



Single Approach to Isolations (SAI)

NR/L3/ELP/SAI25 Working on or near Overhead Line Equipment





Agenda

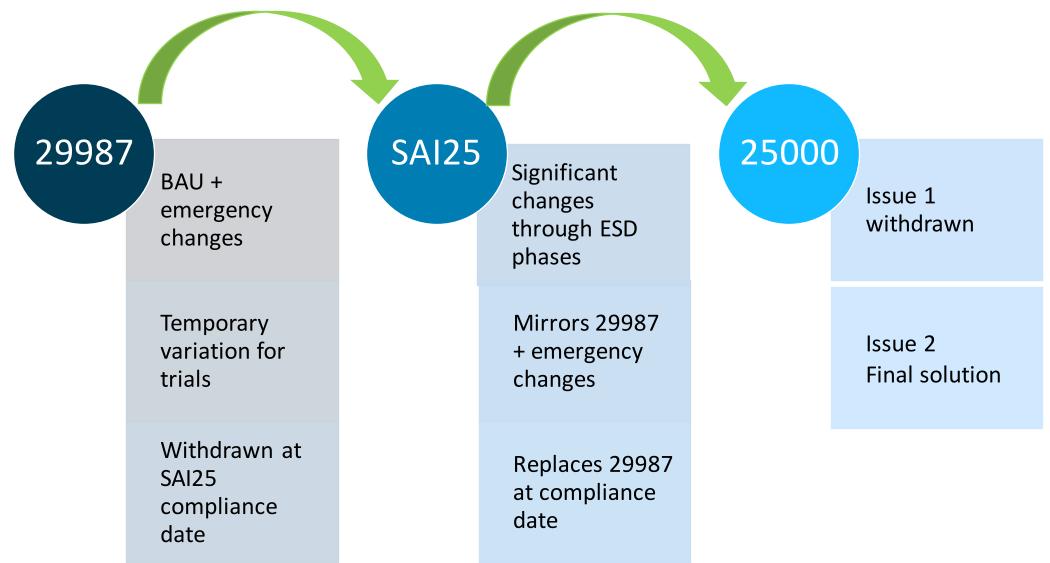


- ✓ Standards 29987, SAI25 and 25000 what does this mean?
- ✓ NR/L3/ELP/SAI25 Issue 1 and 2 in more detail*
- ✓ NR/L3/ELP/SAI25 incorporating:
 - ✓ New Electrical Safe System of Work (ESSoW) hierarchy with explanation of categories
 - ✓ Standardised Electrical Risk Assessment Form (ERAF)
- ✓ Round up and what's next...

* SAI25 is part of the phased implementation to SAI OLE. Please see appendix for details of all phases

NR/L3/ELP/SAI25 Working on or near overhead line equipment





Progression to SAI25 will be via a variation approved by Network Technical Head

NR/L3/ELP/SAI25 Issue 1 – what does it mean for the industry?



Issue 1 included the following changes;

- Expanded requirements and guidance related to electrical risk assessment
 Introduction of an electrical safe system of work hierarchy (ESSoW)
 Introduces new forms electrical risk assessment form (ERAF), outage request form (ORF), site visit form (SVF)
 Introduces two new competencies around the risk assessment process
 Increased suite of electrical risk control measures, (additional to RoLE)
 Requirement for all COSS (OLP)s, in receipt of an OLP, to be briefed by the nominated person
- A compliance date of September 2025 applies



The ESSoW hierarchy is covered in more detail later in this session.

NR/L3/ELP/SAI25 Issue 2 – what does it mean for the industry?



Issue 2 includes the following changes;

- ☐ Inclusion of Module D 'Distribution System Interfaces' requirements
- ☐ Referencing the High Voltage Isolation and Earthing Certificate (HVIEC input to NR/L3/ELP/21067 only)
- ☐ Introduction of the Live Working Form (LWF)
- ☐ Introduction of Lost Form B process/uncontactable Nominated Person process



Publication Dec 2023

This succeeds Issue 1. Issue 2 is deployed after publication date (Dec 2023)

The compliance date is unchanged - September 2025

Deployment will be co-ordinated at a local level

There are currently 2 early adopters that have received initial funding to start deployment

They are NW&C (North West Route) - DU tbc and Eastern (Anglia Route) - Ipswich Delivery Unit

Supply chain resources will be trained with local Network Rail colleagues

New! Electrical Safe System of Work (ESSoW) hierarchy



The electrical risk assessment principles are based on a structured hierarchy of Electrical Safe Systems of Work.

The defined Electrical Safe System of Work categories present differing levels of electrical risk.

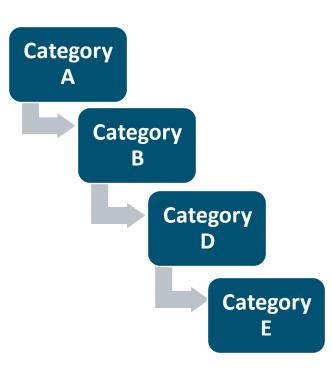
The hierarchy is designed to prioritise implementing the electrical safe systems of work that present the least electrical risk.

Electrical Safe Systems of Work

• Category L - Low electrical risk

Category L

- Category A Working with an earthed isolation in place on all OLE
- Category B Working with an earthed isolation in place on some OLE
- Category RC Authority Working on the return conductor only
- Category D Working with the OLE live
- Category E Live working on the OLE





ESSoW Category A – Working with an earthed isolation in place for all OLE

What is Category A?

- Category A is the gold standard and should be selected where practical when an earthed isolation is required (not category L).
- Work shall only be categorised as ESSoW Category A where;
 - All parts of the OLE between the OLP along-track limits and across all tracks are under an earthed isolation;
 and
 - There are no residual electrical hazards, apart from Transmission Network Operator (TNO) or Distribution Network Operator (DNO) crossings, within the OLP along-track limits when visualised across all tracks.
- If it is not possible to isolate and earth all OLE under Category A, then justification must be provided.



ESSoW Category B – Working with an earthed isolation in place on some OLE



What is Category B?

- Work shall only be categorised as ESSoW Category B where;
 - Some of the OLE between the OLP along-track limits, across all tracks are under an earthed isolation; or
 - There are residual electrical hazards, within the OLP along-track limits when visualised across all tracks.
- An example of a Category B earthed isolation is a four-track railway with only two tracks isolated and earthed therefore, across all tracks there is live OLE.
- Category B can be selected in the electrical risk assessment where it is not practicable to select Category A. However, a justification must be provided why all OLE cannot be isolated and earthed within the along-track limits.



ESSoW Category RC Authority



What is an RC Authority?

- Work shall only be categorised as ESSOW RC Authority where:
 - The associated overhead contact system remains live; and
 - An authority has been provided by the Electrical Control to apply portable earths and electrical risk control measures to the return conductor only.
- The terminology of 'RC isolation', has changed.
- There is no way of 'isolating' the return conductor, therefore only an authority can be issued to work with it earthed
- Circuit Main Earths (CMEs) cannot be applied to the return conductor because there is no opportunity for inadvertently reenergising it
- Duplicate additional earths and a single long blue earth are placed at each end of the authority limits
- The authority is still completed via an EIDF and Form B and planned as today.

ESSoW Category D – Working with the OLE live



What is Category D?

- ESSOW Category D shall apply where:
 - Exposed live parts of the OLE are present; and
 - No earthed isolation is in place; and
 - The task is not on the list of approved Category L Low electrical risk working tasks; and
 - The task is not on the list of approved live working tasks.
- Entry into the live zone shall be prevented.

What is Category D used for?

- Examples of Category D works include but are not limited to:
 - On/off/cross tracking on-track plant (OTP) under live
 - Delivering materials near live OLE





ESSoW Category E - Working on live OLE (0.6m zone)

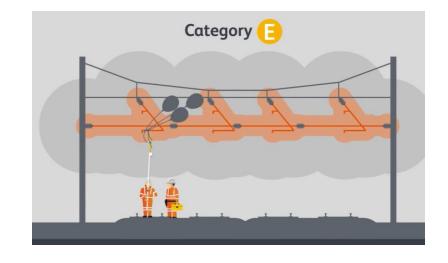


What is Category E?

- Category E is working with the OLE live, using approved live line tools that enter the live (0.6 m) zone.
- The tasks that can be completed without an **independent electrical risk assessment** are:
 - Live line dropper removal;
 - Inspection tools;
 - Object/vegetation removal;
 - Testing (section proving).

Note: The above tasks have been generically risk assessed and therefore can be completed without an electrical risk assessor completing an electrical risk assessment form (ERAF).

If the task is not on the approved list, then an ERAF must be completed.



• To complete any of the live working tasks (Category E) the approved live working task list must be consulted for requirements along with any control measures in the relevant Task Risk Control Sheets (TRCSs).





Electrical risk assessment principles – Electrical Safe System of Work hierarchy and categorisation

The ESSoW categorisation for the planned work activity and associated access arrangements including the on / off, cross tracking and travelling of on-track plant (OTP) may differ.

Where OTP is used, different ESSoW categories may be used for:

- Road Rail Access Point (RRAP);
- Travelling and;
- Location of work.



Round up



- These sessions are every 6 weeks between now and the end of the control period each session will be focused on the latest updates and/or 'hot topics'
 - 26 October Process flow for complex jobs
 - 7 December TBC
 - 18 January TBC
 - 29 February TBC
- Are there any hot topics you would like to share? Email ESDSAlsupport@networkrail.co.uk

Reminders - changes to how you access Network Rail standards and Electrical Safety Step Up... final call

- The IHS website closed on 31 August
- To register to continue to access standards, click on the following link <u>Network Rail (ihs.com)</u> and follow the instructions
- If you haven't attended an electrical safety step up, this is your last chance before the campaign closes on 30 September
 - Email ElectricalCulture@networkrail.co.uk
 - Materials will remain available on Safety Central

Questions?

• If you have any questions regarding SAI, email ESDSAIsupport@networkrail.co.uk

We look forward to seeing you on 26 October!







SAI25/ERAF	
Issue 01	

Possession ref:	Outage Request Form ref:	Work site ref:	Electrical Risk Assessment Form ref:
POSS/EXAMPLE/01	ORF/EXAMPLE/01	SITE/EXAMPLE/01	ERAF/EXAMPLE/01

Work Requestor name: Alex Rov	vley - Jack Partridge	Work Requestor contact number: 0798654:					236 - 0751	5210981	
Details of Planned Work									
Work start date and time: 06/11/2023 -	date and time:	ate and time: 06/11/2023 - 0500					40		
Nature of planned task(s), task delivery method(s) and	d access requirements	(Note: Add refere	ences of relevant	SSoW and other	documents detailing	the work to be	carried out)		
OLE Maintenance works including New listed below Drainage works Access and egress arrangements	tral Section mainter	nance, veget	tation rem	oval and (OLE general 1	maintena	ance. SRS d	access	
On-tracking point(s)				Of	f-tracking point(s	(3			
G145/31 Whitmore MPA	TS RRAP		G14		hitmore P.S.	,			
				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Electrical sections, lines affected and associated I	imits	•							
			Electrical s	ection limits	(OLP Along-trac	g-track limits required		
Electrical section(s) required to implement the isolation(s)	Line(s) affected	t	Limit str	uctures:	From	1	Т	0	
			From	То	(Line, Structure	e Number)	(Line, Struct	ure Number)	
	Up Slow		G139/05	G150/11	Up+Down Fast	G144/14	Up+Down Fa	st G147/5	
BW - 13A, 14A, 15A, 16A COMPLETE					Lin Davin Clau	. (111/11	Up+Down Slo	w G147/5	
BW - 13A, 14A, 15A, 16A COMPLETE BW-AF 7A, 8A COMPLETE	Down Slow	N	G139/05	G150/11	Op+Down Slow	V 4144/14			
	Down Slov Up Fast	W	G139/05 G139/05	G150/11 G150/11	Up+Down ATF		Up+Down Slo	w G145/3	
BW-AF 7A, 8A COMPLETE					 '		Up+Down Slo	ow G145/3	
BW-AF 7A, 8A COMPLETE CW - 17A, 20A COMPLETE	Up Fast		G139/05	G150/11	 '		Up+Down Slo	ow G145/3	
BW-AF 7A, 8A COMPLETE CW - 17A, 20A COMPLETE	Up Fast Down Fast	t	G139/05 G139/05	G150/11 G149/16	 '		Up+Down Slo	ow G145/3	
CW - 17A, 20A COMPLETE CW - 18A, 19B	Up Fast Down Fast Up ATF	t	G139/05 G139/05 G139/05	G150/11 G149/16 G145/31	 '		Up+Down Slo	ow G145/3	



Electrical Safe System of Work (ESSoW) Category and OTP traveling under Live								
	RRAP (Y/N or N/A)	Travelling (Y/N or N/A)	Site of V (Y/N or					
Can the task be reasonably completed using Category A?	Y	Y						
2. If the answer to Question 1 is 'No', can the task be reasonably completed using category B?	N/A							
3. If the answer to Question 2 is 'No', can the task be reasonably completed using category D?	N/A	N/A						
4. If the answer to Question 2 is 'No', can the task be reasonably completed using category E?			N/A					
5. Will an OLP be issued to enable work on a return conductor with the corresponding OLE remaining Live in accordance with the requirements of NR/L3/ELP/29987 Module 7?			N/A					
If the answer to Question 4 or Question 5 is 'N	lo', the task shall be re-p	lanned.	_					
If the selected ESSoW category of work is B, D or E* for the 'RRAP', 'Travelling' and/or (* Only complete Part 1(b) if the task is not on the ap			supporting justif	ication				
Is an Earthed Isolation required?			(Y/N)	Y				
Site visit and electrical risk assessment								
Are any of the electrical sections subject to reduced wire height restrictions?			(Y/N)	N				
Is a visit to site required to confirm any details of Part 1 of the Electrical Risk Assessment Form of Appendix A?	or to complete the electrica	ll risk assessment in	(Y/N)	N				
Will a person with a detailed understanding of the work to be carried out accompany the ERAs o	n the walkout?		(Y/N) or N/A	Y				
(If No, provide confirmation below as to how the Electrical Risk Assessor will be able to appropriately consider the work of	content as part of the electrical ris	k assessment)						
N/A								
Complete the appended electrical risk assessment in draft in Appendix A, identifying the relevant residual electric	cal hazards and proposed Elect	rical Risk Control Measures						
With the information available at this stage, can the work be completed safely with the selected E Measures?	With the information available at this stage, can the work be completed safely with the selected ESSoW and proposed Electrical Risk Control							
(If No, the work will need to be re-planned and a different ESSoW shall be selected)								



						, Part 1(b) shall be complete any ESSOW other than Cate		d the justifi	cation for the	
Just	tification Elements	RRAP (Y / N / N/A)	Travelling (Y / N / N/A)	Site of Work (Y / N / N/A)	l Flements to consider					
Nature of the work	Does the equipment need to be Live to complete the work?			N/A	- Testing for example: Section B74					
Economic impact	Does a lack of all line Earthed Isolation opportunities prevent the work from being carried out under category A?	N/A	N/A	N/A	- Does the available access arrangements mean that it is not reasonable to schedule the work to allow completion under categor - Is it unreasonable, or not possible, to postpone the work to allow completion when the access required to allow completion uncategory A is available? Note 1: In many cases, the lack of available infrastructure access and the inability to postpone the work until ESSoW Category implemented, will form the basis of the justification case. Note 2: The ERAS can consult the Route Isolation Planner to confirm the available access arrangements if clarification is requir Note 3: It is important to demonstrate that consideration was given to confirming if it is possible to complete the work under ESS Category A within the available access arrangements and to record the justification where it is not deemed to be achievable with available access arrangements.					
Safety impact	Are the benefits of adopting ESSOW category A outweighed by the risks created through implementing an all line Earthed Isolation?	N/A	N/A	N/A	Passenger Safety i - Overcrowding; - Public disorder/at - Public stranded o Safety of wider infra - The non-availabili infrastructure failur - The time taken to	egory A lead to more driving, more 'On or I	escales may reduce access time.	es leading to incre	eased risk of	
	Justification elem	ent				Justification and related	detail			
RRAP Travelling										
Travelling Site of Work										
	sk Assessment Form Part	1 – Validatio	n							
Electrical Risi		I – Valluatio	''							
	Prepared by: Sarah N	1organ	Signature:	Sarah Mo	raan	Sentinel number:	456987	Date:	13/04/2023	
Electrical Risi				the work asse	essments and	justification recorded above.				
Electrical Risk Approver: I confirm that I have reviewed and app Endorsed by: Matthew Brown Signa				Matthew B					13/04/2023	



art 2 - Completed as close to the Earthed Isolation as possible											
Part 2(a) – Implementation details (To be completed by the Electrical Risk Assessor)											
Complete only if different from that listed in Part 1											
Details of Planned Work											
Work Requestor name: Work Requestor contact number:											
etails of Planned Work											
Work start date and time:		Work end d			ate and time:					Week Number:	
lature of planned task(s), task delivery method(s) and access requirements (Note: Add references of relevant SSoW and other documents detailing the work to be carried out)											
Access and egress arrange	ments										
	On-trackin	ng point(s)					Off	tracking poin	t(s)		
Electrical sections, lines a	affected and a	associated lir	mits (Complete	only if different fro	om that listed in P	art 1)					
						Electrical se	ection limits	OLP Along-track limits required			
Electrical section(s) required	to implement the	Isolation(s)		Line(s) affected		Limit str	uctures:	Fro	om	Т	0
						From	То	(ELR, M	IL & CH)	(ELR, M	L & CH)
Nominated Earthed Isolation	on provider:										



t the location	n for On-Trackir	ng stated in 10	(a) or 2(a). is	s the approach	h to track level?)					(Y/N)	
	n for Off-Trackii										(Y/N)	
/hat is the minim	num wire height at	the access? (mm	n)				Location (ELD,	Mileage, OLE Str	ructure Number)		, , ,	
/hat is the minim	num wire height thr	ough the distance	e travelling unde	r LIVE? (mm)			Location (ELD,	Mileage, OLE Str	ructure Number)			
Machine	Machine Type Machine Supplier 12 Digit Number		ECC reference	MLD (Y/N)	OTP Max H	Height (mm)	Standing Surface Max Height (mm)		Comments			
Lines A	Affected	ELR	Start	Mileage	End N	I	Start OLE	E Structure	End OLE	Structure	Additional Landm	ark Concerr
lectrification	n and Plant Mai	intenance End	aineer or De	legated Autho	ritv [.] I confirm t	hat I have rev	iewed and apr	prove the on/or	ff tracking and	/or travelling	activies stated	above
	n and Plant Mai	intenance Eng	gineer or De			hat I have rev			ff tracking and	or travelling		above.
E	Endorsed by:			Signature	»:		Se	prove the on/or	ff tracking and	or travelling	activies stated	above.
art 2(c) – El		/ Document (Signature e completed	»:	cal Risk Asses	Se	ntinel number:	ff tracking and	or travelling Vork c	Date:	above.
art 2(c) – El	Endorsed by:	/ Document (details (to b	Signature e completed	»:	cal Risk Asses	Se ssor) -track limit	ntinel number:	ff tracking and		Date:	above.
art 2(c) – El COSS OLP) Name	Endorsed by:	/ Document (details (to b	Signature e completed RC	»:	Cal Risk Asses OLP along struc	Se ssor) i-track limit tures:	ntinel number:	J		Date:	above.
COSS OLP) Name	Endorsed by:	/ Document Lin	details (to b ne(s) / ATF / vn Fast ar	Signature e completed RC	»:	OLP along struct From G144/14	Se ssor) I-track limit tures: To G147/52	Issue at Site of Work?	J	Work c	Date:	above.
art 2(c) – El	Endorsed by:	/ Document Lin	details (to b	Signature e completed RC	»:	oal Risk Asset OLP along struct	Se ssor) I-track limit tures:	Issue at Site of Work?	J	Work c	Date:	above.
art 2(c) – El COSS DLP) Name	Endorsed by:	/ Document Lin Up+Dow	details (to b ne(s) / ATF / vn Fast ar	Signature e completed RC ad Slow	»:	OLP along struct From G144/14	Se ssor) I-track limit tures: To G147/52	Issue at Site of Work?	C	Work c	Date:	above.
art 2(c) – El COSS DLP) Name A Rowley	Endorsed by:	Up+Dow	details (to be see(s) / ATF / ATF / ATF	Signature e completed RC ad Slow F	by the Electric	Cal Risk Asset OLP along struct From G144/14 G144/14 G146/33	Se ssor) -track limit tures: To G147/52 G147/52	Issue at Site of Work?	C	Work c	Date:	above.



Part 2(d) – Confirmed Elec							
Finalise and record risks and assoc	ciated Electrical Risk Control Meas	ures in appended ri	isk assessment, append the r	referenced generic risk assessment or exis	ting risk assessment		
Are the required Electrical F	Risk Control Measures identi	fied and record	ded in the appended Ele	ectrical Risk Control Measures App	endix A?	(Y/N)	Y
Are drawings, diagrams or s	sketches included as part of	this electrical r	isk assessment?			(Y/N)	Ν
Is there a requirement to ins Appendix A. If 'No, provide i	•	ntrol Measures?	If 'Yes', provide the det	tails in the Electrical Risk Control N	Measures table in	(Y/N)	N
,		cked prior t	o application and	usage length is less than :	12 hours.		
Will the integrity and continuity of existing electrical circuits, including bonding, be affected by the planned tasks? If Yes , describe the measures to be taken to mitigate the hazards in accordance with the requirements of NR/L3/ELP/21085:							
						1	
Has the visit to site been wai below: (include the name of		• •	•	ESSoW category A work. If Yes, p	rovide relevant details	(Y/N or N/A)	Υ
NOTE: A site visit shall not	t be waived for On-Track P	lant activites as	s specified in NR/L2/RN	MVP/0200/P501.			
	ESSoW is a Category	A. NP will	visit site to confir	m the DEP locations and	Bonding is intact.		
				m the DEP locations and ? (If No, detail below the action red		(Y/N)	Y
Can the work be completed						(Y/N)	Y
Can the work be completed						(Y/N)	Y
Can the work be completed Earthed Isolation)	safely with the proposed Ele	ectrical Risk Co				(Y/N)	Y
Can the work be completed Earthed Isolation) Electrical Risk Assessmen	safely with the proposed Ele	ectrical Risk Co	ntrol Measures in place	? (If No, detail below the action red	quired to replan the		Y
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Electrical Risk Assessment Form - Appendix A

Appendix A	- Electrical risk assessment ((to be completed by	the Electrical Risk	k Assessor)						
				essment gu	idance					
1	Having selected the ESSoW of (Even when applying category NR/L3/ELP/SAI25 module 2 for	y A there could be still		-			red by the OL	P.) Please refer	to	
2	List the identified residual elec	ctrical hazards in the r	isk assessment scl	hedule.						
3	If any risk level remains 'unacto facilitate delivery enabling a			onal control in	n place, the work shall not pr	oceed. The pla	anning of the w	ork shall be re-	evalua	ted
			Sco	ring guidan	ce					
How likely is	it that compliance with the spec	cified restrictions for th	ne 2.75 m zone, Liv	ve zone will b	e achieved?			_		
Likely	There are sufficient controls breach the controls	in place to achieve this	s, and either all of t	them would n	leed to fail, or a person woul	d have to delib	erately	Accepta	ble	
Unlikely	There are insufficient controls in place to achieve this, and a simple misunderstanding, or a person experiencing a momentary distraction or lapse of attention could cause them to fail									
			Risl	k assessmei	nt			_		
Hazard ID		Residual Electrical Haza	rd		Electrical Risk Control Measure(s)	Inspection required? (Yes or No)		ng the frequency where required)		
	Description	Line	From / At	То					Yes	No
1	OLP Along-track limit	All Lines	G144/14		Aerial RoLE x6	No			~	
2	OLP Along-track limit	All Lines	G147/52		Aerial RoLE x6	No			~	
3										
4										
5										
6										
7										
8						+				
10										
11										
12										
13										



Electrical Risk Assessment Form - Appendix B

Appendix B Completion of	- Relevant inf of Appendix B	formation for the site walk is not a requirement for the	out authorisation (of the Electric	al Risk Assess	ment Form				
					DEP Details					
Structure number		Line(s)	OLE (CME/AE/CJ)	RC (AE)	ATF (CME/AE/CJ)	EAP intact	DEP bond Intact		Comments	
G144/4	Up + Dow	n Fast, Slow and ATF	CME			Υ	Y			
G145/30	Up + Dow	n Fast, Slow and ATF	AE			Υ	Y			
G145/33	Up + Down	Fast, Slow and ATF N/S	CJ		CME	Υ	Y			
G146/01	Up + Dow	n Fast, Slow and RC	CME	2 X AE		Υ	Y			
G147/17	Up + Dow	n Fast, Slow and RC	AE	AE		Y	Y			
G147/52	Up + Dow	n Fast, Slow and RC	CME	2 X AE		Υ	Y			
				Bonding	affected by the	he works				
Structure number		Line(s)						Description		
					†					
			Mar	nual lineside	Disconnector	s to be oper	ated			
Disconnecto	or designation	Structure number	Liı	ne	Current p Discon		Key type a	nd location	Access / location	
					·					

The phased approach for Single Approach to Isolation on Overhead Line Equipment (SAI OLE)



NR/L3/ELP/29987 Issue

Introduction of Reminder of Live Exposed (RoLE) on Overhead Line Equipment (OLE)



Introduced 2021-22

Electrical Safety
Culture

National electrical safety step-up for frontline teams across the industry



Completing Sept 2023

Phase 0 NR/L3/ELP/27720

Introduction of a new standard to refresh the Test Before Touch process on OLE



Published September 2022

Phase 1
AP/NP Pre-Requisites

Trial of on-site assessments



Complete

Phase 2 NR/L3/ELP/29987

Issue 8 introduced new terminology with a supporting film and update

Published

September 2022

Phase 3 NR/L3/ELP/SAI25

Issue 1 introduced the electrical risk assessment and supporting changes, two new competences and training and briefing for impacted



Published June 2023

The phased approach for Single Approach to Isolation on Overhead Line Equipment (SAI OLE)



Phase 4 NR/L3/ELP/SAI25

Issue 2 introduces Mod D 'Distribution System Interface' Requirements



Publication Dec 2023

Phase 4.5 NR/L3/ELP/SAI25

Enables Remote Securing



CP7 2024 onwards Phase 5 NR/L3/ELP/SAI25

introduces
Optimised Earthing,
Neutral Section and
Return Conductor
Earthing



CP7 2024 onwards Phase 6 NR/L3/ELP/25000

Implementation of Issue 2

Replaces SAI25



CP7 2024 onwards Phase 7

Further improvements to training



CP7 2024 onwards Phase 8 NR/L3/ELP/25000

Post Implementation Review



CP7
2024 onwards