

**Initial Evaluation Procedure (IEP) Assessment - Waikato District Council**

**WARNING!!** This initial seismic evaluation process has been carried out solely as a screening tool in terms of the Waikato District Council's (WDC's) Earthquake-Prone, Dangerous and Insanitary Buildings Policy 2010 (Policy). This initial seismic assessment has been carried in accordance with the New Zealand Society for Earthquake Engineering document 'Recommendations for the Assessment and Improvement of the Structural Performance of Buildings in Earthquakes' using the Initial Evaluation Procedure (IEP) and has been prepared by Beca on the specific instructions of WDC. The purpose of the assessment is to identify buildings with potential seismic issues. It is not a detailed seismic assessment. Detailed inspections and engineering calculations, or engineering judgments based on them, have not been undertaken and they may lead to a different result or seismic grade. It is solely for the use of WDC and any use or reliance by any other person, is at that person's own risk.

<b>Street Number &amp; Name:</b>	<b>Gallileo St</b>	<b>Job No.:</b>	<b>5640440</b>
<b>AKA:</b>	<b>Unique Number:35-38 and 40</b>	<b>By:</b>	<b>Beca</b>
<b>Name of building:</b>	<b>WDC offices</b>	<b>Date:</b>	<b>26/04/2016</b>
<b>City:</b>	<b>Ngaruawahia, Waikato</b>	<b>Revision No.:</b>	<b>0</b>

**Table IEP-1 Initial Evaluation Procedure Step 1**

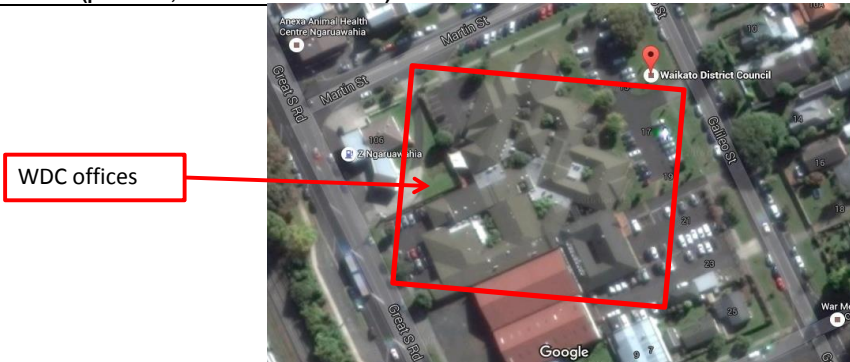
**Step 1 - General Information**

**1.1 Photos (attach sufficient to describe building)**



**NOTE: THERE ARE MORE PHOTOS ON PAGE 1a ATTACHED**

**1.2 Sketches (plans etc, show items of interest)**



**NOTE: THERE ARE MORE SKETCHES ON PAGE 1a ATTACHED**

**1.3 List relevant features (Note: only 10 lines of text will print in this box. If further text required use Page 1a)**

- Construction date: 2008 from WDC spreadsheet
- Light weight construction
- 1 storey
- Flat ground

**1.4 Note information sources**

Tick as appropriate

Visual Inspection of Exterior	<input checked="" type="checkbox"/>
Visual Inspection of Interior	<input type="checkbox"/>
Drawings (note type)	<input type="checkbox"/>

Specifications	<input type="checkbox"/>
Geotechnical Reports	<input type="checkbox"/>
Other (list)	<input checked="" type="checkbox"/>

WDC summary spreadsheet

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**Table IEP-2 Initial Evaluation Procedure Step 2**

**Step 2 - Determination of (%NBS)<sub>b</sub>**

(Baseline (%NBS) for particular building - refer Section B5)

**2.1 Determine nominal (%NBS) = (%NBS)<sub>nom</sub>**

	<u>Longitudinal</u>	<u>Transverse</u>
<b>a) Building Strengthening Data</b>		
Tick if building is known to have been strengthened in this direction	<input type="checkbox"/>	<input type="checkbox"/>
If strengthened, enter percentage of code the building has been strengthened to	N/A	N/A
<b>b) Year of Design/Strengthening, Building Type and Seismic Zone</b>		
	Pre 1935 <input type="radio"/>	Pre 1935 <input type="radio"/>
	1935-1965 <input type="radio"/>	1935-1965 <input type="radio"/>
	1965-1976 <input type="radio"/>	1965-1976 <input type="radio"/>
	1976-1984 <input type="radio"/>	1976-1984 <input type="radio"/>
	1984-1992 <input type="radio"/>	1984-1992 <input type="radio"/>
	1992-2004 <input type="radio"/>	1992-2004 <input type="radio"/>
	2004-2011 <input checked="" type="radio"/>	2004-2011 <input checked="" type="radio"/>
	Post Aug 2011 <input type="radio"/>	Post Aug 2011 <input type="radio"/>
<b>Building Type:</b>	<input type="text"/>	<input type="text"/>
<b>Seismic Zone:</b>	<input type="text"/>	<input type="text"/>
<b>c) Soil Type</b>		
From NZS1170.5:2004, Cl 3.1.3 :	D Soft Soil	D Soft Soil
From NZS4203:1992, Cl 4.6.2.2 : (for 1992 to 2004 and only if known)	Flexible	Flexible
<b>d) Estimate Period, T</b>		
<i>Comment:</i>	$h_n = 25$	$25$ m
	$A_c = 1.00$	$1.00$ m <sup>2</sup>
Moment Resisting Concrete Frames:	<input type="radio"/>	<input type="radio"/>
Moment Resisting Steel Frames:	<input type="radio"/>	<input type="radio"/>
Eccentrically Braced Steel Frames:	<input type="radio"/>	<input type="radio"/>
All Other Frame Structures:	<input type="radio"/>	<input type="radio"/>
Concrete Shear Walls	<input type="radio"/>	<input type="radio"/>
Masonry Shear Walls:	<input type="radio"/>	<input type="radio"/>
User Defined (input Period):	<input checked="" type="radio"/>	<input checked="" type="radio"/>
<i>Where <math>h_n</math> = height in metres from the base of the structure to the uppermost seismic weight or mass.</i>	<b>T: 0.40</b>	<b>0.40</b>
<b>e) Factor A:</b> Strengthening factor determined using result from (a) above (set to 1.0 if not strengthened)	<b>Factor A: 1.00</b>	<b>1.00</b>
<b>f) Factor B:</b> Determined from NZSEE Guidelines Figure 3A.1 using results (a) to (e) above	<b>Factor B: 1.00</b>	<b>1.00</b>
<b>g) Factor C:</b> For reinforced concrete buildings designed between 1976-84 Factor C = 1.2, otherwise take as 1.0.	<b>Factor C: 1.00</b>	<b>1.00</b>
<b>h) Factor D:</b> For buildings designed prior to 1935 Factor D = 0.8 except for Wellington where Factor D may be taken as 1, otherwise take as 1.0.	<b>Factor D: 1.00</b>	<b>1.00</b>
<b>(%NBS)<sub>nom</sub> = AxBxCxD</b>	<b>(%NBS)<sub>nom</sub> 100%</b>	<b>100%</b>

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**Table IEP-2 Initial Evaluation Procedure Step 2 continued**

**2.2 Near Fault Scaling Factor, Factor E**

If  $T \leq 1.5\text{sec}$ , Factor E = 1

a) Near Fault Factor,  $N(T,D)$

(from NZS1170.5:2004, Cl 3.1.6)

Longitudinal

Transverse

$N(T,D)$ :

b) Factor E

=  $1/N(T,D)$

Factor E:

**2.3 Hazard Scaling Factor, Factor F**

a) Hazard Factor, Z, for site

Location:  Refer right for user-defined locations

Z =  (from NZS1170.5:2004, Table 3.3)

$Z_{1992}$  =  (NZS4203:1992 Zone Factor from accompanying Figure 3.5(b))

$Z_{2004}$  =  (from NZS1170.5:2004, Table 3.3)

b) Factor F

For pre 1992

=  $1/Z$

For 1992-2011

=  $Z_{1992}/Z$

For post 2011

=  $Z_{2004}/Z$

Factor F:

**2.4 Return Period Scaling Factor, Factor G**

a) Design Importance Level, I

(Set to 1 if not known. For buildings designed prior to 1965 and known to be designed as a public building set to 1.25. For buildings designed 1965-1976 and known to be designed as a public building set to 1.33 for Zone A or 1.2 for Zone B. For 1976-1984 set I value.)

I =

b) Design Risk Factor,  $R_o$

(set to 1.0 if other than 1976-2004, or not known)

$R_o$  =

c) Return Period Factor, R

(from NZS1170.0:2004 Building Importance Level)

Choose Importance Level

1  2  3  4

1  2  3  4

R =

d) Factor G

=  $IR_o/R$

Factor G:

**2.5 Ductility Scaling Factor, Factor H**

a) Available Displacement Ductility Within Existing Structure

Comment:

Steel and concrete construction with brick elements

$\mu$  =

b) Factor H

For pre 1976 (maximum of 2)

=  $k_{\mu}$

=

For 1976 onwards

=

Factor H:

(where  $k_{\mu}$  is NZS1170.5:2004 Inelastic Spectrum Scaling Factor, from accompanying Table 3.3)

**2.6 Structural Performance Scaling Factor, Factor I**

a) Structural Performance Factor,  $S_p$

(from accompanying Figure 3.4)

Tick if light timber-framed construction in this direction

$S_p$  =

b) Structural Performance Scaling Factor

=  $1/S_p$

Factor I:

Note Factor B values for 1992 to 2004 have been multiplied by 0.67 to account for  $S_p$  in this period

**2.7 Baseline %NBS for Building, (%NBS)<sub>b</sub>**

(equals  $(\%NBS)_{nom} \times E \times F \times G \times H \times I$ )

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**Table IEP-3 Initial Evaluation Procedure Step 3**

**Step 3 - Assessment of Performance Achievement Ratio (PAR)**

(Refer Appendix B - Section B3.2)

**a) Longitudinal Direction**

potential CSWs	Effect on Structural Performance (Choose a value - Do not interpolate)	Factors
<b>3.1 Plan Irregularity</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant No plan irregularity		Factor A 1.0
<b>3.2 Vertical Irregularity</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant No vertical irregularity		Factor B 1.0
<b>3.3 Short Columns</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant No short column effect		Factor C 1.0
<b>3.4 Pounding Potential</b> (Estimate D1 and D2 and set D = the lower of the two, or 1.0 if no potential for pounding, or consequences are considered to be minimal)		

**a) Factor D1: - Pounding Effect**

**Note:**  
 Values given assume the building has a frame structure. For stiff buildings (eg shear walls), the effect of pounding may be reduced by taking the coefficient to the right of the value applicable to frame buildings.

**Factor D1 For Longitudinal Direction:** 1.0

Table for Selection of Factor D1	Separation		
	Severe 0<Sep<.005H	Significant .005<Sep<.01H	Insignificant Sep>.01H
Alignment of Floors within 20% of Storey Height	<input type="radio"/> 1	<input type="radio"/> 1	<input checked="" type="radio"/> 1
Alignment of Floors not within 20% of Storey Height	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input type="radio"/> 0.8

**b) Factor D2: - Height Difference Effect**

**Factor D2 For Longitudinal Direction:** 1.0

Table for Selection of Factor D2	Height Difference		
	Severe 0<Sep<.005H	Significant .005<Sep<.01H	Insignificant Sep>.01H
Height Difference > 4 Storeys	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input checked="" type="radio"/> 1
Height Difference 2 to 4 Storeys	<input type="radio"/> 0.7	<input type="radio"/> 0.9	<input type="radio"/> 1
Height Difference < 2 Storeys	<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1

Factor D 1.0

**3.5 Site Characteristics - Stability, landslide threat, liquefaction etc as it affects the structural performance from a life-safety perspective**

Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant	Factor E 1.0
--	--------------

**3.6 Other Factors - for allowance of all other relevant characteristics of the building**

For ≤ 3 storeys - Maximum value 2.5  
 otherwise - Maximum value 1.5.  
 No minimum.

Factor F 1.0

Record rationale for choice of Factor F:

**3.7 Performance Achievement Ratio (PAR)**  
 (equals A x B x C x D x E x F)

**PAR**  
 Longitudinal 1.00

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**Table IEP-3 Initial Evaluation Procedure Step 3**

**Step 3 - Assessment of Performance Achievement Ratio (PAR)**

(Refer Appendix B - Section B3.2)

**b) Transverse Direction**

potential CSWs	Effect on Structural Performance (Choose a value - Do not interpolate)	Factors
<b>3.1 Plan Irregularity</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Same as longitudinal		Factor A <input type="text" value="1.0"/>
<b>3.2 Vertical Irregularity</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Same as longitudinal		Factor B <input type="text" value="1.0"/>
<b>3.3 Short Columns</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Same as longitudinal		Factor C <input type="text" value="1.0"/>
<b>3.4 Pounding Potential</b> (Estimate D1 and D2 and set D = the lower of the two, or 1.0 if no potential for pounding, or consequences are considered to be minimal)		

**a) Factor D1: - Pounding Effect**

**Note:**  
 Values given assume the building has a frame structure. For stiff buildings (eg shear walls), the effect of pounding may be reduced by taking the coefficient to the right of the value applicable to frame buildings.

**Factor D1 For Transverse Direction:**

Table for Selection of Factor D1	Severe 0<Sep<.005H	Significant .005<Sep<.01H	Insignificant Sep>.01H
Alignment of Floors within 20% of Storey Height	<input type="radio"/> 1	<input type="radio"/> 1	<input checked="" type="radio"/> 1
Alignment of Floors not within 20% of Storey Height	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input type="radio"/> 0.8

Same as longitudinal

**b) Factor D2: - Height Difference Effect**

**Factor D2 For Transverse Direction:**

Table for Selection of Factor D2	Severe 0<Sep<.005H	Significant .005<Sep<.01H	Insignificant Sep>.01H
Height Difference > 4 Storeys	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input checked="" type="radio"/> 1
Height Difference 2 to 4 Storeys	<input type="radio"/> 0.7	<input type="radio"/> 0.9	<input type="radio"/> 1
Height Difference < 2 Storeys	<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1

Same as longitudinal

Factor D

**3.5 Site Characteristics - Stability, landslide threat, liquefaction etc as it affects the structural performance from a life-safety perspective**

Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant	Factor E <input type="text" value="1.0"/>
Same as longitudinal	

**3.6 Other Factors - for allowance of all other relevant characteristics of the building**

For ≤ 3 storeys - Maximum value 2.5  
 otherwise - Maximum value 1.5.  
 No minimum.

Factor F

**Record rationale for choice of Factor F:**

**3.7 Performance Achievement Ratio (PAR)**  
 (equals A x B x C x D x E x F)

**PAR**  
**Transverse**

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**Table IEP-4 Initial Evaluation Procedure Steps 4, 5, 6 and 7**

**Step 4 - Percentage of New Building Standard (%NBS)**

	Longitudinal	Transverse
4.1 Assessed Baseline %NBS (%NBS) <sub>b</sub> (from Table IEP - 1)	100%	100%
4.2 Performance Achievement Ratio (PAR) (from Table IEP - 2)	1.00	1.00
4.3 PAR x Baseline (%NBS) <sub>b</sub>	100%	100%
4.4 Percentage New Building Standard (%NBS) ( Use lower of two values from Step 4.3)		100%

**Step 5 - Potentially Earthquake Prone?** (Mark as appropriate) %NBS ≤ 34

**Step 6 - Potentially Earthquake Risk?** (Mark as appropriate) %NBS < 67

**Step 7 - Provisional Grading for Seismic Risk based on IEP** Seismic Grade

Additional Comments (items of note affecting IEP score)

**Relationship between Grade and %NBS:**

Grade:	A+	A	B	C	D	E
%NBS:	> 100	100 to 80	79 to 67	66 to 34	33 to 20	< 20

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**Table IEP-5 Initial Evaluation Procedure Step 8**

**Step 8 - Identification of potential Severe Critical Structural Weaknesses that could result in significant risk to a significant number of occupants**

- 8.1 Number of storeys above ground level 1
- 8.2 Presence of heavy concrete floors and/or concrete roof? (Y/N) N

**Occupancy not considered to be significant - no further consideration required**

**Risk not considered to be significant - no further consideration required**

**IEP Assessment Confirmed by** Beca **Signature**

on behalf of WDC **Name**

**CPEng. No**

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**Table IEP-1a Additional Photos and Sketches**

**Add any additional photographs, notes or sketches required below:**

*Note: print this page separately*



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