

# International Railway **Safety Conference**

19-21 October 2020

Webinar Series

# Network Rails Engineering Response to the Covid-19 Pandemic

A view from the Technical Authority and Regional Teams







## **NR Overview**

**NetworkRail** 

- 20,000 miles of track
- 30,000 bridges, tunnels and viaducts
- Thousands of signals and level crossings
- Over 33,000 Staff across 14 Routes



#### **Network Rail Regions and Routes**







North and East Route

4 East Coast Route



(5) North West Route

(6) Central Route

West Coast Mainline South Route

Scotland's Railway

8 Scotland Route

Southern

Kent Route

(10) Sussex Route

(11) Wessex Route

(12) Network Rail High Speed

Wales & Western

(13) Wales Route

(14) Western Route

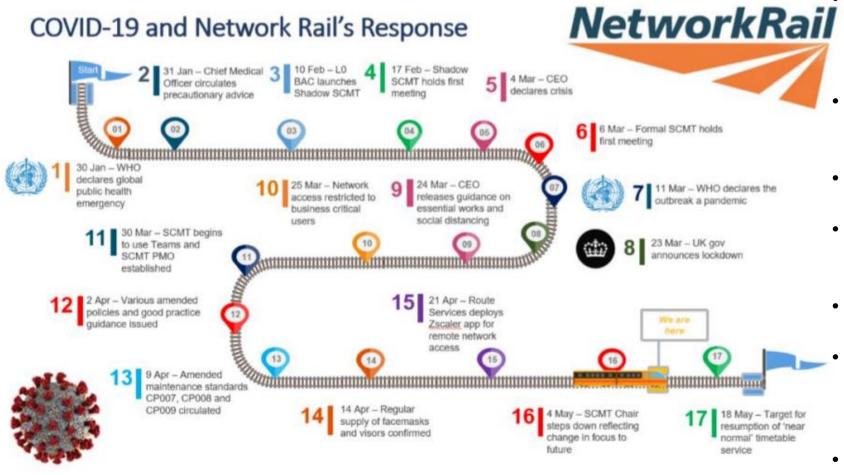






## **Covid-19 Timeline**



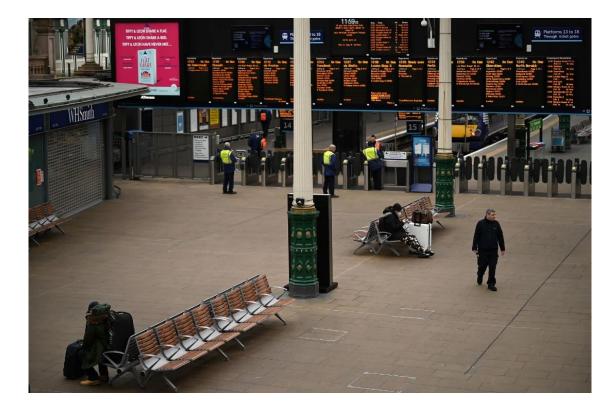


31/12/19 – China notified WHO of a series of pneumonia cases in Wuhan

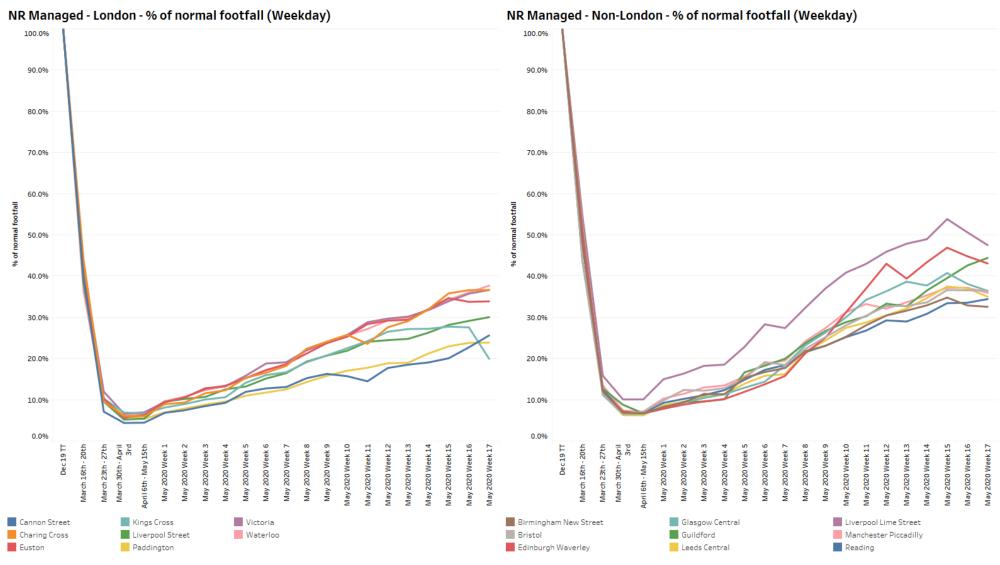
- 31/01/20 First confirmed case in the UK
- 05/03/30 First death in the UK.
- 11/03/20 WHO officially declare COVID-19 a pandemic.
- 20/03/20 Schools Shut
- 23/03/20 Boris Johnson announced lockdown measures to be implemented
- 10/05/20 Partial lifting of measures in England.
- 18/05/20 Rail services upped from 50% 80%.













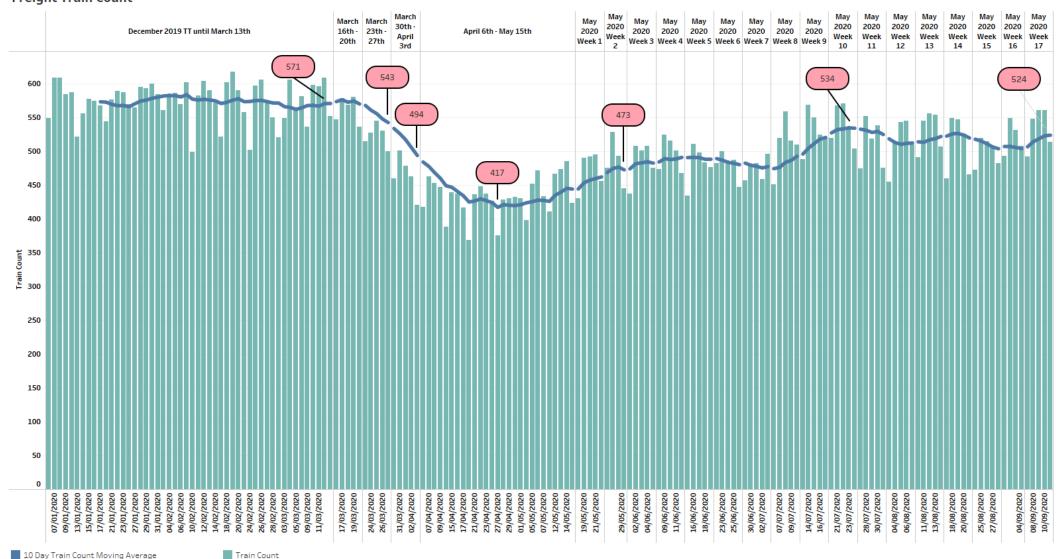
Passenger Operator - Trains Planned

% of 'normal' service Planned by Operator

	ЕТТ (w/c March 23rd)	ETT (w/c March 30th)	ETT (April 6th - May 16th)	May 20TT - Week 1	May 20TT - Week 2	May 20TT - Week 3	May 20TT - Week 4	May 20TT - Week 5	May 20TT - Week 6	May 20TT - Week 7	May 20TT - Week 8	May 20TT - Week 9	May 20 TT - Week 10	May 20 TT - Week 11	May 20 TT - Week 12	May 20 TT - Week 13	May 20 TT - Week 14	May 20 TT - Week 15	May 20 TT - Week 16	May 20 TT - Week 17
TfL Rail	81%	68%	71%	86%	86%	84%	89%	90%	92%	92%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Southeastern	66%	67%	67%	72%	72%	73%	73%	73%	73%	73%	84%	84%	84%	73%	84%	86%	86%	86%	87%	98%
EMR	59%	60%	60%	80%	80%	80%	80%	80%	80%	80%	80%	80%	81%	81%	81%	82%	82%	81%	82%	97%
c2c	59%	40%	43%	96%	97%	96%	97%	97%	97%	96%	97%	97%	96%	97%	95%	96%	96%	97%	97%	97%
L. Overground	70%	51%	52%	79%	80%	79%	79%	81%	86%	86%	86%	85%	86%	85%	86%	85%	86%	85%	86%	96%
Merseyrail	65%	57%	47%	60%	60%	60%	60%	60%	60%	60%	77%	77%	77%	77%	77%	77%	77%	77%	77%	95%
Greater Anglia	60%	59%	62%	75%	75%	75%	75%	80%	80%	80%	93%	93%	93%	93%	93%	93%	91%	94%	93%	94%
Chiltern	41%	42%	38%	78%	78%	78%	78%	78%	78%	78%	93%	93%	93%	93%	93%	93%	93%	93%	93%	94%
Avanti WC	49%	49%	49%	65%	65%	66%	67%	68%	69%	69%	90%	91%	91%	91%	91%	93%	90%	93%	93%	92%
WMT	69%	57%	53%	63%	63%	63%	63%	64%	64%	64%	70%	70%	70%	70%	70%	70%	70%	73%	73%	91%
ScotRail	51%	42%	43%	43%	43%	48%	48%	63%	64%	63%	65%	64%	65%	64%	91%	87%	87%	87%	88%	88%
SWR	58%	58%	58%	64%	64%	69%	71%	75%	74%	74%	87%	86%	87%	87%	87%	87%	87%	87%	86%	86%
GWR	54%	51%	53%	69%	70%	71%	71%	71%	71%	71%	82%	82%	82%	83%	83%	83%	83%	83%	84%	84%
LNER	73%	43%	39%	68%	68%	68%	68%	68%	68%	68%	79%	79%	79%	78%	79%	79%	79%	79%	78%	84%
GTR	76%	60%	60%	77%	78%	77%	78%	78%	78%	78%	83%	83%	83%	83%	83%	83%	83%	83%	83%	84%
TPE	37%	36%	36%	71%	73%	73%	73%	79%	74%	73%	76%	76%	76%	76%	76%	76%	76%	76%	76%	77%
Northern Trains	59%	46%	47%	64%	64%	63%	63%	63%	64%	63%	69%	69%	70%	71%	71%	71%	71%	71%	71%	71%
TfW Rail S.	64%	52%	47%	50%	51%	51%	50%	51%	50%	50%	69%	70%	70%	70%	70%	69%	66%	69%	69%	71%
Grand Central	45%	45%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	57%	57%	57%	57%	68%	68%	68%
CrossCountry	55%	55%	52%	54%	54%	54%	54%	54%	54%	54%	61%	61%	61%	61%	62%	61%	61%	61%	61%	62%
HEx	50%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%	51%
Hull Trains	31%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	31%	31%	31%	31%
Caledonian S	54%	29%	40%	46%	43%	57%	57%	57%	57%	43%	43%	60%	71%	71%	69%	71%	71%	71%	71%	71%
National	63%	54%	54%	68%	68%	69%	69%	71%	72%	72%	79%	79%	80%	79%	82%	82%	82%	82%	83%	86%









#### COVID-19 Standards and Risk Assessments

Work Activity Risk Assessments: COVID-19

- 💹 COVID-19 Work Activity Risk Assessment V6
- 💹 Delivering Training during COVID-19 Pandemic V3

#### **COVID-19 Activity Risk Assessment** Work Activity Risk Assessment Form. Work Activity COVID-19 Activity Risk Assessment Short Description Working during COVID 19 crisis - minimum distance apart from others of 2 metres should be kept at all times in order to minimise the potential for spreading the virus by saliva or droplets from coughing. Function Safety, Technical, Engineering Discipline or Across the Network 31 March 2020 Location/site of work Date Assessment carried out: Groups at risk: All Network Rail Employees Previous assessments Infrastructure and operations staff Positions Louise Cox, Rupert Lown, Ian Bradler, David Smith, Paul Clark, Regional HSQE Directors Persons carrying out assessment Nicola Ulien, Natalie Montgomery, Mark Lunn Chris Adair, Brett Cornwell, Des More Trade Union representatives Lead TU Representatives & Names (Print): Peer Review Business Leads Names (sign) Reviewed and Approved by:

3101320 COVID19 WARA-v5

#### **COVID-19 Activity Risk Assessment**

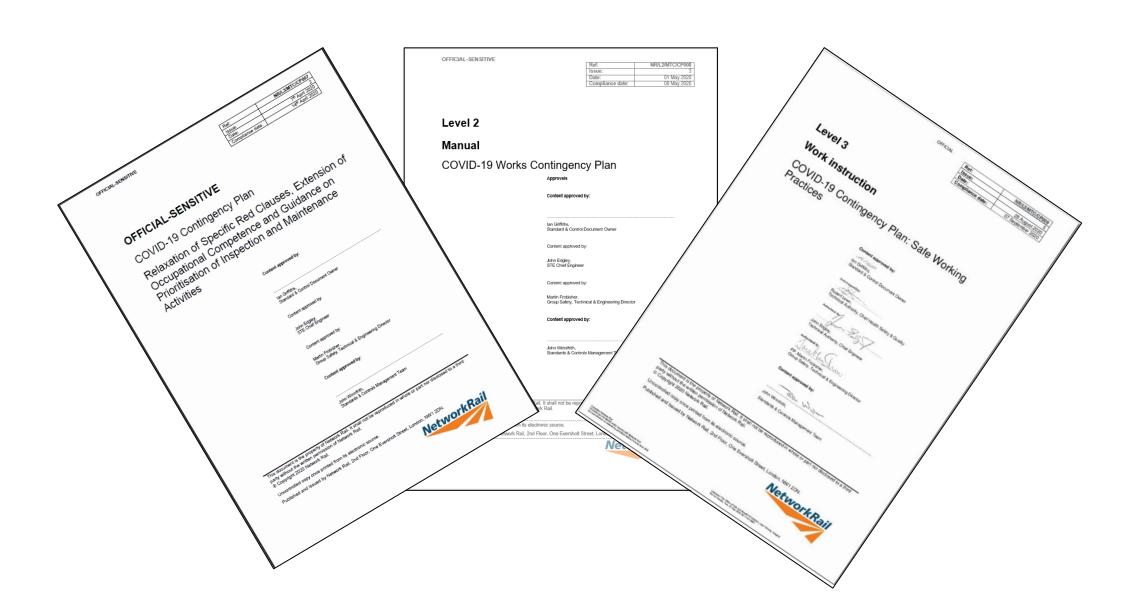
#### **Executive Summary**

Safety professionals and trades union health and safety representatives reviewed the modes of transmission, risks and appropriate precautions to minimise COVID-19 transmission during work activities. The assessment underlines the importance of anyone with COVID-19 symptoms staying away from work and for those who are at work to keep the railway open, to maintain the two-metre social distance wherever possible and to regularly wash or sanitise their hands. Normal work gloves and eye protection help to minimise hand-face contact. Site marshals can be used to help remind staff about maintaining social distance and hand hygiene. Organise travel to site that maintains two-metre social distance by using temporary screens in vans between the driver and rear passenger or using your own vehicle/black-cab taxi.

But some essential work does require people to work closer together for short durations for specific tasks. 37 maintenance tasks likely to involve working within two metres have been specifically assessed to devise the safe working arrangements. If that is necessary, the risk assessment advises keeping the duration as short as possible and orienting yourselves to avoid facing the other person if possible. If working close together is unavoidable, a face visor or a surgical mask can be used to avoid spread of liquid droplets (which can contain virus even if the person is not showing COVID-19 symptoms) to your colleagues. Particular care is necessary if a mask is used to avoid contacting your face with potentially contaminated hands or gloves. The visor or surgical mask do not replace existing impact eye protection or protective mask such as for dusty environments; they must be used if the task risks require so.

Travelling to locations in a road vehicle	Staff being within a 2m social distancing COVID19 virus	Contraction of virus; Spread of virus; Lost-time illness; Death of sufferer; Increased spread of the virus	Cleaning of Vehicles Aools  Teams to utilise the same tools and vehicles Use disinfecting kits where supplied Do not share with other teams Use of separation screen for vans	5	2	7	Travel one person per vehicle Allocate NR vehicles to specific users Use private vehicles where practicable Where hire cars are used request disinfectant and clean before delivery wipe done seats and controls prior to use	5	1	6	
Additional factors that be consider	t should	time inspec required on The addition or COSS Network Ra	neric risk assessment, additional tions and minor repairs of bounds specific requirements, location, votal measures are to be document it's Life Saving Rules to be applied by Safety Vision to be applied by	ry fe veat ted, ed at	ence ner and all t	es a con brie	re taking place, further local as ditions, environment and time. efed to the affected parties, by	the	per	ent i	s





OFFICIAL-SENSITIVE

Ref:	NR/L2/MTC/CP008
Issue:	3
Date:	01 May 2020
Compliance date:	08 May 2020

#### Level 2

#### Manual

COVID-19 Works Contingency Plan

Approval

Content	approved	bur

lan Griffiths, Standard & Control Document Owner

Content approved by:

John Edgley, STE Chief Engineer

Content approved by

Martin Frobisher, Group Safety, Technical & Engineering Director

Content approved by:

John Winnifrith, Standards & Controls Management Team

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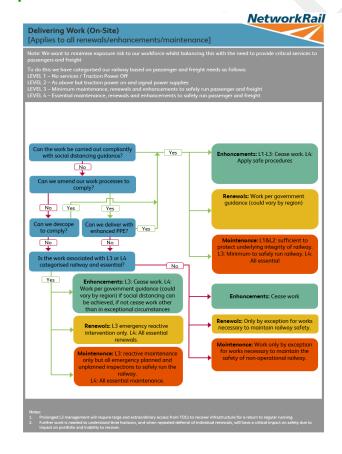


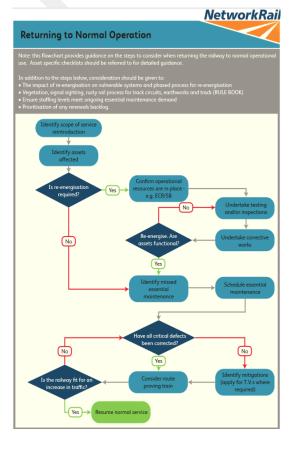


#### 2 Essential activities

#### 2.1 Overview

Essential activities are the activities that are needed to support safety and core asset availability including preparatory work for year round weather resilience, and vehicle and equipment maintenance. They are the activities required to keep the train services that have been specified by the government running safely and sustainably for a worst-case lockdown period of 6 months. They will enable a return to normal service levels within 3 months and without speed restrictions due to work backlog after COVID-19 restrictions are lifted. They also include renewals/refurbishment and enhancement works that in line with government guidance.







OFFICIAL-SENSITIVE

Ref:	NR/L3/MTC/CP007
Issue:	2
Date:	7 <sup>th</sup> April 2020
Compliance date:	14 <sup>th</sup> April 2020

#### **OFFICIAL-SENSITIVE**

COVID-19 Contingency Plan

Relaxation of Specific Red Clauses, Extension of Occupational Competence and Guidance on Prioritisation of Inspection and Maintenance Activities

Content approved by:
lan Griffiths, Standard & Control Document Owner
Content approved by:
John Edgley, STE Chief Engineer
Content approved by:
Martin Frobisher, Group Safety, Technical & Engineering Director
Content approved by:
John Winnifrith. Standards & Controls Management Team
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Ref:	NR/L3/MTC/CP009
Issue:	5
Date:	28 August 2020
Compliance date:	07 September 2020

#### Level 3

#### Work instruction

COVID-19 Contingency Plan: Safe Working Practices

#### Content approved by:

lan Griffiths,

Standard & Control Document Owner

X

Rupert Lown, Technical Authority, Chief Health Salety & Quality

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Regional specific engineering addendums



North West and Central Region - Backbone of Britain







North West and Central Region - Backbone of Britain





# Looking after our people



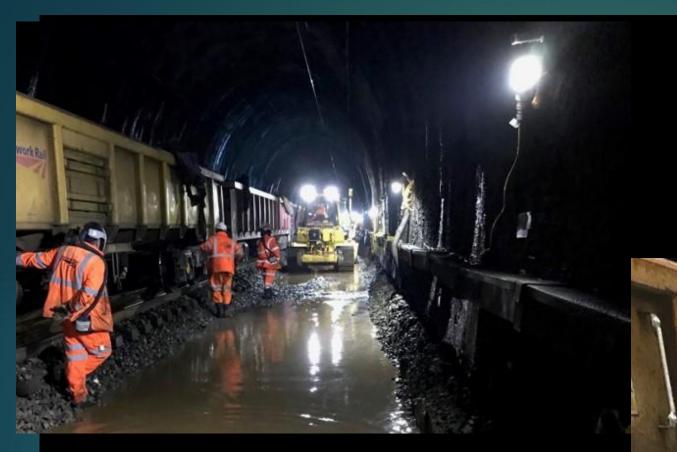












Track and drainage renewals – Kilsby Tunnel

# Opportunities





# International Railway Safety Conference

19-21 October 2020

Webinar Series

# Thank you for listening





