



Port Nelson Tank Farm Facility

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What is the purpose of this summary brochure?

This brochure provides an easily understood summary of the AICA Port Nelson Facility site safety case that was accepted in December 2019. It explains why a safety case is required and what information it contains

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

About the AICA Port Tank Farm Facility

AICA New Zealand Limited operates the Port Nelson tank farm, this site contains onsite chemical storage and equipment located at Carkeek Street Port Nelson.

The Port tank farm site receives methanol and stores it for further production at a separate facility.

The site in accepts methanol shipments from AICA's facility at Port Nelson. These chemicals are stored in bulk tanks and then used as feed stock for the continuous or batch processes

Specified Hazardous Substances

The AICA Port Tank Farm 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 substances

Methanol

Quantities Onsite

Approximately 5000m³

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 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 worker and 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, elimination and minimisation of hazards

The performance of these systems is monitored through various systems and reviewed fully 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 have the ability to have one on one conversations with leadership

AICA Port Nelson is remotely monitored 24 hours per 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 each process carried out on the Port Nelson Tank Farm Facility.

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

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

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 will extend beyond the Port Nelson Site Facility, 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 because they can be handled quickly and easily by the staff on site

The Port Nelson Tank Farm Facility is designed with equipment for capturing any spills and preventing any 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 immediately evacuate to the initial muster point, await further instructions from the Incident controller –DO NOT START OR TAKE VEHICLES PAST THE SITE

Fire and Emergency New Zealand (FENZ) will assume control of any major incident on arrival at the site in collaboration with AICA, 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 Port Nelson Facility.
5. If advised to do so by police, FENZ or AICA, please self-evacuate
6. Seek medical attention if you feel impacted.

Further information can be obtained by contacting the following people

Lane Glentworth

HSE / Training Manager
Lane.Glentworth@AICA-ap.com
06 968 1800

Issue date - 11/12/2019

Finn Cathie

Process Safety Engineer
Finn.Cathie@AICA-ap.com
06 968 1800