

UNDER

THE COMMISSIONS OF INQUIRY ACT 1908

IN THE MATTER OF

**ROYAL COMMISSION OF INQUIRY INTO
BUILDING FAILURE CAUSED BY
CANTERBURY EARTHQUAKES**

**KOMIHANA A TE KARAUNA HEI TIROTIRO I
NGA WHARE I HORO I NGA RUWHENUA O
WAITAHA**

AND IN THE MATTER OF

THE CTV BUILDING COLLAPSE

INTERPRETATION OF SECOND COMPUSOFT NTHA

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- 1) CompuSoft has carried out a further Non Linear Time History Analysis (NTHA), the results of which are set out in a report dated 13 July 2012 ('the second CompuSoft report').
- 2) Counsel assisting the Royal Commission request that experts attend to the matters set out below.
- 3) The following experts are requested to confer:
 - a) Dr Clark Hyland
 - b) Ashley Smith.
 - c) Rob Jury.
 - d) Derek Bradley/Barry Davidson/ Tony Stuart.
 - e) Professor John Mander.
 - f) Dr Brendon Bradley
- 4) Professor Nigel Priestley will also be requested to address the matters set out below and to participate in discussions, subject to his availability.
- 5) Professor Athol Carr will facilitate discussions between the experts and oversee the production of the joint report referred to in clause 7.
- 6) The experts are to address the following questions:
 - a) What do the results in the second CompuSoft report indicate about:
 - i) The response of the CTV Building to the earthquake at 4.35am on 4 September 2010?
 - ii) The response of the CTV Building to the earthquake at 12.51pm on 22 February 2011?
 - iii) Why the CTV Building failed on 22 February 2011?

- iv) The sequence of the failure of the CTV Building on 22 February 2011?
 - b) Do the results of the second Compusoft NTHA change any opinion they have expressed in evidence given or to be given to the Royal Commission in relation to:
 - i) The response of the CTV Building to the earthquake at 4.35am on 4 September 2010?
 - ii) The response of the CTV Building to the earthquake at 12.51pm on 22 February 2011?
 - iii) Why the CTV Building failed on 22 February 2011?
 - iv) The sequence of the failure of the CTV Building on 22 February 2011?
 - c) If the results of the second Compusoft NTHA change any opinion they have expressed, in what way has the opinion changed?
- 7) The experts are to attempt to reach agreement in relation to the questions set out in clause 6(a).
- 8) The experts are to produce a joint report by 23 July 2012 setting out the following in relation to clause 6(a):
- a) Areas of agreement.
 - b) Areas of disagreement, including the reasons for the disagreement.
- 9) Each expert is to produce an individual report to the Royal Commission by 23 July 2012 setting out their answers to the questions set out in clauses 6(b) and (c). If the experts opinion has changed, the report is to cite the particular evidence that has been or is to be given and to describe the way the opinion set out in that evidence has changed, including reasons.

Dated:17 July 2012.

Counsel Assisting