



OFFICE OF RAIL AND ROAD

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ORR CP5 tracker

April 2015

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Purpose of the CP5 tracker

- The aim of this document is to provide a clear, periodic statement for the Executive and the Board on Network Rail's delivery of its regulated outputs and other key projects/issues.
- It will cover the following areas:
 - Railway operations
 - Asset performance
 - Enhancement projects
 - Finance and efficiency
- The tracker will look across all relevant areas to provide a genuinely joined up view on the causes of issues and risks highlighted.
- It should look to cover current failures to achieve regulated outputs and identify risks to achievement and the end of the year/control period.
- A common platform for reporting will be established enabling consistent reporting across all areas.
- It is intended that the information contained in this report could be shared (redacted as appropriate) with Network Rail and DfT at the regular tri-lateral.



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Overview

Train service performance

- The downward trend in England and Wales PPM MAA since P10 of 2011/12 (Dec 2011) appears to have been halted. Key economically important routes such as the East Coast Mainline have seen performance for the last few periods of 2014/15 higher than previously seen levels.
- Detailed analysis of actual train arrival times shows that trains arriving early are the largest portion across every operator. In addition around 5% of the national PPM failures for 2014/15 have been by less than two minutes, which if added to the current MAA of just under 90% gives optimism that performance can reach the required regulatory targets in the coming years, despite the impacts of passenger growth.
- The recovery of performance has been aided by the fact that most Routes have seen less than 50% of the delay minutes attributable to the 'Severe Weather' category compared to 2013/14. However the impact of London Bridge has been severe on Southern services which were 10% below the period 13 plan for PPM.
- We have initiated an investigation into whether there is a case to answer in regards to NR's performance for Scotland, GTR and Southern and will report to the Board in May as to whether we will progress this further. Should this happen then we intend to bring a decision to the Board in June on what regulatory action should be taken. This is being managed alongside the enhancements investigation and in the same timeframes as NR's 2015/16 business plan workstream.

Asset Management Performance

- As part of the Final Determination the ORR attached particular importance to NR being able to demonstrate the link from asset knowledge and policies through to prioritised asset based workbanks. Where we did not find this for areas such as Civils and Structures we created the Civils Adjustment Mechanism to give NR more time to develop the robust plans required. The route based asset management indicator data is information NR need to manage their own business and was meant to allow NR to demonstrate it had robust asset based management data to allow it to make informed decisions. So far the quality of the data provided across a number of areas is completely unacceptable and we wrote to Mark Carne in December 2014 setting out our specific concerns on data quality.
- Whilst the number of un-planned TSRs has halved since a high in P12 of 2013/14 and the Composite Reliability Index has shown a reduction in the number of asset failure incidents, the company has significantly failed to deliver its own plan for the volumes of renewal and maintenance work across virtually all asset areas (in some cases by over 50%), for which it was funded in 2014-15. We have concerns about both the unit cost implications and the sustainability impact of this under delivery for some elements of the asset portfolio, as well as the future train performance implication this will create.



Enhancements performance

- Some significant enhancements were delivered during the year including the work at Reading and London Bridge. However a large number of important milestones have been missed particularly on electrification projects such as North West Phase 2, Rutherglen & Coatbridge and Great Western. The evidence we have seen both at the start of the project life-cycle with the ECAM submissions as well as the end of the life-cycle, when projects have come to the ORR for authorisation into operation service have highlighted significant shortcomings in; project development, programme and project management, integrated planning and cost control as well as portfolio management. As a result we have required NR to develop an improvement plan.
- The disruption to passengers caused by the Christmas overruns at Kings Cross and Paddington was unacceptable and constituted a breach of Network Rail's licence. As a result there was a real focus on preparation for Easter when around 3,500 Network Rail worksites were taken across circa 1,000 possessions delivering almost £60m worth of engineering work. 99.7% of possessions were handed back without impact to the operators.
- As discussed at the March Board we have initiated an investigation as to whether we think there is a case to answer on NR's performance on enhancements and will report to the Board in May as to whether we will progress this further. Should this happen then we intend to bring a decision to the Board in June on what regulatory action should be taken. This is being managed alongside the performance investigation and in the same timeframes as NR's 2015/16 business plan workstream.

Financial performance

Network Rail's year to date expenditure is £99m adverse to its own budget. Network Rail is currently expecting to underperform our regulatory financial performance measure by around £321m in 2014-15 due to:

- Forecast £125m adverse performance against Network Rail's own budget (see below);
- Network Rail's budget is itself around £95m higher than our PR13 financial assumptions for 2014-15 largely due to higher assumed Schedule 8 payments and track unit costs; and
- Network Rail has estimated that we will make £100m of adjustments for forecast under-delivery of regulatory output requirements for train performance and missed enhancements milestones. We are reviewing this so the final number may be different.
- Redacted s.31 (1) (g) and (2) (c) Regulatory action.



Regulated outputs on a page

Areas Monitored	ORR confidence level re: Network Rail delivery of targets	Areas Monitored	ORR confidence level re: Network Rail delivery of targets
Train Service Reliability - unit of measurement		Enhancements	
Public Performance Measure (PPM) - annual target		Delivery against scheme milestones	
England & Wales		Health and Safety	
Scotland		Progress against funded plan to maximise the reduction of risk of accident at level crossings	
CP5 Performance Plan		Network Availability	
Franchised TOCs PPM		Possession Disruption Index – Passenger	
C2C		Possession Disruption Index – Freight	
Merseyrail Electrics 2002 Ltd		Network Capability	
London Overground		Maintenance of capability during CP5 (in terms of track mileage & layout, line speed, gauge, route availability and electrification type)	
Arriva Trains Wales		Stations	
First Scotrail		Station Stewardship Measure (SSM) per category	
East Midland Trains		England & Wales	
CrossCountry		Scotland	
Greater Anglia		Asset management	
Northern Rail		Delivery of Asset Management Excellence Model (AMEM) capability for each core group - Delivery of 72% by January 2018	
London Midland		Asset Management Strategy & Planning	
Southeastern		Asset Management Decision-Making	
Chiltern		Lifecycle Delivery Activities	
South Western		Asset Knowledge Enablers	
East Coast		Organisation & People Enablers	
Virgin Trains		Risk & Review	
First Great Western		Asset data quality for each asset type - A2 by April 2017	
Southern		Track	
Govia Thameslink Railway		Signalling	
First Transpennine Express		Telecoms	
Cancelled and Significantly Late (CaSL)		Electrical power	
England & Wales		Buildings	
C2C		Structures	
Merseyrail Electrics 2002 Ltd		Earthworks	
London Overground		Delivery of ORBIS milestones	
Arriva Trains Wales			
East Midland Trains		Improvement in confidence from previous period	
CrossCountry		Same confidence as previous period	
Greater Anglia		Reduction in confidence from previous period	
Northern Rail			
London Midland			
Southeastern			
Chiltern			
South Western			
East Coast			
Virgin Trains			
First Great Western			
Southern			
Govia Thameslink Railway			
First Transpennine Express			
Freight Delivery Metric (FDM)			
National			
CP5 Performance Plan			



Railway operations

CP5 performance plan

Redacted s.31 (1) (g) and (2) (c) Regulatory action. We have accepted this but require that they deliver the CP5 Performance Plan, a summary of the operator level Performance Strategies, indicating how they plan to get back on the performance trajectory. We receive quarterly updates and this section is a commentary on our assessment.

At the end of the third quarter, milestones scheduled to be delivered year-to-date in England and Wales were not delivered in their entirety. Of the 137 milestones completed year to date, 21 have been completed later than planned whilst 116 milestones were delivered on time or early. Of the 262 milestones in the plan yet to be delivered, 25 are likely to be delivered late. Thirty-one milestones are on hold or have been cancelled, the majority of which are due to duplicate milestones being removed and the PPRP Programme being rebaselined.

We wrote to Network Rail at the end of Quarter 2 expressing concerns that the CP5 Performance Plan did not fully show how Performance Strategies were being adjusted to reflect changing circumstances. This was particularly relevant for routes where performance was below the levels expected when the plan was produced, notably in London and the Southeast. NR has since committed to delivering additional action (176 extra milestones, 171 of which are in England and Wales) designed to bridge the performance gap. Milestones have also been added to address the CaSL shortfall during the quarter.

At the end of quarter three, of the milestones scheduled to be delivered in Scotland year to date, 14 have been completed. Of these milestones 10 have been completed late, on average by 50 days. Of the 18 milestones yet to be delivered, 6 are forecast to be delivered late.

Whilst in the main the plan is being delivered, we are concerned that the benefits from completed milestones are not having the planned effect on performance.

On Track Forecast to be delivered on time (including 176 new milestones)	218
Slipped Forecast to be delivered late	31
On Hold	6
Abandoned	25
Completed	151 (31 late, 34 early, 86 on time)

Milestone progress year-to-date in England, Wales and Scotland



Train service performance

Period: 2014-15 Period 12	Against baseline			Against target		
PPM - MAA	P12 2014-15	P12 2013-14	PP to baseline	% to PS target	% to year end PS target	% to year end Reg target
Total England & Wales	89.6 %	89.8 %	0.2 %	1.3 %	1.4 %	2.3 %
First Scotrail	90.7 %	91.2 %	0.5 %	1.3 %	1.3 %	1.3 %
Right time - MAA	P12 2014-15	P12 2013-14	PP to baseline	% to PS target	% to year end PS target	% to year end Reg target
Total England & Wales	65.8 %	67.4 %	1.6 %			
First Scotrail	58.3 %	57.6 %	0.7 %			
Network Rail passenger delays (year to date)	2014-15	2013-14	% to baseline	% to PS target	% to Reg target	
England & Wales	6,324,612	6,735,702	6.1 %	0.8 %	0.8 %	
Freight delivery metric (awaiting P11 data)	P12 2014-15	P12 2013-14	% to baseline	% to PS target	% to Reg target	
FDM MAA	94.4%	93.1%	1.3 %		1.9 %	
PDI - passenger MAA	P12 2014-15	P12 2013-14	% to baseline	% to PS target	% to Reg target	
PDI-P MAA	0.73	0.69	5.9 %		25.2 %	

	Against baseline			Against target		
CaSL - MAA	P12 2014-15	P12 2013-14	PP to baseline	% to PS target	% to year end PS target	% to year end Reg target
Total England & Wales	2.9 %	3.0 %	0.2 %	0.5 %	0.5 %	0.7 %
First Scotrail	2.3 %	2.1 %	0.2 %			
Average lateness - MAA	P12 2014-15	P12 2013-14	PP to baseline	% to PS target	% to year end PS target	% to year end Reg target
Total England & Wales	2.48	2.52	1.6 %			
First Scotrail	1.99	1.98	0.4 %			
Network Rail passenger delays (year to date)	2014-15	2013-14	% to baseline	% to PS target	% to Reg target	
Scotland	439,057	423,958	3.6 %	15.8 %	15.8 %	
Network Rail delays to freight MAA (DP100TKM)	P12 2014-15	P12 2013-14	% to baseline	% to PS target	% to Reg target	
Freight	3.33	3.75	11.1 %		1.9 %	
PDI - freight MAA	P12 2014-15	P12 2013-14	% to baseline	% to PS target	% to Reg target	
PDI-F MAA	0.88	0.87	1.7 %		20.6 %	

At the end of Period 12, England & Wales PPM MAA was 89.6% which was 1.3pp short of the Period 12 performance strategy target. Scotland PPM MAA was 90.7% which was 1.3pp short of the Period 12 performance strategy target. England & Wales CaSL MAA ended the period at 2.9% which was 0.5pp worse than the Period 12 performance strategy target. There is no CaSL target for First Scot Rail. It is now statistically impossible that the end of year 2014-15 performance strategy targets for England and Wales (PPM and CaSL) will be achieved. It is also statistically impossible that the year-end performance strategy target in Scotland (PPM) will be achieved. However, we are taking an input based approach to regulation of national outputs in England and Wales in the first 2 years of CP5 and we are instead monitoring Network Rail performance through the inputs specified in the CP5 Performance Plan (see previous section) along with CaSL and PPM at TOC level (see next section). Underlying performance in England & Wales is below the levels assumed when the CP5 Performance Plan was produced and we expect to see evidence of the plan being adjusted to account for this and would expect NR's business plan for 2015-16 to reflect this underperformance. Scottish performance continues to be a regulated target during the first 2 years of CP5.

FDM MAA at the end of Period 12 stood at 94.4%, 1.9pp above the annual target of 92.5%. We therefore expect Network Rail to meet its year-end regulatory target. PDI-P – at the end of Period 11 – is 8% better than the Network Rail year end forecast and PDI-F – at the end of Period 12 – is 12% better than the Network Rail year end forecast.



TOC PPM (MAA) & CaSL (MAA)

Public Performance Measure (Moving Annual Average)			Targets		Cancellations and Significant Lateness (Moving Annual Average)			Targets	
PPM (MAA)	2014-15 Period 12		Period PS target and variance	CP5 year 1 PS target and variance	CaSL (MAA)	2014-15 Period 12		Period PS target and variance	CP5 year 1 PS target and variance
Franchised TOCs	Arriva Trains Wales	92.8%	93.4%	-0.6%	93.5%	-0.7%	2.6%	2.5%	0.1%
	c2c	96.9%	97.0%	-0.1%	97.0%	-0.1%	1.3%	1.1%	0.2%
	The Chiltern Railway Co Ltd	95.0%	94.9%	0.0%	94.9%	0.1%	1.5%	1.4%	0.1%
	CrossCountry	88.7%	88.7%	0.0%	89.0%	-0.3%	4.3%	4.5%	-0.2%
	East Coast	88.2%	85.9%	2.3%	86.0%	2.2%	3.9%	5.5%	-1.5%
	East Midlands Trains	92.0%	92.8%	-0.8%	93.0%	-1.0%	2.0%	2.2%	-0.2%
	First Great Western	88.8%	90.1%	-1.4%	90.3%	-1.5%	3.0%	2.6%	0.4%
	First Scotrail	90.7%	92.0%	-1.3%	92.0%	-1.3%	2.3%	0.0%	No target
	First Transpennine Express	88.5%	91.2%	-2.6%	91.0%	-2.5%	4.3%	3.5%	0.8%
	Govia Thameslink Railway	85.1%	87.8%	-2.7%	88.0%	-2.9%	4.3%	3.1%	1.2%
	Greater Anglia	91.0%	92.3%	-1.3%	92.3%	-1.4%	2.5%	1.7%	0.8%
	London Midland	88.0%	86.9%	1.1%	87.0%	1.0%	2.8%	2.8%	0.0%
	London Overground	95.3%	96.9%	-1.6%	97.0%	-1.7%	1.8%	2.0%	-0.2%
	Merseyrail Electrics 2002 Ltd	95.6%	96.0%	-0.4%	96.0%	-0.4%	2.0%	2.0%	-0.1%
	Northern Rail	90.9%	91.4%	-0.5%	91.4%	-0.5%	1.8%	1.9%	-0.1%
	South Western	90.1%	91.9%	-1.8%	92.0%	-1.9%	2.6%	2.1%	0.5%
	Southeastern	89.0%	90.4%	-1.3%	90.5%	-1.5%	2.8%	2.5%	0.3%
	Southern	83.6%	87.5%	-3.9%	87.8%	-4.2%	4.6%	3.0%	1.7%
	Virgin Trains	85.1%	85.5%	-0.4%	85.5%	-0.4%	4.9%	4.0%	0.9%
Open access TOCs	First Hull Trains	88.2%	84.0%	4.2%	84.0%	4.2%	4.9%	7.0%	-2.1%
	Grand Central	87.4%	83.8%	3.7%	84.0%	3.4%	4.3%	7.5%	-3.1%
	Heathrow Express Ltd	92.8%	93.7%	-1.0%	93.8%	-1.1%	1.6%	1.3%	0.3%

- At the end of Period 12, TOC level performance was below the targets specified in Performance Strategies for many operators, notably Southern, FTPE, and GTR. Fifteen out of nineteen TOCs failed to meet their profiled PPM MAA targets, the largest variances being Southern (3.9pp short of target), FTPE (2.6pp short of target), and GTR (2.7pp short of target). First ScotRail PPM MAA was 1.3pp worse than target at 90.7%. Twelve out of eighteen TOCs failed to meet their CaSL target, the worst operators being Southern and GTR who were 1.7pp and 1.2pp worse than target respectively.
- Southern** performance continues to be below target, with PPM MAA 3.9pp below target and CaSL MAA 1.7pp below target at the end of Period 12. It is now arithmetically impossible for Southern to meet its year-end CaSL target (+0.2pp), with a period CaSL score of -14.3% in period 13 required to meet the year one target. Year to date, Network Rail delay minutes are 27.7% worse than target, with delay minutes associated with network management and other and non-track asset failures continuing to rise in the period. TOC-on-Self delay minutes impacting Southern performance (YTD) are 7.6% worse than target. ORR also believes that it is unlikely that **GTR** will meet its year-end PPM and CaSL targets. It is also arithmetically impossible that GTR's year-end CaSL target will be met (+0.2pp), requiring a period CaSL score of -9.5pp in the remaining periods of the year to meet the target (+0.2pp). Network Rail's delivery of performance for GTR and Southern are currently the most serious performance related issues on the Regulatory Escalator.



- FTPE** performance remains below target, with the operator behind both its PPM and CaSL MAA targets by 2.6pp and 0.8pp respectively. It is now arithmetically impossible for FTPE to meet its year-end CaSL target (+0.2pp), requiring a period CaSL score of -4.4pp in the remaining periods of the year to meet the target (+0.2pp). Network Rail caused delay minutes year to date remain over target (25.9% worse than the Performance Strategy target), with the non-track asset KPI group 21.3% worse year to date than at the same point last year. TOC-on-Self delay minutes for FTPE are 52.5% worse than target year to date, with fleet issues continuing to impact performance. Network Rail's delivery of PPM and CaSL for FTPE is currently on the Regulatory Escalator.
- Greater Anglia** PPM MAA finished the period at 91%, 1.3pp below target whilst CaSL MAA finished the period at 2.5%, 0.8pp below target. It is now arithmetically impossible for AGA to meet its year-end CaSL target (+0.2pp), requiring a period CaSL score of -5.7pp in Period 13 to meet the target (+0.2pp). Year to date, Network Rail caused delay minutes at the end of Period 12 were 21.2% worse than target, with delay minutes exceeding the levels experienced in 2013-14 in the track assets, non-track assets, network management and external KPI groupings. We have met with Anglia Route in the period to discuss the on-going reasons for performance shortfalls and to discuss actions being taken to address performance recovery. Network Rail's delivery of CaSL for AGA is currently on the Regulatory Escalator.
- Southeastern** CaSL MAA finished the period at 2.8%, 0.3pp above the Performance Strategy target and an improvement on the period 11 result. Network Rail's delivery of CaSL for Southeastern is currently on the escalator.
- FGW** performance remains below target, with the operator finishing the period 1.4pp below target for PPM (MAA) and 0.4pp below target for CaSL (MAA). It is now arithmetically impossible for FGW to meet its year-end CaSL target (+0.2pp) requiring a period CaSL score of -0.9pp in Period 13 to meet the target (+0.2pp). We believe that performance of external, network management and other, and non-track assets have all contributed to the CaSL shortfall. Network Rail's delivery of PPM for FGW's High Speed Services and FGW CaSL is currently on the escalator.

Public Performance Measure			Targets	
PPM (MAA)	2014-15 Period 12		Period PS target and variance	CP5 year 1 PS target and variance
FGW	HSS	83.5 %	87.2% -3.7%	85.0% -1.5%
	LSE	88.8 %	91.7% -2.9%	90.6% -1.8%
	Regional	90.8 %	92.9% -2.1%	91.8% -1.0%

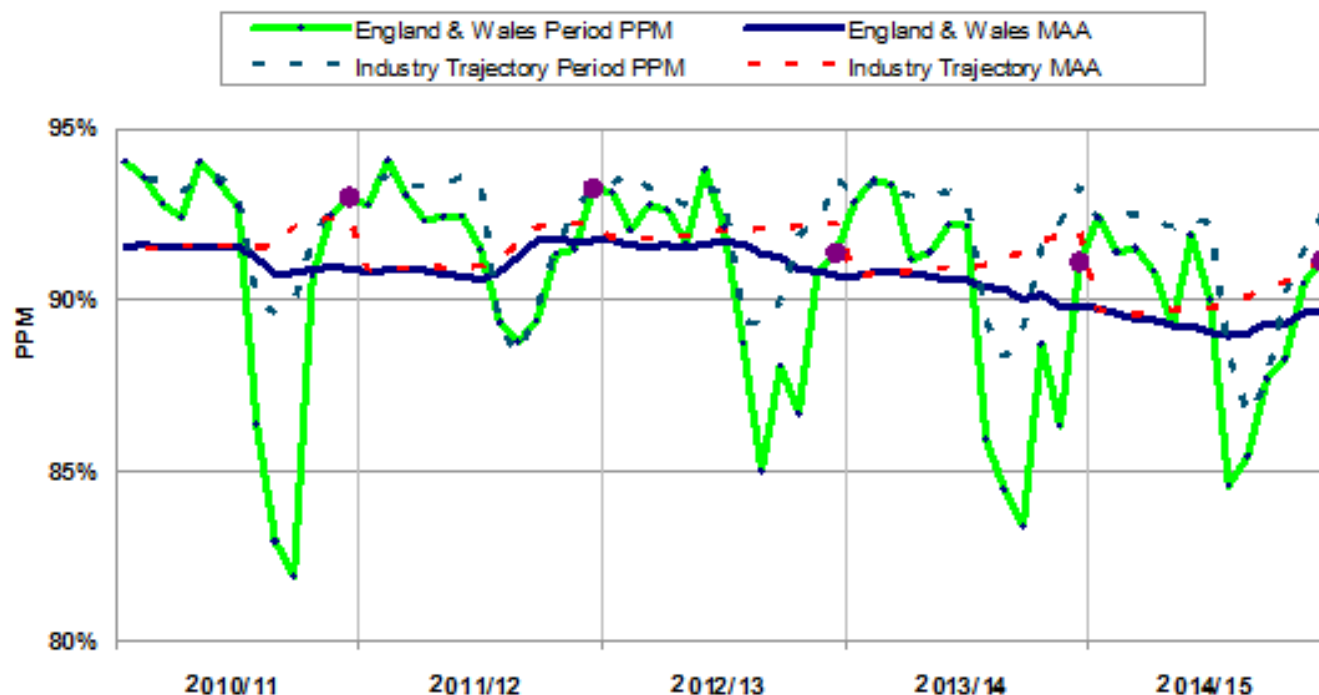
- SWT** finished Period 12 with a PPM MAA score of 90.1% (1.8pp below target) and a CaSL MAA score of 2.6% (0.5pp below target). It is now arithmetically impossible for SWT to meet its year-end CaSL target (+0.2pp), requiring a period CaSL score of -2.1pp in Period 13 to meet the target (+0.2pp). Network Rail's performance delivery to SWT is currently on the escalator.
- Virgin's** PPM MAA improved slightly during the period to achieve a result of 85.1% at the end of the period (0.7pp below target). CaSL MAA performance has also improved slightly to 4.9%, 0.9pp above target. It is now arithmetically impossible for Virgin to meet its year-end CaSL target (+0.2pp), requiring a period CaSL score of -5.3pp in Period 13. Network Rail's CaSL delivery to Virgin is currently on the escalator.



- PPM in **Scotland** ended Period 12 at 90.7%, 1.3pp short of Performance Strategy target. Period performance was impacted by the performance of non-track assets, with 10,316 delay minutes being attributed to the non-track asset KPI category. Performance during Period 12 has continued to worsen and we have therefore raised Network Rail's delivery of performance in Scotland to level 3 on the Regulatory Escalator.
- **East Coast** performance remains strong, with the operator ahead of its PPM MAA target by 2.3pp and CaSL by 1.6pp.

Based purely on historical data trends, the latest performance data and projecting forwards to the end of the financial year three TOCs (FTPE, GTR and Southern) are projected to miss their PPM performance strategy target by more than 2pp. These projections (not forecasts) are at the 25% level i.e. the projections suggest there is less than 25% likelihood these TOCs will finish the year within 2pp of their target. The year-end regulated target in Scotland is also projected to be missed. For CaSL eight TOCs are projected to be miss target by at least 0.2pp; Southeastern, FGW, SWT, FTPE, AGA, Virgin Trains, GTR and Southern.

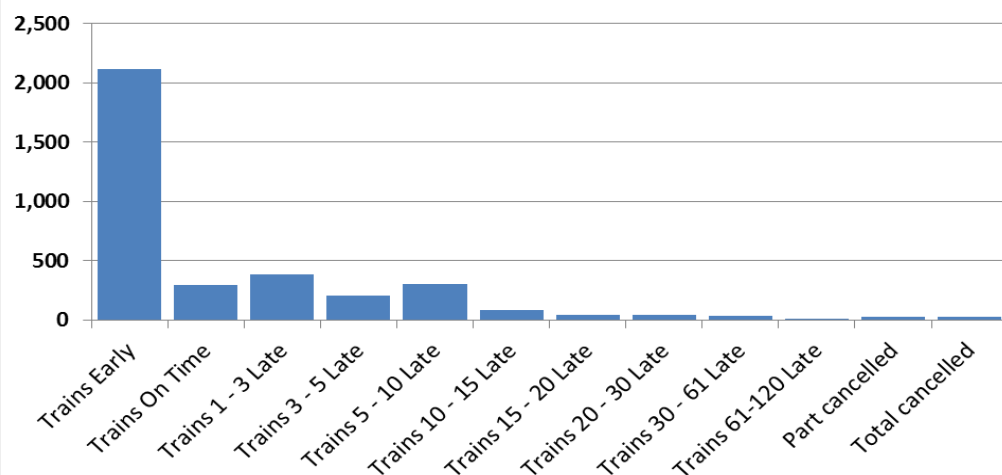
PPM Performance 2015 Industry Trajectory for Franchised Operators



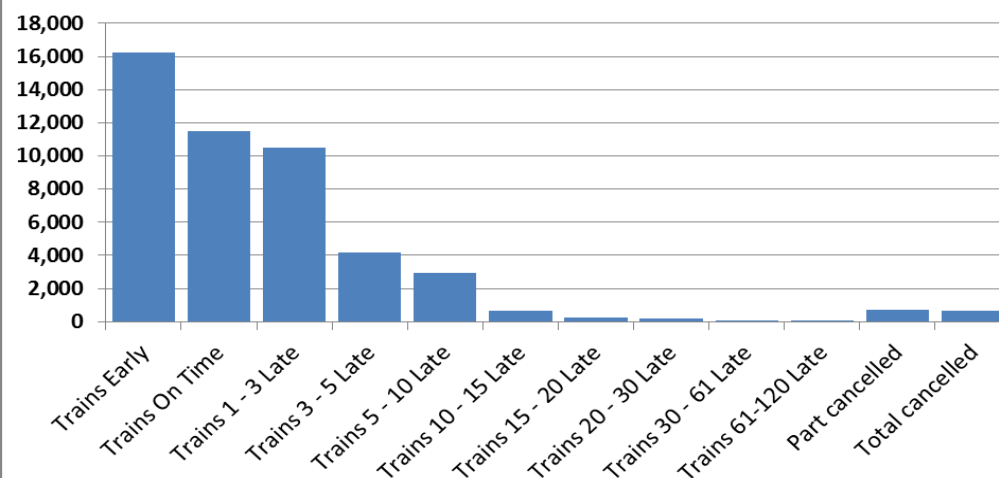
*Chart taken from the P13 POPR



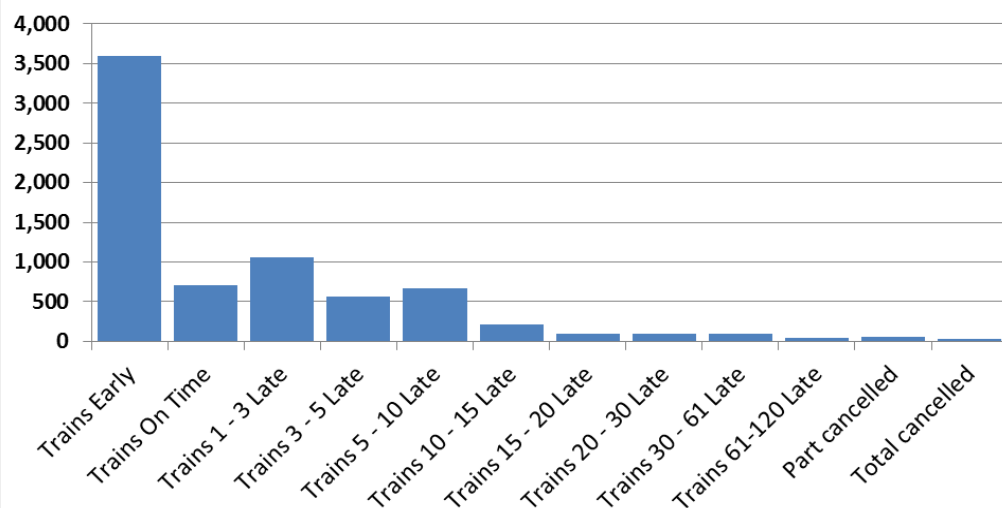
East Coast



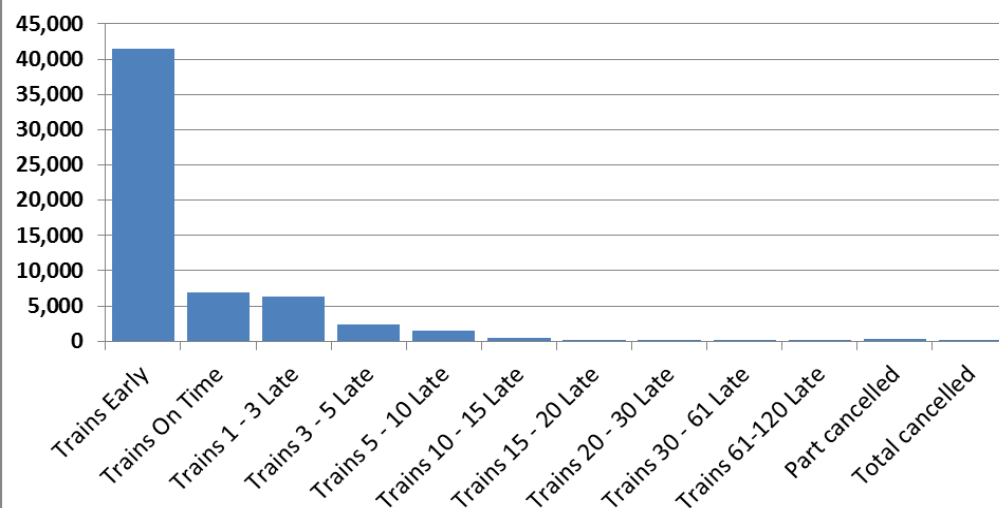
Southeastern



Virgin West Coast Trains



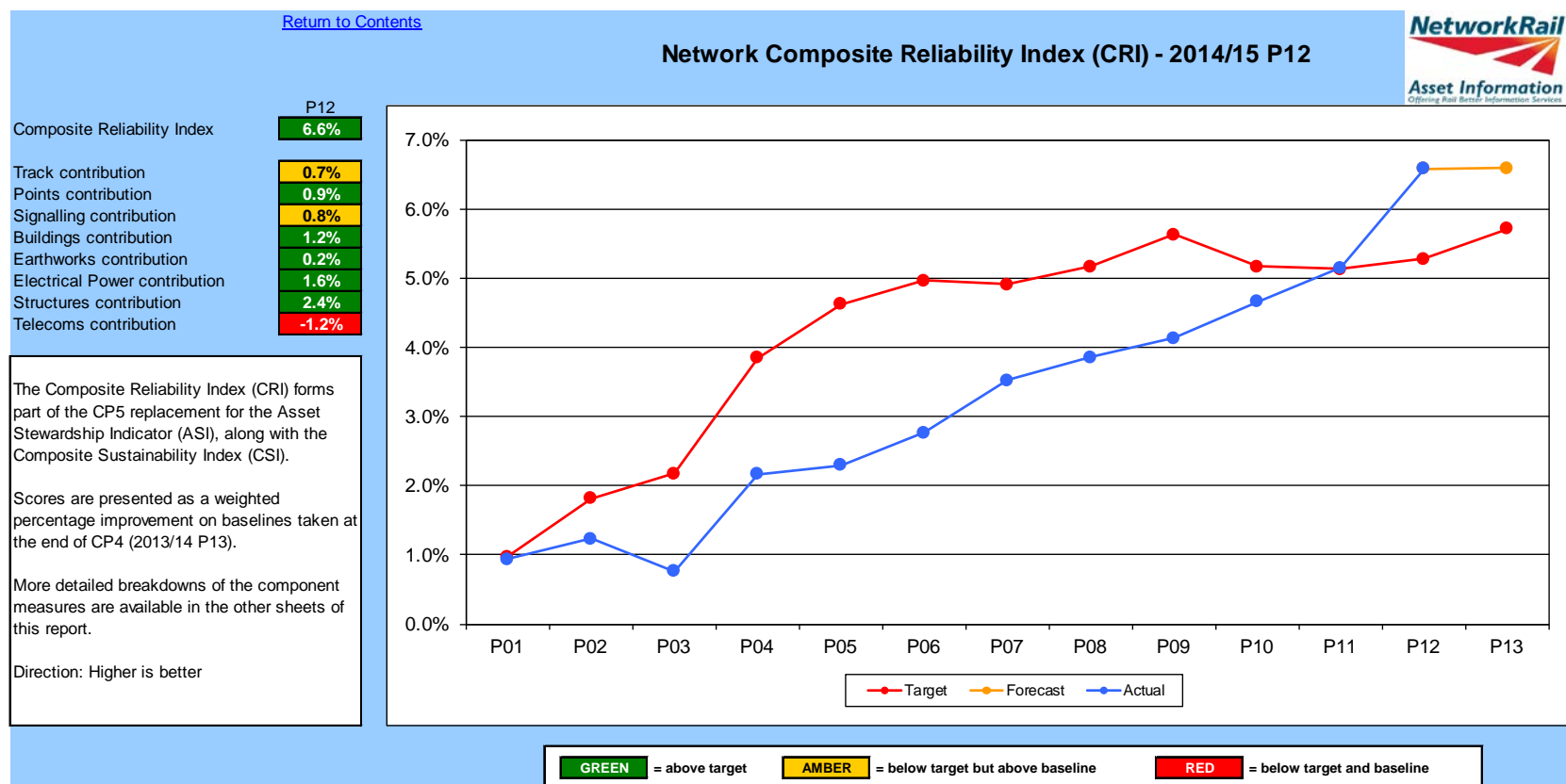
Northern Rail





Asset performance

Composite reliability index (CRI)

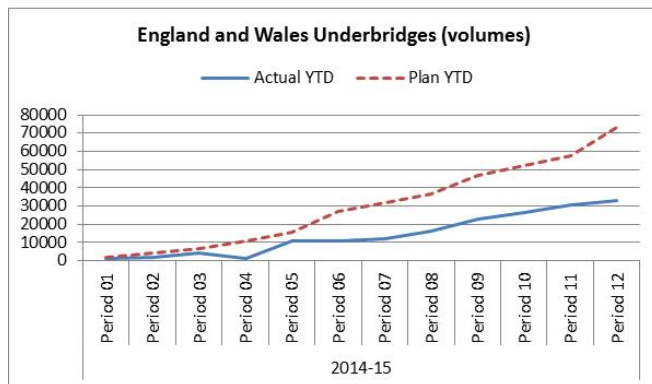
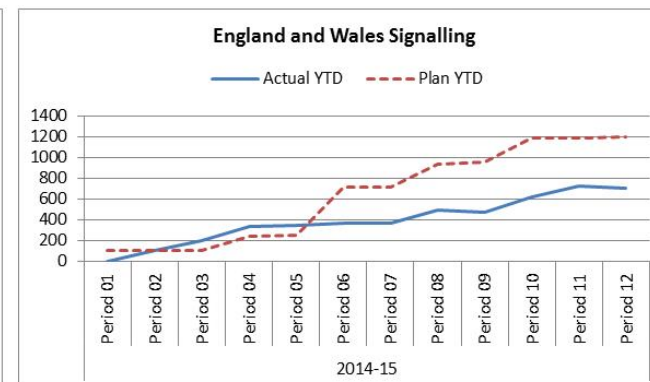
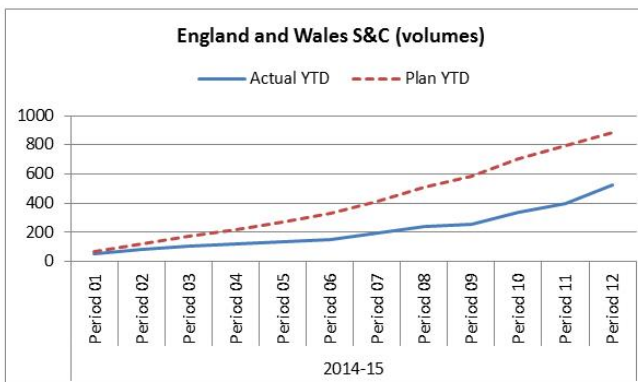
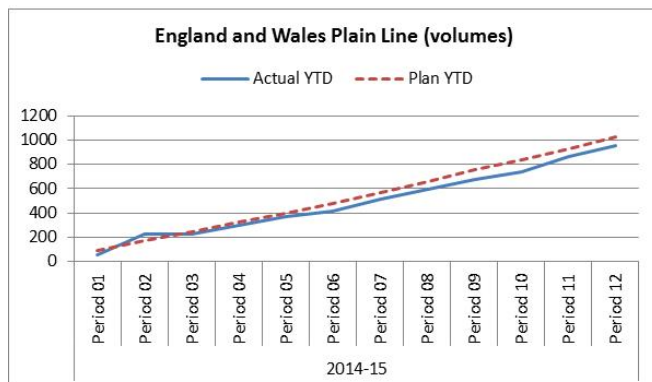
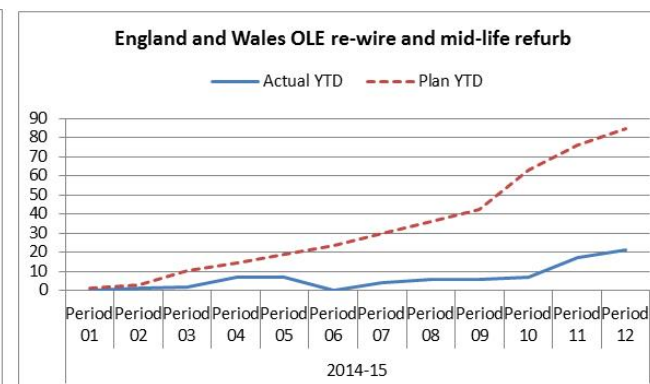
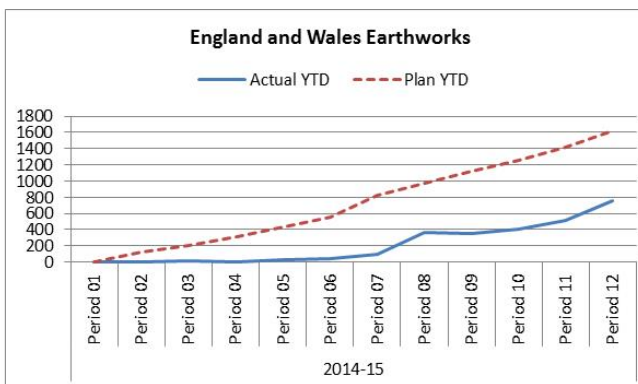
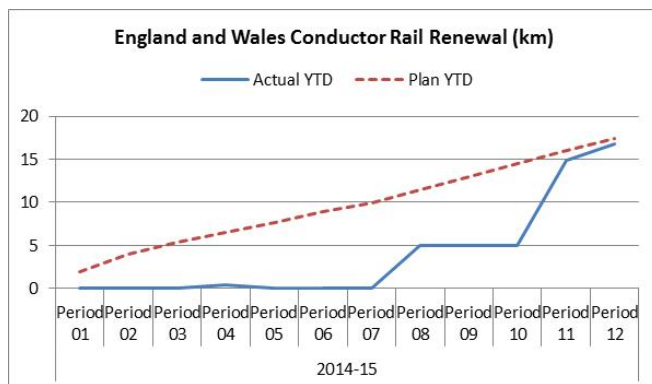


The period 12 Composite Reliability Index (CRI) has exceeded 'stretch target' with reliability continuing to improve overall although this is somewhat skewed by buildings and electrification results. The baseline is taken as at exit CP4 and any improvement above the zero (0%) mark is an indication that the reliability is improving in terms of a reduction in number of defects. The intention is that fewer defects will lead to an improvement in performance. The red line is a 'stretch target'. The current delivery plan target is set at 3%.. Network Rail has only committed to the delivery plan target so it has achieved its objective.

Apart from plain line and conductor rail renewals, all other asset groups are well behind schedule and NR is unlikely to meet year end targets. Maintenance work has been significantly under-delivered according to the RF9 report. Asset management issues account for 32 of the top 50 incidents in period 12. Track circuit failures delay minutes were up considerably (60%) when compared with the same period last year and year to date they are 10% higher than last year. Delay minutes for signal, signalling system and power supply failures (12%) and points failures (13%) are also up in the year to date.



Renewals volumes





Enhancements

Regulated milestones tracker

CP5 regulated milestones		Past CP5 Regulated Milestones						
	Number of regulated outputs		Milestones completed on time		Missed milestones - no or some impact on customers		Missed milestones - notable impact on customers	
GRIP 3	80	GRIP 3	25		13		0	
GRIP 6	93	GRIP 6	20		10		3	
Total	173	Total	45	63%	23	32%	3	4%

Table 1 - Missed GRIP 6 milestones - Great Britain					
EDP Ref	Project Name	Milestone Date	Actual/Forecast	Customer impact	
WX005i	Package 7, 10 Car South West Suburban Railway - Raynes Park to Dorking	Apr-14	May-14	No or some impact	
SC011i	Motherwell Area Stabling - Phase 1	May-14	Jun-14	No or some impact	
WL002i	Barry - Cardiff Queen Street Corridor - Valley Lines - Queen Street entrance enhancement	Jun-14	Nov-14	No or some impact	
WL002ii	Barry - Cardiff Queen Street Corridor - Phase 3 - Barry Lines	Jun-14	May-15	No or some impact	
F006ii	Strategic Freight Network (SFN) - Ipswich Yard	Aug-14	Nov-14	Notable impact	
LNW007i	Chiltern Main Line Lengthening - Except High Wycombe DOWN platform	Aug-14	Sep-14	No or some impact	
SC008ii	Rolling Programme of Electrification - Rutherglen and Coatbridge (R&C) Electrification	Aug-14	Sep-14	Notable impact	
WL002iii	Barry - Cardiff Queen Street Corridor - Phase 4 - Cardiff East	Oct-14	Jul-15	No or some impact	
F006i	Strategic Freight Network (SFN) - Peak Forest	Nov-14	Feb-15	No or some impact	
CR005ii	North of England Programmes (LNW) - Phase 2 (a&b) - (NW Electrification Phase 2 Configuration State 3)	Dec-14	May-15	Notable impact	
CR005ii	North of England Programmes (LNW) - Phase 2 c - (NW Electrification Phase 2 Configuration State 5)	Dec-14	May-15	No or some impact	
S005	Belcombe to Copyhold Bi-directional Signalling Upgrade	Dec-14	Jan-15	No or some impact	
EM002	St Pancras - Sheffield Linespeed Improvements	Dec-14	Jan-15	No or some impact	

Key: Milestones highlighted red indicate missed milestones which had a notable impact on Network Rail's customers. Milestones highlighted yellow missed milestones which had no or some impact on Network Rail's customers.



Confidence index

ORR Confidence Index Schedule Ranking For Future Milestones						<div>Key:</div> <div>Red: There is significant risk the GRIP 6 milestone will not be delivered on time. Network Rail has not recognised or does not have a plan to mitigate the risk.</div> <div>Amber: There is significant risk the GRIP 6 milestone will not be delivered on time. Network Rail has recognised the risk and has a plan, that we consider deliverable in place to mitigate the risk.</div> <div>Green: There are no significant risks to delivery of the GRIP 6 milestone</div>
Red		Amber		Green		
14	9.2%	42	27.5%	97	63.4%	

Confidence Index of projects due for completion within the next 12 months							Confidence index scoring		Some concerns	0.5-0.9
							Project on track	1	Serious concerns	0.0-0.4
Project ID	Project Name	GRIP 6 completion	Lead Manager	Schedule	Cost	Output	Impact	Confidence Index		
LNE008	East Coast Main Line overhead line electrification	Mar-15	Matt Durbin	G	G	G	G	1.0	↑	
CR005	North of England Programmes (LNW) - Manchester Airport - (Northern Hub - Configuration State 5)	Mar-15	Philippa Kingston	G	A	G	G	0.9	↓	
W011	Westerleigh Junction to Barnt Green Linespeed Improvement	Apr-15	Nick Layt	A	G	G	G	0.8	→	
SC007	Borders Railway	Jun-15	James Dunshea	G	G	G	G	1.0	↑	
LNW007	Chiltern Main Line Lengthening - High Wycombe DOWN platform - COMPLETE	Aug-15	Nick Layt					COMPLETE	↓	
K004	New Cross Grid	Sep-15	Peter Doran	A	G	G	G	0.8	→	
LNW005	Birmingham New Street Gateway Project	Sep-15	Peter Doran	G	A	G	G	0.9	→	
K001	Kent Traction Power Supply Upgrade - Gravesend - Gillingham 12 car	Dec-15	Peter Doran	G	A	G	G	0.9	→	
WL002	Barry - Cardiff Queen Street Corridor - Phase 5 - Cardiff Central	Jan-16	Nick Layt	A	A	G	G	0.7	→	

Redacted s.31 (1) (g) and (2) (c) Regulatory action



Enhancements Cost Adjustment Mechanism Summary				
Reviews completed	Reviews scheduled	Proportion complete		Reviews delayed by Network Rail
20	66		30.3%	20
		England & Wales	Scotland	Total
ECAM submissions level of funding (£m)		£ 3,496	£ 199	£ 3,695
Completed ECAM reviews efficient level of funding (£m)		£ 3,262	£ 199	£ 3,461
Efficient funding adjustment (£m)		£ 233	£ -	£ 233
Final Determination funding (£m)		£ 5,931	£ 477	£ 6,408
Completed ECAM efficient funding as % of FD funding (£m)		55.01%	41.74%	54.02%
ECAM reviews scheduled in the next 3 months				
Month	Project Reference	Project Name		
March 2015*	ES002	Derby Station Area Remodelling		
March 2015*	WX001	Waterloo		
March 2015*	A002	Anglia Traction PSU - GE Bulk Supply Point		
April 2015*	* Those reviews to be submitted in March 2015 will be reviewed in April due to the resource demand of the on going North of England Programmes ECAM review			
May 2015	ES003	ES Development Programme (Bedford-Sharnbrook)		
May 2015	S004	London Victoria station capacity improvements		
May 2015	A002	Anglia Traction PSU - West Anglia Power Upgrades		

Enhancements Commentary

- The enhancements programme continues to suffer cost and time overruns. **Redacted s.31 (1) (g) and (2) (c) Regulatory action.**
- The ECAM review of the North of England Programmes is currently being undertaken with the submitted cost seeing significant (circa £300m) escalation since August 2014. In relation to this the escalator level for the issue of significant cost escalations across the portfolio remains at step 4.
- During Period 12 we have determined an efficient level of funding for one further ECAM review, and await input from DfT on two other reviews to complete the determination. All three ECAM submissions due in March 2015 have all been received on time.
- A recent presentation from the Great Western programme confirms substantial challenges in the delivery of OLE foundation piling as well as the enormous signalling design challenge, which means that the current NR prediction is only a 50% chance of hitting any of the three major configuration state changes.



Finance and efficiency

Table 1: Income and expenditure for Great Britain in 2014-15

£m	Year to date			Full year forecast		
	Budget	Actual	Variance b/(w)	Budget	Full Year Forecast	Variance b/(w)
Turnover	1,375	1,392	(17)	1,553	1,563	(10)
Schedule 4	(226)	(157)	69	(244)	(196)	48
Schedule 8	(57)	(98)	(41)	(50)	(118)	(68)
Operations, support & maintenance	(1,971)	(1,998)	27	(2,229)	(2,217)	12
Capex – Renewals	(3,104)	(2,565)	539	(3,423)	(2,877)	546
Capex - Enhancements	(3,219)	(3,058)	161	(3,532)	(3,362)	170
Total	(7,202)	(6,484)	738	(7,925)	(7,207)	674

As shown in Tables 1 and 2 Network Rail has not made a good start to its CP5 efficiency challenge. Network Rail's year to date expenditure is £99m adverse to its own budget.

Network Rail is currently expecting to underperform¹ our regulatory financial performance measure by around £321m in 2014-15 due to:

- Forecast £125m adverse performance against Network Rail's own budget (see below);
- Network Rail's budget is itself around £95m higher than our PR13 financial assumptions for 2014-15 largely due to higher assumed Schedule 8 payments and track unit costs; and
- Network Rail has estimated that we will make £100m of adjustments for forecast under-delivery of regulatory output requirements for train performance and missed enhancements milestones. We are reviewing this so the final number may be different.

Redacted s.31 (1) (g) and (2) (c) Regulatory action.

Table 2: Regulatory financial performance measure for Great Britain in 2014-15

£m	Year to date b/(w)	Full year forecast b/(w)
Income less expenditure (see Table 1)	738	674
Variances that do not count for out/underperformance (1)	(1,011)	(995)
Capex performance adjustment (2)	174	194
Financial performance compared to Network Rail budget	(99)	(127)
Network Rail budget compared to PR13 (3)	(90)	(95)
Adjustments for missed regulatory outputs (4)	-	(100)
Total financial performance	(189)	(321)

Table 2: Explanatory Notes

This information is from the Network Rail Period 12 Finance Pack (period end 7 Mar. 2015). Note that we are working with Network Rail on changes to the presentation of the Finance Pack to make it consistent with our PR13 Final Determination e.g. separately show operations and support costs. Please note the following in relation to the above financial information:

- Variances that do not count for financial out/underperformance include items such as renewals that have been deferred to later in the control period.
- The Capex performance adjustment is a 75% add back to the renewals and enhancements net overspend which counts towards the financial performance measure. This aligns with Network Rail's financial reward/penalty for renewals and enhancements expenditure through the RAB roll forward mechanism. The capex overspend which counts towards the financial performance measure cannot easily be seen in this table because it is more than offset by the significant level of renewals and enhancements deferrals which are excluded from the measure.
- Because Network Rail achieved lower efficiency savings in the final year of CP4 than we assumed in our PR13 determination the company has more work to do in CP5 to deliver the efficiency challenge set out in our PR13 determination.
- The adjustment for missed regulatory outputs represents Network Rail's estimate of anticipated ORR adjustments for not meeting the train performance target in 2014-15, based on our assessment in 2013. We will review this so the final number may be different. Network Rail has **not** recognised a proportion of this adjustment in the year to date figures.

¹The terms financial out/(under) performance are used to compare Network Rail's actual income and expenditure with the agreed assumptions in our periodic review determination.



Network Rail's financial performance in Scotland

Year to date financial performance is broadly in line with Network Rail's own budget. The full year forecast financial performance is £1m worse than Network Rail's own budget due in part to worse performance across opex & maintenance and schedule 8.

Redacted s.31 (1) (g) and (2) (c) Regulatory action

Efficiency

We are working with Network Rail to include an efficiency number in this report.

Network Rail's borrowing

Network Rail is currently expecting that its debt for Great Britain at 31 March 2015 will be £37.1 billion which is £0.1 billion higher than its budget forecast. The amount of new borrowing available from DfT is limited to £30.3 billion across CP5. Network Rail currently considers that it can deliver its regulatory requirements within the borrowing limits. However, there is uncertainty due to the potential effect of the CP5 Enhancements Cost Adjustment Mechanism (ECAM), which will not be finalised until 2015-16. This issue is currently being investigated as part of the Business Plan update. Currently Network Rail expects to finish 2014-15 in line with but not exceed the annual 'notified borrowing' amount agreed with DfT. However Network Rail have a Treasury Management policy of targeting a cash balance of £0.3-£0.5bn which provides a level of contingency to cover unforeseen spend.

Purpose of this section

This section of the tracker is discussing two different ways of looking at Network Rail's financial performance – Network Rail's spend against its own budget² (Table 1) and it's spend against our regulatory financial performance³ measure (Table 2), which takes into account Network Rail's delivery of regulated outputs and the sustainability of its asset management, in order to determine how Network Rail has performed in relation to our determination. The baseline for the regulatory performance measure is our PR13 determination and we ensure that Network Rail does not benefit where work is delayed (i.e. deferral of work to later periods). We are working with Network Rail to include an efficiency number in this report.

Network Rail is currently in the process of updating its business plan. There is a separate agenda item covering this issue.

² The table provides a summary of Network Rail's expenditure against its own budget in order to illustrate what Network Rail has spent during the year and no adjustments are made to it for issues like deferrals as in this table we are concerned with the actual variance in expenditure.

³ We restrict the measurement of efficiency to reductions over time in core support, operations, maintenance and renewals expenditure (SOM&R). Historically, we have used the term efficiency to describe a reduction in expenditure that Network Rail needs to make whilst delivering the outputs that it is required to deliver. The *Financial Performance Measure (FPM)* is a more encompassing measure of total financial performance covering most items of Network; Rail's income and expenditure.



Redacted s.31 (1) (g) and (2) (c) Regulatory action



Redacted s.31 (1) (g) and (2) (c) Regulatory action



Notes and definitions

PPM

Public performance measure, of trains arriving at destination, having made all booked calls, within five minutes of scheduled arrival time (ten minutes for long distance services).

CaSI

Cancellations and significant lateness, is a combined measure of punctuality and reliability. It captures the percentage of scheduled passenger trains which are either cancelled (including those cancelled en route), miss one or more scheduled stops or arrive at their scheduled destination 30 or more minutes late.

MAA

Moving annual average. The MAA for a given period is the average value of the previous 13 periods, including the period itself. Note that this is different to a centred MAA which, for a given period data point, averages the previous and future 6 periods. Unless otherwise stated, all MAAs used in ORR publications are not centred MAAs.

PDI

Passenger disruption index (PDI-P) – measures the impact of engineering possessions on excess journey time as experienced by passengers. This is calculated as:

$$\text{PDI-P} = (\text{excess journey time} * \text{"Busyness" Factor}) * (\text{No. of passengers} * \text{time of day weighing} * \text{economic value of time}) \text{ divided by } (\text{total scheduled passenger km}).$$

Freight disruption index (PDI-F) – measures the 'unavailability' of track for freight use, weighted by relative levels of freight traffic operated over each track section. This is calculated as:

$$\text{PDI-F} = (\text{Average freight tonne km per route section divided by Average freight tonne km for network}) * (\text{Track km available divided by total track km})$$

Both indices take a base value of 1.0 in 2007/08. Values greater than 1 indicate a worsening of disruption compared to 2007/08.

FDM

The calculation for deriving FDM differs from PPM as there is a uniform measure for the entire freight network; each train being 'on time' if it arrives at its final destination within 15 minutes of its scheduled arrival time. It only covers delay caused by Network Rail.

Right Time

Right time performance measures the percentage of trains arriving at their terminating station early on within 59 seconds of schedule.

Baseline

This refers to the previous year or the corresponding period in the previous year.

Targets

Three types of targets are used in the NPPR:

- (a) CP5 regulatory outputs – these are the targets for which Network Rail are assessed against by ORR
- (b) Performance Strategies (PS) targets – these are targets agreed between the operator and NR. They are usually (but not always) more stretching than CP4 targets. JPIP targets are also available at a greater level of disaggregation than CP4 targets (e.g. by delay cause or by route).
- (c) NR internal targets – usually only for route level delay minutes

CP5 Performance Plan

Network Rail's performance milestone tracker shows a trajectory, of milestone delivery target versus actual delivery. The critical path is shown throughout the tracker and actual delivery of actions is marked on the tracker by showing the actual number of milestones delivered on time, early or late each period in relation to the critical path. The tighter the distribution to the critical path; the more milestones are being delivered on target.



Train Service Performance (page 7): Colour schemes

PPM

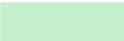
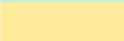

GREEN denotes better than or equal to Plan performance or Baseline (Period or MAA)
AMBER denotes up to 5% worse than Plan or baseline (Period) and up to 0.4% worse than Plan or baseline (MAA)
RED denotes more than 5% worse than Plan or baseline (Period) and more than 0.4% worse than Plan or baseline (MAA)

CaSL

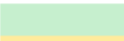


GREEN denotes better than or equal to Plan performance or baseline (Period or MAA)
AMBER denotes up to 3% worse than Plan or baseline (Period) and up to 0.4% worse than Plan or baseline (MAA)
RED denotes more than 3% worse than Plan or baseline (Period) and more than 0.4% worse than Plan or baseline (MAA)

TOC PPM (MAA) & CaSL (MAA) (page 8): Colour schemes

Tolerance levels for period performance strategy PS targets:

	Equal to or better than target
	Worse than target by up to and including 0.3%
	Worse than target by more than 0.3%

Tolerance levels for year end regulatory targets:

	Equal to or better than target
	Worse than target by up to and including 2.0%
	Worse than target by more than 2.0%

The TOCs highlighted in **red** are long-distance operators who were given more lenient PPM targets



Summary of enhancement projects referenced in this report

A001 - Ely North Junction Capacity Improvement - The project is to provide appropriate infrastructure improvements at Ely North Junction to allow for an increase in train capacity at that location (passenger and freight using the single leads).

A002 - Anglia Traction Power Supply Upgrade - The project will develop the requirements for electric traction power to provide additional power to support the capacity increases into London Liverpool Street. IT will also consider the implications associated with future service increases and rolling stock changes in CP6 (funding outside PR13).

CR002 – Reading Station Area Redevelopment - the programme of work delivers a major capacity, capability and performance enhancement across the Reading station area and its approaches.

CR003 – East West Rail – This project will provide the capacity for direct rail services between Oxford / Aylesbury and Milton Keynes / Bedford.

CR005 – North of England Programmes (LNW) - This programme incorporates the outputs from the Northern Hub, North West Electrification and North Trans-Pennine Electrification West in LNW Route.

CR006 – Mobile Maintenance System – This project will deliver bespoke maintenance trains that support a new way of working for maintenance personnel enabling delivery of core maintenance and campaign works in a more efficient manner leading to improved utilisation of track access.

CR007 - Acton (Great Western Main Line) to Willesden (West Coast Main Line) Electrification - This project provides capability for electric passenger and freight train operation between the Great Western Main Line and the West Coast Main Line for timetabled and diverted services.

CR009 - FTN/GSM-R inclusion of freight-only branch lines - The project accommodates all remaining (i.e. as yet without GSM-R system coverage) single-ended freight-only branch lines (i.e. those that lie north of a line drawn between the Severn Estuary and the Wash) that are operational and within Network Rail controlled infrastructure boundaries (NRCI) into the FTN/GSM-R Programme scope.

EM001 - MML Long-Distance High-Speed Services Train Lengthening – This project improves infrastructure capability to enable the introduction of longer trains on the MML on selected services in order to accommodate forecast levels of

passenger growth and reduce crowding on MML LDHS between London St. Pancras and Nottingham and Sheffield.

EM002 - St Pancras – Sheffield line speed improvements - This project will improve the capability of the infrastructure to enable a minimum eight minute improvement in journey times between London and Sheffield for Class 222 operated services calling at Leicester, Derby and Chesterfield.

ES001- Midland Main Line Electrification - This project will extend electrification north of Bedford (Corby, Nottingham and Sheffield).

ES002 – Derby Station Area Remodelling - The project will provide a remodelled track and signalling layout that will segregate services approaching Derby from the north from those services approaching Derby from the south and west, and thus remove the current bottleneck situation at Derby Station.

ES003 – Electric Spine Development Programme - The ES development programme will establish a scope for, and programme for implementation of, schemes to meet the Government's objectives the development of a major north-south rail electrification and capacity enhancement referred to as the 'Electric Spine'.

F006 –Strategic Freight Network This fund will deliver improvements identified by the industry to continue rail freight expansion in England and Wales whilst stimulating wider economic growth and environmental benefits. The current scope of works includes work at Peak Forest, Ipswich Yard, and Southampton to West Coast Main Line train lengthening.

K001 - Kent Traction Power Supply Upgrade - The project will provide the power to facilitate 12 car operation on remaining routes, as per the operating plan, and consistent with the post 2018 timetable specification.

K002 - Route 1 – Power Supply Enhancements - This project is required in order to provide the necessary infrastructure to facilitate the operational plan assumed with train operators to deliver the CP4 HLOS capacity metrics.

K004 – New Cross Grid - This project will provide enhanced traction supply capacity to support the train lengthening and frequency requirements of train services in CP4 and beyond.

LNE001 - Northern Programme (Yorkshire) - This programme will deliver infrastructure to support the illustrative train service specification supporting Northern Hub and TransPennine electrification.



LNE003 - LNE Routes Traction Power Supply Upgrade - This project will provide power supply upgrade development work to enable the delivery of required power to support growth in CP6.

LNE004 - Stevenage and Gordon Hill Turnbacks - This project delivers the capacity metric into Moorgate and King's Cross providing for efficient use of suburban rolling stock by allowing services to turnback at Stevenage and Gordon Hill hence providing efficient resourcing for peak capacity on Inner Suburban services into King's Cross and Moorgate.

LNE008 – East Coast Main Line Overhead Line Electrification – The output of this project is to reduce delay minutes to support the delivery of the route performance plan as part of the CP4/5 Long Term Performance Plan.

LNW001 – Amalgamated into CR005

LNW004 - West Coast Power Supply Upgrade – This project is remitted to upgrade sections of the WCML to a 12kA autotransformer (AT) system.

LNW003 – Stafford Area Improvement Scheme - The project will deliver the capability for two additional, off peak, fast line paths from London to the North West (each direction), one additional path per hour on the Birmingham-Manchester axis (each direction) and one additional freight path per hour through Stafford, again in each direction.

LNW005 - Birmingham New Street Gateway Project – This project includes various station works with the main concourse due to be open for passengers in September 2015.

LNW006 - Walsall to Rugeley Trent Valley Electrification - This project will provide the infrastructure to enable the running of electric rolling stock between Walsall and Rugeley Trent Valley.

LNW007 - Chiltern Main Line Train Lengthening – This project will deliver the infrastructure to accommodate an additional 1000 passengers during the morning 3 hour peak into London Marylebone including platform extensions at five key stations.

S003 – Uckfield Line Train Lengthening – This project will provide extra capacity between East Croydon and London Bridge, and on the Oxted Line by enabling 10-car trains to operate.

S004 - London Victoria Station Capacity Improvements - The project will increase passenger capacity at London Victoria station.

S005 - Balcombe to Copyhold Bi-directional Signalling Upgrade - This project provides infrastructure to enable improved engineering access, and reduced

disruption when access is taken, on the Brighton Mainline between Haywards Heath and Three Bridges through the provision of an improved bi-directional signalling functionality.

SC002 - EGIP – Initial Phase Key Output 1 - This project will electrify the route between Newbridge Junction and Glasgow Queen Street and extend platform lengths.

SC003 - EGIP – Initial Phase Key Outputs 2, 3 & 4 - This project will remodel Glasgow Queen Street station to permit the operation of 8 car trains on the main Edinburgh / Glasgow route and increase line speeds where appropriate to deliver a 42 minute fastest journey time between Edinburgh Waverley and Glasgow Queen Street.

SC004 - EGIP – Edinburgh Gateway (Gogar) Intermodal Transport Interchange (Advance Works) - This project will complete GRIP 5 and advanced works for the new station at Edinburgh Gateway which will be delivered as part of EGIP KO1.

SC006 - 2013 Advance Route Clearance Programme (Other Routes) - This project will undertake advance route clearance works at various structures to facilitate the electrification of the route to Stirling Dunblair and Alloa included in the rolling Programme of Electrification (Scotland).

SC007 - Borders Railway - This project will provide a new rail route between Newcraighall and Tweedbank with 7 new stations to permit operation of a half hourly passenger service with a maximum 44 minute journey time between Newcraighall and Tweedbank.

SC008 - Rolling Programme of Electrification (Scotland) - This project will electrify the routes to Stirling, Dunblair and Alloa and the Shotts Line to permit services to be operated by electric trains to contribute to Scottish government environmental targets and support the EGIP KO4 outputs.

SC011 - Motherwell Area Stabling - This project will electrify the remaining 'back of Shops' sidings to permit the stabling of additional EMUs at Motherwell required by the electrification with a longer term target to consolidate all stabling at Motherwell on one site with appropriate cleaning and servicing facilities.

SC012 - Motherwell Resignalling Enhancements - This project will, in conjunction with the renewal of Motherwell signalling assets, provide appropriate and cost effective enhancements where appropriate including reduced headways and bi-di signalling.



SC013 - ECML (North) – WCML (Carstairs) Gauge Enhancement - The project will deliver infrastructure enhancements to permit W12 gauge traffic to operate between Temple Hirst Junction and Carstairs.

W001a – Great Western Electrification – This project will extend the electrification of the Great Western Main Line (GWML) from Maidenhead (the furthest extent of the Crossrail project) to Cardiff.

W001b – South Wales Main Line Electrification – This project will extend the electrification of the Great Western Main Line (GWML) from Cardiff (the furthest extent of the Great Western Electrification project) to Swansea.

W002b - Intercity Express Programme: Specific GWML Capacity Schemes - To provide infrastructure capacity to enable the operation of the proposed enhanced timetable on the Great Western Main Line (GWML) from May/September 2018 onwards following the delivery of the new Class 800 and Class 801 trains.

W003 – Thames Valley Branches - The project will facilitate the introduction of electric train operation on the Thames Valley branches, replacing diesel trains for cascade to the West, providing additional capacity for both the Thames Valley and the West of England.

W004 - Thames Valley Electric Multiple Unit Capability Works – This project will provide infrastructure capability enhancements to enable the operation of EMUs in the Thames Valley area – Paddington to Newbury, Oxford and associated branch lines.

W008 - Bristol Temple Meads Station Capacity (incl. Midland Shed) – This project will provide additional access and circulation at Bristol Temple Meads and

the reinstatement of platforms within the Midland Shed capable of accommodating a 260m long 10 car SET.

W011 - Westerleigh Junction to Barnt Green Linespeed Improvement - This enhancement will provide a linespeed increase to 100mph for the majority of the route, resulting in increased performance robustness.

WL001 - Welsh Valley Lines Electrification - The scheme will enable the more efficient operation of passenger services on the Valley Lines network, replacing ageing diesel traction with electric trains.

WL002 - Barry – Cardiff Queen Street Corridor - This project facilitates the increase of south Wales valley line services from 12 trains per hour to 14 trains per hour through the central Cardiff corridor by the end of CP4 (March 2014) and to 16 trains per hour by May 2016.

WX001 – Waterloo - The primary drivers of this programme are to deliver CP5 HLOS capacity metrics, address the impacts of forecast growth into London Waterloo station on the wider South West route and facilitate continued growth expectations into future control periods.

WX005 - Package 7, 10 Car South West Suburban Railway - This project allows 10 car operation on suburban services on the Wessex route into Waterloo.