Operating Requirements Manual May 2012

Version 1





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1 Introduction

This document sets out practices, standards, systems, protocols, requirements, rules, policies and other information in relation to or in connection with Train Control and the access to and use of the Network by Operators (including interface management and coordination requirements, safeworking procedures, safety standards, emergency and investigation procedures, requirements for the management of Network Incidents and environmental requirements).

The Glossary in section 9 sets out how this document should be interpreted and the meaning of certain terms and acronyms.

Where this document refers to standards or other documents that belong to Queensland Rail, Queensland Rail will make the relevant standard or document available to Operators.

This document will be updated by Queensland Rail from time to time. Operators should always refer to the current version of this document. Queensland Rail will maintain the current version of this document on its website.



2 Interface Risk Management

2.1 Interface Risk Management Plan

An **IRMP**, in relation to an Operator, is an interface risk management plan. An IRMP typically:

- (a) identifies the Interface Risks associated with the Operator's proposed operations;
- (b) specifies the control measures agreed between Queensland Rail and the Operator to manage those Interface Risks to an acceptable level, including:
 - (i) the standards, procedures and systems relevant to the management of the Interface Risks;
 - (ii) the relevant Interface Standards;
 - (iii) requirements for monitoring, awareness, competence and complaint handling; and
 - (iv) the audit, inspection and review regime;
- (c) identifies the party responsible for implementing each control measure under the IRMP; and
- (d) addresses requirements relevant to an interface agreement between Rail Transport Operators under the TRSA and the requirements under all other Laws relevant to the management of Interface Risks.

A reference above to "operations" includes "railway operations" as defined in the TRSA.

Typically, an Interface Risk Assessment will be undertaken, and an IRMP will be developed, as part of the negotiation of an Access Agreement. The Standard Access Agreement, for example, assumes this position.

2.2 Interface Risk Management Process

For the purposes of any review or amendment (or, if applicable, any undertaking or development) of an Interface Risk Assessment or an IRMP:

- (a) Queensland Rail and the Operator must:
 - (i) each nominate appropriately qualified and experienced representatives;
 - (ii) make all relevant information available to the other on a timely basis; and
 - (iii) use best endeavours to ensure that the information is accurate; and

Queensland Rail and the Operator will each provide relevant information to the other to assist with the identification of risks, for example:

- (i) Queensland Rail will provide the Operator with:
 - (A) a copy of any relevant environmental authorities held by Queensland Rail;
 - (B) a copy of any relevant environmental reports;
 - (C) a copy of Queensland Rail's Code of Practice for Railway Noise Management;
 - (D) any currently applicable noise levels or limits;





- (E) particulars of noise complaints and enforcement actions; and
- (F) any other information from Queensland Rail's Environmental Management System that Queensland Rail considers relevant to the management of environmental risks; and
- (ii) the Operator will provide Queensland Rail with:
 - (A) details of any additional hazards, risks and non-compliances;
 - (B) the types of products or commodities to be transported;
 - (C) details of any environmentally sensitive areas (including waterways) that may potentially be affected by the Operator's activities on the Network;
 - (D) the locations of any waterways;
 - (E) the anticipated environmental impact of the Operator's proposed activities;
 - (F) any approved or proposed environmentally relevant activities (as defined under the *Environmental Protection Act 1994* (Qld)); and
 - (G) any information in relation to any thing referred to in section 4.

2.3 Risks to the environment

Without limitation to the matters that must be considered and addressed in any Interface Risk Assessment and any IRMP, an Interface Risk Assessment and an IRMP must, in relation to risks to the environment:

- (a) comply with Queensland Rail's Code of Practice for Railway Noise Management and all other relevant noise management standards, regulations and other relevant Laws including any currently applicable noise levels or limits;
- (b) where noise from the Operator's Train Services may cause or contribute to applicable noise levels being exceeded, specify measures that the Operator must comply with to prevent that occurring and, if applicable, other relevant measures agreed to by Queensland Rail;
- (c) include provisions requiring the Operator to comply with any community liaison requirements of any Law or Authority or of Queensland Rail;
- (d) where the IRMP requires community meetings, include a provision requiring the Operator to invite Queensland Rail to be represented at those meetings;
- (e) include provisions requiring each of Queensland Rail and the Operator:
 - to notify the other of any noise or other complaints pertaining to the environment in relation to or in connection with the Operator's Train Services as soon as practicable after such a complaint is received; and
 - (ii) to cooperate in investigating and responding to such complaints;
- (f) include provisions requiring the Operator to address Contamination, including:
 - (i) an assessment of the impact of the Operator's operations on Contamination;
 - (ii) detailed control measures to prevent Contamination; and



- (iii) a requirement to comply with all relevant Contamination standards, regulations and other relevant Laws; and
- (g) include provisions requiring the Operator to have an Environmental Management System in place prior to commencing Train Services, that:
 - (i) addresses the issues raised in the IRMP and contains procedures for implementing the control measures set out in the IRMP;
 - (ii) addresses all relevant Laws including the requirements of all Authorisations held by Queensland Rail that are relevant to the Operator's Train Services; and
 - (iii) identifies systems (including audit systems) and procedures to address all relevant risks to the environment and compliance with all relevant Laws.
 - (iv) include provisions requiring the Operator:
 - (A) to consider the likelihood of its Train Services causing or contributing to Environmental Harm or nuisance, setting out measures and processes to prevent such Environmental Harm and nuisance and to comply with all relevant environmental Laws (including the Environmental Protection Act 1994 (Qld); and
 - (B) to conduct baseline monitoring where it is necessary to establish benchmarks that will allow for a comparison of environmental values pre and post access to the Network by the Operator.

Where Queensland Rail has baseline data available:

- (a) Queensland Rail may provide the baseline data to the Operator; and
- (b) if no further baseline monitoring is undertaken by the Operator, Queensland Rail's baseline data will be taken to be accurate baseline data.

To the extent that no baseline data is available, the Network will be taken to currently meet all environmental standards for the purpose of determining cause of any future environmental affects.



3 Safeworking Procedures and Safety Standards

3.1 Interface Standards and Safeworking Procedures

In addition to the safeworking procedures, safety standards and other requirements indentified in any IRMP applicable to an Operator, the Operator must comply with all instructions and authorities issued by Queensland Rail from time to time in relation to the safety of any person or property or the environment.—

Queensland Rail's safeworking procedures and safety standards form part of Queensland Rail's safety management system and may be altered by Queensland Rail from time to time in accordance with document control procedures (see section 7.3).

3.2 Safeworking Forms

After execution of an Access Agreement with an Operator, Queensland Rail will provide that Operator with copies of all safeworking forms that must be completed and lodged with Queensland Rail from time to time in order for the Operator to operate on the Network.

If the Operator requires additional copies of safeworking forms, electronic copies can be downloaded from Queensland Rail's website.

3.3 High Visibility Clothing

The Operator must ensure that the Operator's Associates and its visitors comply with Queensland Rail Standard MD-12-129 High Visibility Clothing.

3.4 Access to the Rail Corridor

- (a) An Operator must, and must ensure that the Operator's Associates and its visitors, comply with Accessing the Rail Corridor SAF/STD/0144/SWK.
- (b) For clarity, and without limitation to the requirements set out in Accessing the Rail Corridor – SAF/STD/0144/SWK, the Operator must not allow any person to access the "Rail Corridor" unless:
 - the CASF submitted by the Operator in accordance with Accessing the Rail Corridor– SAF/STD/0144/SWK is approved by Queensland Rail's Network Planning section; and
 - (ii) the Operator conducts a worksite safety briefing, which communicates the approved controls from the CASF to all of the Operator's Associates.

3.5 En Route Locomotive Provisioning

An Operator must ensure that no En Route Locomotive Provisioning occurs in respect of the Operator's Trains except as otherwise agreed between Queensland Rail and the Operator.

3.6 Competence of Workers

(a) The Operator must ensure that each of the Operator's Associates holds and maintains all qualifications, accreditations and competencies required under any Law or under an IRMP in relation to any entry on any railway corridor managed or controlled by Queensland Rail.



(b) On request by Queensland Rail, the Operator must provide to Queensland Rail the names and position titles of all of the Operator's Associates who, from time to time, enter on any railway corridor managed or controlled by the Queensland Rail.



4 Incident and Emergency Response

4.1 Incident/Emergency Management

- (a) The Operator must not, by act or omission, do or fail to do anything inconsistent with, or that would cause or contribute to Queensland Rail failing to comply with, Emergency Management Standard – MD-12-208.
- (b) The Operator's Emergency Management Plan must be consistent with Emergency Management Standard – MD-12-208 and must include:
 - detailed procedures for the management of Incidents and emergencies, including all actions that must be taken to prevent, minimise or mitigate any threat or danger to any person, property or the environment;
 - (ii) specific action plans for preventing or, if not preventable, minimising and mitigating Environmental Harm caused or contributed to by an Incident;
 - (iii) requirements for immediate and appropriate action to prevent or, if not preventable, minimise and mitigate the adverse affects caused or contributed to by any Incident;
 - (iv) requirements for relevant Authorities to be informed immediately of any Incident;
 - (v) the method for the clean up of any substance or thing the release of which is caused or contributed to by an Incident and may have adverse affects on any person, property or the environment; and
 - (vi) requirements for all Incidents and all measures taken in response to Incidents to be recorded on a central register.

4.2 Incident/Emergency Response

- (a) Queensland Rail is responsible for the overall coordination and management of the response to a Network Incident (including notifying all relevant emergency services) so that Recovery and Restoration are effected as soon as practicable. For clarity, the Operator must comply with all directions given by Queensland Rail during the Recovery and Restoration.
- (b) Without limitation to the terms of the Operator's Access Agreement, in relation to an Incident, the Operator:
 - (i) must ensure a timely Recovery in accordance with the Operator's Emergency Management Plan; and
 - (ii) must assist Queensland Rail with Restoration.
 - c) During Recovery and Restoration, the Operator must do everything necessary to prevent or, if not preventable, minimise and mitigate any property damage or delays to the recommencement of Train Movements.

4.3 Assistance in investigations

If Queensland Rail undertakes an investigation in respect of a Major Incident or a General Incident (as defined in the Incident Investigation Standard – MD-12-135), then the relevant





Operators must provide Queensland Rail with information and assistance as is reasonably required by Queensland Rail for the purpose of that investigation.





5 Authorisation of Rolling Stock and Train Configurations

- (a) The Operator must ensure that any Certification provided to Queensland Rail complies with the requirements set out in Rolling Stock Authorisation for the Queensland Rail Network – NBOI/INF/001.
- (b) Queensland Rail may take into account any matters referred to in Rolling Stock Authorisation for the Queensland Rail Network – NBOI/INF/001 in deciding whether Queensland Rail is satisfied with any Certification provided to Queensland Rail by an Operator for the purpose of seeking Queensland Rail's authorisation of Rolling Stock or a Train Configuration.



6 Train Control and Network Planning

6.1 **Responsibility for compliance**

The Operator must ensure the Operator's Controller and the Operator's Train crew comply with this section 6.

6.2 **Operator Requirements**

6.2.1 Operator's Controller

- (a) The Operator must provide to Queensland Rail (and keep current at all times) the details for the Operator's Controller including name, position and contact details (including mobile and after-hours contact details). The Operator must not operate Train Services unless Queensland Rail has current details for the Operator's Controller.
- (b) The Operator must ensure, and not operate Train Services unless, the Operator's Controller is:
 - (i) contactable by Queensland Rail Train Controllers; and
 - (ii) able to fully comply with this section 6,

at all times when any of the Operator's Trains are on the Network and at least 2 hours prior to any such Train entering the Network.

- 6.2.2 Consultation between Queensland Rail Train Controller and the Operator's Train crew
- (a) The relevant Queensland Rail Train Controller and the Operator's Train crew must consult and seek to agree upon the location of meal breaks and personal needs breaks for the Train crew.
- (b) If the Operator's Train crew requires relief, the Train crew must only request relief from the Operator's Controller.
- (c) Prior to a Train reaching its destination, the Operator's Controller must:
 - (i) determine whether the Train crew on the Train requires relief;
 - (ii) consult with the relevant Queensland Rail Train Controller to determine an appropriate time and location for relief;
 - (iii) arrange relief for the Train crew; and
 - (iv) advise the Train crew of the relief arrangements.

If members of an Operator's Train crew:

- (i) are rostered on "change jobs";¹ or
- (ii) need to change during a Train Service,

¹ A Train crew is rostered on "change jobs" where, for example, the Train crew of Train A (which is travelling from X to Z) swaps Trains with the Train crew of Train B (which is travelling from Z to X) at some appropriate point between X and Z, with the result that the relevant Train crews start and end their shifts at the same location.



then the Train crew must notify the relevant Queensland Rail Train Controller of this requirement prior to the Train entering the Network. The Queensland Rail Train Controller must notify the Train crew of the time and location for that change.

(e) If the Operator's Controller or the Train crew is unable to contact the other directly, a Queensland Rail Train Controller may (but is not obliged) to relay a message from one to the other.

6.2.3 Procedures for entering and exiting the Network

- (a) The Operator's Controller must notify the relevant Queensland Rail Train Controller of the anticipated departure time of the Operator's Train at least two hours before the scheduled departure time of that Train. If the anticipated departure time changes, the Operator's Controller must, immediately on becoming aware of the change, notify the Queensland Rail Train Controller of the revised anticipated departure time.
- (b) The Operator's Train crew must notify the relevant Queensland Rail Train Controller when the Operator's Train is ready to enter the Network.
- (c) Prior to the Train entering the Network, the Operator's Controller must give the Train crew:
 - (i) the scheduled times for that Train Service for that day; and
 - (ii) any Train Notices relevant to that Train Service.
- (d) The Operator must comply with the procedures for shunting, entering and exiting yards and any other terminating yard procedures provided to the Operator by Queensland Rail from time to time.

6.2.4 Radio Procedures

- (a) Queensland Rail will make the Train Control Radio Channel Coverage Maps listed below available to the Operator on the Queensland Rail's website:
 - (i) <u>http://xsite/InetDocs/ICSSearch/PDF/tel/TF00935_001.pdf;</u>
 - (ii) <u>http://xsite/InetDocs/ICSSearch/PDF/tel/TF02840_001.pdf;</u>
 - (iii) http://xsite/InetDocs/ICSSearch/PDF/Tel/TF02846_001.pdf; and
 - (iv) http://xsite/InetDocs/ICSSearch/PDF/tel/TF02838_001.pdf.
- (b) For the purposes of the Operator ensuring that its Train drivers are contactable by Queensland Rail Train Controllers, the Operator must ensure that the relevant communications system used by its Train drivers complies with the relevant requirements set out in the relevant IRMP.

Operator's notifications to Queensland Rail Train Controller

- (a) If the Operator's Controller or the Train crew become aware of any event or circumstance that may affect the performance of the Operator's Train, regardless of whether the Train has entered the Network, the Operator's Controller or the Train crew must notify the relevant Queensland Rail Train Controller of the event or circumstance, including the following details:
 - (i) the Train number;



- (ii) the nature of the event or circumstance;
- (iii) the likely impact on the Train's performance.
- (b) At least 15 minutes prior to the departure of the Operator's Train, the Operator's Controller must:
 - (i) provide the relevant Queensland Rail Train Controller with the following information:
 - (A) information regarding the Train crew, including planned relief locations and details of any mandatory breaks;
 - (B) any En Route Locomotive Provisioning requirements, but only if those requirements have previously been agreed in writing with Queensland Rail;
 - (C) if the Train will be in Direct Traffic Control Territory, the start-up code² of the leading locomotive; and
 - (ii) enter the following information about the Train (**Train List**) into Queensland Rail's nominated information system in accordance with any procedures specified by Queensland Rail from time to time:
 - (A) the Rolling Stock operator for the Train Service who is "accredited" under the TRSA;
 - (B) the Access Agreement under which the Train is operating;
 - (C) the identification number for the applicable TRA or ATT;
 - (D) the number of the Train;
 - (E) the origin of the Train;
 - (F) the comparison Train length in metres (including locomotives);
 - (G) the number of items of Rolling Stock in the Train;
 - (H) the gross mass of the Train in tonnes;
 - (I) the gross trailing load of the Train in tonnes;
 - (J) the motive power employed by the Train; and
 - (K) the following information on each item of Rolling Stock in the Train (in the order in which the items of Rolling Stock will be placed, leading end first):
 - (1) the Rolling Stock classification;
 - (2) the Rolling Stock number;
 - (3) the Rolling Stock type (if a locomotive, whether hauling or otherwise);
 - (4) the gross mass of the Rolling Stock in tonnes;
 - (5) a description of the goods carried in the Rolling Stock (including any Dangerous Goods) by class and location on the Train;

² The start-up code for a locomotive that is subject to Direct Traffic Control is a unique code determined and allocated by Queensland Rail for the purposes of Direct Traffic Control.



- (6) the destination of each item of Rolling Stock; and
- (7) any known issues or defects, for example Rolling Stock that is 'out-ofgauge' or that has had its brakes cut out.
- (c) If the Operator's Controller cannot comply with section 6.3(b)(ii) because the nominated information system is not accessible by the Operator's Controller, then the Operator's Controller must:
 - (i) at least 15 minutes prior to the departure of the Operator's Train, notify the relevant Queensland Rail Train Controller of at least the following information:
 - (A) the Rolling Stock operator for the Train Service who is "accredited" under the TRSA;
 - (B) the Access Agreement under which the Train is operating;
 - (C) the identification number for the applicable TRA or ATT;
 - (D) the number of the Train;
 - (E) the comparison Train length in metres (including locomotives);
 - (F) the gross trailing load of the Train in tonnes;
 - (G) the following information on each item of Rolling Stock in the Train (in the order in which the items of Rolling Stock will be placed, leading end first);
 - (1) the Rolling Stock classification; and
 - (2) the Rolling Stock number;
 - (H) any known issues or defects, for example Rolling Stock that is 'out-ofgauge' or that has had its brakes cut out; and
 - (I) details of any Dangerous Goods; and
 - (ii) as soon as possible after the nominated information system becomes accessible by the Operator's Controller, enter the Train List for the relevant Train into Queensland Rail's nominated information system in accordance with any procedures specified by Queensland Rail from time to time.
- (d) If the mass, length or configuration of the Train alters during the course of a journey, the Operator's Controller must notify the relevant Queensland Rail Train Controller of the new mass, length and configuration. The Operator's Controller must ensure any changes in a Train List are updated in Queensland Rail's nominated information system in accordance with any procedures specified by Queensland Rail from time to time.

Provision of information by Queensland Rail Train Controller

- a) If a Queensland Rail Train Controller becomes aware of any event or circumstance that will materially adversely affect the performance of the Operator's Train, the Queensland Rail Train Controller must notify the Operator's Controller of the event or circumstance, including the following details:
 - (i) the Train number;
 - (ii) the nature of the event or circumstance; and

6.4



- (iii) the likely impact on the Train's performance.
- (b) The Queensland Rail Train Controllers located in Brisbane and Townsville must provide the Operator's Controller with a current ETA, for each of the Operator's Train Services, at the relevant Operator's depot station or destination, as applicable, in that Queensland Rail Train Controller's relevant Network Control Region:
 - (i) every two hours; and
 - (ii) at additional points in time, when reasonably requested by the Operator or an Operator's Associate (including the Operator's Controller).
- (c) If, for whatever reason, the ETA of a Train Service varies by more than 20 minutes during a two hourly interval between notifications given under section 6.4(b), the relevant Queensland Rail Train Controller must inform the Operator's Controller of the variation as soon as reasonably practicable.
- (d) Whenever reasonably requested by the Operator's Train crew or the Operator's Controller, the relevant Queensland Rail Train Controller must provide information to the Operator regarding events that will materially adversely impact on the performance of the Operator's Train to the extent that such information is known and available to the Queensland Rail Train Controller.

6.5 Train Control Centres

Queensland Rail will provide Train Control for the Operator's Trains through the Network Control Centres and Network Control Regions. A map showing the Network Control Centres and Network Control Regions can be viewed at:

<u>https://portal.gr.com.au/ResourceCentre/BusinessProcess/NetworkSystems/Maps%20%20Sc</u> hema/Network%20Management/Network%20Information%20Booklet.pdf

6.6 Network Interface Points between QR National and Queensland Rail

A map showing the Network Interface Points between the QR National and the Queensland Rail rail networks can be viewed at:

https://portal.gr.com.au/ResourceCentre/BusinessProcess/NetworkSystems/Maps%20%20Sc hema/Network%20Management/Network%20Information%20Booklet.pdf

6.7 Train Control Boards - Rail Centre 1 Network Control Centre and Townsville Network Control Centre

(a) Train Operations, Traffic Management or Incident Management

Enquiries by Operators regarding train operations, traffic management or Network Incident management in relation to line sections that are controlled by Rail Centre 1 Network Control Centre must be directed to:

Regional Transit Manager Brisbane Railcentre 1

Phone: 81-1662 (Rail)

External: (07) 3235 1662

Emergency Mobile Contact: 0409 499 829



Enquiries by Operators regarding train operations, traffic management or Network Incident management in relation to line sections that are controlled by Townsville Network Control Centre must be directed to:

Regional Transit Manager Townsville

Phone: (07) 4772 8207

Emergency Mobile Contact: 0428 878 545

(b) Scheduling & Infrastructure Planning

Scheduling and infrastructure planning requirements for line sections that are controlled by Rail Centre 1 Network Control Centre or Townsville Network Control Centre are set out in the following documents:

- (i) Network Business Master Train Plan Protocols NA-PRO-001;
- (ii) Network Business Daily Train Plan Protocols NA-PRO-002; and
- (iii) Network Business Possession Planning Protocols NA-PRO-003.

The Operator must comply with the above documents.

Enquiries by Operators regarding scheduling or infrastructure planning in relation to line sections that are controlled by Rail Centre 1 Network Control Centre must be directed to:

Manager Freight Planning

Freight Business, Queensland Rail

5th floor, Rail Centre 1, Brisbane

Phone: (07) 3235 1613

Enquiries by Operators regarding scheduling or infrastructure planning in relation to line sections that are controlled by Townsville Network Control Centre must be directed to:

Manager Freight Planning

Network Business, Queensland Rail

5th floor, Rail Centre 1, Brisbane

Phone: (07) 3235 1613

6.8 **Train Control Boards - Mayne Network Control Centre**

Train Operations, Traffic Management or Incident Management

Enquiries by Operator regarding train operations, traffic management or Network Incident management in relation to line sections that are controlled by Mayne Network Control Centre should be directed to:

Network Control and Service Delivery Supervisor Mayne

Phone: (07) 3606 5970

Emergency Mobile Contact: 0408 703 227

(a)



(b) Scheduling

Scheduling requirements for line sections that are controlled by Mayne Network Control Centre are described in the following documents:

- (i) Network Business Master Train Plan Protocols NA-PRO-001; and
- (ii) Network Business Daily Train Plan Protocols NA-PRO-002.

The Operator must comply with the above documents.

Enquiries by Operators regarding scheduling in relation to line sections that are controlled by Mayne Network Control Centre must be directed to:

(i) for scheduling enquiries relating to MTPs:

Manager Service Planning

A Block Mayne Rail Complex

33 Lanham Street, Bowen Hills

Phone: (07) 3606 5125

(ii) for scheduling enquiries relating to DTPs:

Senior Train Planner

A Block Mayne Rail Complex

33 Lanham Street, Bowen Hills

Phone: (07) 3606 5178

(iii) for scheduling enquiries relating to infrastructure maintenance:

Manager Possession Planning Unit

D Block Mayne Rail Complex

33 Lanham Street, Bowen Hills

Phone: (07) 3606 5111

- (iv) for all other scheduling enquiries:
 - Manager Freight Planning

Network Business, Queensland Rail

5th floor, Rail Centre 1, Brisbane

Phone: (07) 3235 1613



7 Commercial Consideration

7.1 Forecasts

- (a) Within 30 days after receiving a written request from Queensland Rail, the Operator must provide Queensland Rail with a forecast of the Train Services that the Operator proposes to run on the Network in addition to its current contracted services, representing the Operator's best estimate, on a monthly basis for the 12 month period specified by Queensland Rail in its request, of:
 - (i) the number and frequency of those Train Services;
 - (ii) the gross tonnage that the Operator will transport;
 - (iii) the average number of gross tonnes per Train that the Operator will transport; and
 - (iv) any changes in Rolling Stock or Train Configuration that may vary one or more of the above estimates.
- (b) Queensland Rail must not make a request referred to in section 7.1(a) more than once in any six month period.
- (c) Within 30 days after receiving a request from the Operator, Queensland Rail must use reasonable endeavours to provide the Operator with a forecast of any construction or maintenance work proposed to be carried out on the Network in the next 12 months that may, in Queensland Rail's opinion, materially adversely affect the Operator's operations.
- (d) The Operator must not make a request referred to in section 7.1(c) more than once in any six month period.

7.2 Safety Notices

7.2.1 Safety Alerts

- (a) If, in Queensland Rail's opinion, a safety incident has or may occur that affects, or may affect, Queensland Rail or any Operator, then Queensland Rail may give the relevant Operator(s) notice of that incident (**Safety Alert**).
- (b) A Safety Alert will provide details of the relevant safety incident and indicate any requirements that must be complied with by the Operator(s).
- (c) On receipt of a Safety Alert, the Operator must ensure that the relevant Operator's Associates are aware of the contents of the Safety Alert.

7.2.2 Weekly Notices

- (a) Queensland Rail gives Weekly Notices to its employees. Amongst the information set out in those Weekly Notices is information about permanent or temporary changes to safety requirements (including information relevant to safety matters). Such a change is published in a Weekly Notice prior to the date on which the change takes effect.
 - (b) However, if Queensland Rail is not issuing a Weekly Notice prior to a time when Queensland Rail considers that a relevant change needs to take effect, then Queensland Rail will include that change in the relevant Train Notice(s) and will subsequently publish the change in the next Weekly Notice.

- (c) On the same day that a Weekly Notice is given to Queensland Rail's employees, Queensland Rail will also make available to the Operator an abridged Weekly Notice that extracts information about permanent or temporary changes to safety requirements (including information relevant to safety matters).
- (d) The Operator must ensure that each Operator's Associate is aware of, and complies with, the information in each abridged Weekly Notice relevant to that Operator's Associate's responsibilities and activities.

7.2.3 Train Notices

- (a) Queensland Rail may issue operational and safety instructions, information, requirements and messages to Operators (**Train Notices**). Typically Train Notices will be issued daily, but can be issued as determined by Queensland Rail.
- (b) The Operator must ensure that each Operator's Associate is aware of, and complies with, the information in each Train Notice relevant to that Operator's Associate's responsibilities and activities.

7.3 Document Control Procedures

- (a) Each Operator must notify Queensland Rail of the name, position and contact details for the Operator's Associate who, on behalf of the Operator, is responsible for document control in connection with the Operator's Access Agreement.
- (b) The Operator must ensure the ongoing distribution of this document, and all documents referred to in this document, to the relevant Operator's Associates.

7.4 Cooperation between Parties

7.4.1 Operational Meetings

- (a) Each Operator must notify Queensland Rail of the name, position and contact details of the Operator's Associate who, on behalf of the Operator, will be the Operator's representative for operational meetings.
- (b) The Queensland Rail representative for an operational meeting is either or both of the following persons, as applicable:
 - GM Customer Service South
 - Ph: (07) 3235 7679
 - Fax: (07) 3235 7634
 - GM Customer Service North

Ph: (07) 4772 8872

Fax: (07) 4772 8495

- The Operator's representative and Queensland Rail's representative for operational meetings are required to meet, at a time and place agreed between the Operator and Queensland Rail, for the purposes of:
 - (i) reviewing matters relating to the performance of the Operator's Train Services to identify any remedial actions to prevent, minimise or mitigate any problems;
 - (ii) reviewing the reliability of the Operator's Trains;

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- (iii) reviewing any relevant Operational Constraints;
- (iv) investigating or reviewing breaches of any relevant safeworking procedures or safety standards (including those referred to in either the relevant IRMP or section 3); and
- (v) reviewing any other relevant operational matters in relation to the exercise of rights or compliance with obligations under the Operator's Access Agreement.
- (d) Either the Operator or Queensland Rail may, with the prior consent of the other (which consent is not to be unreasonably withheld), invite a guest to an operational meeting.

7.4.2 Contractual Meetings

- (a) The Operator must notify Queensland Rail of the name, position and contact details of the Operator's Associate who, on behalf of the Operator, will be the Operator's representative for contractual meetings.
- (b) The Queensland Rail representative for contractual meetings is:

Network Business Commercial Manager

Ph: (07) 3235 3609

Fax: (07) 3235 7634

- (c) The Operator's representative and Queensland Rail's representative for contractual meetings are required to meet, at a time and place agreed between the Operator and Queensland Rail, for the purposes of discussing or reviewing commercial and contractual matters.
- (d) Either the Operator or Queensland Rail may, with the prior consent of the other (which consent is not to be unreasonably withheld), invite a guest to a contractual meeting.

7.5 Government Supported Infrastructure

The parts of the Network that are highlighted in red in Diagrams 1 and 2 below are supported by government funding.

Diagram 1:

CONTRACT (RAIL INFRASTRUCTURE) II - TRACK SECTION EXPIRATIONS





Diagram 2:





8 **Further information**

If you would like further information on, or have queries regarding the information in, this manual, please contact Queensland Rail, Network Business Commercial Manager on ph. 07-3235 3609.



9 Glossary

Access Agreement	An agreement between Queensland Rail and an Operator for the provision of a right to use a specified section of the Network for the purposes of operating Train Services.	
Access Undertaking	Queensland Rail's access undertaking as approved by the Queensland Competition Authority under the <i>Queensland Competition Authority Act 1997</i> (Qld) from time to time.	
ATT	Authority to Travel	F
Authority	(a) The Crown or any minister of the Crown;	
	(b) any government, federal, state or local government department or other governmental, semi-governmental or judicial body or authority including local government, a court or a tribunal;	t
	 (c) any corporation, authority, body or force constituted for a public purpose (including any police service or force); 	2
	(d) any holder of an office for a public purpose;	
	(e) any governmental, semi-governmental or judicial person; and	
	(f) any person (whether autonomous or not) who is charged with the administration or enforcement of a Law,	
	including any officer or agent of the foregoing acting in that capacity	/.
Authorisation	Any consent, accreditation, authorisation, registration, filing, lodgement, notification, agreement, licence, certification, commission, permit, approval, exemption, ruling or other permission from, by or with an Authority required by any Law or lawfully required by any Authority.	
BSA 🔶 🔶	Brisbane Suburban Area	
CASF	Corridor Access Safety Form	
Certification	(a) A certificate by a suitably qualified person, who is approved by Queensland Rail and appointed by and at the cost of the relevant Operator, that the Operator's Rolling Stock and Train Configurations comply with the IRMP; accompanied by	
N	(b) relevant documentation (including reports on trials and/or commissioning tests) demonstrating to the satisfaction of Queensland Rail that the Operator's Rolling Stock and Train Configurations comply with the IRMP.	
Contamination	Contamination as defined by the <i>Environmental Protection Act 199</i> (Qld) where such contamination is likely to cause or does cause material environmental harm, serious environmental harm or environmental nuisance as those terms are defined in the <i>Environmental Protection Act 1994</i> (Qld).	4



Dangerous Goods	Any substance or thing defined as dangerous goods, explosives or radioactive material under:
	 (a) the Australian Code for the Transport of Dangerous Goods by Road and Rail;
	(b) the Australian Code for the Transport of Explosives by Road and Rail; or
	(c) the Code of Practice for the Safe Transport of Radioactive Material,
	as published from time to time, including any substance or thing specifically identified as such in the Access Agreement entered into between Queensland Rail and the relevant Operator.
Direct Traffic Control Territory	That part of the Network for which Direct Traffic Control – SAF/STD/0041/SWK applies as set out in Operational Route Manual – SAF/STD/0071/INF.
DTMR	Queensland Department of Transport and Main Roads
DTP	Daily Train Plan
Emergency Management Plan	A plan (including any amendments from time to time) developed and maintained by the relevant Operator which:
	(a) details procedures that are adequate to manage an Incident, including all actions to be taken to prevent, minimise or mitigate any threat or danger to any person or property including:
	 the matters outlined in this document that are relevant to the management of Network Incidents; and
	(ii) any matters otherwise referred to in the Access Agreement for inclusion in a plan that details procedures to manage an Incident (whether or not referred to as an Emergency Management Plan);
	(b) is, at all times, compatible with the relevant Access Agreement and this document; and
H	 (c) is consistent with the degree of diligence, care, foresight, prudence and skill that would reasonably be expected from a competent, skilled and experienced person in the same type of undertaking in the same or similar circumstances,
\sqrt{O}	for which the Operator has received a notice from Queensland Rail that Queensland Rail has no objection to the plan (including any amendments).
En Route Locomotive Provisioning	The provisioning of a Train on the Network.
Environmental Harm	Environmental harm as defined in the <i>Environmental Protection Act</i> 1994 (Qld).
Environmental Management System	A management system that addresses all environmental risks and ensures compliance with all environmental Laws.
ЕТА	Estimated Time of Arrival





Incident	Any Network Incident involving the activities of the Operator.			
Interface Risk	An assessment to:			
Assessment	(a) identify, to the extent reasonably practicable, all Interface Risks;			
	 (b) assess the likelihood and consequences of those Interface Risks occurring and any factors relevant to the management of those Interface Risks; and 			
	(c) nominate suitable control mechanisms to manage the Interface Risks within a risk management framework.			
Interface Risk	All risks to the safety of persons or property or to the environment arising from the interaction between the Operator's proposed operations and any one or more of:			
	(a) the Network;			
	(b) operations on the Network (including those of other Operators and Queensland Rail); and			
	 (c) persons using the Network, persons on or near the Network or members of the public (including any activities on the Network that may affect those matters), 			
	provided that a reference to operations in this definition includes railway operations as defined in the TRSA.			
Interface Standards	Queensland Rail's minimum requirements or standards relating to the interface between a Train and the Network (including to maintain agreed operating parameters – for example, axle load) with which the applicable Rolling Stock and Train Configurations must comply in order to operate on the Network. This includes the Interface Standards (SAF/STD/0145/INF), unless otherwise agreed or specified by Queensland Rail.			
IRMP	Interface Risk Management Plan (see section 2.1 for a general description of such a plan)			
Law	Includes:			
	(a) any statute, ordinance, code, law, by-law, proclamation, rule or regulation or any other subordinate legislation, whether State, Commonwealth or otherwise;			
	(b) the terms of any Authorisation;			
	(c) common law and equity; and			
	 (d) any order, circular, requirement, condition, notice, decree, decision, direction or guidelines of any Authority with which the Operator or Queensland Rail (as the case may be) is legally required to comply including any requirement to pay fees and charges, 			
	whether now, or at any time in the future, in effect.			
MTP	Master Train Plan			
Network	The rail transport infrastructure (as defined in the TIA) for which Queensland Rail is the accredited rail infrastructure manager (as			



	defined in the TRSA).
Network Incident	Any Rolling Stock derailment, Rolling Stock disablement or breakdown, accident, collision or any other unplanned occurrence on the Network which causes or could cause death or injury to any person, damage to property or Environmental Harm or a disruption to or cancellation by Queensland Rail of any Train Movement.
Notifiable Occurrence	A notifiable occurrence as defined in the TRSA.
Obstruction	Any circumstance relating to the whole or any part of the Network or private siding, including debris or other objects on the Network, which has the potential to cause a disruption to or cancellation by Queensland Rail of Train Services or Train Movements and includes any Network Incident but does not include an Operational Constraint imposed by Queensland Rail.
Operational Constraints	Any temporary or permanent constraint on the operation or use of any part of the Network imposed by Queensland Rail as it considers necessary in relation to the proper, efficient or safe operation or management of the Network, including:
	(a) speed restrictions;
	(b) load restrictions;
	(c) signalling or overhead restrictions;
	(d) Planned Possessions (as defined in the Access Undertaking);
	 (e) Urgent Possessions (as defined in the Access Undertaking); and
	(f) Emergency Possessions (as defined in the Access Undertaking).
Operator	A person:
	 (a) to whom Queensland Rail has granted the right to use a specific section of the Network for the purposes of operating Train Services; or
	(b) who operates or manages, or will operate or manage, Train Services for or on behalf of a person referred to in paragraph (a) above or who has been granted a right to do so by Queensland Rail.
Operator's Associate	Any director, officer, employee, contractor, agent or consultant of the Operator and any other person under the control or supervision of, or acting for or on behalf of, the Operator.
Operator's Controller	The person nominated in compliance with section 6.2.1(a) from time to time.
Queensland Rail Train Controller	A person appointed by Queensland Rail from time to time to perform Train Control for a relevant part of the Network.
Recovery	Action to be taken in respect of any derailed, malfunctioning or immobilised Rolling Stock for which a relevant Operator is responsible to enable prompt recommencement of Train



		Movements, including the subsequent retrieval of any such Rolling Stock.
Restoration		The removal of any Obstruction, the rectification of any Network Incident and the prompt recommencement of Train Movements including all requisite repairs to the Network but does not include Recovery.
Roll	ing Stock	Locomotives, carriages, wagons, rail cars, rail motors, light rail vehicles, light inspection vehicles, rail/road vehicles, trolleys and any other vehicle that operates on or uses Track.
	idard Access eement	The pro forma access agreement attached to the Access Undertaking.
TIA		Transport Infrastructure Act 1994 (Qld)
TOR	ł	Terms of Reference
ТРО)	Track Protection Officer
TRA		Train Route Acceptance
Trac	k	That part of the Network comprising the rail, ballast, sleepers and associated fittings.
Trai	A self-propelled configuration of Rolling Stock operating as a unit on Track.	
Train including the identificatio of individual items of Rolling St Rolling Stock items are placed		The description of the combination of Rolling Stock comprising a Train including the identification number, gross mass and tare mass of individual items of Rolling Stock and the order in which those Rolling Stock items are placed in the Train.
		The control, management and monitoring (including, as applicable, scheduling) of:
		(a) all Train Movements;
		(b) all other operations of Rolling Stock on the Network; and
		 (c) any activities affecting or potentially affecting such Train Movements or Rolling Stock operation or the proper, efficient and safe operation and management of the Network.
Traii	n Movement	The operation of a Train on the Network by any Operator.
Trai	n Notice	A notice referred to in section 7.2.3.
Trai	n Service	The operation of a Train in accordance with a relevant Access Agreement.
TRS	Α	Transport (Rail Safety) Act 2010 (Qld)
Unle	ess expressed to the	contrary, in this document:
(a)	"includes" means i limitation;	ncludes without limitation, and "including" means including without

- "includes" means includes without limitation, and "including" means including without limitation;
- (b) a reference to:
 - a person includes a partnership, joint venture, unincorporated association, (i) corporation and a government or statutory body or authority;

- (ii) any legislation includes subordinate legislation under it and includes that legislation and subordinate legislation as modified or replaced; and
- (iii) this or any other document includes the document as varied or replaced; and
- (c) where time is to be calculated by reference to a day or event, that day or the day of that event is excluded.

And Rail





10 Queensland Rail Documents

The following Queensland Rail documents are referred to in this document:

- Accessing the Rail Corridor SAF/STD/0144/SWK
- Emergency Management Standard MD-12-208
- Incident Investigation Standard MD-12-135
- Interface Standards SAF/STD/0145/INF
- Network Business Master Train Plan Protocols NA-PRO-001
- Network Business Daily Train Plan Protocols NA-PRO-002
- Network Business Possession Planning Protocols NA-PRO-003
- Operational Route Manual SAF/STD/0071/INF
- Queensland Rail Standard MD-12-129 High Visibility Clothing
- Queensland Rail's Code of Practice for Railway Noise Management
- Queensland Rail's Environmental Management System
- Rolling Stock Authorisation for the Queensland Rail Network NBOI/INF/001

For clarity, a reference to any of the above documents in this document includes a reference to that document as varied or replaced from time to time.

Safety and Environment Interface Risk Management Plan Queensland Rail Limited and (Rolling Stock Operator) Document No. NBOI-IRMP-AA-XXX

Context (Scope):	This interface risk management plan covers the XXXX operations on the Queensland Rail Limited nominated network and includes identifying all reasonable interface risks relating to the following interfaces and agreeing controls appropriate to the identified interface risks:
	 (i) between the proposed operations and the rail infrastructure; (ii) between the proposed operations and the existing operations on the rail infrastructure; (iii) between the proposed operations and Queensland Rail Limited workers and other operator's workers; and (iv) between the proposed operations and Queensland Rail Limited and other operator's interfaces with members of the public.
Network Manager:	Queensland Rail Limited
Access Holder:	XXXX
Rolling Stock Operator:	XXXX
Accreditation:	As attached in Schedule 9 of the Access Agreement NOTE: To be provided by the Access Holder
Nominated Network:	As defined in Schedule 2 of the Access Agreement
Train Services:	As defined in Schedule 1 of the Access Agreement
Rolling Stock:	As defined in Schedule 4 of the Access Agreement
	NOTE: Where the rolling stock operator is operating rolling stock which has been authorised for another rolling stock operator, the hauling operator must, i complying with this IRMP, liaise with the other rolling stock operator and comply with all conditions agreed between the other rolling stock operator and Qu to the operation of that rolling stock.
Rolling Stock Configurations:	As defined in Schedule 4 of the Access Agreement
Methodology:	This risk assessment has been carried out consistent with the Queensland Rail Limited Risk Management Framework.
Reviews:	Reviews will be conducted at least annually consistent with the Queensland Rail Limited Risk Management Framework.
Audits:	When required an audit can be requested by either party. Audits will be conducted by Queensland Rail Limited and/or the Access Holder/Rolling Stock Operation

Version Control			
Date	Version	Details	
	Draft v1.0	Draft compiled for workshop.	

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t, in addition to Queensland Rail relating

Operator

Workshop Register

Workshop 1

Forum Date: Forum Venue: Forum Facilitator:

Attendees	Title	Business	Responsibilities

Apologies	Title	Business	Responsibilities

Workshop 2

Forum Date: Forum Venue: Forum Facilitator:

Attendees	Title	Business	Responsibilities

Apologies	Title	Business	Responsibilities

	Hazard	Genera	al Hazardous Event (GHE)		Specific Hazardous Event (SHE)		
dentifier	Description		Description	Identifier	Description	Relevant? Yes/No	Risk Assessment Item
11	Moving train	GHE1	Collision	SHE1.1	Collision between two passenger trains	Yes	1
11	Moving train			SHE1.2	Collision between passenger train and freight train / OTV	Yes	1
11	Moving train			SHE1.3	Collision between freight trains / OTVs	Yes	1
1	Moving train			SHE1.4	Train collision with infrastructure	Yes	3
1	Moving train			SHE1.5	Train collision with road vehicle at level crossing	Yes	2
1	Moving train			SHE1.6	Train collision with object on line (not resulting in derailment)	Yes	4
3	Structure and/or unstable material over/under			SHE1.7	Train impacted by structural collapse, landslide or material loading	Yes	3
1	Moving train			SHE1.8	Collision between mainline train and cane railway train	Yes	14
1	Moving train			SHE1.9	Collision with road vehicles not at level crossings ((eg machinery /	Yes	3
					motor vehicles working trackside)		
1	Moving train			SHE1.10	Train collision with native wildlife	Yes	4
1	Moving train	GHE2	Derailment	SHE2.1	Passenger train derailment (not involving level crossing collision)	Yes	5
1	Moving train			SHE2.2	Freight train / OTV derailment (not involving level crossing collision)	Yes	5
1	Heat and/or flammable material	GHE3	Fire	SHE3.1	Passenger train fire	Yes	7
. 1	Heat and/or flammable material			SHE3.2	Freight train or OTV fire	Yes	7
	Heat and/or flammable material	_		SHE3.3	Station fire	Yes	7
1 1	Heat and/or flammable material	-		SHE3.4	Lineside fire	Yes	7
	Heat and/or flammable material	-		SHE3.5	Depot / yard / siding / other rail associated buildings / assets fire	Yes	7
	Heat and/or flammable material	-			Non-rail associated buildings fire	Yes	7
<u> </u>		-		SHE3.6		Yes	7
ļ.	Heat and/or flammable material			SHE3.7	Tunnel fire		
)	Gas/Air under pressure	GHE4	Explosion / pressure rupture	SHE4.1	Passenger train explosion / pressure rupture	Yes	6
<u>;</u>	Gas/Air under pressure	_		SHE4.2	Freight train or OTV explosion / pressure rupture	Yes	6
5	Gas/Air under pressure	-		SHE4.3	Station explosion / pressure rupture	Yes	6
	Gas/Air under pressure	_		SHE4.4	Rail corridor explosion / pressure rupture	Yes	6
	Gas/Air under pressure			SHE4.5	Depot / yard / siding / other rail associated buildings pressure rupture	Yes	6
	Gas/Air under pressure			SHE4.6	Non-rail associated buildings pressure rupture	Yes	6
5	Gas/Air under pressure			SHE4.7	Tunnel pressure rupture	Yes	6
•	High voltage electricity	GHE5	Electric shock	SHE5.1	Electric shock at station	Yes	8
7	High voltage electricity			SHE5.2	Electric shock at depot / yard / siding / rail corridor	Yes	8
30	Low voltage electricity			SHE5.4	Electric shock from trackside infrastructure	Yes	10
	Misaligned physical interfaces	GHE6	Safety Incident while entering/leaving	SHE6.2	Person falls between train and platform at station	Yes	10
0	Uneven/unstable surfaces		or on train	SHE6.3	Slip / trip / fall while entering / leaving train not at stations	Yes	10
	Moving train			SHE6.4	Person dragged by train	Yes	9
2	Object thrown at train			SHE6.6	Struck by object projected at train	Yes	10
	Uneven/unstable surfaces	GHE7	Safety incident in rail corridor	SHE7.1	Rail corridor slip / trip / fall	Yes	10
4	Noise			SHE7.2	Rail corridor exposure to noise above harmful level	Yes	16
	Breathing inhibitor	_		SHE7.3	Rail corridor asphysiation	Yes	16
18	Operating machinery	-		SHE7.6	Rail corridor machinery incident	Yes	16
	Unsecured/out of gauge objects on rolling stock	_					
24			Potety incident in static	SHE7.10	Worker struck by objects from the railway	Yes	10
	Moving train	GHE8	Safety incident in station	SHE8.1	Passenger / general public struck by train	Yes	13
	Suicidal individual	-		SHE8.2	Passenger / general public self harm	Yes	13
24	Unsecured/out of gauge objects on rolling stock	_		SHE8.3	Passenger / general public struck by objects from the railway	Yes	13
20	Crowding			SHE8.1	Passenger / general public struck by train	Yes	13
0	Uneven/unstable surfaces	GHE9	Worker safety incident in depot / yard		Worker slip / trip / fall	Yes	10
	Operating machinery	4	/ siding	SHE9.2	Worker depot machinery incident	Yes	16
	Moving train	_		SHE9.3	Worker struck by train / OTV / road vehicle	Yes	9
	Heat and/or flammable material	4		SHE9.5	Worker exposure to surfaces heated above harmful levels	Yes	16
14	Noise			SHE9.6	Worker exposure to noise above harmful level	Yes	16
	Moving train	GHE10	General public safety incident in rail	SHE10.1	General public struck by train	Yes	13
	Suicidal individual	4	corridor / depot / yard / siding	SHE10.2	General public self harm	Yes	13
4	Unsecured/out of gauge objects on rolling stock			SHE10.3	General public struck by objects from the railway	Yes	10
3	Hazardous substance	GHE11	Exposure to hazardous substances	SHE11.1	Rail corridor exposure to hazardous substances / dangerous goods	Yes	15
3	Hazardous substance	1	and/or dangerous goods	SHE11.2	Exposure to hazardous substances / dangerous goods at station	Yes	15
3	Hazardous substance	-		SHE11.3	Worker exposure to hazardous substances / dangerous goods	Yes	15
3	Hazardous substance	-		SHE11.4	General public exposure to hazardous substances / dangerous goods	Yes	15
				011211.4	leakage on railway corridor / depot / yard / siding	103	15
14	Noise	GHE12	Noise emissions	SHE12.1	Excessive noise emissions	Yes	12
14 16	Contaminating material	GHE12 GHE13	Escape of contaminating material	SHE12.1 SHE13.1	Pollution	Yes	12
10			into environment			103	

-											
					RISK DESCRIPTION CODE: (Refer Hazard - Event List) H - Hazard	HIERARCHY OF CONTROL:	JUSTIFIC				
	20.	JeenslandRail			GHE - General Hazardous Event	1 - Eliminate 2a - Substitute	1. Canno				
		Jeensianokali			SHE - Specific Hazardous Event	2b - Isolate	2. Canno				
						2c - Minimise	infrastru				
					RESIDUAL RISK NOTE	2d - Administrative	3. Canno				
					Residual risk is after consideration of all proposed controls.	2e - Personal Protective Equipment	4. Canno	t elimin	ate		
					Ratings are determined by the stakeholder participants collective experience and knowledge.		5. Canno				
					O Organization of D Disk Dation	CONTROL EFFECTIVENESS CODE	Control .				
					C = Consequence, L = Likelihood, R = Risk Rating	FE = Fully effective SE = Substantially effective	a. The ag System.	jreea co	intro		
					RISK RATING CODE	PE = partially effective	b. The ha	azard is	in t		
					E = Extreme, H = High, M = Medium, L = Low, V = Very Low	LI = Largely ineffective	c. The co				
							engineer	ing con	trol		
	1						1				
ITEM		RISK DESCRIPTION			CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply	REFERENCE DOCUMENTS (Including but not limited to)	1	2a			
					with the interface requirements.	(including but not innited to)	Yes/No				
1A	H1 - Moving t	train							T		
1B	GHE1 - Collis										
1C		ision between two passenger trains									
		ision between passenger train and freight train / OTV ision between freight trains / OTVs									
		-	Desident	Dist	Decement (Miller the)				_		
1.1	Risk Category	Consequence	Residual C L		Recovery (Mitigating)						
1.1.1	Safety	Injury or death		~	Reportable incidents are managed in accordance with emergency response procedures.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency	No		-		
	,	· · ·			Operator rolling stock will carry adequate emergency equipment.	Requirements		1			
					Operator will have appropriate emergency response and recovery plans in place.	Operator Emergency Response Plan					
					Emergency procedure will include contact details of key personnel where necessary.						
1.1.2	Safety	Injury or death	1		Reportable incidents are managed in accordance with Queensland Rail emergency response procedures.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module	No		Τ		
					Emergency procedure will include contact details of key personnel where necessary.	EP1.01 and EP3.		1			
									+		
1.2	Look of works	Cause - Substandard Act/Condition			Preventative / Detective	SAE/STD/0145/INE Interface Standards Sect 2.2 Defauration	Nie		4		
1.2.1	Lauk UI WORKE	er competence (Operator)			Operator workers will be competent in the applicable Queensland Rail standards required to manage train operations	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No				
100					Queensland Deil warkers will be competent in the applicable Queensland Deil standards required to measure train	CAE/CTD/0445/INE Interface Standards Sect 2.2 Seferications	Nie	_	_		
1.2.2	Lack of worke	er competence (Queensland Rail)			Queensland Rail workers will be competent in the applicable Queensland Rail standards required to manage train operations	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking Queensland Rail SMS	No				
100	Distractions to	the driver (Operator)				Operator SMS	Nie	_	_		
1.2.3	Distractions to	o the driver (Operator)			Operator has developed business instructions to manage the number of persons in locomotive/driving unit cabs and their interaction with train crew.		No				
					Driver distractions to be managed by Operator.						
1.2.4	Distractions to	Area Controller/Network Controller (Queensland Rail)			Queensland Rail has procedures to manage distractions in the workplace	Queensland Rail SMS	No		+		
	Distructions to										
1.2.5	Unsafe work p	practices (Operator)			Operator has supervisory presence and competency checks.	Operator SMS	No		+		
					Where the Operator is transporting and/or operating rolling stock for which they are have not undertaken the rolling						
					stock certification process, the hauling operator must consult the rolling stock certifier and agree to operate under all						
					restrictions agreed between the rolling stock certifier and Queensland Rail.						
1.2.6	Unsafe work p	practices (Queensland Rail)			Queensland Rail has supervisory presence and competency checks in place	Queensland Rail SMS	No		Т		
1.2.7	Insufficient bra	aking capability			Rolling stock maintained to relevant rolling stock standards and specifications.	SAF/STD/0145/INF - Interface Standards - Module 2 - Rolling Stock	No		Τ		
					Brake performance of rolling stock consists to comply with interface requirements.						
1.2.8	Train unable t	to hold on grade			Operator will determine the maximum trailing load and supply load tables to Queensland Rail.	SAF/STD/0145/INF - Interface Standards - Section 2.16 - Brake System	No		Т		
					Operator to certify train capable of stopping and holding on any grade on the route indefinitely.	requirements					
1.2.9	Brakes cut-ou	t - Rolling stock not able to stop if train breaks apart			The number of items of rolling stock with isolated brakes is limited such that the braking performance of the train is not	SAF/STD/0145/INF - Interface Standards - Sect 2.16 - Brake System	No	1	十		
					reduced below the required level.	Requirements, Sect 3.1 - Train Route Acceptance		1			
					Sufficient vehicles with working brakes are marshalled behind rolling stock with isolated brakes so that if the consist			1			
					breaks apart, the separated portion of the consist will stop and hold on any grade on the route.	1			⊥		
1.2.10	Incompatible of	operational procedures (Operator)			Business instructions and procedures have been developed by the Operator with Queensland Rail.	SAF/STD/0145/INF - Interface Standards - Sect 1.3 - Mobile Voice Radio	No	1			
					Where changes to specific business instructions and procedures impact on other stakeholders, that document must be reviewed and agreed by the affected stakeholder before being issued.	Communications Systems					
					Operator will use radio communications compliant with the relevant Queensland Rail Standards.			1			
					Regular management level meetings are conducted between Operator and Queensland Rail.						
1.2.11	Incompatible of	operational procedures (Queensland Rail)			Business instructions and procedures have been developed by Queensland Rail with Operator.	SAF/STD/0145/INF - Interface Standards - Sect 1.3 - Mobile Voice Radio	No	+	+		
		/			Where changes to specific business instructions and procedures impact on other stakeholders, that document must be	Communications Systems					
					reviewed and agreed by the other stakeholder before being issued.						
					Queensland Rail will use radio communications compliant with the relevant Queensland Rail Standards.						
	- ·				Regular management level meetings are conducted between Operator and Queensland Rail.			_	╇		
1.2.12	I rain not stop	ped in clear at crossing loop/siding			Operator will use competent crews. Operator to develop suitable driving methodologies.	Operator SMS	No		e: nate nate nate nate nate atior ontro s in the s par ntrols		
1.2.13	Comparison T	Frain Length exceeds length of crossing loops			Train list submitted to Network Control.	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route	No		+		
1.2.10	Jonipanson I	Longer exected longer of crossing 100ps			Operator will comply with authorised train length as determined in Train Route Acceptance process.	Acceptance	110				
1.2.14	Train operates	s at excessive speed			Operator will use competent crews.	Operator SMS	No	1	+		
					Supervisory systems are fitted to the locomotive/driving units.						
1.2.15	Train does not	t operate signalling/track circuits (Operator)			Operator will enable the detection of rolling stock by track circuits and/or axle counters.	SAF/STD/0145/INF - Interface Standards - Sect 2.15 - Wheelsets, Sect	No		Τ		
					Operator to identify rolling stock that does not reliably operate track circuits and advise Queensland Rail.	2.20 - Signalling of Trains					
					If the rolling stock cannot reliably operate track circuits for any reason, the Operator must have procedures for the safe						
1.2.16	Train doos no	t operate signalling/track circuits (Queensland Rail)			operation of the rolling stock. Operator to identify rolling stock that does not reliably operate track circuits.	SAF/STD/0145/INF - Interface Standards - Sect 2.15 - Wheelsets, Sect	No	+	+		
1.2.10	Trail LUES 110	น อุทธาลเอ ราฐกลากกฎหาสมหา เกษยแร (Queensidhu Kall)			Uperator to identify folling stock that does not reliably operate track circuits. If the rolling stock cannot reliably operate track circuits for any reason, the rolling stock must be operated under the	2.20 - Signalling of Trains	INO				
					blocking facilities in the train protection systems.	· · · · · · · · · · · · · · · · · · ·					
1.2.17	Driver fatigue				Operator has a fatigue management program.	Operator SMS	No	1	\uparrow		
					Locomotive/driving units are fitted with supervisory systems.				\bot		
1.2.18	Rolling stock of	or equipment is stowed on or not clear of the network (Operator)			Operator workers will comply with Queensland Rail safeworking procedures.	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No		Γ		
					Operator will advise Queensland Rail where rolling stock is stowed and/or stored and agree stowage and storage locations.						
I											

OTE:

. ate the use or movement of rolling stock. ate operating on a rail infrastructure network. Queensland Rail will assess options for anges when possible. ate mechanical or material failure.

ate force majeure. ate human error.

on:

ntrols have accepted processes and/or procedures that support the Safety Management

in the current Queensland Rail risk register. part of the overall safe systems of work. All administrative controls support both people and ols.

IERAR				JUSTIFICATION	CONTROL	RESPONSIBILITY
2b	2c	2d	2e		EFFECTIVENESS	(Control Owner)
		x		Elimination: 1 - 5	SE	Operator
		x		Control: a, b, c	SE	Operator
				Post event		
		х		Elimination: 1 - 5	SE	Queensland Rail
				Control: a, b, c		
				Post event		
					07	
		x		Elimination: 1 - 5 Control: a, b, c	SE	Operator
						0 1 10 1
		x		Elimination: 1 - 5	SE	Queensland Rail
				Control: a, b, c	0-	-
		х		Elimination: 1 - 5	SE	Operator
				Control: a, b, c		
		x		Elimination: 1 - 5	SE	Queensland Rail
		x		Control: a, b, c	SE	
		x		Elimination: 1 - 5	SE	Operator
		Â		Control: a, b, c	02	oporator
		х		Elimination: 1 - 5	SE	Queensland Rail
				Control: a, b, c		
	х	х		Elimination: 1 - 5	FE	Operator
				Control: a, b, c		
	х	х		Elimination: 1 - 5	FE	Operator
				Control: a, b, c		
	х	х		Elimination: 1 - 5	FE	Operator
				Control: a, b, c		
		х		Elimination: 1 - 5	SE	Operator
				Control: a, b, c		
		Х		Elimination: 1 - 5	SE	Queensland Rail
				Control: a, b, c		
					07	Or su t
		х		Elimination: 1 - 5 Control: a, b, c	SE	Operator
		x		Elimination: 1 - 5	SE	Operator
		Ŷ		Control: a, b, c	ŰL.	oporator
		х		Elimination: 1 - 5	SE	Operator
				Control: a, b, c		
х	х	х		Elimination: 1 - 5	SE	Operator
				Control: a, b, c		
х	x	x		Elimination: 1 - 5	SE	Queensland Rail
~	Â	^		Control: a, b, c	52	Queen land run
		х		Elimination: 1 - 5	SE	Operator
				Control: a, b, c	07	Or su t
		х		Elimination: 1 - 5 Control: a, b, c	SE	Operator

1.2.19									Dood		RMP-AA-XXX
	Rolling stock or equipment is stowed on or not clear of the network (Queensland Rail)	C	Queensland Rail will agree with Operator on where rolling stock can be stowed and/or stored on the nominated network	SAF/STD/0145/INF - Interface Standards - Sect 3.2 - Rolling Stock Authorisation SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No			x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
1.2.20 F	Rolling stock not being secured correctly (Operator)	F	Rolling stock will be secured when stowed on the network by Operator. Rolling stock is certified for compliance with the interface standards. Operator is competent in the operation of braking systems.	SAF/STD/0145/INF - Interface Standards - Sect 3.2 - Rolling Stock Authorisation SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking Operator SMS	No		:	x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
1.2.21	Rolling stock not being secured correctly (Queensland Rail)	(Queensland Rail requires all Operators to secure rolling stock when stowed	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No		:	x x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
1.2.22	Inadequate communications (Operator)		Dperator will have communication systems compatible with Queensland Rail's communication infrastructure and abide by mobile voice communication protocols.	SAF/STD/0145/INF - Interface Standards - Sect 1.3 - Mobile Voice Radio Communications Systems	No		:	(X	Elimination: 1 - 5 Control: a, b, c	SE	Operator
1.2.23	Inadequate communications (Queensland Rail)		Queensland Rail will have communication systems compliant with Queensland Rail's communication infrastructure and abide by mobile voice communication protocols.	SAF/STD/0145/INF - Interface Standards - Sect 1.3 - Mobile Voice Radio Communications Systems	No		:	x x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
1.2.24	Rolling stock mechanical failure		Operator will maintain rolling stock in accordance with maintenance standards. Operator will develop contingency procedures including for failures.	SAF/STD/0145/INF - Interface Standards - Overview Sect 4	No			x x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
1.2.25 F	Rolling stock not compatible with infrastructure	C	Operator rolling stock will comply to interface requirements	SAF/STD/0145/INF - Interface Standards - Module 1 - Infrastructure, Module 2 - Rolling Stock	No		x	x x	Elimination: 1 - 5 Control: a, b, c	FE	Operator
1.2.26	Safeworking systems fail to maintain train separation	(Queensland Rail will provide safeworking systems to maintain train separation	Queensland Rail SMS	No		:	(X	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
1.2.27	Exceeding limit of authority. (Operator)	(Onboard train protection systems comply with interface requirements	SAF/STD/0145/INF - Interface Standards - Sect 2.21 - Train Safety Systems	No		:	x x		SE	Operator
1.2.28	Exceeding limit of authority. (Queensland Rail)	٦	Frack side infrastructure to facilitate required train protection systems are located in nominated areas of the network	SAF/STD/0145/INF - Interface Standards - Sect 1.6 - Signalling of Trains	No		:	x x		SE	Queensland Rail
1.2.29 l	Lack of competence to operate trackside infrastructure	(Operator workers who are required to operate equipment and/or infrastructure are competent to do so	Operator SMS	No			x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
1.2.30 I	Inadequate access to the nominated network for training and assessment (Queensland Ra	'	Queensland Rail will provide access to the Nominated Network for training purposes and relevant network information		No			x	Elimination: 1 - 5	SE	Queensland Rail
1.2.31 F	Field of vision from rolling stock (Operator)		eg route maps, safeworking manuals, etc.) as identified with Operator Dperator locomotive/driving units will comply with the interface rolling stock cab layout sighting requirements	SAF/STD/0145/INF - Interface Standards - Sect 2.4 - Cab Layout	No			x x		FE	Operator
1.2.32	Field of vision from rolling stock (Queensland Rail)		Queensland Rail will position signals in accordance with the signalling positioning principles.	Queensland Rail SMS	No			x		FE	Queensland Rail
1.2.33 E	Electromagnetic field on rolling stock interfering with equipment	(Operator to comply with the interface requirements for rolling stock electromagnetic compatibility	SAF/STD/0145/INF - Interface Standards - Sect 2.16 - Rolling Stock	No		:	x x		SE	Operator
1.2.34 l	Unknown rolling stock characteristics		On track testing to validate rolling stock characteristics, will be negotiated with Queensland Rail prior to	Electromagnetic Capability (EMC) SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route	No			x x	Control: a, b, c Elimination: 1 - 5	SE	Operator
			commencement. Joint risk assessment will be conducted, if required, with Queensland Rail. Dperator will comply with the relevant Train Route Acceptance Process and the Rolling Stock Certification Process.	Acceptance, Sect 3.2 - Rolling Stock Authorisation					Control: a, b, c		
1.2.35 I	Inadequate rolling stock visibility and audibility	c	Deprator rolling stock meets requirement for headlights, marker lights, visibility lights and livery to improve the visibility of the rolling stock from trackside and technical requirements for horns to provide adequate audible warning of trains to berson's trackside as required in interface standards.	SAF/STD/0145/INF - Interface Standards - Sect 2.1 - Visibility and Audibility	No		:	K X	Elimination: 1 - 5 Control: a, b, c	SE	Operator
1.2.36	Uneven loading or loading profile exceeds allowable loading outline		Dperator to have rolling stock loaded to comply with interface clearance requirements. .oading to be secured to prevent moving.	SAF/STD/0145/INF - Interface Standards - Sect 3.1.3 - Route Criteria Factors	No			x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
1.2.37 l	Lack of clearance between rolling stock on adjacent tracks (Operator)		Operator will follow the relevant Train Route Acceptance process	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route Acceptance	No			x		SE	Operator
1.2.38 l	Lack of clearance between rolling stock on adjacent tracks (Queensland Rail)	(Queensland Rail will assess the train operation according to the Train Route Acceptance process	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route	No			x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
ITEM			CONTROLS	REFERENCE DOCUMENTS			RARCH	,	JUSTIFICATION	CONTROL	RESPONSIBILITY
	RISK DESCRIPTION			(Including but not limited to)	4		-		2e	EFFECTIVENESS	(Control Owner)
24	RISK DESCRIPTION		Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements.	(moluling but not minted to)	1 Yes/No	2a	2b 2	c 2d			()
2B (H1 - Moving train GHE1 - Collision					2a	26 2	c 2d			(
2B (H1 - Moving train					2a	26 2	c 2d			(
2B (2C (2.1	H1 - Moving train GHE1 - Collision SHE1.5: Train collision with road vehicle at level crossing Risk Consequence Category C	l Risk R	Recovery (Mitigating)		Yes/No	2a	2b 2				
2B 2C	H1 - Moving train GHE1 - Collision SHE1.5: Train collision with road vehicle at level crossing Risk Consequence Residual	I Risk R	with the interface requirements.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan		2a	26 2	c 2d	Elimination: 1 - 5 Control: a, b, c Post event	SE	Operator
2B 2C 2.1	H1 - Moving train GHE1 - Collision SHE1.5: Train collision with road vehicle at level crossing Risk Consequence Category C	I Risk R G G F	with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements	Yes/No		26 2		Elimination: 1 - 5 Control: a, b, c		
2B Q 2C § 2.1 2.1.1 2.1.2 2.1.2	H1 - Moving train GHE1 - Collision SHE1.5: Train collision with road vehicle at level crossing Risk Consequence Risk Injury or death Safety Injury or death Safety Injury or death Cause - Substandard Act/Condition	I Risk R G G E E	with the interface requirements. Recovery (Mitigating) Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Doperator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Preventative / Detective	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3.	Yes/No No No				Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event	SE SE	Operator Queensland Rail
2B 0 2C \$ 2.1 2.1 2.1.1 2.1.2 2.1.2 2.2	H1 - Moving train GHE1 - Collision GHE1 - Collision SHE1.5: Train collision with road vehicle at level crossing Risk Consequence Risk Consequence Residual Category Injury or death L Safety Injury or death L	I Risk R F E E E	with the interface requirements. Recovery (Mitigating) Recovery (Mitigating) Derator rolling stock will carry adequate emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Dperator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Preventative / Detective Operator will enable the detection of rolling stock by track circuits and/or axle counters. f the rolling stock cannot reliably operate track circuits for any reason, the rolling stock must be operated under the olocking facilities in the train protection systems and Operator must have procedures for the safe passage of the rolling stock across level crossings.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module	Yes/No No				Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event	SE	Operator
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2B Q 2C § 2.1 § 2.1.1 § 2.1.2 § 2.1.2 § 2.2.1 § 2.2.1 § 2.2.2 § 2.2.2 § 2.2.2 §	H1 - Moving train GHE1 - Collision SHE1.5: Train collision with road vehicle at level crossing Risk Consequence Category C Safety Injury or death		with the interface requirements. Recovery (Mitigating) Recovery (Mitigating) Derator rolling stock will carry adequate emergency equipment. Dperator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Preventative / Detective Derator will enable the detection of rolling stock by track circuits and/or axle counters. f the rolling facilities in the train protection systems and Operator must have procedures for the safe passage of the rolling stock across level crossings. Check level crossing flashing lights are operating, if lights not operating than key operate the signal. f the rolling stock cannot reliably operate track circuits for any reason, the rolling stock must be operated under the plocking facilities in the train protection systems. Deperator rolling stock meets interface requirement for headlights, marker lights, visibility lights and livery to improve the <i>risibility</i> of the rolling stock from trackside and technical requ	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains	Yes/No No No				Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5	SE SE SE SE SE	Operator Queensland Rail Operator
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2B Q 2C § 2.1 § 2.1.1 § 2.1.2 § 2.1.2 § 2.2 § 2.2.1 § 2.2.2 § 2.2.2 § 2.2.2 § 2.2.2 § 2.2.2 § 2.2.2 § 2.2.3 § 2.2.4 §	H1 - Moving train GHE1 - Collision SHE1.5: Train collision with road vehicle at level crossing Risk Consequence Risk Consequence Category Injury or death Safety Injury or death Safety Injury or death Safety Injury or death Rolling stock does not operate signalling/track circuits (Operator) Rolling stock does not operate signalling/track circuits (Queensland Rail) Inadequate rolling stock visibility and audibility		with the interface requirements. Recovery (Mitigating) Recovery (Mitigating) Derator rolling stock will carry adequate emergency response procedures. Deperator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Preventative / Detective Operator will enable the detection of rolling stock by track circuits and/or axle counters. f the rolling facilities in the train protection systems and Operator must have procedures for the safe passage of the rolling stock across level crossings. Check level crossing flashing lights are operating, if lights not operating than key operate the signal. f the rolling stock cannot reliably operate track circuits for any reason, the rolling stock must be operated under the slocking facilities in the train protecti	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains Queensland Rail SMS SAF/STD/0145/INF - Interface Standards - Sect 2.3 - Visibility and Audibility	Yes/No No No No No No				Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c	SE SE SE SE SE SE SE	Operator Queensland Rail Operator Queensland Rail Operator Queensland Rail
2B Q 2C § 2.1 § 2.1.1 § 2.1.2 § 2.1.2 § 2.2.2 § 2.2.1 § 2.2.2 § 2.2.2 § 2.2.2 § 2.2.2 § 2.2.3 § 2.2.4 § 2.2.5 §	H1 - Moving train GHE1 - Collision GHE1 - Collision with road vehicle at level crossing Risk Consequence Residual Category Injury or death I Safety Injury or death I Safety Injury or death I Safety Injury or death I Cause - Substandard Act/Condition Rolling stock does not operate signalling/track circuits (Operator) Inadequate rolling stock visibility and audibility Unsafe level crossing design or environmental conditions I		with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportative / Detective Operator will enable the detection of rolling stock by track circuits and/or axle counters. ft he rolling stock cannot reliably operate track circuits for any reason, the rolling stock must be operated under the blocking facilities in the train protection systems and Operator must have procedures for the safe passage of the rolling stock devel crossing flashing lights are operating, if lights not operating than key operate the signal. f the rolling stock cannot reliably operate track circuits for any reason, the rolling stock must be operated under the blocking facilitities in the train protection systems. <td>SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains Queensland Rail SMS SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains Queensland Rail SMS SAF/STD/0145/INF - Interface Standards - Sect 2.3 - Visibility and Audibility AS 1742.7 - 2007: Manual of Uniform Traffic Control Devices - Railway Crossings</td> <td>Yes/No No No No No No No</td> <td></td> <td></td> <td></td> <td>Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c</td> <td>SE SE SE SE SE SE SE SE</td> <td>Operator Queensland Rail Operator Queensland Rail Operator Queensland Rail Operator Queensland Rail</td>	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains Queensland Rail SMS SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains Queensland Rail SMS SAF/STD/0145/INF - Interface Standards - Sect 2.3 - Visibility and Audibility AS 1742.7 - 2007: Manual of Uniform Traffic Control Devices - Railway Crossings	Yes/No No No No No No No				Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c	SE SE SE SE SE SE SE SE	Operator Queensland Rail Operator Queensland Rail Operator Queensland Rail Operator Queensland Rail
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2B Q 2C § 2.1 § 2.1.1 § 2.1.2 § 2.1.2 § 2.2 § 2.2.1 § 2.2.2 § 2.2.3 § 2.2.3 § 2.2.4 § 2.2.5 § 2.2.6 § ITEM §	H1 - Moving train GHE1 - Collision SHE1.5: Train collision with road vehicle at level crossing Risk Consequence Risk Consequence Category Injury or death Safety Injury or death Safety Injury or death Safety Injury or death Rolling stock does not operate signalling/track circuits (Operator) Rolling stock does not operate signalling/track circuits (Queensland Rail) Inadequate rolling stock visibility and audibility Unsafe level crossing design or environmental conditions Level crossing users ignore level crossing rules (Operator)		with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Deprator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Preventative / Detective Deprator will enable the detection of rolling stock by track circuits and/or axle counters. 1 the rolling stock cannot reliably operate track circuits for any reason, the rolling stock must be operated under the olocking facilities in the train protection systems. Check level crossing flashing lights are operating, if lights not operating than key operate the signal. f the rolling stock meets interface requirement for headlights, marker lights, visibility lights and livery to improve the <i>risibility</i> of the	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains Queensland Rail SMS SAF/STD/0145/INF - Interface Standards - Sect 2.20 - Signalling of Trains Queensland Rail SMS SAF/STD/0145/INF - Interface Standards - Sect 2.3 - Visibility and Audibility AS 1742.7 - 2007: Manual of Uniform Traffic Control Devices - Railway Crossings SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	Yes/No No No No No No No No				Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c	SE SE SE SE SE SE SE SE PE	Operator Queensland Rail Operator Queensland Rail Operator Queensland Rail Operator Queensland Rail Operator

Safety and Environment Interface Risk Management Plan Document No. NBOI-IRMP-AA-XXX

Queensland Rail Limited and XXXX

3B												
	GHE1 - Train	collision										
3C		n collision with infrastructure										
		n impacted by structural collapse, landslide or material loading sion with road vehicles not at level crossings (eg machinery /	•									
	working track											
3.1	Risk	Consequence	Residual Risk	Recovery (Mitigating)								
3.1.1	Category Safety	Injury or death	C L R	Reportable incidents are managed in accordance with emergency response procedures.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency	No			×	Elimination: 1 - 5	SE	Operator
0	Callety	injuly of addition		Operator rolling stock will carry adequate emergency equipment.	Requirements					Control: a, b, c	01	oporator
				Operator will have appropriate emergency response and recovery plans in place.	Operator Emergency Response Plan					Post event		
	0.4.1			Emergency procedure will include contact details of key personnel where necessary.				_	<u> </u>		05	0 1 10 1
3.1.2	Safety	Injury or death		Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3.	No)	2	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
										Post event		
3.2	Demogradiate	Cause - Substandard Act/Condition		Preventative / Detective	CAE/CTD/0445/INE_Interface Standards_Cost 4.4.4.4. Track Manitering	Na				Elimination: 4 E	SE	Oneveter
3.2.1	Damaged Inita	astructure (Operator)		Operator train crew report infrastructure irregularities to relevant Network Control	SAF/STD/0145/INF - Interface Standards - Sect 1.4.1.1 - Track Monitoring - Hazard Location	No)		Elimination: 1 - 5 Control: a, b, c	SE	Operator
3.2.2	Damaged infra	astructure (Queensland Rail)		Infrastructure maintained to appropriate standards by competent workers	Queensland Rail SMS	No		x >	x	Elimination: 1 - 5	SE	Queensland Rail
										Control: a, b, c		-
3.2.3	Infrastructure i	incompatible for operation (Operator)		Operator will follow the relevant Train Route Acceptance process. Operator will review any infrastructure changes to Queensland Rail infrastructure advised by Queensland Rail that may	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route	No		,	(Elimination: 1 - 5 Control: a, b, c	SE	Operator
				impact its operations.								
3.2.4	Infrastructure i	incompatible for operation (Queensland Rail)		Queensland Rail will assess the train operation according to the Train Route Acceptance process	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route	No)	x	Elimination: 1 - 5	SE	Queensland Rail
				Queensland Rail will advise and consult with Operator regarding any infrastructure changes to Queensland Rail	Acceptance					Control: a, b, c		
325	Incompatible o	operational procedures (Operator)		infrastructure that may impact the Operator's operations. Business instructions and procedures have been developed by the Operator with Queensland Rail.	SAF/STD/0145/INF - Interface Standards - Sect 1.3 - Requirements for	No		,	<u>_</u>	Elimination: 1 - 5	SE	Operator
0.2.0	incompanyic c			Where changes to specific business instructions and procedures impact on other stakeholders, that document must be	Mobile Voice Radio Communications					Control: a, b, c	01	opolator
				reviewed and agreed by the affected stakeholder before being issued.								
				Operator will use radio communications compliant with the relevant Queensland Rail Standards. Regular management level meetings are conducted between Operator and Queensland Rail.								
3,2.6	Incompatible of	operational procedures (Queensland Rail)		Business instructions and procedures have been developed by Queensland Rail with Operator.	SAF/STD/0145/INF - Interface Standards - Sect 1.3 - Requirements for	No	<u> </u>	,	<u>_</u>	Elimination: 1 - 5	SE	Queensland Rail
0.2.0	incompanyic c			Where changes to specific business instructions and procedures impact on other stakeholders, that document must be	Mobile Voice Radio Communications					Control: a, b, c	01	quoonolana Haii
				reviewed and agreed by the other stakeholder before being issued.								
				Queensland Rail will use radio communications compliant with the relevant Queensland Rail Standards. Regular management level meetings are conducted between Operator and Queensland Rail.								
3.2.7	Lack of worker	r competence (Operator)		Operator workers will be competent in the applicable Queensland Rail standards	Operator SMS	No		,	x	Elimination: 1 - 5	SE	Operator
										Control: a, b, c		
3.2.8	Lack of worker	r competence (Queensland Rail)		Queensland Rail workers will be competent in the applicable Queensland Rail standards	Queensland Rail SMS	No)	×	Elimination: 1 - 5	SE	Queensland Rail
										Control: a, b, c		
3.2.9	Unauthorised i	rolling stock (Operator)		Train list submitted to Network Control. Operator to use only authorised rolling stock.	SAF/STD/0145/INF - Interface Standards - Sect 3.2 - Rolling Stock Authorisation	No)	¢	Elimination: 1 - 5 Control: a, b, c	SE	Operator
				Operator to developing admonsed rolling stock.	Autorisation					Control. a, b, c		
3.2.10	Unauthorised	rolling stock (Queensland Rail)		Queensland Rail compares submitted train list to authorised rolling stock list (Vizirail)	SAF/STD/0145/INF - Interface Standards - Sect 3.2 - Rolling Stock Authorisation	No		,	¢	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
3.2.11	Rolling stock p	profile exceeds allowable rolling stock outline.		Operator rolling stock complies with Queensland Rail allowable rolling stock outlines and has appropriate authorities in	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route	No		x >	κ.	Elimination: 1 - 5	FE	Operator
				accordance with the relevant Train Route Acceptance process. Operator rolling stock to comply with nominated rolling stock outlines for the defined routes.	Acceptance					Control: a, b, c		
3.2.12	Defective rollin	ng stock		Operator has procedures for pre-departure checks for compliance with Operator standards.	Operator SMS	No		,	x	Elimination: 1 - 5	SE	Operator
				Operator has procedures for tracking defective rolling stock.						Control: a, b, c		
0.0.40	Delline etc.	not securely stabled and/or stowed on the Nominated Network		Operator rolling stock maintained in accordance with Operator's maintenance standards.	OAE/OTD/0445/INE_Interface_Otendends_Oper(0.0_Oper(provide))	N				Elizabetica 4 E	05	Orienter
3.2.13	Rolling stock n			Operator workers will comply with Queensland Rail safeworking procedures. Operator will advise Queensland Rail where rolling stock is stowed and/or stored.	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No		x >	(Elimination: 1 - 5 Control: a, b, c	SE	Operator
2211				Operator will agree with Queensland Rail stowage and storage locations.								
3.2.14	Uneven loadin	ng or loading profile exceeds allowable loading outline.		Operator to have rolling stock loaded to comply with the interface clearance requirements.	SAF/STD/0145/INF - Interface Standards - Sect 3.1.3 - Route Criteria	No		,	ر	Elimination: 1 - 5	SE	Operator
5.2.14	Uneven loadin				SAF/STD/0145/INF - Interface Standards - Sect 3.1.3 - Route Criteria Factors	No		,	<		SE	Operator
	Uneven loadin	ng or loading profile exceeds allowable loading outline.		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving.		No	IERARCH		×	Elimination: 1 - 5 Control: a, b, c		
<i>ITEM</i>	Uneven loadin			Operator to have rolling stock loaded to comply with the interface clearance requirements.	Factors	No 1	IERARCH 2b	Y		Elimination: 1 - 5 Control: a, b, c	SE CONTROL EFFECTIVENESS	Operator RESPONSIBILITY (Control Owner)
ITEM		ng or loading profile exceeds allowable loading outline.		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS	Factors REFERENCE DOCUMENTS		-	Y		Elimination: 1 - 5 Control: a, b, c	CONTROL	RESPONSIBILITY
ITEM 4A	H1 - Moving t	ng or loading profile exceeds allowable loading outline. RISK DESCRIPTION		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply	Factors REFERENCE DOCUMENTS	1	-	Y		Elimination: 1 - 5 Control: a, b, c	CONTROL	RESPONSIBILITY
ITEM 4A	H1 - Moving tu GHE1 - Collis SHE1.6 - Train	ng or loading profile exceeds allowable loading outline. RISK DESCRIPTION train tion n collision with object on line (not resulting in derailment)		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply	Factors REFERENCE DOCUMENTS	1	-	Y		Elimination: 1 - 5 Control: a, b, c	CONTROL	RESPONSIBILITY
ITEM 4A 4B 4C	H1 - Moving t GHE1 - Collis SHE1.6 - Train SHE1.10 - Tra	ng or loading profile exceeds allowable loading outline. RISK DESCRIPTION train tion n collision with object on line (not resulting in derailment) ain collision with native wildlife	Booldwal Dict	Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements.	Factors REFERENCE DOCUMENTS	1	-	Y		Elimination: 1 - 5 Control: a, b, c	CONTROL	RESPONSIBILITY
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ITEM 4A 4B 4C 4.1	H1 - Moving tr GHE1 - Collis SHE1.6 - Trai SHE1.10 - Tra Risk Category	rain n collision with native wildlife Consequence		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator rolling stock will carry adequate emergency response and recovery plans in place.	Factors REFERENCE DOCUMENTS (Including but not limited to) SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency	1 Yes/No	-	Y 2c 24	2e	Elimination: 1 - 5 Control: a, b, c JUSTIFICATION	CONTROL EFFECTIVENESS	RESPONSIBILITY (Control Owner)
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<i>ITEM</i> 4A 4B 4C 4.1 4.1.1	H1 - Moving t GHE1 - Collis SHE1.6 - Train SHE1.10 - Tra Risk Category Safety	rain n collision with native wildlife Consequence		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator rolling stock will carry adequate emergency response and recovery plans in place.	REFERENCE DOCUMENTS (Including but not limited to) SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan	1 Yes/No No	-	Y 20 20 20 20 20 20 20 20 20 20 20 20 20 2	x I	Elimination: 1 - 5 Control: a, b, c JUSTIFICATION Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c	CONTROL EFFECTIVENESS	RESPONSIBILITY (Control Owner)
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<i>ITEM 4A 4B 4C 4.1 4.1.1 4.1.2 4.1.3 4.1.4</i>	H1 - Moving to GHE1 - Collis SHE1.6 - Trais SHE1.10 - Tra Risk Category Safety Safety Environment	rain rain rain rain rollision with object on line (not resulting in derailment) ricollision with native wildlife Consequence Injury or death Injury or death Environmental harm Environmental harm		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Operator to have a procedure outlining how to identify general animal details and to report wildlife to Network Control. Operator to report any train hits of native fauna to Network Control in accordance with the emergency response procedures. Following notification of native fauna being hit, Network Control will report the incident to Queensland Rail's Environmental Hotline (3072 5000) and/or EPA Hotline (1300 130 372) and follow their instructions.	REFERENCE DOCUMENTS (Including but not limited to) REFERENCE DOCUMENTS (Including but not limited to) SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module	1 Yes/No No	-	Y 20 20 20 20 20 20 20 20 20 20 20 20 20 2	x Contraction of the second se	Elimination: 1 - 5 Control: a, b, c JUSTIFICATION Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c	CONTROL EFFECTIVENESS SE SE SE	RESPONSIBILITY (Control Owner) Operator Queensland Rail Operator
ITEM 4A 4B 4C 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1	H1 - Moving t GHE1 - Collis SHE1.6 - Train SHE1.10 - Tra Risk Category Safety Safety Environment Environment	rain rrain rrain rrain rrain rrain rollision with object on line (not resulting in derailment) ricollision with native wildlife Consequence Injury or death Injury or death Environmental harm Cause - Substandard Act/Condition t on track (Operator)		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Operator to have a procedure outlining how to identify general animal details and to report wildlife to Network Control. Operator to report any train hits of native fauna to Network Control in accordance with the emergency response procedures. Following notification of native fauna being hit, Network Control will report the incident to Queensland Rail's environmental Hotine (3072 5000) and/or EPA Hotine (1300 130 372) and follow their instructions. Preventative / Detective Safe work practices and trackside safety awareness adopted by workers	REFERENCE DOCUMENTS (Including but not limited to) REFERENCE DOCUMENTS (Including but not limited to) SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. Operator SMS	No No No	-		x x x x x x x x x x x x x x x x x x x	Elimination: 1 - 5 Control: a, b, c JUSTIFICATION Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c	CONTROL EFFECTIVENESS SE SE SE SE SE SE	RESPONSIBILITY (Control Owner) Queensland Rail Operator Queensland Rail Queensland Rail Operator Queensland Rail
<i>ITEM 4A 4B 4C 4.1 4.1.1 4.1.2 4.1.3 4.1.4</i>	H1 - Moving t GHE1 - Collis SHE1.6 - Train SHE1.10 - Tra Risk Category Safety Safety Environment Environment	rain rain rain rain rollision with object on line (not resulting in derailment) rain collision with native wildlife Consequence Injury or death Injury or death Environmental harm Environmental harm Cause - Substandard Act/Condition		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Operator to have a procedure outlining how to identify general animal details and to report wildlife to Network Control. Operator to have a procedure outlining how to identify general animal details and to report wildlife to Network Control. Operator to report any train hits of native fauna to Network Control in accordance with the emergency response procedures. Following notification of native fauna being hit, Network Control will report the incident to Queensland Rail's Environmental Hotine (3072 5000) and/or EPA Hotline (1300 130 372) an	REFERENCE DOCUMENTS (Including but not limited to) REFERENCE DOCUMENTS (Including but not limited to) SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3.	No No	-		x x x x x x x x x x x x x x x x x x x	Elimination: 1 - 5 Control: a, b, c JUSTIFICATION Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c	CONTROL EFFECTIVENESS	RESPONSIBILITY (Control Owner) Queensland Rail Operator Queensland Rail Queensland Rail
<i>ITEM 4A 4B 4C 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2.1 4.2.1</i>	H1 - Moving t GHE1 - Collis SHE1.6 - Train SHE1.10 - Tra Risk Category Safety Safety Environment Environment	rg or loading profile exceeds allowable loading outline.		Operator to have rolling stock loaded to comply with the interface clearance requirements. Loading to be secured to prevent moving. CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Operator to have a procedure outlining how to identify general animal details and to report wildlife to Network Control. Operator to report any train hits of native fauna to Network Control in accordance with the emergency response procedures. Following notification of native fauna being hit, Network Control will report the incident to Queensland Rail's environmental Hotine (3072 5000) and/or EPA Hotine (1300 130 372) and follow their instructions. Preventative / Detective Safe work practices and trackside safety awareness adopted by workers	REFERENCE DOCUMENTS (Including but not limited to) REFERENCE DOCUMENTS (Including but not limited to) SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3. Operator SMS	No No No			x x x x x x x x x x x x x x x x x x x	Elimination: 1 - 5 Control: a, b, c JUSTIFICATION Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c	CONTROL EFFECTIVENESS SE SE SE SE SE SE	RESPONSIBILITY (Control Owner) Queensland Rail Operator Queensland Rail Queensland Rail Operator Queensland Rail

Safety and Environment Interface Risk Management Plan Document No. NBOI-IRMP-AA-XXX
											Docui	nent No. NBOI-II	
4.2.4	Vandalism (Que	ensland Rail)		Queensland Rail will implement an appropriate corridor security and trespass strategy	Queensland Rail SMS	No			x	х	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
4.2.5	Landslides, rock	falls, floods, etc (Operator)		Operator crews and other workers will be vigilant. All incidents and unusual occurrence will be reported to the relevant Network Controller. Operator to have locomotive/driving units designed to control the risk of derailment if the train strikes an object on the	Operator SMS SAF/STD/0145/INF - Interface Standards - Sect 2.5.4 - Train Obstacle Deflector	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
4.2.6	Landslides, rock	falls, floods, etc (Queensland Rail)		Maintenance and Inspections to applicable standard. Pre-trip infrastructure inspection arranged by Queensland Rail where appropriate.	Queensland Rail SMS	No			x	x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
	Object on track (Animals stray on			Operator crews and other workers will be vigilant. All incidents and unusual occurrence will be reported to the relevant Network Controller. Operator to have locomotive/driving units designed to control the risk of derailment if the train strikes an object on the track.	Operator SMS SAF/STD/0145/INF - Interface Standards - Sect 2.5.4 - Train Obstacle Deflector	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
4.2.8	Objects on track Animals stray on	: (Queensland Rail) to track		All incidents that may impact on the operator will be reported to Operator. Appropriate fencing and barriers will be installed and maintained to applicable standards.	Queensland Rail SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
							1						
ITEM		RISK DESCRIPTION		CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements.	REFERENCE DOCUMENTS (Including but not limited to)	1 Yes/No	2a	lIERARC 2b		2d 2	JUSTIFICATION	CONTROL EFFECTIVENESS	RESPONSIBILITY (Control Owner)
	H1 - Moving tra												
	GHE2 - Train de SHE2.1: Passer	erailment nger train derailment (not involving level crossing collisio	n)										
		t train / OTV derailment (not involving level crossing collis											
5.1	Risk	Consequence	Residual Risk										
5.1.1	Category Safety	Injury or death	C L R	Reportable incidents are managed in accordance with emergency response procedures.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency	No				x	Elimination: 1 - 5	SE	Operator
				Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary.	Requirements Operator Emergency Response Plan						Control: a, b, c Post event		
5.1.2	Safety	Injury or death		Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3.	No				x	Elimination: 1 - 5 Control: a, b, c Post event	SE	Queensland Rail
5.2		Cause - Substandard Act/Condition		Preventative / Detective			-				i ost event		
	Unknown rolling	stock characteristics		On track testing to validate rolling stock characteristics, will be negotiated with Queensland Rail prior to	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route	No			х	x	Elimination: 1 - 5	SE	Operator
	J			commencement. Joint risk assessment will be conducted, if required, with Queensland Rail.	Acceptance SAF/STD/0145/INF - Interface Standards - Sect 3.2 - Rolling Stock						Control: a, b, c		
5.2.2	Train operating a	at a speed exceeding the mechanical capability of the rolling s	stock	Operator will comply with the relevant Train Route Acceptance Process and the Rolling Stock Certification Process. Operator uses competent train crews.	Authorisation Operator SMS	No	+	$\left \right $	-+	x	Elimination: 1 - 5	SE	Operator
5.2.3		t compatible with infrastructure - eg train exceeds specific infra	astructure	Supervisory systems fitted to locomotive/driving units. Operator will follow the relevant Train Route Acceptance process.	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route	No				x	Control: a, b, c Elimination: 1 - 5	SE	Operator
5.2.4	Rolling stock not	as axle loads (Operator) t compatible with infrastructure - eg train exceeds specific infra	astructure	Train list submitted to relevant Network Control. Queensland Rail will assess the train operation according to the Train Route Acceptance process.	Acceptance SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route	No				x	Control: a, b, c Elimination: 1 - 5	SE	Queensland Rail
		as axle loads (Queensland Rail)		Queensland Rail to provide advice on day of operation for unplanned situations.	Acceptance SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking						Control: a, b, c	27	
5.2.5	Unauthorised rol	lling stock configuration (Operator)		Train list submitted to relevant Network Control. Operator to use only authorised rolling stock configurations. Operator to advise Queensland Rail of required rolling stock configurations and provide load tables. Operator to certify rolling stock configurations in accordance with relevant Train Route Acceptance process.	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route Acceptance SAF/STD/0145/INF - Interface Standards - Sect 3.2 - Rolling Stock Authorisation	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.6	Unauthorised rol	lling stock configuration (Queensland Rail)		Rolling stock configurations authorised in accordance with Train Route Acceptance process and load tables provided	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route Acceptance	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
5.2.7	Train collides wit	th object on track (Operator)		Cowcatcher or other approved device fitted to control the risk of derailment if the locomotive/driving unit strikes an object on the track. Train crew vigilance.	SAF/STD/0145/INF - Interface Standards - Sect 2.5.4 - Train Obstacle Deflector	No			x	x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.8	Train collides wit	th object on track (Queensland Rail)		Queensland Rail will advise of any reported objects on track. Queensland Rail will assess the train operation according to the Train Route Acceptance process. Appropriate fencing and barriers will be installed and maintained to applicable standards.	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route Acceptance SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
5.2.9	Incompatible ope	erational procedures (Operator)		Business instructions and procedures have been developed by the Operator with Queensland Rail. Where changes to specific business instructions and procedures impact on other stakeholders, that document must be reviewed and agreed by the affected stakeholder before being issued. Operator will use radio communications compliant with the relevant Queensland Rail Standards. Regular management level meetings are conducted between Operator and Queensland Rail.	SAF/STD/0145/INF - Interface Standards - Sect 1.3 - Mobile Voice Radio Communications Systems	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
		erational procedures (Queensland Rail)		Business instructions and procedures have been developed by Queensland Rail with Operator. Where changes to specific business instructions and procedures impact on other stakeholders, that document must be reviewed and agreed by the other stakeholder before being issued. Queensland Rail will use radio communications compliant with the relevant Queensland Rail Standards. Regular management level meetings are conducted between Operator and Queensland Rail.	SAF/STD/0145/INF - Interface Standards - Sect 1.3 - Mobile Voice Radio Communications Systems	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
		compatible for operation (Operator)		Operator will follow the relevant Train Route Acceptance process. Operator will be advised and consulted regarding any infrastructure changes that may impact its operations.	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route Acceptance	No				×	Elimination: 1 - 5 Control: a, b, c	SE	Operator
		compatible for operation (Queensland Rail)		Queensland Rail will assess the train operation according to the Train Route Acceptance process. Operator will be advised and consulted regarding any infrastructure changes that may impact its operations.	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route Acceptance	No				×	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
5.2.13	Damage/failure o	of infrastructure		Queensland Rail will maintain infrastructure to appropriate standards. Queensland Rail will implement operational restrictions for hot/adverse weather conditions and damaged infrastructure.	Queensland Rail SMS	No				×	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
5.2.14	Defective rolling	stock		Operator has procedures for pre-departure checks for compliance with Operator standards. Operator has procedures for tracking defective rolling stock. Operator rolling stock maintained in accordance with Operator's maintenance standards.	Operator SMS	No	1			x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.15	Altered infrastrue	cture		Infrastructure altered for testing rolling stock shall be returned to operational condition after testing		No	1			х	Elimination: 1 - 5	FE	Queensland Rail
5.2.16	Excessive in trai	in forces		Operator to certify rolling stock configuration. Drivers will be competent to operate trains to minimise in train forces taking into account marshalling of rail vehicles.	SAF/STD/0145/INF - Interface Standards - Sect 3.2 - Rolling Stock Authorisation Operator SMS	No				x	Control: a, b, c Elimination: 1 - 5 Control: a, b, c	SE	Operator
				Operator crews and other workers will be vigilant	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No	1			x	Elimination: 1 - 5	SE	Operator
5.2.17	Vandalism (Ope	rator)		All incidents and unusual occurrence will be reported to the relevant Network Controller							Control: a, b, c	۱ ۱	
	Vandalism (Ope Vandalism (Que				Queensland Rail SMS	No			x	x	Control: a, b, c Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail

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5.2.20	Wheelset geor	ometry incompatible with track	Operator to have rolling stock wheelset geometry compliant with the interface requirements	SAF/STD/0145/INF - Interface Standards - Sect 2.15 - Wheelsets	No			х	х	Elimination: 1 - 5 Control: a, b, c	FE	Operator
5.2.21		diameter and or tread width causes excessive wheel/rail contact stresses including ind rail fatique	Operator to have rolling stock wheelset geometry compliant with the interface requirements	SAF/STD/0145/INF - Interface Standards - Sect 2.15 - Wheelsets	No			х	х	Elimination: 1 - 5 Control: a, b, c	FE	Operator
5.2.22		s incompatible with rail profiles and points and crossings in new and/or fully worn	Operator to have wheel profile compliant with the interface requirements	SAF/STD/0145/INF - Interface Standards - Sect 2.15 - Wheelsets	No			х	х	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.23	Wheel defects	\$	Operator will monitor and address inspection and management of wheel defects	SAF/STD/0145/INF - Interface Standards - Sect 2.11 - Wheel Defect Identification and Rectification	No			x	x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.24	Remote locom mode	notive continues to feed air to brake pipe when in emergency brake application	Operator rolling stock to comply with interface requirements. Operator will maintain rolling stock to appropriate standards. Operator uses competent train crews.	Operator SMS SAF/STD/0145/INF - Interface Standards - Sect 2.16 - Brake System Requirements, Sect 2.16.1 - General	No			х	x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.25	Axle loads exc	ceed allowable axle loads for the route	Operator basis completent rain closes. Operator must have a process to comply with allowable axle loads	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route Acceptance, Sect 1.1.4 - Axle Loads	No			х	x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.26	Train speed ex	exceeds capability of the infrastructure (Operator)	Train crew will be competent. Supervisory systems fitted to locomotive/driving units.	Operator SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.27	Train speed ex	exceeds capability of the infrastructure (Queensland Rail)	Queensland Rail is responsible for track design and installation of speed boards. Track side infrastructure to facilitate required train protection systems are located in nominated areas of the network.	Queensland Rail SMS	No			x	x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
5.2.28	Incompatible a	and unauthorised train configurations during recovery	Operator will have an approved process for the recovery of a disabled train. Train configuration during recovery must comply with the relevant Train Route acceptance.	SAF/STD/0145/INF - Interface Standards - Sect 3.1 - Train Route Acceptance Operator SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.29	Adverse weath performance (ther conditions (eg heat, flood, high winds) affect rolling stock/operational (Operator)	Operator will consider likelihood of extreme weather conditions occurring on the Nominated Network and advise Queensland Rail of any limitations of rolling stock caused by extreme weather conditions	Operator SMS Operator SMS SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
5.2.30		ther conditions (eg heat, flood, high winds) affect rolling stock/operational (Queensland Rail)	Queensland Rail will consider likelihood of extreme weather conditions occurring on the Nominated Network and advise the Operator of any limitations of rail infrastructure caused by extreme weather conditions	Queensland Rail SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
5.2.31	Uneven loadin	ng	Operator to have rolling stock loaded evenly to minimise the variation in axle loads and wheel loads. Loading to be secured to prevent moving.	SAF/STD/0145/INF - Interface Standards - Sect 3.1.3 - Route Criteria Factors	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
												2505 21121
ITEM		RISK DESCRIPTION	CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply	REFERENCE DOCUMENTS (Including but not limited to)	1	2a	IIERAR 2b	CHY 2c	2d	JUSTIFICATION 2e	CONTROL EFFECTIVENESS	RESPONSIBILITY (Control Owner)
			with the interface requirements.	(Yes/No							(
	H6 - Gas und	der pressure osion / pressure rupture	-									
		osion / pressure rupture senger train explosion / pressure rupture	-									
		ght train or OTV explosion / pressure rupture										
		ion explosion / pressure rupture										
		corridor explosion / pressure rupture										
		ot / yard / siding / other rail associated buildings pressure rupture										
		-rail associated buildings pressure rupture										
		nel pressure rupture										
6.1	Risk	Consequence Residual Ris										
0.4.1	Category	C L F			NI NI					Elfondura di Arre	05	0
6.1.1	Safety	Injury or death	Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan	No				x	Elimination: 1 - 5 Control: a, b, c Post event	SE	Operator
6.1.2	Safety	Injury or death	Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3.	No				x	Elimination: 1 - 5 Control: a, b, c Post event	SE	Queensland Rail
6.2		Cause - Substandard Act/Condition	Preventative / Detective									
6.2.1	Mechanical fai	ailure of pressure vessels	Pressure vessels built and maintained to technical requirements	Operator SMS	No			x	x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
6.2.2	Train operating	ng in confined space	Operator has procedures in place to avoid stopping in tunnels and confined spaces where possible	Operator SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
ITEM		RISK DESCRIPTION	CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply	REFERENCE DOCUMENTS (Including but not limited to)	1	2a	IIERAR 2b	CHY 2c	2d	JUSTIFICATION	CONTROL EFFECTIVENESS	RESPONSIBILITY (Control Owner)
74	H4 - Heat and	d/or flammable material	with the interface requirements.		Yes/No							
	GHE3 - Fire											
	SHE3.1: Pass											
7C		sender train fire	- · · · · · · · · · · · · · · · · · · ·									
	SHE3 2. Eroio		-									
		ght train or OTV fire										
	SHE3.3: Stati	ght train or OTV fire ion fire										
	SHE3.3: Stati SHE3.4: Lines	ght train or OTV fire tion fire eside fire										
	SHE3.3: Stati SHE3.4: Lines SHE3.5: Depo	ght train or OTV fire ion fire sside fire ot / yard / siding / other rail associated buildings / assets fire										
	SHE3.3: Stati SHE3.4: Lines SHE3.5: Depo SHE3.6: Non-	ght train or OTV fire tion fire eside fire tot / yard / siding / other rail associated buildings / assets fire -rail associated buildings fire										
	SHE3.3: Stati SHE3.4: Lines SHE3.5: Depo SHE3.6: Non- SHE3.7: Tunn	ght train or OTV fire ion fire sside fire iot / yard / siding / other rail associated buildings / assets fire -rail associated buildings fire nel fire	Recovery (Mitigating)									
	SHE3.3: Stati SHE3.4: Lines SHE3.5: Depo SHE3.6: Non-	ght train or OTV fire tion fire eside fire tot / yard / siding / other rail associated buildings / assets fire -rail associated buildings fire										
	SHE3.3: Stati SHE3.4: Lines SHE3.5: Depo SHE3.6: Non- SHE3.7: Tunn Risk	ght train or OTV fire ion fire sside fire iot / yard / siding / other rail associated buildings / assets fire ierail associated buildings fire nel fire Consequence Residual Ris		SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency	No				x	Elimination: 1 - 5	SE	Operator
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Image: second secon	7.2.2	Trackside fire	e (Queensland Rail)		5	Queensland Rail SMS	No		x			SE	Queensland Rail
$ \frac $	7.2.3	Fire on train			Operator to comply with design and maintenance requirements for rolling stock. All incidents of fire will be reported to the relevant Network Controller and managed in accordance with emergency response procedures. Fire fighting equipment (eg fire extinguisher) carried on-board and Operator workers will be competent to use them.	Requirements	No		x			SE	Operator
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Image: state sta	7.2.6	Wildfire cause	ed by locomotive/driving units (Operator)		spark emissions under all load and speed conditions. Where spark emissions are occurring, systems must be developed and implemented to effectively manage these occurrences in both the short and the long term. Appropriate modifications must be made to minimise the incidence of spark emission. Locomotive/driving units emitting sparks that may cause wildfire must be managed to minimise the fire risk, or in extreme cases withdrawn from service. The timing of this withdrawal will depend on the severity of the fire risk, assets at risk, curing rate of the trackside vegetation and the topography of the area. Systems must be developed for locomotive/driving units withdrawn from service to not re-enter traffic prior to passing an engine inspection, load box	•	No		x			SE	Operator
Image: state st	17514	1			CONTROLS			 DADCI	IV.			CONTROL	
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$ \frac{1}{12} \frac{1}{2} $	8.2.3	Dewirement (0	(Queensland Rail)		Queensland Rail will design and maintain overhead line equipment to appropriate standards	Queensland Rail SMS	No		х х	1 1		SE	Queensland Rail
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12.6 Damaged Infrastructure (Queendam Rai) No No <t< td=""><td>8.2.5</td><td></td><td>live electrical equipment on rolling stock / rolling stock electrical faults</td><td></td><td>Operator will design and maintain rolling stock to agreed standards</td><td>SAF/STD/0145/INF - Interface Standards - Module 2 - Rolling Stock.</td><td>No</td><td></td><td>x x</td><td></td><td>Elimination: 1 - 5</td><td>FE</td><td>Operator</td></t<>	8.2.5		live electrical equipment on rolling stock / rolling stock electrical faults		Operator will design and maintain rolling stock to agreed standards	SAF/STD/0145/INF - Interface Standards - Module 2 - Rolling Stock.	No		x x		Elimination: 1 - 5	FE	Operator
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Image: sec: sec: sec: sec: sec: sec: sec: se	8.2.6	-	rastructure (Operator)		Operator train crew report infrastructure irregularities to relevant Network Control	SAF/STD/0145/INF - Interface Standards - Sect 1.4.1.1 - Track Monitoring - Hazard Location	No		x		Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5	SE	Operator
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9 SHE64: Person dragged by train SHE93: Worker struck by train OTV road vehicle. SHE93: ST00145/INF - Interface Standard Sect 2.14 - Emergency Requirements Operator Will have appropriate emergency response procedures. SHE93: C0022/EMG - Rail Emergency Response Procedures Module EP1 (1 and EP3. No No No No SK SK Operator SC005: a, b, c Operator SK 9.12 Stef Struct		-	rastructure (Operator) rastructure (Queensland Rail)		Operator train crew report infrastructure irregularities to relevant Network Control Infrastructure maintained to appropriate standards by competent workers CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply	SAF/STD/0145/INF - Interface Standards - Sect 1.4.1.1 - Track Monitoring - Hazard Location Queensland Rail SMS REFERENCE DOCUMENTS	No No 1	 RARCH	x x		Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c	SE SE CONTROL	Operator Queensland Rail RESPONSIBILITY
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9.2.3 Tackside access by Operator workers is not carried out safely Operator workers will be competent in trackside safety. SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking No X Elimination: 1 - 5 SE Operator 9.2.4 Worker fatigue (Operator) Operator management program. Operator Operator No V X Elimination: 1 - 5 SE Operator	ITEM 9A 9B 9C 9.1 9.1.1 9.1.2	H1: Moving tr GHE6: Safety SHE6.4: Pers SHE6.4: Pers SHE9.3: World Risk Category Safety Safety Workers who	rastructure (Operator) rastructure (Queensland Rail)	Residual Risk C L R	Operator train crew report infrastructure irregularities to relevant Network Control Infrastructure maintained to appropriate standards by competent workers CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Retern v / Detective All workers will be competent with trackside safety and wear appropriate PPE.	SAF/STD/0145/INF - Interface Standards - Sect 1.4.1.1 - Track Monitoring - Hazard Location Queensland Rail SMS	No No 1 Yes/No No	 RARCH	X X X X 2c 2d X X X X X	20	Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c JUSTIFICATION Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Control: a, b, c	SE SE CONTROL EFFECTIVENESS SE SE	Operator Queensland Rail RESPONSIBILITY (Control Owner) Operator Queensland Rail
9.2.4 Worker fatigue (Operator) Operator has a fatigue management program. Operator SMS No No x Elimination: 1 - 5 SE Operator	ITEM 9A 9B 9C 9.1 9.1.1 9.1.2 9.2 9.2.1	H1: Moving tr GHE6: Safety GHE9: Worke SHE6.4: Pers SHE9.3: Worl Risk Category Safety Safety Workers who network are no Workers who	rastructure (Operator) rastructure (Queensland Rail)	Residual Risk C L R nominated	Operator train crew report infrastructure irregularities to relevant Network Control Infrastructure maintained to appropriate standards by competent workers CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Image: Compliance of the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. All workers will be competent with trackside safety and wear appropriate PPE.	SAF/STD/0145/INF - Interface Standards - Sect 1.4.1.1 - Track Monitoring - Hazard Location Queensland Rail SMS	No No 1 Yes/No No No No	 RARCH	X X X X 2c 2d X X X X X X	20	Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c JUSTIFICATION Elimination: 1 - 5 Control: a, b, c Post event Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c	SE CONTROL EFFECTIVENESS SE SE SE	Operator Queensland Rail RESPONSIBILITY (Control Owner) Operator Queensland Rail Queensland Rail Operator
l l l l l l l l l l l l l l l l l l l	ITEM 9A 9B 9C 9.1 9.1.1 9.1.1 9.1.2 9.2.1 9.2.1 9.2.2	H1: Moving tr GHE6: Safety GHE9: Work SHE6.4: Pers SHE9.3: Worl Risk Category Safety Safety Workers who network are no Workers who network are no	rastructure (Queensland Rail)	Residual Risk C L R nominated	Operator train crew report infrastructure irregularities to relevant Network Control Infrastructure maintained to appropriate standards by competent workers CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements. Image: Compliance of the interface requirements. Recovery (Mitigating) Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedures will be competent with trackside safety and wear appropriate PPE. All workers will be competent in trackside safety and wear appropriate PPE.	SAF/STD/0145/INF - Interface Standards - Sect 1.4.1.1 - Track Monitoring - Hazard Location Queensland Rail SMS	No No 1 Yes/No No No No	 RARCH	X X X X 2c 2d X X X X X X	20	Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c JUSTIFICATION JUSTIFICATION Elimination: 1 - 5 Control: a, b, c Elimination: 1 - 5 Control: a, b, c	SE CONTROL EFFECTIVENESS SE SE SE SE	Operator Queensland Rail RESPONSIBILITY (Control Owner) Operator Queensland Rail Operator Queensland Rail

										Docui	ment No. NBOI-IF	
9.2.5	Worker fatigue	(Queensland Rail)		Queensland Rail has a fatigue management program.	Queensland Rail SMS	No			x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
9.2.6	Worker not awa	are of surroundings (Operator)		Operator workers are competent in trackside safety including the use of personal continual vigilance.	Operator SMS	No			x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
9.2.7	Worker not awa	are of surroundings (Queensland Rail)		Queensland Rail workers are competent in trackside safety including the use of personal continual vigilance.	Queensland Rail SMS	No			x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
9.2.8	Worker incapad	citated (Operator)		Operator has a fitness to work program.	Operator SMS	No			x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
9.2.9	Worker incapad	citated (Queensland Rail)		Queensland Rail has a fitness to work program.	Queensland Rail SMS	No			х	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
	I					I	<u> </u>	<u> </u>		Control: u, b, c		
ITEM		RISK DESCRIPTION		CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements.	REFERENCE DOCUMENTS (Including but not limited to)	1 Yes/No		IIERARCHY 2b 2c	2d 2	JUSTIFICATION	CONTROL EFFECTIVENESS	RESPONSIBILITY (Control Owner)
10A	H1: Moving tra	ain unstable surfaces				100/110						
	H12: Object th	nrown at train										
	H24: Unsecure H30: Low volta	ed/out of gauge objects on rolling stock age electricity										
10B	GHE5: Electric											
		incident while entering / leaving or on train incident in rail corridor										
		r safety incident in depot / yard / siding ral public safety incident in rail corridor / depot / yard / siding	a									
10C	SHE5.4: Electr	ric shock from trackside infrastructure	9									
		on falls between train and platform at station trip / fall while entering / leaving train not at stations										
	SHE6.6: Struc	k by object projected at train										
		corridor slip / trip / fall ker struck by objects from the railway										
		er slip / trip / fall eral public struck by objects from the railway										
10.1	Risk	Consequence	Residual Risk	Recovery (Mitigating)								
10.1.1	Category Safety	Injury or death		Reportable incidents are managed in accordance with emergency response procedures.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency	No			x	Elimination: 1 - 5	SE	Operator
				Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary.	Requirements Operator Emergency Response Plan					Control: a, b, c Post event		
10.1.2	Safety	Injury or death		Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3.	No			х	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
10.2		Cause - Substandard Act/Condition		Preventative / Detective								
10.2.1		vork and operate equipment (eg road vehicles, plant) on or near t	the nominated	All workers will be competent in trackside safety and wear appropriate PPE.	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No			x	Elimination: 1 - 5	SE	Operator
10.2.2	Workers who w	t competent to do so (Operator) vork and operate equipment (eg road vehicles, plant) on or near t	the nominated	Train crew will be vigilant. All workers will be competent in trackside safety and wear appropriate PPE.	Queensland Rail SMS	No			x	Control: a, b, c Elimination: 1 - 5	SE	Queensland Rail
10.2.3	network are no Worker fatigue	t competent to do so (Queensland Rail) (Operator)		Toolbox talks onsite (pre-commencement of work). Operator has a fatigue management program	Operator SMS	No			x	Control: a, b, c Elimination: 1 - 5	SE	Operator
10.2.4	Worker fatigue	(Queensland Rail)		Queensland Rail has a fatigue management program	Queensland Rail SMS	No			x	Control: a, b, c Elimination: 1 - 5	SE	Queensland Rail
10.2.5	Worker not awa	are of surroundings (Operator)		Operator workers are competent in trackside safety including the use of personal continual vigilance	Operator SMS	No			x	Control: a, b, c Elimination: 1 - 5	SE	Operator
10.2.6	Worker not awa	are of surroundings (Queensland Rail)		Queensland Rail workers are competent in trackside safety including the use of personal continual vigilance	Queensland Rail SMS	No			x	Control: a, b, c Elimination: 1 - 5	SE	Queensland Rail
10.2.7	Worker incapad	citated (Operator)		Operator has a fitness to work program	Operator SMS	No			x	Control: a, b, c Elimination: 1 - 5	SE	Operator
10.2.8	Worker incapad	citated (Queensland Rail)		Queensland Rail has a fitness to work program	Queensland Rail SMS	No			x	Control: a, b, c Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
10.2.9	Unauthorised e	entry (Operator)		Drivers and workers vigilance. All incidents will be reported to the relevant Network Controller.	SAF/STD/0145/INF- Interface Standards - Sect 3.3 - Safeworking Operator SMS	No			x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
10.2.10	Unauthorised e	entry (Queensland Rail)		Queensland Rail will have appropriate fencing and signage of the right of way.	Queensland Rail SMS	No	-		x	Elimination: 1 - 5	SE	Queensland Rail
10.2.11	Vandalism (Op	erator)		Queensland Rail will implement an appropriate corridor security and trespass strategy. Operator crews and other workers will be vigilant	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No		x	x	Control: a, b, c Elimination: 1 - 5	SE	Operator
10.2.12	Vandalism (Qu	eensland Rail)		All incidents and unusual occurrence will be reported to the relevant Network Controller Queensland Rail will implement an appropriate corridor security and trespass strategy	Queensland Rail SMS	No	<u> </u>	x	x	Control: a, b, c Elimination: 1 - 5	SE	Queensland Rail
	,,,,			, , , , , , , , , , , , , , , , ,			1			Control: a. b. c		
ITEM		RISK DESCRIPTION		CONTROLS	REFERENCE DOCUMENTS			IIERARCHY		JUSTIFICATION	CONTROL	RESPONSIBILITY
				Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements.	(Including but not limited to)	1 Yes/No	2a	2b 2c	2d 2	e	EFFECTIVENESS	(Control Owner)
11A 11B		nating material										
11B 11C	GHE13: Escap SHE13.1: Pollu	be of contaminating material into environment ution										
11.1	Risk Category	Consequence	Residual Risk	Recovery (Mitigating)								
11.1.1	Environment	Environmental harm		Reportable incidents are managed in accordance with emergency response procedures.	Queensland Rail's list of preferred Environmental Emergency contractors						SE	Operator
				Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary.	in North Queensland SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module							
				Operator agrees to use Queensland Rail's preferred Environmental Emergency contractors in the event of any spillage of fuel and/or product during derailment, collision, etc.	EP1.01 and EP3 ANZECC (Australian and New Zealand Environment and Conservation							
				Operator to dispose of waste products including wastewater, sewage, fuel off the corridor in compliance with any	Council) - Australian Guidelines for Water Quality Monitoring & Reporting							
				required statutory approvals (eg contaminated land). Wastewater, sewage, fuel, etc disposal locations will be agreed with Queensland Rail.	GM005 Internal Environmental Audits & Environmental Authority Renewal Operator Emergency Response Plan							
				Operator will undertake water quality testing in accordance with ANZECC guidelines.								
11.1.2	Environment	Environmental harm		Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3.						SE	Queensland Rail
11.2		Cause - Substandard Act/Condition		Preventative / Detective								

-										-				it No. NBOI-IR	
11.2.1	Spillage of loa	ad, fuel, etc			Rolling stock is designed and maintained to prevent contamination of the infrastructure by dropping or leaking of oil, fuel, sewage or other contaminating material. Rolling stock is to be loaded to prevent spillage of such material. Operators to obtain and comply with any statutory approvals required for their fuelling and train maintenance activities on Queensland Rail corridor land. All wagons carrying dangerous goods must be designed and maintained in accordance with the corresponding statutory dangerous goods code.	SAF/STD/0145/INF - Interface Standards								SE	Operator
11.2.2	Land Contami	ination (excluding item 11.2.3)			Operator to dispose of waste products including wastewater, sewage, fuel off the corridor in compliance with any required statutory approvals (eg contaminated land) or seek Queensland Rail approval to dispose of on corridor. Operator to obtain and comply with any statutory approvals required for its activities on the Queensland Rail corridor. If loading or unloading is to occur on Queensland Rail's corridor land, the operator shall carry out this activity in accordance with requirements of Queensland Rail's Transfer Facility Requirements document.	Queensland Rail's Transfer Facility Requirements Document								SE	Operator
11.2.3	Ballast and co	prridor contamination caused by product dust			If loading or unloading of product is to occur on Queensland Rail's corridor land, the operator shall carry out this activity in accordance with requirements of Queensland Rail's Transfer Facility Requirements document. All wagons are to be fitted with properly maintained lids or otherwise treated to control dust emissions. At all points along its haul route, Operator shall comply with the minimum Total Moisture Levels (TMLs) specified in the MSDS.	Queensland Rail's Transfer Facility Requirements Document Product's MSDS								SE	Operator
11.2.4	Air pollution af	ffecting adjoining neighbouring properties			Operators to obtain and comply with any statutory approvals required for their fuelling and train maintenance activities on Queensland Rail corridor. Operators to comply with any statutory approvals required for the transport of goods, in particular goods that may pose a dust hazard. All wagons are to be fitted with properly maintained lids or otherwise treated to control dust emissions. At all points along its haul route, Operator shall comply with the minimum Total Moisture Levels (TMLs) specified in the MSDS.									SE	Operator
11.2.5	Dust pollution				It loading or unloading of the product is to occur on Queensland Rail's corridor land, the operator shall carry out this activity in accordance with requirements of Queensland Rail's Transfer Facility Requirements document. At all points along its haul route, Operator shall comply with the minimum Total Moisture Levels (TMLs) specified in the MSDS. All wagons are to be covered by lids or otherwise treated to control dust emissions.	Queensland Rail Transfer Facility Requirements Document Product's MSDS								SE	Operator
11.2.6	Littering and d	dumping			Operator to establish and enforce procedures to prevent littering or dumping of any materials on Queensland Rail or adioining land									SE	Operator
11.2.7	Greenhouse g	gas emissions			Operator to take operational control for statutory greenhouse and energy related reporting									SE	Operator
ITEM		RISK DESCRIPTION			CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements	REFERENCE DOCUMENTS (Including but not limited to)	1 Yes/No	2a	HIERAF 2b	RCHY 2c	2d	JUSTIF 2e	FICATION	CONTROL FECTIVENESS	RESPONSIBILITY (Control Owner)
	H14: Noise GHE12: Noise	e emissions			with the interface requirements.		Yes/No								
12C 12.1	SHE12.1: Exc Risk	cessive noise emissions Consequence	Rosi	idual Risk	Recovery (Mitigating)			_							
	Category			L R											
12.1.1	Environment	Environmental harm			Operator will investigate and respond to all environmental complaints in the Operator's Line of Business responsibility circle outlined in the agreed "Complaints Responsibility' worksheet.	Agreed "Complaint Responsibility" IRMP worksheet								SE	Operator
12.1.2	Environment	Environmental harm			Queensland Rail will investigate and respond to all environmental complaints in the Railway Manager's Line of Business responsibility circle outlined in the agreed "Complaints Responsibility' worksheet.	Agreed "Complaint Responsibility" IRMP worksheet								SE	Queensland Rail
12.2		Cause - Substandard Act/Condition			Preventative / Detective										
12.2.1	General Noise	e (Operator)			Operator to comply with above-rail obligations outlined in Queensland Rails EMS/STD/46/004 - Code of Practice for Railway Noise Management, in particular, section 6.2 meaning the Operator will conduct a desktop noise assessment prior to increasing the number of train services. This desktop assessment shall calculate the magnitude of noise level increases for any new increase in rail traffic the Operator proposes. Potential increases in noise will be assessed against any current grandfathered paths. If Operator's rail traffic volumes double on average over a 24 hour period and/or the train configurations change to increase the number of locomotives per train, the Operator will carry out a more detailed assessment against Queensland Rail's priorities for noise barrier implementation.	Queensland Rails EMS/STD/46/004 - Code of Practice for Railway Noise Management								SE	Operator
12.2.2	General Noise	e (Queensland Rail)			Queensland Rail is implementing its noise barrier prioritisation program based on rolling stock noise levels complying with the Railway of Australia (RoA) Manual of Engineering Standards and Practices requirements over time. When the Operator proposes increased train services and requires to carry out a desktop or more detailed noise assessment, Queensland Rail will assist by supplying the total number of train services operating on each part of the network.	Railway of Australia (RoA) Manual of Engineering Standards and Practices Queensland Rails EMS/STD/46/004 - Code of Practice for Railway Noise Management								SE	Queensland Rail
12.2.3	Locomotive No	loise			Operator locomotives will comply with the Railway of Australia (RoA) Manual of Engineering Standards and Practices Section No. 13.4.1 (ie compliance with Queensland Rail's Noise Code's planning level of 87 dB(A) measured in accordance with AS2377).	Railway of Australia (RoA) Manual of Engineering Standards and Practices Section 13.4.1 Queensland Rails EMS/STD/46/004 - Code of Practice for Railway Noise Management AS2377 (Australian Standard - Acoustics - Methods for the Measurement of Railbound Vehicle Noise)								SE	Operator
12.2.4	Wheel - rail no	oise (eg squeal)			Operator to have rolling stock wheelset geometry compliant with the interface requirements. Wheel wear should not exceed interface requirements. Operator to manage wheel defects in accordance with interface requirements. Operator will monitor and address inspection and management of wheel defects.	SAF/STD/0145/INF - Interface Standards - Sect 2.11 - Wheel Defect Identification and Rectification SAF/STD/0145/INF - Interface Standards - Sect 2.15 - Wheelsets								SE	Operator
ITEM		RISK DESCRIPTION			CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply	REFERENCE DOCUMENTS (Including but not limited to)	1	2a	HIERAF 2b	RCHY 2c	2d	JUSTIF 2e	FICATION	CONTROL FECTIVENESS	RESPONSIBILITY (Control Owner)
13B	GHE8: Safety GHE10: Gene	ng	/ siding		with the interface requirements.		Yes/No								
	SHE8.2: Pass SHE8.3: Pass SHE10.1: Ger	senger / general public struck by train senger / general public self harm neral public struck by train neral public struck by train neral public self harm <u>Consequence</u>		idual Risk	Recovery (Mitigating)										
	Category			LR											

												Docur	ment No. NBOI-IF	
13.1.1	Safety	Injury or death			Reportable incidents are managed in accordance with emergency response procedures. Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place. Emergency procedure will include contact details of key personnel where necessary.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency Requirements Operator Emergency Response Plan	No				x	Elimination: 1 - 5 Control: a, b, c Post event	SE	Operator
13.1.2	Safety	Injury or death			Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3.	No				x	Elimination: 1 - 5 Control: a, b, c Post event	SE	Queensland Rail
13.2		Cause - Substandard Act/Condition			Preventative / Detective									
13.2.1	Unauthorised	d entry (Operator)			Drivers and workers vigilance. All incidents will be reported to the relevant Network Controller.	SAF/STD/0145/INF- Interface Standards - Sect 3.3 - Safeworking Operator SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
13.2.2	Unauthorised	d entry (Queensland Rail)			Queensland Rail will have appropriate fencing and signage of the right of way.	Queensland Rail SMS	No				x	Elimination: 1 - 5	SE	Queensland Rail
-					Queensland Rail will implement an appropriate corridor security and trespass strategy.							Control: a, b, c	_	
13.2.3	Level crossin	g users ignore level crossing rules (Operator)			Drivers and workers vigilance. All incidents will be reported to the relevant Network Controller.	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No				х	Elimination: 1 - 5	SE	Operator
13.2.4	Level crossin	g users ignore level crossing rules (Queensland Rail)			Queensland Rail will investigate any near miss and advise law enforcement of outcomes	Queensland Rail SMS	No				x	Control: a, b, c Elimination: 1 - 5	SE	Queensland Rail
-		····· · · · · · · · · · · · · · · · ·										Control: a, b, c	-	
13.2.5	Attempted/su	spected suicide or injuries (Operator)			Drivers and workers vigilance. All incidents will be reported to the relevant Network Controller and managed in accordance with emergency response procedures.	SAF/STD/0145/INF- Interface Standards - Sect 3.3 - Safeworking Operator SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
13.2.6	Attempted/su	spected suicide or injuries (Queensland Rail)			All incidents will be reported to Operator and managed in accordance with emergency response procedures	Queensland Rail SMS	No				x	Elimination: 1 - 5	SE	Queensland Rail
40.07	D (Or any two OMO	Nia					Control: a, b, c	05	On sector
13.2.7	Passengers /	general public not aware of surroundings (Operator)			Drivers and workers vigilance. All incidents will be reported to the relevant Network Controller.	Operator SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
13.2.8	Passengers /	general public not aware of surroundings (Queensland Rail)			Queensland Rail will implement an appropriate passenger / general public management strategy at stations.	Queensland Rail SMS	No				x	Elimination: 1 - 5	SE	Queensland Rail
												Control: a, b, c		
ITEM		RISK DESCRIPTION			CONTROLS	REFERENCE DOCUMENTS			IIERAR	-		JUSTIFICATION	CONTROL	RESPONSIBILITY
					Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements.	(Including but not limited to)	1 Yes/No	2a	2b	2c	2d 2e		EFFECTIVENESS	(Control Owner)
	H1: Moving t													
	GHE1: Collis SHE1.8: Coll	sion lision between mainline train and cane railway train			4									
14.1	Risk	Consequence		dual Risk	Recovery (Mitigating)									
14.1.1	Category Safety	Injury or death	С	L R	Reportable incidents are managed in accordance with emergency response procedures.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency	No				x	Elimination: 1 - 5	SE	Operator
14.1.1	Salety	injury of death			Operator rolling stock will carry adequate emergency equipment.	Requirements	INU				×	Control: a, b, c	3E	Operator
					Operator will have appropriate emergency response and recovery plans in place.	Operator Emergency Response Plan						Post event		
4.1.2	Safety	Injury or death	_		Emergency procedure will include contact details of key personnel where necessary. Reportable incidents are managed in accordance with Queensland Rail emergency response procedures.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module	No				x	Elimination: 1 - 5	SE	Queensland Rail
					Emergency procedure will include contact details of key personnel where necessary.	EP1.01 and EP3.						Control: a, b, c		
14.2		Cause - Substandard Act/Condition			Preventative / Detective							Post event		
	Inadequate si	ignalling design (Queensland Rail)			Signalling to be designed appropriately for conditions	Queensland Rail SMS	No			х	x	Elimination: 1 - 5		Queensland Rail
14.2.2	Inappropriato	e use of crossing by sugar mill (Queensland Rail)			Education of sugar mill workers	Queensland Rail SMS	No				x	Control: a, b Elimination: 1 - 5		Queensland Rail
14.2.2	Παρριοριαιο						NO				^	Control: a, b		Queensianu Naii
14.2.3	Exceeding lin	nit of authority			Operator drivers will be competent and vigilant	Operator SMS	No				x	Elimination: 1 - 5 Control: a, b		Operator
							-							
ITEM		RISK DESCRIPTION			CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements.	REFERENCE DOCUMENTS (Including but not limited to)	1 Yes/No	2a	IIERAR 2b	2CH Y	2d 2e	JUSTIFICATION	CONTROL EFFECTIVENESS	RESPONSIBILITY (Control Owner)
15B 15C	GHE11: Exp SHE11.1: Ra SHE11.2: Ex SHE11.3: Wo SHE11.4: Ge on railway co	ous substance posure to hazardous substances and/or dangerous goods iil corridor exposure to hazardous substances / dangerous g posure to hazardous substances / dangerous goods at static orker exposure to hazardous substances / dangerous goods eneral public exposure to hazardous substances / dangerous orridor / depot / vard / siding	ion s s goods l		-									
15.1	Risk Category	Consequence		dual Risk L R	Recovery (Mitigating)									
15.1.1	Safety	Injury or death			Reportable incidents are managed in accordance with emergency response procedures.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency	No				х	Elimination: 1 - 5	SE	Operator
					Operator rolling stock will carry adequate emergency equipment. Operator will have appropriate emergency response and recovery plans in place.	Requirements Operator Emergency Response Plan						Control: a, b, c Post event		
45.4.5	6.4.5				Emergency procedure will include contact details of key personnel where necessary.		.	\square	<u> </u>				05	0
15.1.2	Safety	Injury or death			Reportable incidents are managed in accordance with Queensland Rail emergency response procedures. Emergency procedure will include contact details of key personnel where necessary.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module EP1.01 and EP3.	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
												Post event		
15.2 5.2.1	Incorrect han	Cause - Substandard Act/Condition dling of dangerous goods by Operator.			Preventative / Detective Operator workers are competent in the management of dangerous and hazardous goods.	Australian Dangerous Goods Code	No			x	x	Elimination: 1 - 5	SE	Operator
					Signage and placards attached where required.					Ê		Control: a, b	_	•
5.2.2	Defective rolli	ing stock			Operator has procedures for pre-departure checks for compliance with Operator standards. Operator has procedures for tracking defective rolling stock. Operator rolling stock maintained in accordance with Operator's maintenance standards.	Operator SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
		d entry (Operator)			Drivers and workers vigilance. All incidents will be reported to the relevant Network Controller.	SAF/STD/0145/INF- Interface Standards - Sect 3.3 - Safeworking Operator SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Operator
15.2.4	Unauthorised	d entry (Queensland Rail)			Queensland Rail will have appropriate fencing and signage of the right of way. Queensland Rail will implement an appropriate corridor security and trespass strategy.	Queensland Rail SMS	No				x	Elimination: 1 - 5 Control: a, b, c	SE	Queensland Rail
							I	· · ·	I					
ITEM		RISK DESCRIPTION			CONTROLS Unless non-compliances are documented in the attached worksheet, all rolling stock is considered to comply with the interface requirements.	REFERENCE DOCUMENTS (Including but not limited to)	1 Yes/No	H 2a	llERAR 2b	-	2d 2e	JUSTIFICATION	CONTROL EFFECTIVENESS	RESPONSIBILITY (Control Owner)
16B	H14: Noise H15: Breathi H18: Operati GHE7: Safet	d/or flammable material ing inhibitor ing machinery ty incident in rail corridor er safety incident in depot / yard / siding												

Queensland Rail Limited and XXXX

							_	_	_			
16C		prridor exposure to noise above harmful levels										
		prridor asphyxiation										
	SHE7.6: Rail co	prridor machinery incident										
	SHE9.2: Worke	r depot machinery incident										
	SHE9.5: Worke	r exposure to surfaces heated above harmful levels										
		r exposure to noise above harmful levels										
16.1	Risk	Consequence	Residual Risk	Recovery (Mitigating)								
	Category		CLR									
16.1.1	Safety	Injury or death		Reportable incidents are managed in accordance with emergency response procedures.	SAF/STD/0145/INF - Interface Standards Sect 2.14 - Emergency	No		X	(Elimination: 1 - 5	SE	Operator
				Operator rolling stock will carry adequate emergency equipment.	Requirements				-	Control: a, b, c		
				Operator will have appropriate emergency response and recovery plans in place.	Operator Emergency Response Plan					Post event		
				Emergency procedure will include contact details of key personnel where necessary.								
16.1.2	Safety	Injury or death		Reportable incidents are managed in accordance with Queensland Rail emergency response procedures.	SAF/SPC/0022/EMG - Rail Emergency Response Procedures Module	No		×	,	Elimination: 1 - 5	SE	Queensland Rail
10.1.2	Calety	injury of dealin		Emergency procedure will include contact details of key personnel where necessary.	EP1.01 and EP3.	140		^	`	Control: a, b, c	0L	Queensianu raii
				Emergency procedure win include contact details of key personnel where necessary.	EFT.01 and EF3.					Post event		
16.2		Cause - Substandard Act/Condition		Preventative / Detective						POSLEVEIIL		
											05	0 i
16.2.1	Locomotive Nois	se (Operator)		Operator locomotives will comply with the Railway of Australia (RoA) Manual of Engineering Standards and Practices	Railway of Australia (RoA) Manual of Engineering Standards and	No		x x	(Elimination: 1 - 5	SE	Operator
				Section No. 13.4.1 (ie compliance with Queensland Rail's Noise Code's planning level of 87 dB(A) measured in	Practices Section 13.4.1					Control: a, b, c		
				accordance with AS2377).	Queensland Rails EMS/STD/46/004 - Code of Practice for Railway Noise							
				Operator workers to use appropriate PPE.	Management							
					AS2377 (Australian Standard - Acoustics - Methods for the Measurement							
					of Railbound Vehicle Noise)							
1622	Locomotive Nois	se (Queensland Rail)		Queensland Rail workers to use appropriate PPE if likely to be exposed to harmful noise	Queensland Rail SMS	No		x x	,	Elimination: 1 - 5	SE	Queensland Rail
10.2.2	Locomotive Nois	se (Queensianu Mair)			Queensianu Ivan SiviS	NU		^ ^	`	Control: a. b. c	52	Queensianu Naii
												_
16.2.3		ork and operate equipment (eg road vehicles, plant) on or n	ear the nominated	All workers will be competent in trackside safety and the operation of equipment and wear appropriate PPE.	SAF/STD/0145/INF - Interface Standards - Sect 3.3 - Safeworking	No		x	(Elimination: 1 - 5	SE	Operator
	network are not	competent to do so (Operator)		Train crew will be vigilant						Control: a, b, c		
16.2.4	Workers who wo	ork and operate equipment (eg road vehicles, plant) on or n	ear the nominated	All workers will be competent in trackside safety and the operation of equipment and wear appropriate PPE.	Queensland Rail SMS	No		х	(Elimination: 1 - 5	SE	Queensland Rail
		competent to do so (Queensland Rail)		Toolbox talks onsite (pre-commencement of work)						Control: a, b, c		
1625	Worker fatique (Operator has a fatigue management program	Operator SMS	No		×	,	Elimination: 1 - 5	SE	Operator
10.2.5	worker laugue (Operator)				NU		^		Control: a, b, c	3E	Operator
											05	
16.2.6	Worker fatigue (Queensland Rail)		Queensland Rail has a fatigue management program	Queensland Rail SMS	No		x	(Elimination: 1 - 5	SE	Queensland Rail
										Control: a, b, c		
16.2.7	Worker not awar	re of surroundings (Operator)		Operator workers will be competent in trackside safety including the use of personal continual vigilance	Operator SMS	No		x	c .	Elimination: 1 - 5	SE	Operator
										Control: a, b, c		
1628	Worker not awar	re of surroundings (Queensland Rail)		Queensland Rail workers are competent in trackside safety including the use of personal continual vigilance	Queensland Rail SMS	No		x	(Elimination: 1 - 5	SE	Queensland Rail
	inon not and	ie er earrearianige (aaeerielaria riali)								Control: a, b, c	02	quoonolaria riali
10.0.0	Train an arating i	in confined anone			On eventury SMC	Na					SE	Onerster
16.2.9	Train operating I	in confined space		Operator has procedures in place to avoid stopping in tunnels and confined spaces where possible	Operator SMS	No		x		Elimination: 1 - 5	SE	Operator
										Control: a, b, c		
6.2.10	Working tracksid	de in confined space		Queensland Rail has procedures in place for working in tunnels and confined spaces	Queensland Rail SMS	No		х	(Elimination: 1 - 5	SE	Operator
										Control: a, b, c		
6211	Hot surfaces not	t identified or protected (Operator)		Operator to have procedures in place for protecting hot surfaces	Operator SMS	No		x	<u>،</u>	Elimination: 1 - 5	SE	Operator
0.2.11						110		Ŷ	`	Control: a. b. c	01	oporator
6 2 4 2	Hot ourfease	t identified or protected (Queensland Rail)		Queensland Beil has presedures in place for protecting but surfaces	Queensland Rail SMS	Ni~					SE	Queensland D-1
0.2.12	HOL SURACES NOT	i identified of protected (Queensiand Kall)		Queensland Rail has procedures in place for protecting hot surfaces	Queensianu raii SIVIS	No		x		Elimination: 1 - 5 Control: a. b. c	SE	Queensland Rail
										I ODTOL 2 D C		

Non (Compliances					
	IRMP ref.	Standard	Clause	Non-compliance detail	Mitigation	Implementation Date
1						
XXXX	Class					
1.1						
1.2						
1.3						
2						
XXXX	Class					
2.1						
2.2 2.3						
2.3						
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	Operator	Railway Manager
Land	Yard soil contamination (due to any loss of product)	Vegetation on the network
Air Pollution	Coal hauled product dust mitigation strategies and prevention Coal dust from haulage operations Odour complaints from facilities/operations Dust generated from freight yards Metallic brake odour Light spill from freight yards General enquiries regarding coal product causing environmental nuisance Exhaust pollution (e.g. diesel fumes) from rolling stock	Dust on the siding for unsealed road surfaces Community group complaints (Community Action Groups, petitions signed by more than 5 people) – issue dependant. If more than 50 % of issues are related to the AS Line of Business responsibility, the responsibility for investigation and reply shall be with the Operator
Noise Pollution	Yard shunting Locomotive idling (eg > 15 minutes at a single location) General engine noise complaints from yards .eg. engine idling and/or braking noise Wheel sequel from specified time trains in extenuating circumstances eg all greases found to fully functioning and Queensland Rail and its maintenance provider have fully investigated General enquiries to yard curfews Noise monitoring of time-specific nominated train/rolling stock Noise monitoring of yard operations Driver methodology – revving, acceleration, engine roaring, brake squealing, excessive horn sounding, whistle blowing Light spillage from yards	Noise barrier request (on the network and the Queensland Rail owned yard Proximity of freight lines creating excessive noise & vibration General enquiries on network curfews on the network Request to check greasers or track lubricators due to excessive noise (squ flanging) Light spill and noise from boom gates Network noise mitigation strategies other than noise barriers and track lubrication (eg planting of trees on the network) Signal and sound boards specification on the network / level crossing causi environmental nuisance Speed board specification on the network / level crossings e.g. speed of free traffic causing environmental nuisance Scheduling and availability of track causing environmental nuisance Horn sounding requirement Security fences
Information Manag	Freight planning due to future demand General enquires – coal or freight	Noise monitoring regarding general network freight operations associated w verifying the effectiveness of noise barriers Enquires to new network undertakings and future traffic Current train scheduling
	High volume / engineering specification	Increased rail traffic volume statistics Third Party Operator/Queensland Rail



Safety and Environment Interface Risk Management Plan

•	
Queens	sland Rail Limited and (Rolling Stock Operator)
	Certificate of Compliance
	ssment has been carried out consistent with the Queensland Rail lanagement Framework.
implementation risks, and ther	ave been assessed and controls have been determined for n that will manage identified interface safety and environmental eby ensure safety so far as is reasonably practicable in accordance ace risk management plan.
-	tructure and railway operations relevant to this interface risk
-	tructure and railway operations relevant to this interface risk blan will be managed in accordance with it throughout its life.
management	blan will be managed in accordance with it throughout its life.
management p Queensland Ra	
management	blan will be managed in accordance with it throughout its life.
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management p Queensland Ra Name: Position:	all Limited Approval
management p Queensland Ra Name: Position: Address:	ail Limited Approval GGM Network Business Level 5 Railcentre 1 GPO Box 1429 Brisbane 4001
management p Queensland Ra Name: Position: Address: Phone: Email:	ail Limited Approval GGM Network Business Level 5 Railcentre 1 GPO Box 1429 Brisbane 4001
management p Queensland Ra Name: Position: Address: Phone:	ail Limited Approval GGM Network Business Level 5 Railcentre 1 GPO Box 1429 Brisbane 4001

I	Safety and Environment Interface Risk Management Plan
Queenslan	d Rail Limited and (Rolling Stock Operator)
	Certificate of Compliance
This risk assessmer Limited Risk Manag	nt has been carried out consistent with the Queensland Rai Jement Framework.
implementation that risks, and thereby e accordance with this	een assessed and controls have been determined for will manage identified interface safety and environmental insure safety so far as is reasonably practicable in s interface risk management plan. re and railway operations relevant to this interface risk
management plan v	vill be managed in accordance with it throughout its life.
	vill be managed in accordance with it throughout its life.
Operator Approval	vill be managed in accordance with it throughout its life.
Operator Approval Name:	vill be managed in accordance with it throughout its life.
management plan v Operator Approval Name: Position: Address:	vill be managed in accordance with it throughout its life.
Operator Approval Name: Position:	vill be managed in accordance with it throughout its life.
Operator Approval Name: Position: Address:	vill be managed in accordance with it throughout its life.
Operator Approval Name: Position: Address: Phone:	vill be managed in accordance with it throughout its life.

Access Process



Access Completion

^ if due to the complexity of the request, Network Business may advise that a longer period is required ^ if agreed by both parties, the negotiation period may be extended