

PROJECT ADVICE NOTE

NR/L3/INI/CP0074/F0030

Updated:

14/08/2019

Issue:

27

PAN REGISTER

Issuing Discipline / Programme	PAN Owner	Applicability (Discipline Specific / Cross Discipline / Programme)	PAN REFERENCE NUMBER					IP IMS link	Information Controller	Title	Latest Version	Date Issued	Expiry Date	Current Status
			PAN	Type	Function	Subject	Number							
Signalling & Telecoms Renewals Programme	David Warwick (Steve Williams)	Signalling Discipline	PAN	E	CE	SS	0017	NR-IP-EN(SI)-1996	R Shannon	Signal Structures - Form A Guidance For Loading & Performance <i>Note: Nov 2018, PAN validity extended to 30/11/2019.</i>	3	28/07/2008	30/11/2019	Current
Electrification & Plant	John Fry	Electrification & Plant Discipline	PAN	E	EP	SH	0025	NR-IP-EN(EP)-1998	TBA	Points Heating Control Cubicle Wiring <i>Note: Mar2019, validity extended to 30/09/2019.</i>	2	08/07/2014	30/09/2019	Current
Signal Project Engineering	David Warwick	Signalling Discipline	PAN	E	SE	PRO	0028	NR-IP-EN(SI)-1999	R Shannon	TASS: Tilt Authorisation and Speed Supervision System <i>Note: Mar 2019 - Validity extended to 30/09/2019.</i>	3	17/07/2015	30/09/2019	Current
Signal Project Engineering	David Warwick (Steve Williams)	Signalling Discipline	PAN	E	CE	SS	0033	NR-IP-EN(SI)-2007	R Shannon	Aerodynamics in Tunnels - Pressures on Signal Structures <i>Note: Under review by STE B&C tunnels team. Nov 2018, validity extended to 30/11/2019.</i>	3	10/04/2017 (original issue date 15/04/2013)	30/11/2019	Current
Signalling Project Engineering	David Warwick (Michael Harrison)	Signalling Discipline	PAN	E	SE	PRO	0038	NR-IP-EN(SI)-2004	R Shannon	Competence Management and Authority to Work (ATW) for Signal Project Engineers <i>Note: May 2019 - Validity extended to 31/05/2020.</i>	6	22/12/2015	31/05/2020	Current
								NR-IP-EN(SI)-2001		Technical Competence Guidance - Quads				
								NR-IP-EN(SI)-2002		Engineering Management 02009 Quads				
								NR-IP-EN(SI)-2005		DNA FAQs				
								NR-IP-EN(SI)-2006		How to Guide - Update Competence				
								NR-IP-EN(SI)-2003		ATW Form				
Signal Project Engineering	David Warwick	Signalling Discipline Programme Management Discipline	PAN	E	SE	ES	0040	NR-IP-EN(SI)-2009	R Shannon	Data Design and Testing Process Monitoring <i>Note: Jan 2019 - Validity extended to 31/01/2020.</i>	3	09/09/2016	31/01/2020	Current
								NR-IP-EN(SI)-2010		Data Design & Testing Progress Monitoring Checklist				
								NR-IP-EN(SI)-2011		Interlocking Data Development Plan				
								NR-IP-EN(SI)-2012		Electronic Interlocking Tracker Dashboard				
Electrification & Plant	John Fry (Michael Harrison)	Electrification & Plant	PAN	E	EP	PRO	0052	NR-IP-EN(EP)-2017	Belinda Wilson	Authority to Work (ATW) for Project and Design Engineers of the Electrification & Plant Discipline <i>Note: May 2018 - Validity extended to 31/05/2019.</i>	3	01/07/2015	31/05/2020	Current
								NR-IP-EN(EP)-2048		Appointment of Competent E&P Assessor				
								NR-IP-EN(EP)-2049		Register of Competent Assessors (E&P Project Engineering)				
								NR-IP-EN(EP)-2107		PE Competency Assessment				
								NR-IP-EN(EP)-2108		E&P Design Engineering - Authority to Work				
								NR-IP-EN(EP)-2050		Development Plan Pro-forma				
								NR-IP-EN(EP)-2052		Blank EP Project Engineer ATW Evidence Form				
NR-IP-EN(EP)-2051	Blank EP Design Engineer Evidence Form													
Track Engineering	Jeff Hills (Michael Harrison)	Building & Civils, Construction, Electrification and Plant, Signalling, Systems Engineering, Telecommunications, Track and Programme Management	PAN	IP(T)	C	ADV	0058	NR-IP-EN(TR)-2058	Jeff Hills	Critical Rail Temperature Management – CWR and Jointed Track <i>Note: Feb 2019 - Validity extended to 31/12/2019 pending standard introduction.</i>	5	08/07/2016	31/12/2019	Current
Telecoms	Andy Letts	Telecoms Discipline	PAN	E	TE	FT	0061	NR-IP-EN(TE)-2059	R Shannon	Guidance on GSM-R Implications to Projects and other Rail Infrastructure Work <i>Note: Aug 2018, PAN validity extended to 31/08/2019.</i>	3	08/03/2017 (previously reviewed 09/03/2016)	31/08/2019	Current
								NR-IP-EN(TE)-2062		Telecoms Design Group Checklist Template				

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Track Engineering	Jeff Hills (Michael Harrison)	Track and Civil Engineering	PAN	IP(T)	MI	INS	0062	NR-IP-EN (TR)-2063	Mark Downes	Gauging Guidance for Civil and Track Project Engineers & Designers <i>Note: Jul 2019 - PAN validity period extended to 31/07/2020.</i>	3	18/12/2015	31/07/2020	Current							
Systems Engineering	Tony Wilcock	Cross Discipline - Signalling, Track, Telecommunications, Electrification and Plant, Buildings & Civils, Systems Engineering, Programme Management, Construction and Finance and Commercial	PAN	PMSE-E	CD	INS	0064	NR-IP-EN-2064	R Shannon	Reviews of Engineering Deliverables <i>Note: Nov 2018, validity extended to 30/11/2019.</i>	3	15/11/2017 (original issue date 26/02/2014)	30/11/2019	Current							
								Link		DRN Form Version 8 - (NR/L2/INI/02009/F0044) <i>Note: PAN re-issued Nov 2017. Supporting material re-validated to 30/11/2019.</i>	8										
								Note: Discipline specific guidance, as referred to in Appendix A of the PAN, can be accessed via the following links:													
								NR-IP-EN-2066		B&C Detailed Review Guidance to Support PAN/PMSE-E/CD/INS/0064 - July 2014 <i>Note: PAN re-issued Nov 2017. Supporting material re-validated to 30/11/2019.</i>	1	30/11/2019 (original issue date 02/09/2014)	Updates as required								
								NR-IP-EN-2067		E&P Detailed Review Guidance - March 2014 <i>Note: PAN re-issued Nov 2017. Supporting material re-validated to 30/11/2019.</i>	1	30/11/2019 (original issue date 01/03/2014)	Updates as required								
								NR-IP-EN-2068		Signalling Risk Based Review Guidance <i>Note: PAN re-issued Nov 2017. Supporting material re-validated to 30/11/2019.</i>	1	30/11/2019 (original issue date 20/03/2014)	Updates as required								
								<i>Includes: Bonding Plans / Control Centre Wiring Diagrams / Equipment Sighting Forms / Fringe Signal Box Design / Location Area Plans / Panel Fascias / Panel Wiring Diagrams / Signal Box & Block Shelf Diagrams / Control Tables / Correlation & Asset Assessment / Lever Details / Location Case Drawing / Operating Notices / Route Lists / SAT - DA Reports / Sign Sighting Forms / Signal Sighting Forms / Signalling Design Specification / Stepping Tables / SS / TASS / TD Block Schematics / VDU Screen Views</i>													
								NR-IP-EN-2069	Track Design Review Checklist (Aide Memoir) for Project Engineers Track - April 14 <i>Note: PAN re-issued Nov 2017. Supporting material re-validated to 30/11/2019.</i>	1	30/11/2019 (original issue date 02/04/2014)	Updates as required									
NR-IP-EN-2070	Telecom Project Engineering Review Level Guidance Module	1	30/11/2019	Updates as required																	
Buildings & Civils	Steve Williams (Michael Harrison)	Building & Civils Project Engineering	PAN	B&C-E	GEN	INS	0066	NR-IP-EN(BC)-2071	Brian Robertson	Authority to Work (ATW) for Project Engineers of the Buildings & Civils Project Engineering Discipline <i>Note: Jul 2019 - Validity extended to 30/11/2019.</i>	3	20/06/2016	30/11/2019	Current							
								NR-IP-EN(BC)-2073		Civils Authority to Work information <i>Note: Issued by email to LDEs for cascade in June 2017, added to IMS in March 2018.</i>	4				26/03/2018						
Programme Systems Engineering	Tony Wilcock	Signalling, Track, Telecommunications, Electrification & Plant, Buildings & Civils, Contracts & Procurement and Programme System Engineering	PAN	PMSE-E	CD	INS	0070	NR-IP-EN-2074	R Shannon	Supplier Performance Management - Engineering Assurance <i>Note: June 2019 - validity extended to 31/12/2019.</i>	2	15/11/2017 (original issue date 30/01/2012)	31/12/2019	Current							
Crossrail Programme	John Fry	Crossrail Programme	PAN	C&R-E	EP	ADV	0071	NR-IP-EN(EP)-2075	Sandra Locke	Junction Lighting: Estimating Future Load Allowance <i>Note: July 2019 - Validity extended to 31/07/2020.</i>	1	01/02/2012 (original issue date) Last review 20/08/15	31/07/2020	Current							
Signalling & Electrification (Telecoms)	Andy Letts (Michael Harrison)	Telecoms Project Engineering	PAN	E	TE	PRO	0076	NR-IP-EN(TE)-2080	Geoff Hooper / Paul Farmer	Authority to Work (ATW) for Telecoms Project Engineering Activities <i>Note: May 2019 - PAN validity period extended to 30/11/2019.</i>	1	18/12/2014	30/11/2019	Current							
								NR-IP-EN(TE)-2077		Telecoms Project Engineer Assessor Competencies List											
								NR-IP-EN(TE)-2081		PE Competency list											
								NR-IP-EN(TE)-2082		Telecoms Authorities to Work PEs 2											
								NR-IP-EN(TE)-2083		Competence Data Download Template Telecoms 2											
NR-IP-EN(TE)-2084	02009 Roles																				

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Asset Management [Track]	Jeff Hills (Michael Harrison)	Track Project Engineering Discipline	PAN	AM(T)	G	INS	0078	NR-IP-EN(TR)-2086	Jeff Hills	Authority to Work (ATW) for Project Engineers within the Track Discipline <i>Note: May 19: PAN validity period extended to 31/08/2019.</i>	1	21/03/2012	31/08/2019	Current	
Signal Project Engineering	David Warwick (Michael Harrison)	Signalling Project Engineering Discipline - Testing & Commissioning Engineers	PAN	E	SE	PRO	0084	NR-IP-EN(SI)-2087	Darren Nock	Competence Management for Test and Commissioning Engineers <i>Note: May 2019 - Validity extended to 31/05/2020.</i>	3	19/06/2015	31/05/2020	Current	
								NR-IP-EN(SI)-2088		T&C Engineers Technical Competencies				Current	
								Link		Link to Connect Amend / Reactivate Account Page				Current	
								NR-IP-EN(SI)-2089		How to Guide - Update Competence Profile for Employees				Current	
								NR-IP-EN(SI)-2090		Development Needs Analysis - Frequently Asked Questions				Current	
Signal Project Engineering	David Warwick	Signalling Project Engineering Discipline	PAN	E	SE	PRO	0086	NR-IP-EN(SI)-2091	Mick Turner	Signalling 'Plug and Play' Requirement <i>Note - Sep 2018: issue 3 published.</i>	3	10/09/2018 (original issue date 12/04/2013)	30/09/2019	Current	
Buildings & Civils	Daniel Recchia	Construction & Programme Management Disciplines	PAN	B&C-E	GEN	ADV	0090	NR-IP-EN(BC)-2092	R Shannon	Construction Management Plan <i>Note: Nov 2018, validity extended to 30/11/19.</i>	1	03/07/2014	30/11/2019	Current	
								NR-IP-EN(BC)-2093		PAN/B&C-E/GEN/ADV/0090, Issue 1: Briefing Material July 2013					
Programme Systems Engineering	Ivan Lucic (Michael Harrison)	Systems Engineering Discipline	PAN	PMSE-E	CD	INS	0091	NR-IP-EN-2094	R Shannon	Competency Assessment and Authority to Work (AtW) in the Systems Engineering Discipline <i>Note 1: May 2019 - Validity extended to 31/05/2020.</i> <i>Note 2: The link within the Action Required - General section, Item 2 is incorrect (links to an empty document). PAN 0091 is currently being revised and is expected to be reissued shortly - should you require access to the SE Competent Assessors Register please access NR-IP-EN-2095 via the IP IMS Link column.</i>	1	22/06/2015 (original issue date 22/05/2013)	31/05/2020	Current	
								NR-IP-EN-2095		SE Competent Assessors Register					2
								NR-IP-EN-2096		Systems Engineering Competence Questionnaire					3
								NR-IP-EN-2097		How To Guide - Update Competence Profile for Employees					1
								NR-IP-EN-2098		Development Needs Analysis - Frequently Asked Questions					1
NR-IP-EN-2099	Personal Development Plan Template	1													
Signal Project Engineering	David Warwick	Signalling Project Engineering Discipline	PAN	E	SE	PRO	0092	NR-IP-EN(SI)-2100	R Shannon	Identification of Cross Boundary Signalling Interfaces <i>Note: Nov 2018 - Validity extended to 30/11/2019.</i>	1	22/06/2015 (original issue date 22/05/2013)	30/11/2019	Current	
Electrification & Plant	John Fry	Electrification Engineering & Signalling	PAN	E&P-E	EE	PRO	0100	NR-IP-EN(EP)-2102	Belinda Wilson	E&P Procedure to Support Compliance with 'TI 172 AC Electrified Lines Traction Bonding - Requirements for Signal Engineering involvement and Track Circuit Testing' <i>Note: July 2019 - Validity extended to 31/07/2020.</i>	1	17/03/2015	31/07/2020	Current	
Electrification & Plant	John Fry	Electrification & Plant, Signalling, Telecoms & Buildings & Civils Engineering	PAN	E&P-E	EE	ESD	0102	NR-IP-EN(EP)-2103	Belinda Wilson	Earthing and Bonding for AC Electrification Schemes applying Common Bonding <i>Note 1: June 2019 - Due to the ongoing delays in updating and publishing the E&P earthing and bonding standard (ELP/21085) PAN 0102 has been updated to issue 4 to align with and incorporate some recent requirements.</i>	4	27/06/2019	30/06/2020	Current	
Electrification & Plant	John Fry	Electrification & Plant Engineering	PAN	E&P-E	EE	PRO	0103	NR-IP-EN(EP)-2104	Belinda Wilson	OLE Construction Assurance <i>Note: April 2019 - PAN validity period extended to 30/11/2019.</i>	1	22/06/2015 (original issue date 04/04/2014)	30/11/2019	Current	
Telecom Project Engineering	Andy Letts	Telecoms, Power, Signalling, Building & Civils, Track & System Engineering Disciplines	PAN	E	ENG	PRO	0106		Andy Letts	Telecom Architecture Board		TBA	TBA	Pending	

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Electrification & Plant	John Fry	Electrification & Plant Engineering (SCADA)	PAN	E&PE-E	CD	CO	0107	NR-IP-EN(EP)-2105	Belinda Wilson	The use of SCADA to provide a 'secure' means of remote applications of earths <i>Note: July 20198 - Validity extended to 31/07/2020.</i>	1	14/03/2016	31/07/2020	Current

Note 1: Hyperlinks to individual PANs are linked to the IP IMS Link column.

Note 2: Hyperlinks contained within this form are only available internally to Network Rail staff only.

Note 3: Details of withdrawn PANs are listed on the "Withdrawn" tab within this spreadsheet.

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PAN REGISTER (WITHDRAWN PANS ONLY)														
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Issuing Discipline / Programme	PAN Owner	Applicability (Discipline Specific / Cross Discipline / Programme)	PAN REFERENCE NUMBER					IP IMS Link	Information Controller	Title	Latest Version	Date Issued	Expiry Date	Current Status
			PAN	Type	Function	Subject	Number							
Signalling & Telecoms Renewals Programme	Chris Binns	SPC Signal Renewal Projects	PAN	E	CD	SA	0001	IP 3201	<i>Note: PAN no longer available</i>	Changes To Permissible Line Speeds	1	01/02/2008	WITHDRAWN	WITHDRAWN
Signalling & Telecoms Renewals Programme	Jim Crawford	Signalling Power & Communications - Project Teams	PAN	P	PI	LOI	0002	IP 3202	<i>Note: Document no longer available</i>	Application of Axle Counters on Signalling Projects - PAN	2	10/06/2008	WITHDRAWN	WITHDRAWN w.e.f 19/04/2012
								IP 3203		Axle Counter Implementation Strategy - Spreadsheet				
Signalling & Telecoms Renewals Programme	Chris Binns	Signalling & Electrification - Project Teams	PAN	E	SE	LX	0003	IP 3204		Deflector Plates on Level Crossing Deck Units	1	01/02/2008	WITHDRAWN	WITHDRAWN w.e.f 14/02/2013
Signalling & Telecoms Renewals Programme	Chris Binns	Signalling & Electrification - Project Teams	PAN	E	TE	FT	0004	IP 3205		IVRS Training Material	1	08/02/2008	WITHDRAWN	WITHDRAWN w.e.f 14/02/2013
TBA	TBA	TBA	PAN	E	SE	ES	0005	IP 3206		Policy For Signalling Cets Over Telecoms Systems-Impact On TD Specifications	1	08/02/2008	WITHDRAWN	WITHDRAWN
Signalling & Telecoms Renewals Programme	Jim Crawford	Signalling & Electrification - Project Teams	PAN	P	PI	LOI	0006	IP 3207	<i>Note: Spreadsheet no longer available</i>	Future DNO Supply Requirements	2	14/08/2008	WITHDRAWN	WITHDRAWN w.e.f 19/04/12
										DNO Supply Requirements - Spreadsheet				
Signalling & Telecoms Renewals Programme	Chris Binns	Signalling & Electrification - Project Teams	PAN	E	SE	LX	0007	IP 3208		HMRI Guide To Level Crossing Order Submissions.	1	20/03/2008	WITHDRAWN (Information now covered by ORR guidance)	WITHDRAWN w.e.f 11/04/2013
Signalling Projects Engineering	Darren Nock	Signalling Discipline	PAN	E	CS	SI	0008	IP 3209	A Lawer	Production of Signaller Training Facilities	3	15/04/2013	WITHDRAWN (Discipline Review Group agreed to accept as best practice)	WITHDRAWN w.e.f 20/05/2014
Signalling & Telecoms Renewals Programme	Chris Binns	All S&T Renewal Projects	PAN	E	TE	SPT	0009	IP 3210		Voice Recorder Product Selection	1	20/03/2008	WITHDRAWN	WITHDRAWN w.e.f 14/02/2013
TBA	TBA	TBA	PAN	E	SE	INT	0010	IP 3211		Use of Westinghouse Reservecd P Series Relays	1	02/04/2008	WITHDRAWN	WITHDRAWN
Signalling Projects Engineering	David Warwick	Signalling Discipline	PAN	E	SE	INT	0011	NR-IP-EN(SI)-1989	R Shannon	Goods Inwards Checks of Signalling Records	4	08/10/2015	WITHDRAWN Superseded by NR/L2/SIG/11201/Mod A2-7, issue: 1	WITHDRAWN 23/07/2018
								NR-IP-EN(SI)-2053		Technical Review Checklist, Appendix A				
Signalling & Telecoms Renewals Programme	Chris Binns	Signalling Schemes	PAN	E	PW	SC	0012	IP 202	Darren Nock	Removal Of IBJs From S&C Following Axle Counter Commissioning	1	20/05/2014 (original issue date 02/04/2008)	WITHDRAWN (Reviewed by SPEDM/DRG. PAN no longer required - covered by NR/L2/SIG/3008, Issue 1	WITHDRAWN w.e.f. April 2015
								IP 2021		S&C Alteration Strategy Example				
Signalling & Telecoms Renewals Programme	Jim Crawford	Signalling & Electrification - Project Teams	PAN	P	PI	LOI	0013	IP 3212		Early Preparation Of Rail Integrity Management Plans	1	06/05/2008	WITHDRAWN (Author confirmed PAN no longer required)	WITHDRAWN w.e.f 11/04/2013
Signalling Project Engineering	David Warwick	Signalling Discipline	PAN	E	SE	PRO	0014	NR-IP-EN(SI)-1995	Darren Nock	Infrastructure Change following Correlation	4	28/02/2015	WITHDRAWN Superseded by NR/L2/SIG/11201/Mod A2-20	WITHDRAWN 23/07/2018
Signalling & Telecoms Renewals Programme	Alan Kitchen	Signalling Discipline	PAN	E	CE	PRO	0015	IP 3213		The Civil Engineering Standard Designs & Details	2	22/09/2008	WITHDRAWN	WITHDRAWN w.e.f 19/04/12
Signalling & Telecoms Renewals Programme	Mark James	Signalling Discipline	PAN	E	CD	PRO	0016	IP 3214		Alignment Of Track Form A and Signal Scheme Plan Approval	1	07/05/2008	WITHDRAWN (Superseded by more recent standards inc. NR/L2/SIG/30003 & NR/L2/SIG/30005)	WITHDRAWN w.e.f 11/04/2013
Signalling & Telecoms Renewals Programme	Darren Nock	Signalling Discipline	PAN	E	SE	EH	0018	IP 3215		Guidelines On Use Of Relocatable Equipment Buildings (REBs)	1	07/05/2008	WITHDRAWN (Information transferred into guidelines and placed in Signalling Best Practice Library)	WITHDRAWN w.e.f 11/04/2013
Signalling & Telecoms Renewals Programme	Jim Crawford	Signalling & Electrification - Project Teams	PAN	P	PI	LOI	0019	IP 3216		SSI Data Preparation	1	11/05/2008	WITHDRAWN	WITHDRAWN w.e.f 14/02/2013

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Signalling Projects Engineering	David Warwick	Signalling Discipline	PAN	E	SE	PRO	0020	NR-IP-EN(SI)-1997	R Shannon	Shunters Acceptance Controls <i>Note: Validity extended to 31/8/2018.</i>	1	21/08/2008	WITHDRAWN Superseded by NR/L2/SIG/30009/C320	WITHDRAWN w.e.f. 01/09/2018
Signalling & Telecoms Renewals Programme	Mark James	Signalling Discipline	PAN	E	CD	PA	0021	IP 3217		PADS: Access to Acceptance Certification	1	22/09/2008	WITHDRAWN	WITHDRAWN w.e.f 14/02/2013
Signalling & Telecoms Renewals Programme	Alex Buchinger	Electrification & Plant Discipline	PAN	E	EP	DNO	0022	IP 3218		New TN-C-S Connections: DNO Cubicle Touch Potential Mitigation	1	22/09/2008	WITHDRAWN	WITHDRAWN w.e.f 19/04/12
Signalling & Telecoms Renewals Programme	Richard Wales	Electrification & Plant Discipline	PAN	E	EP	DNO	0023	IP 3219	Belinda Wilson	TT Connections for Points Heating DNO Supplies: Projects 103458, BBG330 and BBD780	1	22/09/2008	PAN superseded - info relates to design phase & related projects now being implemented	WITHDRAWN w.e.f 02/07/14
Signalling & Telecoms Renewals Programme	Richard Wales	Electrification & Plant Discipline	PAN	E	EP	SH	0024	IP 3220	Belinda Wilson	Points Heating Trackside Connection Boxes: Pre-Cast Concrete Stools	1	22/09/2008	PAN superseded - concrete stools now included on standard design drawings	WITHDRAWN w.e.f 02/07/14
Signalling & Telecoms Renewals Programme	Alex Buchinger	Electrification & Plant Discipline	PAN	E	EP	DNO	0026	IP 3221		TN-C-S Connections in AC Electrified Areas - Compliance with G12/3	1	03/02/2009	WITHDRAWN	WITHDRAWN w.e.f 19/04/12
Signalling Projects Engineering	Mark James	Signalling Discipline	PAN	E	SE	PRO	0027	IP 3222		Disposition of Duties following Network Rail Organisational Restructuring 2009	3	20/01/2010	WITHDRAWN	WITHDRAWN w.e.f 19/04/12
Signal Project Engineering	Darren Nock	Signalling Discipline Programme Management Discipline	PAN	E	SE	SI	0029	IP 208	Alan Lawer	Mesh Size of Protective Screens for Signals on Overhead Electrified Lines	2	22/06/2015 (original issue date 15/04/2013)	Information / guidance on the mesh size of protective screens is covered by other standards / publications	WITHDRAWN w.e.f 16/02/16
Signalling & Telecoms Renewals Programme	Mark James	Signalling Discipline	PAN	E	CD	SA	0030	IP 3223		Cost Benefit Analysis of SPAD Mitigation Measures	1	24/03/2009	WITHDRAWN	WITHDRAWN w.e.f 14/02/2013
Signalling & Telecoms Renewals Programme	Alan Kitchen	Signalling Discipline	PAN	E	TE	OC	0031	IP 3224		Further Guidance on NR/L2/TEL/31111 Design & Installation Requirements for Driver Only Operation (Passenger) Systems - Issue 1	1	19/03/2009	WITHDRAWN	WITHDRAWN w.e.f 19/04/12
Signalling & Telecoms Renewals Programme	Alan Kitchen	Signalling Discipline	PAN	E	CE	EA	0032	IP 3225		Foundation Design for Equipment Support Structures	1	19/03/2009	WITHDRAWN	WITHDRAWN w.e.f 19/04/12
Signalling & Telecoms Renewals Programme	Mark James	Signalling Discipline Electrification & Plant Discipline Telecoms Discipline & S&E Programme	PAN	E	CD	PRO	0034	IP 3226		Guidance on Design Risk Assessments and CDM 2007	1	22/04/2009	WITHDRAWN (Information superseded by issue of PAN/PMSE-P/CD/ADV/0082)	WITHDRAWN w.e.f 11/04/2013
Signalling / Electrification & Plant	Neil Barnatt	All Electrical Disciplines	PAN	E	EP	PRO	0035	IP 210	Belinda Wilson	BS7671 17th Edition Compliance <i>Note: PAN validity review undertaken - no changes identified. PAN validity extended.</i>	4	01/03/2012 (reviewed Dec 2015)	WITHDRAWN as requirements within the PAN are firmly embedded with the normal standards framework	WITHDRAWN w.e.f. 26/07/17
Signal Project Engineering	Mark James	Signalling Discipline	PAN	E	SE	INT	0036	IP 3227	Alan Lawer	Data Principles Testing Completion and Deferred Items	1	24/04/2013 (original issue date 01/06/2009)	WITHDRAWN	WITHDRAWN w.e.f 24/02/2014
Signal Project Engineering	Neil Barnatt	Signalling Discipline	PAN	E	SE	PRO	0037	IP 211	Alan Lawer	Scheme Plan Statutory Approval Process <i>Note: Review undertaken by Discipline Review Group. No changes required - PAN validity period extended for 12 months.</i>	1	22/06/2015 (original issue date 29/06/2009)	WITHDRAWN	WITHDRAWN w.e.f 14/07/2016
Signal Project Engineering	Darren Nock	Signalling Discipline Programme Management	PAN	E	SE	SI	0039	IP 213	Alan Lawer	Signal Structure Design Provision for Future Electrification	2	15/04/2013	PAN no longer required	WITHDRAWN w.e.f 01/15/15
Signalling Projects Engineering	Neil Barnatt	Signalling Discipline	PAN	E	SE	PRO	0041	IP 215	Alan Lawer	Layout Risk & Interlocking Complexity Profiles: Taking the 'Reasonable Opportunity' <i>Note: Validity review date extended (June 2016) to 31/10/2016 - linked to review of Signalling Design Handbook.</i>	5	10/02/2015 (previous re-issue date 28/08/2013)	31/10/2016	WITHDRAWN w.e.f 13/09/2016
Signalling Projects Engineering	Mark James	Signalling Discipline	PAN	E	SE	SI	0042	IP 3228		Depiction of Signal Head Configuration on Signalling Scheme Plans	1	05/03/2010	WITHDRAWN	WITHDRAWN w.e.f 14/02/2013
Signalling Projects Engineering	Alan Kitchen	Signalling Discipline	PAN	E	SE	TD	0043	IP 3229		EBI Track 200 Audio Frequency Track Circuit Style TI21 Documentation	2	07/06/2010	Withdrawn following release of RT/E/PS/11761, Issue 2	WITHDRAWN 14/01/2011

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			PAN	Type	Function	Subject	Number							
Programme Systems Engineering (transferred to H James w.e.f. April 2014)	Huw James	Cross Discipline	PAN	E	CD	PRO	0044	IP 3230		Certificates of Compliance	1	22/07/2010	Superseded by issue of PAN/PMSE-E/CD/ADV/0094	WITHDRAWN 03/06/2014
TBA	TBA	TBA	PAN	TBA	TBA	TBA	0045	N/A		PAN withdrawn during production stage			Not Applicable	
Signalling Projects Engineering	Tony Wilcock	Signalling Discipline	PAN	E	SE	PRO	0046	IP 216	R Shannon	Guidance to Project Teams on Charge Out Costs for Major Scheme Review Panel <i>Note: PAN validity period extended to 31/03/2018 at BAWG on 15/08/2017.</i>	1	22/06/2015 (original issue date 05/03/2010)	WITHDRAWN JANUARY 2018	WITHDRAWN 30/01/2018
Signalling Projects Engineering	Alan Kitchen	Signalling Discipline	PAN	E	SE	PRO	0047	IP 3231		Guidance on Signalling Project Engineering Design Acceptance Reviews	1	05/03/2010	Superseded by PAN/E/SE/PRO/0079	WITHDRAWN 03/05/2012
Signalling Projects Engineering	David Warwick	Signalling Discipline	PAN	E	SE	PRO	0048	NR-IP-EN(SI)-2013		CAD Resource Distribution <i>Note: Aug 2018 - Validity extended to 31/10/2018.</i>	1	16/03/2010	WITHDRAWN	WITHDRAWN 09/11/2018 Superseded by the Signalling Tools Collaboration (SIG) web site which includes links for distribution of CAD resources.
										Link to Signalling and Electrification Collaboration Site				
Signalling Projects Engineering	David Warwick (Steve Williams)	Signalling Discipline	PAN	E	SE	SI	0049	IP 218		Intermediate Landings on Signal Access Ladders <i>Note: PAN validity period extended to 31/05/2018 at BAWG on 15/08/2017.</i>	1	22/06/2015 (original issue date 07/06/2010)	WITHDRAWN	WITHDRAWN 11/05/2018
Signalling Projects Engineering	David Warwick	Signalling Discipline	PAN	E	SE	ES	0050	NR-IP-EN(SI)-2015		TDM Transmission over Open Networks <i>Note: Aug 2018 - Validity extended to 31/01/2018.</i>	1	22/06/2015 (original issue date 02/08/2010)	WITHDRAWN	WITHDRAWN 09/11/2018
Telecoms Engineering	Andy Letts	Signalling / Telecoms Discipline	PAN	E	TEL	FT	0051	IP 220 / NR-IP-EN(TE)-2016	Andy Letts	Provision of Path Trace Identifiers for Safety related Signalling and Electrification Circuits over Open Networks <i>Note: PAN validity period extended to 31/8/2018. Users to note this PAN is presently suspended from use. Refer to A Letts for details.</i>	3	03/12/2014	WITHDRAWN	WITHDRAWN 16/05/2018
Track Engineering	Pablo Forteza	Track	PAN	IP(T)	TBI&S	ADV	0053	IP 222	Mark Downes	Sand Blanket Replacement Geocomposites (SBRG) - Specification and Installation	3	26/11/2014	25/11/2015	WITHDRAWN DECEMBER 2015 Refer to Trackbed Design Procedure (IMS ref IP 116) for direction / guidance
Electrification & Plant	Alex Buchinger	E&P Project Engineering	PAN	E&P-E	EE	PRO	0054	IP 3232	Tahir Ayub	Electrical Power Engineering Deliverables and Document Review Notice	1	13/03/2011	Superseded by PAN/E&P-E/EE/PRO/0069	WITHDRAWN 07/03/2012
Thameslink	Graham Deegan	Thameslink Programme	PAN	TLP-E	PW	INS	0055	NR-IP-EN-2057	Bruce Sherring Lucas / G Buck	Level Crossing and Road Rail Access Points (RRAP) Surface Systems	3	27/07/2015	WITHDRAWN No longer required for TLP - all construction phases completed.	WITHDRAWN 06/09/2018
										Engineering Assurance Arrangements for Track Engineering Projects (NR/L2/TRK/2500)				
										On/Off Cross Tracking of On Track Plant (NR/L2/RMVP/0200)				
										Product Introduction and Change (NR/L2/RSE/100/05)				
										Link to www.padsnet.co.uk				
										On Track Plant (NR/L2/RMVP/0200/module P507)				
	Road Rail Access Points (NR/L2/RMVP/0200/module P301)													
Maintenance	Neil Johnson	Maintenance - Programme	PAN	MTC-P	CM	ADV	0056	IP 3233	Peter Halliwell	Application of the Work Package Planning Process in Infrastructure Maintenance	1	05/08/2011	Replaced with guidance in support of NR/L2/OHS/0047, Issue 5	WITHDRAWN 02/07/2014
Asset Management, Track	Joan Heery	Asset Management (Track) & Enhancements (TBC)	PAN	AM(T)	G	PLD	0057	N/A	Scott Smith	Track Design Principles	1	PAN WITHDRAWN PRIOR TO ISSUE		

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Buildings & Civils	Paul Clark	Building & Civils Project Engineering	PAN	B&C-E	GEN	INS	0059	IP 3234	Brian Robertson / Jason Johnston	Structural Eurocodes - Network Rail Technical Requirements	1	26/03/2011	Superseded by production of standard forms NR/L2/INI/003/F1990 - 1994, & 1997	WITHDRAWN 02/05/2014
Signalling & Electrification (Telecoms)	Andy Letts	Signalling Discipline Electrification & Plant Discipline Telecoms Discipline &	PAN	E	TE	FT	0060	IP 225	Paul Farmer	Guidance on Provision of Low Speed Digital Circuits using the Fixed <i>Note: Review undertaken by A Letts @ 14/03/13 - confirmed PAN remains current. Validity period extended for 12 months</i>	1	14/03/2013 (original issue date 08/08/2011)	Outdated Technology / Information available within other documents	WITHDRAWN 30/10/2014
Enhancements Engineering	Richard Wales	Enhancement Programme	PAN	ENH-P	CF	INS	0063	IP 3235	Muhammad Mughal	ROGS Submission Process	2	30/08/2011	Replaced by Business as Usual process	WITHDRAWN 22/01/2013
Buildings & Civils	Jason Johnston	Building & Civils Project Engineering	PAN	B&C-E	GEN	ADV	0065	IP 3236	Brian Robertson	PAN-B&C-E-GEN-INS-0065-Project Engineer Review, Issue 1	1	02/09/2011	WITHDRAWN 03/09/2014 Replaced by discipline specific guidance aligned to PAN 0064.	
										PAN-B&C-E-GEN-INS-0065-Appendix1, Project Categorisation Tool,	1			
										PAN-B&C-E-GEN-INS-0065 - Appendix 2, Default Review Levels, Issue	1			
										PAN-B&C-E-GEN-INS-0065 - Appendix 3, Key Features Review Guidance, Issue 1	1			
Programme Systems Engineering (transferred to H James w.e.f. April 2014)	Huw James	Asset Management (Track), Investment Projects Building & Civils (Discipline) & Programme Systems Engineering	PAN	PMSE-E	CD	ADV	0067	IP 230	Elaine Mortiboy Clarke	Computer Modelling of Loads over Proposed Gradients with Curves	1	14/12/2011	WITHDRAWN (PAN Owner confirmed PAN no longer required)	WITHDRAWN w.e.f 16/03/2015
Electrification & Plant	Neil Barnatt	Electrification & Plant Discipline (Electrification & Plant Design Group)	PAN	E&P-E	CD	PRO	0068	IP 231	Belinda Wilson	Direction in the Application of NR/L2/INI/EDT/CP0091 L2 CAD Standard v- NR/SP/ELP/27300 Issue E1, EPDG CAD Standard <i>Note: Review underway to determine possible withdrawal.</i>	1	11/07/2014 (original issue date 14/10/2011)	PAN issued against Issue 1 of NR/L2/INI/EDT/CP0091. CP0091, Issue 2 published June 16 - PAN no longer valid.	WITHDRAWN w.e.f 16/11/2016
Electrification & Plant	Andy Wilson	Electrification & Plant Discipline	PAN	E&P-E	CD	PRO	0072	N/A	Belinda Wilson	LV Traction Earthing and Bonding (PAN not yet issued)	1	PAN WITHDRAWN PRIOR TO ISSUE		
Buildings & Civils	Paul Clark	Building & Civils Project Engineering	PAN	B&C-E	GEN	ADV	0073	IP 3238	Jason Johnston	Guidance on Design Risk Assessments and CDM 2007	1	31/01/2012	Superseded by PAN/PMSE-P/CD/ADV/0082	WITHDRAWN 02/05/2014
Telecoms	Andy Letts	Telecoms Project Engineering	PAN	E	TE	PRO	0074	IP 234	Geoff Hooper	Acceptance Reviews of Engineering Deliverables by the Project Engineer Project Engineering <i>Note: Review undertaken by A Letts @ 14/03/13 - confirmed PAN remains current. Validity period extended for 12 months</i>	1	14/03/2013	Superseded by Telecoms Discipline Information (IP 2286) aligned to PAN 0064	WITHDRAWN 08/03/2016
								IP2341		User Guide				
Electrification & Plant	Andy Wilson	E&P (OLE contact systems) & Signalling	PAN	E&P-E	CD	CS	0075	N/A	Belinda Wilson	E&P & Signalling - Bonding (copy awaited)	PAN WITHDRAWN PRIOR TO ISSUE			
Asset Management (Track)	Joan Heery	Track Project Engineering Discipline	PAN	AM(T)	CD	INS	0077	IP 3239	Jayne Dickens	Acceptance Review of Engineering Deliverables by Project Engineer - Track	1	27/02/2012	WITHDRAWN 02/04/2014 Refer to PAN 0064 for Discipline Specific Guidance	
Signal Project Engineering	Mark James	Signalling Project Engineering	PAN	E	SE	PRO	0079	IP 3240	Mick Turner	Acceptance Reviews of Engineering Deliverables by the Regional Project Engineer	1	03/05/2012	WITHDRAWN 20/03/2014 Refer to PAN 0064 for Discipline Specific Guidance	
Signal Project Engineering	Mark James	Signalling Project Engineering	PAN	S	SE	INT	0080	N/A	Mick Turner	GRIP 5 and 'As Built' Signalling Records - Signalling Interlocking Boundary Data and Level Crossings - (awaiting signed version)	1	PAN WITHDRAWN PRIOR TO ISSUE		
								IP 237		Guidance to projects on compliance with the Common Safety Method on Risk Evaluation and Assessment (CSM REA) <i>Note: Validity review undertaken - validity extended to end December 2015 pending publication of NR/L2/RSE/100/02 following which further review to take place.</i>	3	01/08/2014 (Last review 10/08/15)		
								IP 2371		System Definition				

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			PAN	Type	Function	Subject	Number							
Safety & Sustainable Development	Ian Bradler (transferred to B Shirley STE)	Infrastructure Projects - All engineering Disciplines & Programme Management	PAN	PMSE-P	CD	ADV	0081	IP 2372	Elaine Mortiboy Clarke	Hazard Record			WITHDRAWN 18/01/2016	
								IP 2373		System Safety Plan				
								IP 2374		Independent Assessment Body Remit				
								IP 2375		Safety Justification Report				
								IP 2376		Industry Guidance				
								IP 2377		Link to S&SD Documents				
								IP 2378		Briefing for Engineers				
IP 2379	Briefing for Sponsors and IP Project Managers													
Programme Systems Engineering (transferred to H James w.e.f. April 2014)	Huw James	All Disciplines	PAN	PMSE-P	CD	ADV	0082	IP 3241	Elaine Mortiboy Clarke	Design Risk Assessment and the Management of Health & Safety Risk associated with Design	1	09/10/2012	Superseded by NR/L2/OHS/0047, Issue 5	WITHDRAWN 07/06/2014
Electrification & Plant	John Fry	Electrification Engineering	PAN	E&P-E	EE	PRO	0083	IP 238	Belinda Wilson	Design Guidance for New Electrification Systems - 25kV ac 50Hz <i>Note: Feb 2018 - Validity extended to 31/07/2018.</i>	2	17/03/2015	Superseded by NR/L2/ELP/27715 Issue 2, modules 1 to 5	WITHDRAWN 29/03/2018
Telecoms Engineering	Andy Letts	Signalling Project Engineering / Telecoms Project Engineering & Power Engineering Disciplines	PAN	E	TE	PRO	0085	IP 240	Andy Letts	Guidance for Requesting Fibres and Allocation on NRT Cables <i>Note: PAN validity period extended to 31/05/2018 at BAWG on 15/08/2017.</i>	2	15/06/2015 (formal issue date)	Superseded by NR/L2/TEL/30160, Issue 2	WITHDRAWN 18/01/2018
								IP 2401		PAN/E/TE/PRO/0085, Issue 2: Briefing Material				
Telecoms Engineering	Andy Letts	Telecoms, Power, Signalling, Building & Civils, Track & System Engineering Disciplines	PAN	E	TE	PRO	0087	IP 242	Andy Letts	Requirements for Projects Proposing Changes to Telecommunications or Data Communications Infrastructure	2	19/12/2014	Withdrawn due to significant internal change in approach to validation of telecoms projects	WITHDRAWN 08/03/2016
								IP 2421		PAN-E-TE-PRO-0087, Issue 1.1: Briefing Material				
Electrification & Plant	Neil Barnatt	Electrification Engineering & Programme Management	PAN	E&P-E	EE	PRO	0088	IP 243	Belinda Wilson	Safety Justification Strategy for Electrification Projects <i>Note: March 2017 - PAN review date extended to 31/06/17 to enable IP Engineering Assurance Director to undertake review of content.</i>	2	01/12/2014	Withdrawn as PAN contains out of date information and refers to legislation that is no longer on the statute book	WITHDRAWN 26/07/17
Signal Project Engineering	Neil Barnatt	Signalling Project Engineering / Project Management Discipline	PAN	E	SE	PRO	0089	IP 244	D Nock / M Turner	SSI or SSI Based Systems Data Assurance <i>Note: Note: Review underway (linked to review of PAN 0040) - validity review date extended to 30/09/2016.</i>	1	22/06/2015 (original issue date 04/02/2013)	Withdrawn as details incorporated into PAN/E/SE/ES/0040, Issue 3	WITHDRAWN 09/00/20162016
								IP 2441		Interlocking Data Development Plan <i>Note: Review underway (linked to review of PAN 0040) - validity review date extended to 30/09/2016.</i>				
								IP 2442		SSI or SSI Based Technical Stage Gate Review Checklist <i>Note: Review underway (linked to review of PAN 0040) - validity review date extended to 30/09/2016.</i>				
								IP 2443		PAN/E/SE/PRO/0089, Issue 1 - PAN Briefing Presentation				
Programme Systems Engineering	Huw James	All Disciplines	PAN	PMSE-E	CD	ADV	0093	N/A	Elaine Mortiboy-Clarke	Entry into Service (EIS)	PAN WITHDRAWN PRIOR TO ISSUE			
Programme Systems Engineering (transferred to H James w.e.f. April 2014)	Huw James	All Engineering Disciplines (Civils, Construction, Electrification & Plant, Signalling, Systems, Telecoms and Track) & Programme Management	PAN	PMSE-E	CD	ADV	0094	IP 248	Elaine Mortiboy-Clarke	Guidance on the Engineering Compliance Certificate (ECC) <i>Note: PAN linked to revision of NR/L2/INI/2009, Issue 6. PAN to be withdrawn following publication of 02009, Issue 6 due September 2015. PAN validity review date reset for 3 months.</i>	1	22/06/2015 (original issue date 14/01/2014)	WITHDRAWN DECEMBER 2015 NR/L2/INI/02009, ISSUE 6 mandates use of the ECC	
Electrification & Plant	Neil Barnatt	Electrification Engineering	PAN	E&P-E	EE	CS	0095	IP 249	Belinda Wilson	OLE Basic Design Drawing Management <i>Note: PAN review date extended to 31/12/16 to enable IP Engineering Assurance Director to undertake review. Version 1 remains current.</i>	1	02/07/2014 (original issue date 29/05/2013)	Withdrawn as requirements incorporated into NR/L2/INI/EDT/CP0091	WITHDRAWN 14/03/2017
Programme Management	Huw James	Programme Management Discipline & Finance & Commercial Discipline	PAN	PM	GRIP	INS	0096	IP 3242	Toby Robbins	Application of GRIP to Network Rail Alliances and Joint Ventures	1	03/07/2013	Superseded by NR/L1/INI/PM/GRIP/100, Issue 3	WITHDRAWN 07/06/2014
Electrification & Plant	Neil Barnatt	Electrification Engineering	PAN	E&P-E	CD	PRO	0097	IP 250	Belinda Wilson	Wind Loading for OLE Structures Note: PAN review date extended to 31/0	1	17/03/2015	Withdrawn as requirements incorporated into NR/L2/CIV/072	WITHDRAWN 15/03/2017

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Crossrail Programme	N/A	Crossrail Programme only - Programme Management	PAN	C&RP	ID	INS	0098	N/A	Martin Fargher	PAN withdrawn during production stage Guidance on application of the NR/L3/MTC/089 AMP process for project work in areas where the infrastructure is fitted with GW-ATP				Not Applicable
Electrification & Plant	John Fry	Electrification Engineering	PAN	E&P-E	EE	CS	0099	NR-IP-EN(EP)-2101	Belinda Wilson	Guidance for the Introduction of an Autotransformer (AT) System on Network Rail Infrastructure <i>Note: March 2018 - PAN review date extended to 31/03/2019, content remains current.</i>	1	17/03/2015	Withdrawn superseded by NR/L2/ELP/27715/03, issue 1 and NR/L2/ELP/25001, issue 1	WITHDRAWN 23/07/2019
Electrification & Plant	John Fry	Electrification Engineering & Civil Engineering	PAN	E&P-E	EE	CS	0101	IP 253	Belinda Wilson	Guidance regarding Design of Foundations for Overhead Line Structures	3	27/02/2017	Superseded by NR/L2/CIV/074	WITHDRAWN 20/02/2018
Programme & Project Development	Matthew Tattersall	Civil Engineering, Electrification, Signalling, Systems Engineering, Telecommunications	PAN	P&PD	CD	ADV	0104	IP 256 IP 2561	Matthew Tattersall	Whole Life Costing Manual <i>Note: February 2017 - PAN validity extended to end May 2017.</i> Whole Life Costing Briefing Presentation (Supports PAN 0104, Issue 1)	1	17/03/2015	WITHDRAWN DECEMBER 2017	WITHDRAWN 07/12/2017
Signal Project Engineering	Darren Nock	TBA	PAN	E	SE	PRO	0105	TBA	Alan Lawer	Cabling: Route Construction				PAN WITHDRAWN PRIOR TO ISSUE - INFORMATION TO BE ISSUED AS A BEST PRACTICE GUIDE ON SIGNALLING SHARE POINT SITE