1. PROJECT

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Title: The physiological and psychological effects of indoor environmental quality factors in determining a sustainable approach to future commercial office design & operation

Gary Middlehurst, EngD, University of Reading, **Oct 2012-**

Funding: UK ESPRC Engineering Doctor Training Grant (EP/G037787/1)

2. DATASET

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Title: Questionnaire survey results of respondents in four office buildings for Post-Occupancy Evaluation

Description: This dataset records the questionnaire survey results of post-occupancy evaluations conducted with occupants of four office buildings in the United Kingdom according to their subjective sensations.

For each building, three groups of main influential factors (Indoor Environment Quality, Occupants' Performance and Workplace Quality) were surveyed and a separate data file was created. The data can be used for building post-occupancy evaluation based on an analysis method such as the Analytic Hierarchy Process.

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Creators: Gary Middlehurst

Organisations: University of Reading

Rights-holder(s): Gary Middlehurst

3. TERMS OF USE

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4. CONTENTS

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File listing

AHP\_Survey\_Responses\_FP\_Summary.xlsx This file recorded survey results of 8 respondents in the building 'FP'.

AHP\_Survey\_Responses\_BS\_Summary.xlsx This file recorded survey results of 8 respondents in the building 'BS'.

AHP\_Survey\_Responses\_HP\_Summary.xlsx This file recorded survey results of 6 respondents in the building 'HP'.

AHP\_Survey\_Responses\_VE\_Summary.xlsx This file recorded survey results of 5 respondents in the building 'VE'.

As described above, each file represents the questionnaire survey results of a specified building considering three groups of main influential factors, the Indoor Environment Quality (IEQ) factors, the Occupants' Performance (OP) factors and the Workplace Quality (WQ) factors.

5. METHOD and PROCESSING

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The 9-point Likert rating scale was employed in the survey in order to assess the significance levels between two different determinants relating to Post-Occupancy Evaluation on the basis of the Analytic Hierarchy Process.

For more information about the 9-point Likert scale, please refer to the references in the following:

(a) Saaty, T. L. 2008. “Decision making with the analytic hierarchy process.” International journal of services sciences 1: 83–98.

(b) Srdevic, Z., Blagojevic, B. and Srdevic, B. 2011. “AHP based group decision making in ranking loan applicants for purchasing irrigation equipment: a case study.” Bulgarian Journal of Agricultural Science 17: 531–543.

In addition, the data was used to prepare a journal paper for submission to the Intelligent Building International journal (in preparation). More information can be found in the article once it is published.