



Bell Block Site

Safety Case Summary



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What is the purpose of this summary brochure?

This brochure provides an easily understood summary of the Aica Bell Block Safety Case that was accepted in March 2020. It explains why a safety case is required and what information it contains

The brochure provides insight into how the Aica Bell Block site operates safely through a mature and well established management system that includes hazard identification, risk assessment and emergency planning processes

This summary is available at www.aicanz.co.nz



Bell Block Production Site

Aica New Zealand The Bell Block production The site in Bell Block Limited operates the Bell site takes hazardous accepts methanol from Block production site. chemicals and processes the Methanex pipeline. A This site contains a them through to small volume of process plant, and adhesive solutions that methanol is stored in an storage tanks located at add value to the building onsite tank to buffer Corbett Road, Bell Block, and speciality adhesive supply variations. New Plymouth. industries. The site Methanol is used as feed houses both continuous stock for the continuous and also batch type and batch processes. chemical processes.

Specified Hazardous Substances

The Aica Bell Block facility has been identified as an upper tier Major Hazard Facility under the Health and Safety at Work (Major Hazard Facilities) Regulations 2016. The site receives, stores and processes materials that are classified as specified hazardous substances according to schedule 2 of the Major Hazard Facility Regulations (MHF)

Specified Hazardous Quantities Onsite substances

Methanol

Approximately 20m³

Formaldehyde

Approximately 900m³

All hazardous substances are stored and processed in appropriately rated equipment. The health of the equipment is independently verified through external audits on a regular basis



What is a safety case?

The MHF regulations require that all upper tier Major Hazard Facilities have a safety case that is approved by Worksafe in order to operate. The safety case is a written summary of the systems that are in place and used to identify hazards, risks, and the appropriate controls that are in place to reduce the risk of these hazards so far as is reasonably practicable. Aica is required to have this safety case reviewed every five years by Worksafe.

A **Major Incident** is defined in the MHF regulations as involving specified hazardous substances; and exposing multiple persons to a serious risk to their health or safety (including a risk of death) arising from an immediate or imminent exposure to specified hazardous chemicals

The Safety Case contains the following sections

- **Description of Plant and Process**
 - Design and purpose of plant
- **Safety Management System**
 - How risk is managed
- **Emergency Response Plans**
 - What actions will be taken if the worst was to happen
- **Safety Assessments**
 - Methods and results of hazard identification
- **Committed Actions**
 - Actions Aica have committed to in order to ensure that risk is reduced so far as is reasonably practicable

While preparing the Aica Safety case, we have involved workers that are onsite on a regular basis, specialists, and external agencies



Safety Management System

OUR SAFETY MANAGEMENT SYSTEM

OUR GOALS

- ☒ Zero Injury
- ☒ Zero Process Safety Accident
- ☒ Zero non Compliance

We take safety seriously, the safety of our workers, and the general public is paramount.

AICA is committed to major incident prevention and management as a company objective. To achieve this we have many systematic and structured processes in place that allow for the identification, and elimination or minimisation of hazards

The performance of these systems is monitored and reviewed on an annual basis. The effectiveness of these systems is reported on a regular basis to both the senior management team and to our Board of Directors

Members of the senior management team practice an “open door” policy, where workers can have one on one conversations with leadership.



The Bell Block
site is manned
or remotely
monitored

24

hours a day

Safety Assessments

AICA have carried out detailed process safety studies with the help of subject matter experts and on site workers to identify major incident hazards in the process's carried out at the Bell Block production site.

These studies are formal, documented, and follow approved methods of identifying risk

The studies were used to provide Aica with an overall assessment of the current controls and what was required for improvement



The safety studies combine both qualitative and quantitative techniques and are used to ensure that risk reduction measures are correctly assessed.

Process Safety Engineers continuously review these assessments to ensure AICA's controls remain appropriate

Potential Major Incidents

Our safety assessment processes have identified the following scenarios have the potential to occur:

- Fire due to flammable liquid release.
- Toxic vapour release due to spillage.
- Explosion due to process malfunction.

Explosions and fire effects are expected to be limited to the Bell Block Site

Computer modelling has been conducted in order to determine the affected areas for all Major Incidents

OFF-SITE IMPACTS

While it is unlikely that an event will occur that could extend beyond the site boundary, computer modelling has shown that there is the potential for toxic vapour to extend beyond the boundary limits. If an incident occurs it could have the following consequences:

- Potential for offsite odour depending on wind direction and strength
- Potential for visible smoke
- Potential explosion noise
- Temporary health effects; e.g. Breathing difficulty and eye irritation
- Potential disruption due to emergency services activity and road closures

Most accidental releases do not result in fire, explosion, or toxic release and can be handled through the installed safety systems

The Bell Block site is designed as a stand-alone facility with equipment for capturing any spills and preventing unwanted environmental effects

Emergency Response Plan

What to do in an emergency

A site siren will activate to alert on-site personnel of a major incident which will initiate emergency procedures. In the event of an emergency site personnel will evacuate to the muster point, and await further instructions from the Incident Controller.

Fire and Emergency New Zealand (FENZ) will assume control of any major incident on arrival at the site in collaboration with AICA personnel, local authorities, and emergency services

Local Community

Emergency Actions:

The local site siren at AICA does not require any actions from people outside of the AICA boundary. If action is to be taken by others then AICA will send out an emergency text message to those concerned.

The local community will be updated during a major incident and AICA asks that you follow all instructions provided to you

General Advice

1. Remain indoors, close all windows and doors, turn off all ventilation systems
2. Check your phone for any text message instructions from AICA
3. Turn on a radio and listen to a local radio station
4. Stay away from the Bell Block site.
5. If advised to do so by police, FENZ or AICA, please self-evacuate
6. Seek medical attention if you feel impacted

**AICA test the emergency
plan 4 times per year**



For Further Information

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