# 17 Operations Resilience

Resilient

## Submission information

Provide the following information for the submission

|  |  |
| --- | --- |
| **Submission type** | Choose an item. |
| **Performance level targeted** | [ ]  Credit Achievement |
| **Points targeted** | Click or tap here to enter text. |

#### Technical Questions

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| There are project-specific technical questions for this credit and all responses received from the NZGBC are included in the submission. | Choose an item. |

#### Discussion

Narratives will help the Assessors understand how the project complies with the credit. Please include a narrative below, but note that simply listing the credit requirements is not helpful. Instead, outline any other issues that need to be considered by the Assessment Panel.

Click or tap here to enter text.

#### Changes between Rounds

If applicable, please use the text box below to explain any changes between Round 1 and Round 2. This is an opportunity for the GSAP to describe how they have addressed the Assessors comments in Round 2.

Click or tap here to enter text.

## Submission template

### Credit Achievement

#### Comprehensive Risk Assessment

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| **A suitable qualified professional has authored the operations resilience assessment.** |[ ]
| **Indicate where the following requirements have been met in the operations resilience assessment (provide references to documentation):** |
| * Identify a set of clear resilience objectives and performance goals for the building
 | Click or tap here to enter text. |
| * Collaborate with key internal and external project stakeholders, including community representatives, to identify and confirm the relevant acute shocks and chronic stresses likely to impact the functionality of the building and its ability to meet performance goals
 | Click or tap here to enter text. |
| * Identify and confirm the interdependent infrastructure systems, networks, services, and assets the building relies on
 | Click or tap here to enter text. |
| * Identify key areas of system vulnerability, specifically how these may be affected by the identified shocks and stresses that may impact the building through reduced capacity and/or functionality
 | Click or tap here to enter text. |
| * Outline response procedures in the event of an identified shock event impacting the building and the local community
 | Click or tap here to enter text. |
| * Consult with relevant authorities with regards to evacuation procedures and emergency actions
 | Click or tap here to enter text. |
| **Indicate where the following shocks have been addressed in the assessment (provide references to documentation):** |
| * Failure of critical infrastructure (power, water and digital)
 | Click or tap here to enter text. |
| * Health pandemic
 | Click or tap here to enter text. |
| * Water security
 | Click or tap here to enter text. |
| * Geological hazards (landslides, earthquakes, tsunamis)
 | Click or tap here to enter text. |
| * Direct attack (cyber and physical)
 | Click or tap here to enter text. |
| **Indicate where the following stresses have been addressed in the assessment (provide references to documentation):** |
| * Ageing infrastructure
 | Click or tap here to enter text. |
| * Rising cyber dependency
 | Click or tap here to enter text. |
| * Increasing energy costs
 | Click or tap here to enter text. |
| * Lack of transport accessibility and availability
 | Click or tap here to enter text. |
| **Identify any other additional shocks and stresses addressed in the assessment.**Click or tap here to enter text. |

#### Managing Risks

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| **Outline the risks rated as 'Extreme' and the specific design responses addressing them.**Click or tap here to enter text. |
| **Outline the risks rated as 'High' and the specific design or future operational responses addressing them.**Click or tap here to enter text. |
| **Regardless of risk rating, outline at least two risks and the specific design responses addressing them.**Click or tap here to enter text. |

#### Supporting documentation

Identify where evidence supporting the information provided can be found in the documentation.

|  |  |  |
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| Document name | Document description | Page number(s) |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |

#### Addressing Power Loss

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| **The building's survivability in the case of a blackout was assessed.** |[ ]
| **Indicate where the following requirements have been identified in the assessment (provide references to documentation):** |
| * The design purpose of the building, and the potential for the building to be occupied in the case of a blackout
 | Click or tap here to enter text. |
| * The needs of occupants in such a situation
 | Click or tap here to enter text. |
| * The servicing needs of that building to ensure the occupants are safe during the blackout
 | Click or tap here to enter text. |
| * The appropriate duration that the building can maintain its design purpose during the blackout
 | Click or tap here to enter text. |
| * How the building can remain safely habitable after a blackout (specifically fire systems, ventilation, temperature, water pumping and vertical transportation)
 | Click or tap here to enter text. |
| * How the building will be able to operate in island mode, with consideration to loss of internet services for the Building Management System or for situations where the building is being powered on-site.
 | Click or tap here to enter text. |

#### Supporting documentation

Identify where evidence supporting the information provided can be found in the documentation.

|  |  |  |
| --- | --- | --- |
| Document name | Document description | Page number(s) |
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## Declaration

Provide the following details as confirmation that the information provided in this document is truthful and accurate at the time of completion.

|  |  |
| --- | --- |
| **Name** | Click or tap here to enter text. |
| **Position** | Click or tap here to enter text. |
| **Email** | Click or tap here to enter text. |
| **Date** | Click or tap to enter a date. |