

Memorandum

ARUP

To Travis Searle

Date
24/01/2022

Copies

Reference number
267798-03

From Omar El-Hawat, Pranav Rawal

Subject Campbelltown Hospital Redevelopment– Medical Imaging Facility: Summary of Recently Recorded Vibration Data

This memo summarises the vibration data collected over the past week of 16/01/2022 to 22/01/2022 at the Medical Imaging Facility at Campbelltown Hospital Redevelopment.

Figure 1 below shows the measured vibration levels at the Medical Imaging Facility and is presented against various acceptability criteria. For reference, the current trigger level, based on typical equipment is $V_{RMS} = 0.0375$ mm/s.

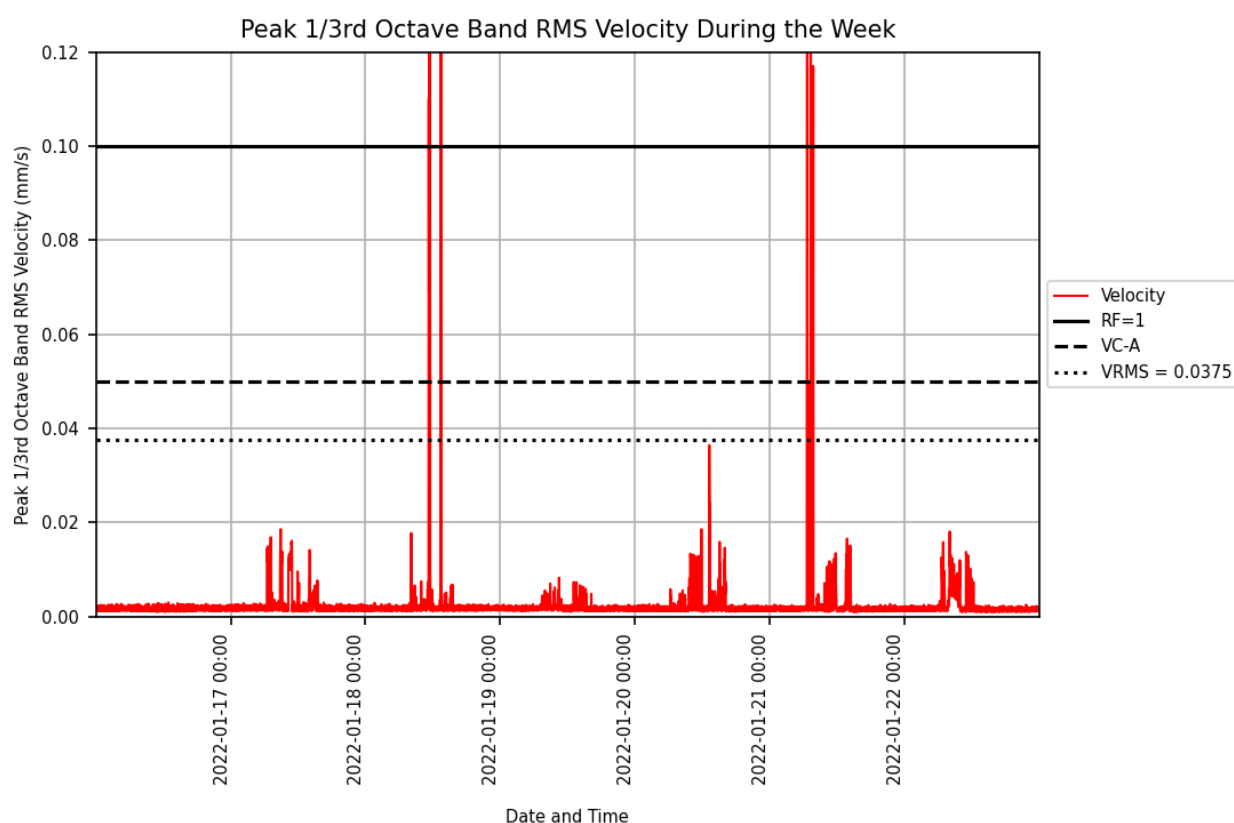


Figure 1: Measured vibration levels for 16/01/2022 to 22/01/2022 at the Medical Imaging Facility.

All events that exceed the trigger level during the monitored period are reported below.

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Table 1: Table of events exceeding acceptability criteria

Date	Peak 1/3rd Octave Band V_{RMS} Vibration Level (mm/s)
18/01/2022 11:15	0.1100
18/01/2022 11:17	0.0687
18/01/2022 11:19	0.1975
18/01/2022 11:21	0.0945
18/01/2022 11:23	0.0522
18/01/2022 11:25	0.0629
18/01/2022 11:27	0.1786
18/01/2022 11:29	0.1414
18/01/2022 13:22	0.0631
18/01/2022 13:24	0.1633
18/01/2022 13:26	0.1615
18/01/2022 13:28	0.1111
18/01/2022 13:30	0.1281
21/01/2022 06:36	0.0990
21/01/2022 06:38	8.8961
21/01/2022 07:10	0.0493
21/01/2022 07:16	0.4120
21/01/2022 07:42	0.1170

Further investigations of the acceleration patterns at times of exceedances can be performed upon request.