



## **SITE SURVEY VISIT**

**High bay laboratory**

**Harwell**

**19<sup>th</sup> November 2009**

**Richard Hey**

**Principal Technical Support Engineer**

# SITE SURVEY REPORT

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## **Disclaimer**

The data is correct on the day of measurement; however any subsequent changes to the electrical environment may adversely affect the instrument performance under some conditions. JEOL (UK) Ltd would be please to advise. Please contact Customer Support on 01707 377 117.

## **Disclosure**

The contents of this report should be treated as confidential by both sides and only disclosed to a third party with the agreement of the other side.

## **Health & Safety Executive (HSE) Notification for customer in the UK**

It is the customer's responsibility to notify the HSE and the local RPA (Radiation Protection Advisor) 28 days before installation of the intention to work with ionising radiation. The notification particulars are as follows:

Name and address

The nature of employers business

That the ionisation radiation is from an electron microscope

Date of installation

It should be noted that JEOL (UK) will issue a Critical Examination certificate when the installation is complete and annually when the planned maintenance is performed.



# SITE SURVEY REPORT

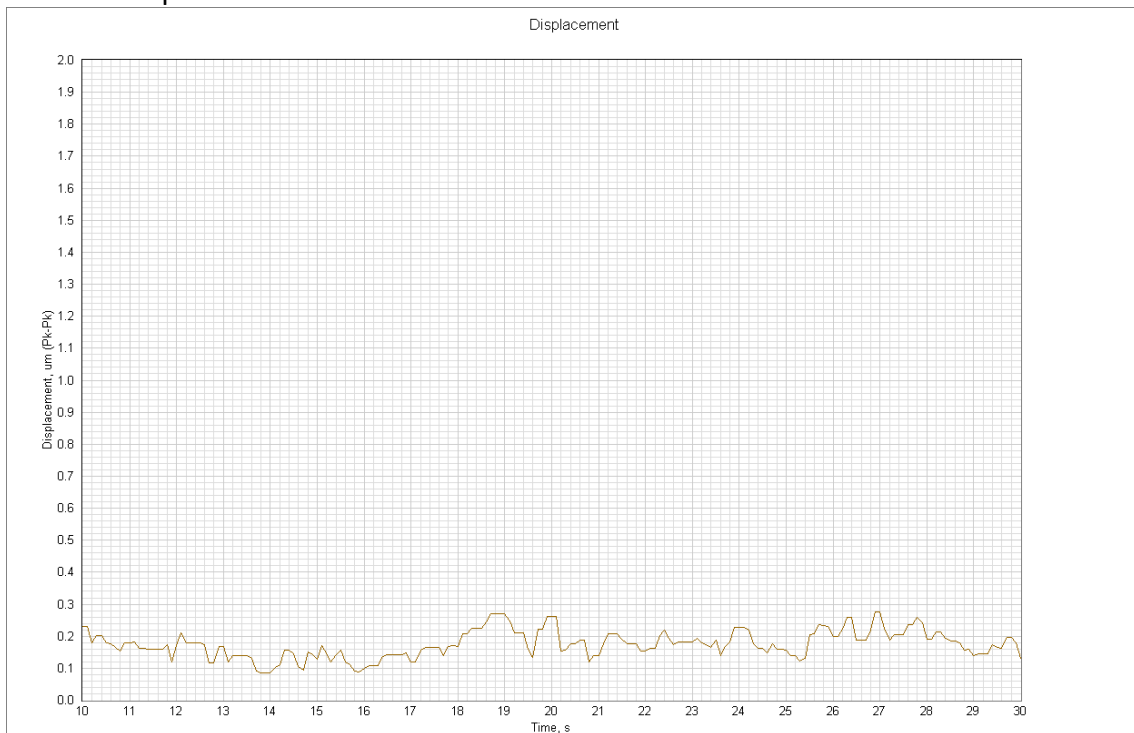
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The results given here are for the high bay laboratory that we were asked to test for vibration at the time of our site survey visit for the JEM 2100.

The first three charts below show mechanical vibration as displacement in microns. The ambient levels are very low, the effect of disturbance shows that the floor has a degree of “bounciness”.

The final two charts are of Spectral analysis of the vibration both in displacement and in acceleration.

## Ambient displacement

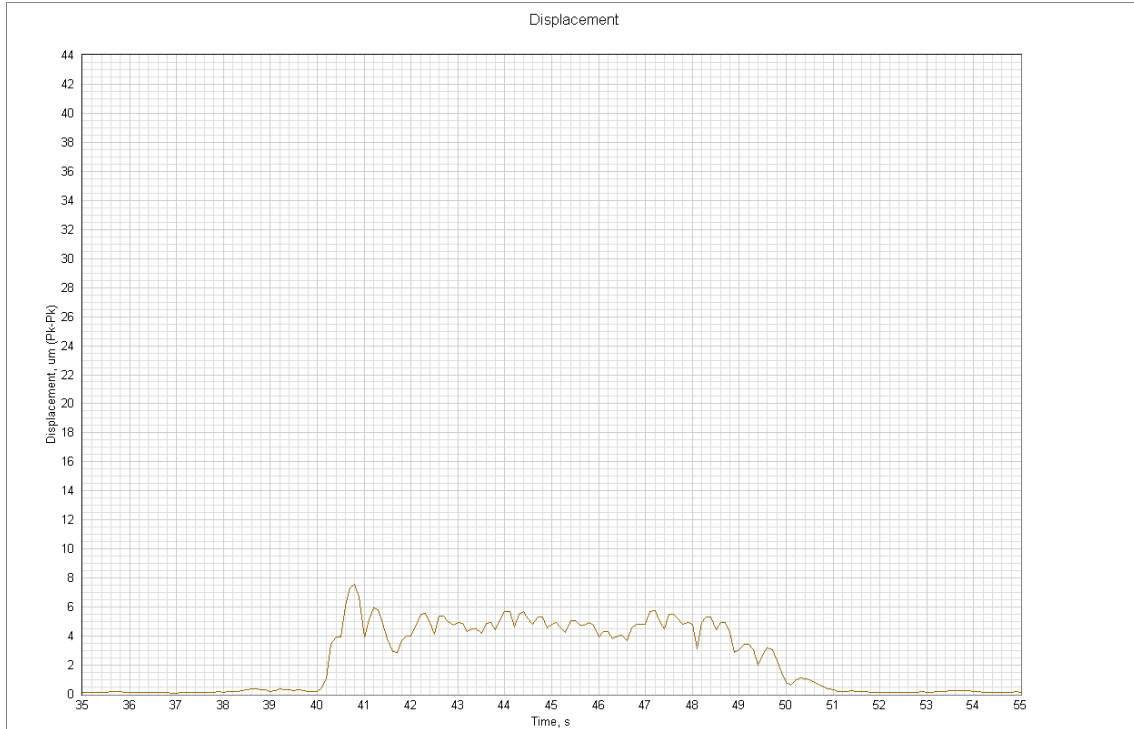




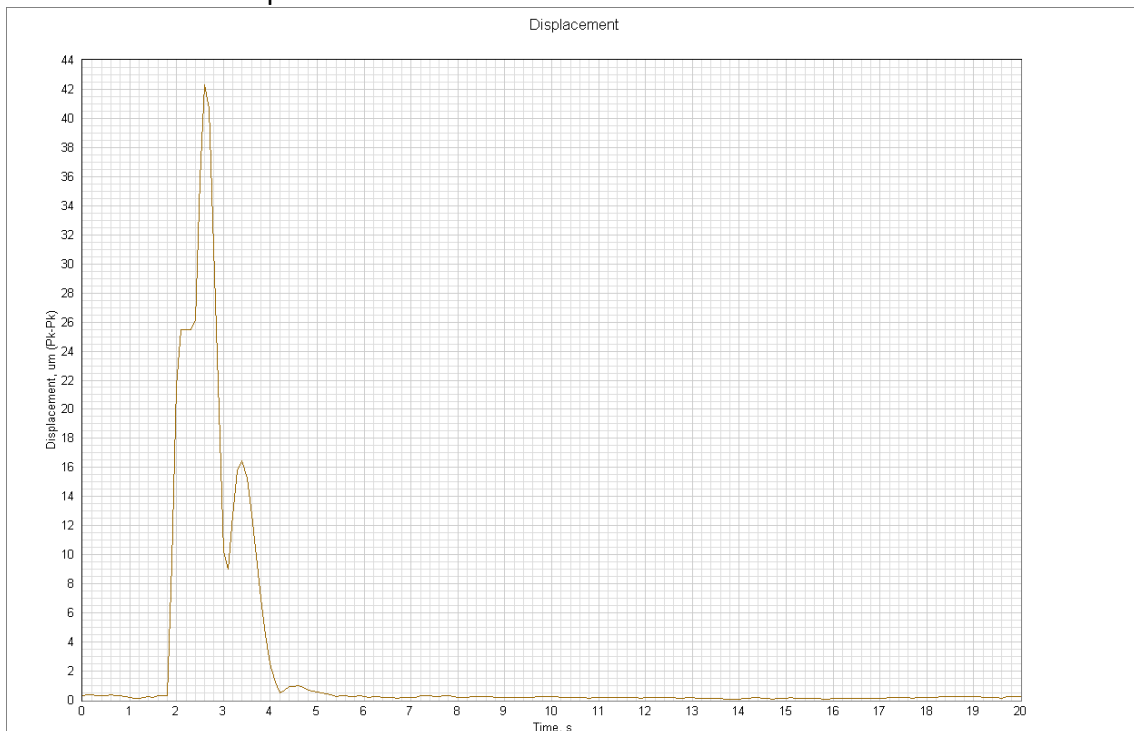
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## Effect of walking by the sensor



## Effect of a "heel drop"

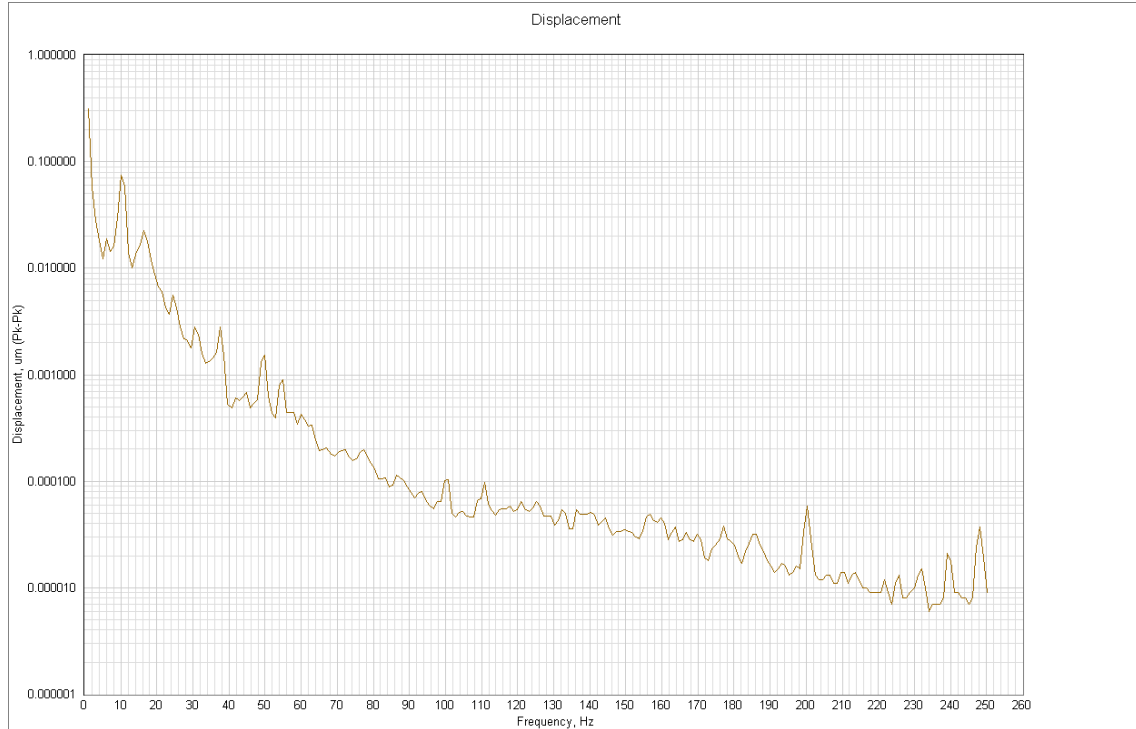




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## Spectral analysis (p-p displacement)



## Spectral analysis (p-p acceleration)

