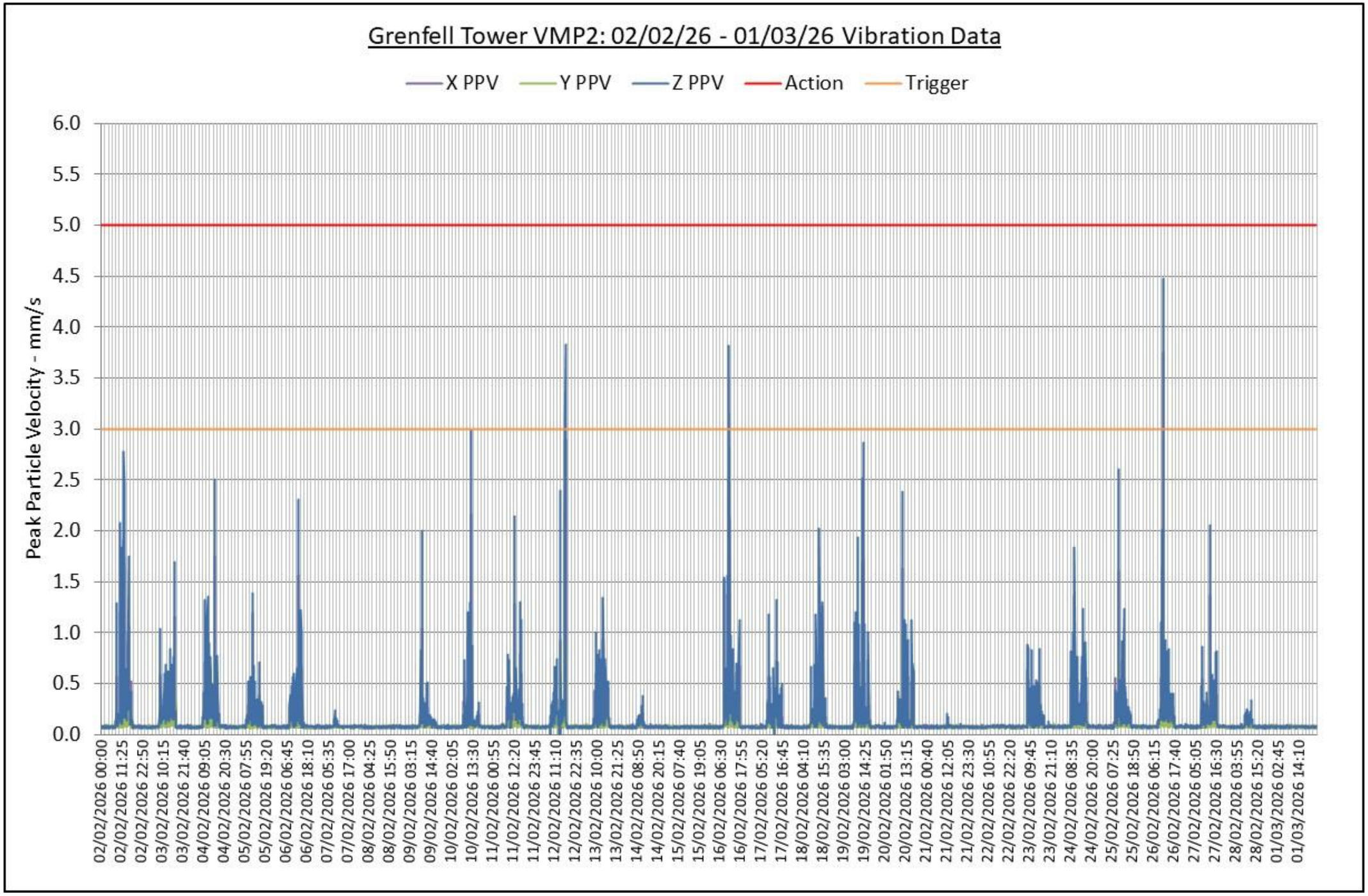
**Green Trigger Alerts are a pre-warning for site only. These are not actionable and therefore the green alerts are not reported on in this report. Amber are a warning for site and red alerts are exceedances which require investigation and mitigation measures.*

5. Measurement Results

The results of the Vibration measurements in this period are presented graphically in Section 6 of this report.

6. Vibration Monitoring Graphs




Grenfell Tower VMP2: 02/02/26 - 01/03/26 Vibration Data
X PPV
Y PPV
Z PPV
Action
Trigger
Peak Particle Velocity - mm/s
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
02/02/2026 00:00
02/02/2026 11:25
02/02/2026 22:50
03/02/2026 10:15
03/02/2026 21:40
04/02/2026 09:05
04/02/2026 20:30
05/02/2026 07:55
05/02/2026 19:20
06/02/2026 06:45
06/02/2026 18:10
07/02/2026 05:35
07/02/2026 17:00
08/02/2026 04:25
08/02/2026 15:50
09/02/2026 03:15
09/02/2026 14:40
10/02/2026 02:05
10/02/2026 13:30
11/02/2026 00:55
11/02/2026 12:20
11/02/2026 23:45
12/02/2026 11:10
12/02/2026 22:35
13/02/2026 10:00
13/02/2026 21:25
14/02/2026 08:50
14/02/2026 20:15
15/02/2026 07:40
15/02/2026 19:05
16/02/2026 06:30
16/02/2026 17:55
17/02/2026 05:20
17/02/2026 16:45
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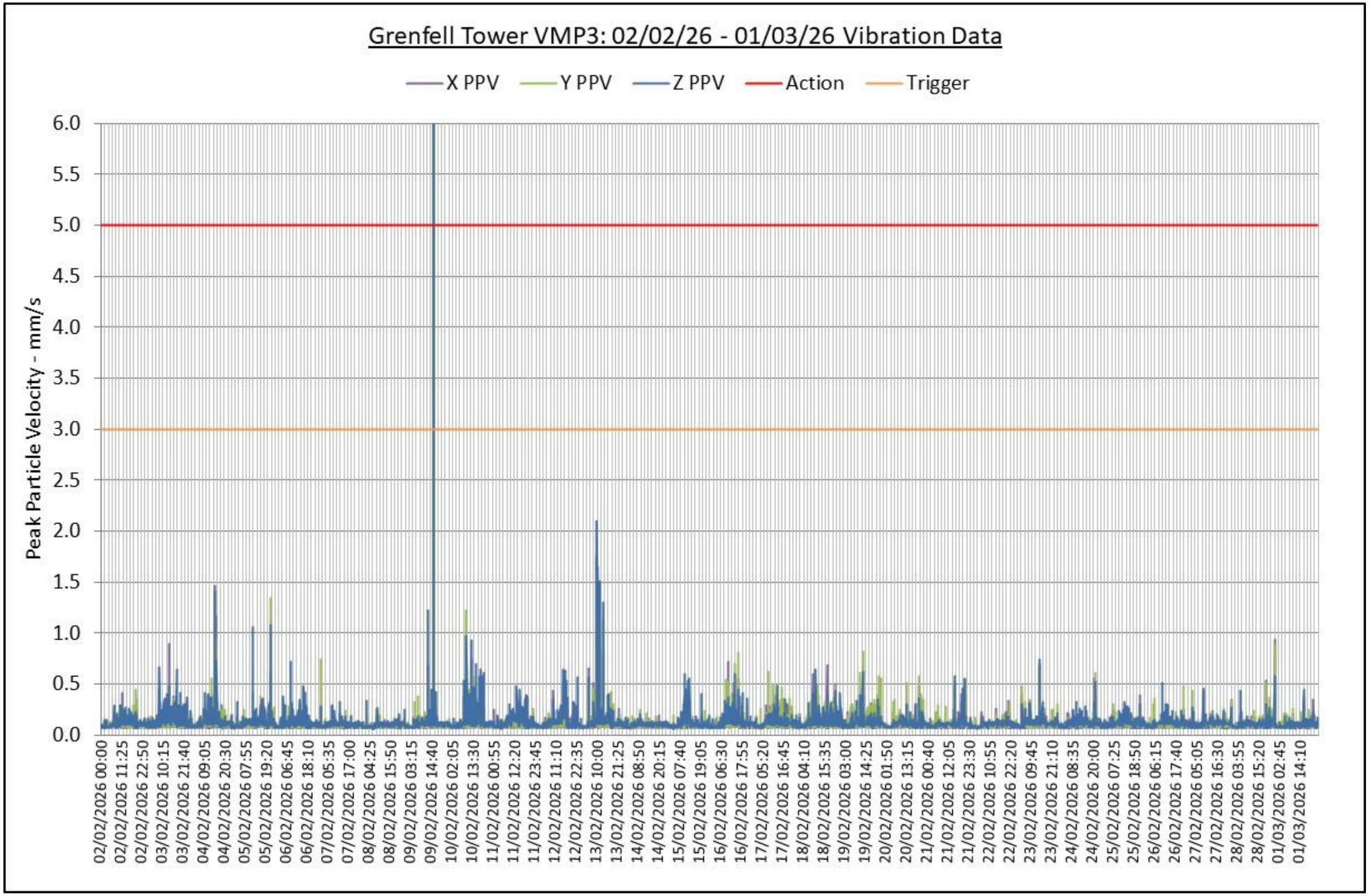
26/02/2026 06:15
26/02/2026 17:40
27/02/2026 05:05
27/02/2026 16:30
28/02/2026 03:55
28/02/2026 15:20
01/03/2026 02:45
01/03/2026 14:10


Grenfell Tower VMP3: 02/02/26 - 01/03/26 Vibration Data
X PPV
Y PPV
Z PPV
Action
Trigger
Peak Particle Velocity - mm/s
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
02/02/2026 00:00
02/02/2026 11:25
02/02/2026 22:50
03/02/2026 10:15
03/02/2026 21:40
04/02/2026 09:05
04/02/2026 20:30
05/02/2026 07:55
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