



NEW ZEALAND OIL SERVICES LIMITED

Taranaki Terminal Safety Case Summary

Summary Handbook

New Zealand Oil Services Limited

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What is the purpose of this handbook?

→ This handbook provides an easily understood summary of the NZOSL Taranaki Terminal Safety Case submitted on 4th April 2018. It briefly explains why and when a Safety Case is required, what a Safety Case is and what important information it contains, and emergency response information and action requirements for onsite personnel and the local community.

→ In general, this handbook provides insight into how the NZOSL Taranaki Terminal operates safety through a well-established management system, robust hazard identification and risk assessment processes and detailed emergency systems that NZOSL have in place.

→ This summary is available publicly at www.nzosl.co.nz. See the “Further Information” section of this handbook if you would like a copy.

Taranaki Terminal

The Taranaki Terminal is a bulk fuel storage terminal located 5km west of the city centre and 3km south west of Port Taranaki within the Omata tank farm at 283 Centennial Drive, New Plymouth. The Terminal is owned by Port Taranaki, and leased to BP Oil NZ Ltd (BP). BP has appointed New Zealand Oil Services Ltd (NZOSL) as the Operator.

The MHF Regulations require all upper tier MHFs to develop a safety case that demonstrates all major incidents are identified and adequate controls will be in place to minimise the risks of these incidents so far as is reasonably practicable.

The Taranaki Terminal Safety Case will be maintained and updated in accordance with NZOSL and legislative requirements, in particular the MHF Regulations. Ongoing changes will be documented through change control.

Specified Hazardous Substances

Storage and distribution of hazardous substances at NZOSL facilities is managed in compliance with the Hazardous Substances and New Organisms Act and the Health and Safety at Work Act, in particular, the Major Hazard Facilities Regulations 2016 and the Hazardous Substances Regulations 2017.

Specified Hazardous Substance	Quantities Onsite (million litres)
Regular Motor Spirit	8.2
AGO – Diesel	16.7



What is a Safety Case?

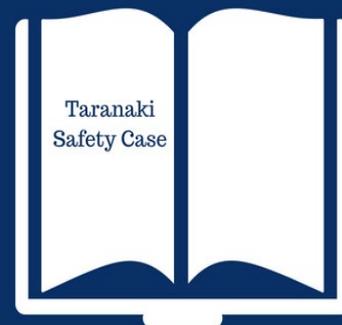
The MHF Regulations require upper tier Major Hazard Facilities to develop a 'Safety Case' that demonstrates all major incidents are identified and adequate controls will be in place to minimise the risks of these incidents so far as is reasonably practicable.

A major incident is defined in the regulations as an uncontrolled event at a Major Hazard Facility that involves specified hazardous substances (e.g. gasoline, aviation fuel) and exposes multiple persons to a serious risk to their health or safety.

The NZOSL Safety Case is a written demonstration that the NZOSL has the ability and means to operate the terminal safely through a well-established management system, robust hazard identification and risk assessment process and detailed emergency systems. It provides assurance to workers, emergency services, the community and others that the potential for major incidents has been systematically assessed and that effective and suitable controls are in place.

The Safety Case comprises of the following main sections:

- Facility Description
- Safety Management System Summary
- Safety Assessment Summary
- Emergency Response Plan Summary



While preparing the Safety Case, we have engaged with the workers from different levels including our staff (engineering, operations and maintenance), specialists/contractors, WorkSafe NZ, and external agencies such as Fire and Emergency New Zealand. The Safety Case is provided to WorkSafe NZ for routine review and is maintained and updated in accordance with NZOSL and legislative requirements.

Safety Management System

Our Health, Safety and Environmental Management System is in place for the management of major incident hazards identified at the terminal. It provides a comprehensive and integrated system for the safe operation of the facility and the management of all aspects of risk control to ensure the safety of our staff, contractors, visitors and the general public. The Health, Safety and Environmental Management System is NZOSL's primary means of ensuring the safe operation of the facility and states our safety objectives and describes the systems, processes and procedures that are used to achieve these objectives.

Performance of these various systems and control measures against Business Key Performance Indicators is tracked monthly, published quarterly to the Board in the Quarterly Board HSSE & Risk Meeting Report and Shareholders, Quarterly Shareholder Review Report .

NZOSL's Key Performance Indicators are structured and a target is set for NZOSL by the Board.



NO HARM

'No harm – to people or to the environment'



Our Mission

To provide NZ's safest and most efficient bulk fuel storage and handling through passionate people delivering excellent outcomes.

Safety Assessment

NZOSL conducted a Safety Assessment for the Taranaki Terminal. The purpose of the safety assessment is to apply a systematic approach to the identification and evaluation of hazards with the potential to lead to a major incident, and how these can be either eliminated or managed with suitable controls. The safety assessment focuses on answering key questions at each stage of the process, as seen here.

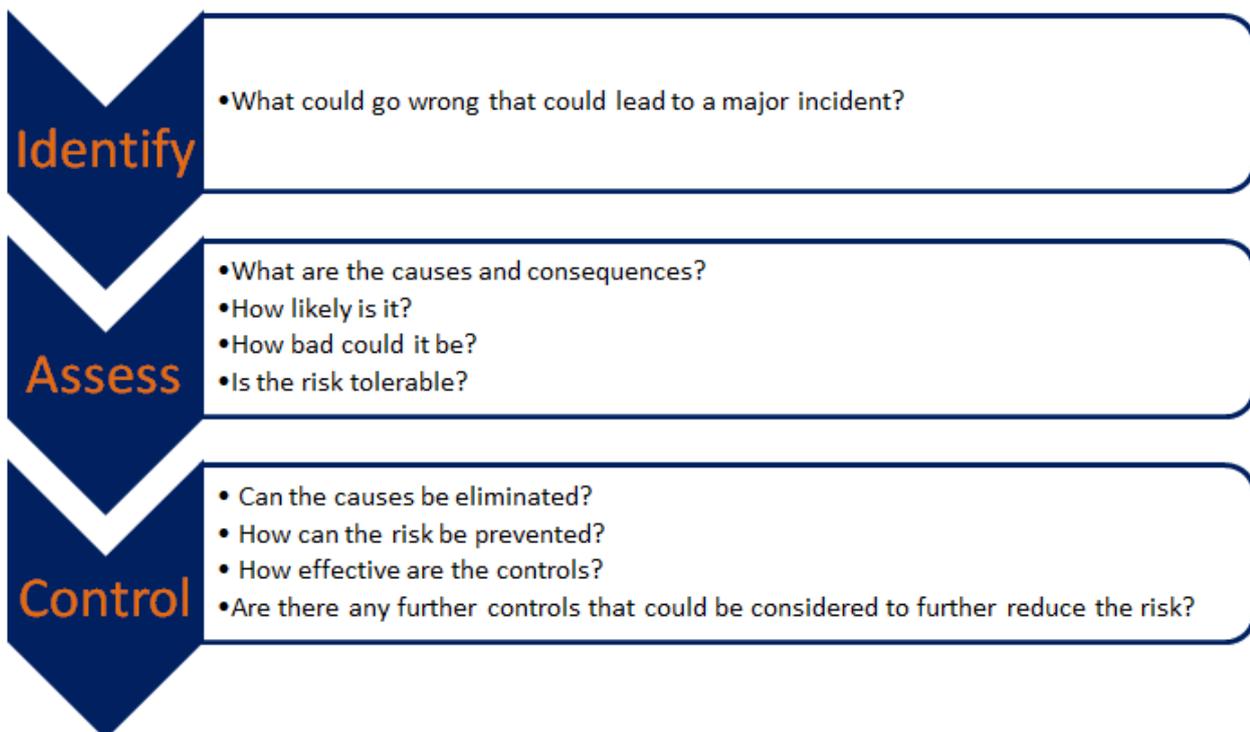
NZOSL has conducted a range of Safety Assessments including Major Incident Hazard Identification Workshop, Bowtie Development and SFAIRP Demonstration.

Specific details for each of the major incidents identified for Taranaki Terminal are documented in a Major Incident Hazard Register and Bowtie Diagrams. Discussion is also provided on the safety assessment studies carried out.

Major Incident Control Measures

Major incident control measures have been identified for each major incident hazard that are in place to either prevent the incident from occurring or limit the consequence effect of the incident.

Major incident control measures are tested and maintained through NZOSL's maintenance procedure system.



Emergency Response Plan

The NZOSL Taranaki Terminal specified hazardous substance is gasoline which is a flammable liquids stored and processed on site. Taranaki Terminal also stores diesel which is not flammable.

In addition to any on site impact, the identified major incidents that could possibly affect the local community are events that cause a loss of containment of flammable product. These include release of gasoline fuel from storage tanks or process equipment that, if ignited could result in a fire or explosion.

Most accidental releases of hydrocarbons do not result in a fire or explosion as they are easily and quickly dealt with on site to prevent hard or environmental damage.

Potential major incidents at the Taranaki Terminal are highly unlikely to have a direct impact beyond the site boundary and affect the public.

In the unlikely event of a major incident involving the Taranaki Terminal, Emergency Services will be alerted and appropriate terminal emergency responses will be followed.

The Taranaki Terminal Emergency Response Plan details all emergency response related information including emergency systems, processes, procedures, equipment, resources and Emergency Management Guides which details actions that should be taken in the event of a major incident.

The Emergency Response Plan has been developed by NZOSL and reviewed by local authorities including Fire and Emergency New Zealand and the local police. NZOSL has also undertaken community consultation to neighbouring facilities.



What to do in an Emergency

On site Emergency Response Actions

- ➔ A site siren is sounded to alert on site personnel of a major incident and will activate the Emergency Response Procedures. In the event of a major incident, immediately evacuate the terminal by following the directions of the Fire Wardens to the assembly area. Personnel shall then wait in the assembly area until further instructions are given.
- ➔ Fire and Emergency New Zealand will assume control of any major incident emergency on arrival at the terminal in collaboration with NZOSL, local authorities and other emergency service organisations (e.g. New Zealand Police, Civil defence)
- ➔ Follow any emergency action instructions provided by NZOSL, emergency employees and emergency service organisations. The emergency declaration remains in effect until the all clear has been given by the NZOSL on-scene commander.

Local Community Notification and Emergency Response Actions

The site siren is sounded to alert on site personnel only and does not require any immediate community action. If there is a possibility of the public being affected in the event of a major incident related fire or explosion at the Taranaki Terminal, Police and Emergency Services will contact each of its neighbours and surrounding facilities to inform them.

The local community will be updated during a major incident emergency as required and NZOSL asks that you please follow any emergency action instructions provided in communication with local authorities or emergency service organisations (e.g. Fire and Emergency New Zealand, New Zealand Police) until you are informed of termination of the emergency.

Following a major incident emergency, the local community, neighbours and surrounding facilities will be provided with information about the major incident and actions being taken by NZOSL and/or local authorities.

General Advice for Local Community

1. Remain indoors, close windows and doors
2. Search social media and local radio for information
3. Please do not call the terminal
4. Stay away from the terminal
5. Adhere to road closure/diversions
6. Self-evacuate out of the area if you feel more comfortable
7. Seek medical attention if you feel impacted



Further Information

The information provided in this handbook will be reviewed and revised as required if a change is made to the NZOSL Taranaki terminal Safety Case and the major incident risks at the terminal.



NZOSL
VALUE WITH CONFIDENCE

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