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|------------------------|---|
| Student's Name: | <i>Kevin Michael Frank</i> |
| Student's UC ID number | <i>52670963</i> |
| Degree | <i>PhD</i> |
| Thesis Title: | <i>Fire Safety System Effectiveness for a Risk-Informed Design Tool</i> |
| Department/School: | <i>Civil and Natural Resource Engineering</i> |
| Senior Supervisor | <i>Michael J. Spearpoint</i> |
| Date: | <i>February 28, 2013</i> |

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Signatures

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| Student | <i>Kevin Frank</i> | Date: <i>Feb 28/2013</i> |
| Senior Supervisor | <i>M Jit</i> | Date: <i>Feb 28/2013</i> |
| Dean of Postgraduate Research | <i>[Signature]</i> | Date: <i>4.6.13</i> |
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- Chapter 7 of this thesis is based on a SFPE conference paper - K.M. Frank, M.C.M. Fleischmann, and C.A. Wade, Modelling the activation of multiple spatially distributed risk-informed design tool, 9th International Conference on Performance-Based Fire Safety Design Methods, Hong Kong, June 2012

Please detail the nature and extent (%) of contribution by the candidate:

The candidate wrote the text of the submitted paper and did all of the analytical work for it. The co-authors reviewed the paper and provided constructive feedback.

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| Name: | Signature: | Date: |
|--------------------|------------|------------|
| MICHAEL SPEARPOINT | M Spe | 28 Feb 201 |

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Chapter 3 of this thesis is based on a journal review paper that was submitted to Fire Science Reviews. It had not been accepted for publication at the time of thesis submission. The candidate was the lead author. This paper was primarily a review of existing sprinkler effectiveness studies.

Please detail the nature and extent (%) of contribution by the candidate:

The candidate wrote the text of the submitted paper. Some of the data from a previous publication by one of the co-authors (Neil Gravestock) was incorporated and referenced in the chapter. The primary function of the other co-authors was to review the paper and provided feedback.

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Name: Signature: Date:

MICHAEL SPEARPOINT

M. Spearpoint

28 Feb 2013