



Single Approach to Isolation (SAI)

Introduction to the electrical risk assessment form (ERAF)



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

Agenda



- ✓ How will the industry move towards using a single approach to isolation on OLE?
- ✓ The new standard NR/L3/ELP/SAI25
- ✓ Single approach to isolation on OLE
- ✓ ERAR Electrical Risk Assessment Reviewer
- ✓ ERAF Electrical Risk Assessment Form
- ✓ Round up and what's next?

How will the industry move towards using a single approach to isolation on overhead line equipment?



NR/L3/ELP/29987 Issue 6

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

Industry move towards using SAI on OLE continued....



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

Phase 8 NR/L3/ELP/25000

Post Implementation Review



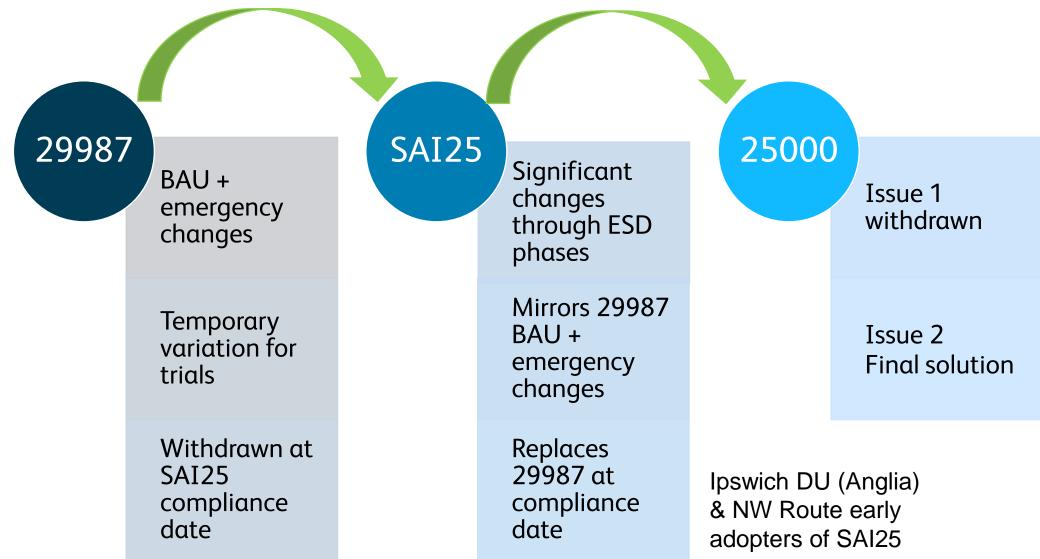
CP7 2024 onwards



CP7 2024 onwards

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





Progression will be in agreement with your Route/Region contact

Single approach to isolation – overhead line equipment



- Phase 3 introduces the following changes via a new standard NR/L3/ELP/SAI25 Issue 1
 - Improved process for electrical risk assessments
 - Introduction of new competence* for Electrical Risk Assessor (ERAs) and technical briefings for existing competency holders
 - Enhanced electrical risk control measures
 - Introduction of the electrical safe system of work
- Published in June 2023
- A two-year compliance date applies to accommodate training and briefing

Single approach to isolation – overhead line equipment



Phase 4 introduces the following changes via the standard NR/L3/ELP/SAI25 Issue 2

- New processes for the interface between overhead line equipment and distribution infrastructure for the maintenance of lineside track feeder disconnectors, HV cabled circuits and the associated certification.
- Introduction of the live working form.
- Clarification of responsibilities for the review of the electrical risk assessment*
- Will replace Issue 1 when published in December 2023
- Compliance date of September 2025 remains the same

* Electrical Risk Assessment Reviewer (ERAR)



The Electrical Risk Assessment Form is reviewed and countersigned by a second person when there is a heightened electrical risk associated with the works:

- Electrical Risk Assessor waiving a pre-site visit; or
- · When work is taking place that will bring colleagues into the 2.75m zone of exposed Live conductors; or
- Where work includes OTP on and off tracking/travelling under live OLE and it is not included on the Electrical Safe System of Work (ESSoW) category L list of approved tasks; or
- Work is being carried out under ESSoW category E, and is not included on the ESSOW category E list of approved tasks; or
- · Where an Electrical Risk Assessment Form is being reused and includes ones of the above criteria.

Electrical Risk approver (ERAp) removed, Electrical Risk Assessment Reviewer (ERAR) new duty

Electrical Risk Assessment Reviewer (ERAR) Responsibilities



The main purpose of the ERAR is to check that the correct process for a **heightened** electrical risk assessment and completion of the ERAF has been followed.

The ERAR's countersignature of the ERAF does not remove any accountability from the ERAs.

The ERAR shall check the ERAF to confirm there is justification for:

- the ERAs' decision to select a particular ESSoW; and
- where relevant, the ERAs' decision to waive the site visit.

The ERAR shall check the ERAF to confirm that the:

- ESSoW is appropriate for the task and task delivery method; and
- ERAF lists any residual electrical hazards together with appropriate electrical risk control measures.
 - Electrical Risk approver (ERAp) removed, Electrical Risk Assessment Reviewer (ERAR) new duty

Single approach to Isolation – Multi-party earthed isolations



Split into two sessions:

- This one to explain the Electrical Risk Assessment Form
- December process for Multi-party earthed isolations

Next time:

- Example of an Electrical Risk Assessment that has multiple parties involved.
- (Real world examples would be excellent to build from!)
 - Email any complex real-world examples to the SAI inbox (<u>ESDSAISupport@networkrail.co.uk</u>)





The electrical risk assessment form (ERAF)



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

ERAF process flow...Who? What? Where?



Who?

Work Requestor

Electrical Risk Assessor (ERAs)

ERAs & Electrical Risk Assessment Reviewer (ERAR) Electrical Risk Assessor (ERAs)

ERAs & Electrical Risk Assessment Reviewer (ERAR)

What?

Submit an Outage Request Form with the following:

- Details of task
- Location of task
- Time and date of task
- On Track Plant (if required)

- Detail task information
- Detail task location with electrical sectioning
- Choose an appropriate ESSoW
- Justify if a Category A earthed isolation cannot be

achieved

- residual
 electrical
 hazards from

 ERAs approves
 and signs Part
 1 of the ERAF
 - ERAR only required under heightened electrical risk
- Are task and location still correct post final IPF release?
- Identify any earthing and bonding continuity issues
- Complete site walkout including earthing, bonding and disconnector information

- Confirm
 electrical risk
 control
 measures are
 still relevant

 ERAs approves
 and signs Part
 2 of the ERAF
 ERAR only
 - ERAR only required under heightened electrical risk

Where?

ERAF Appendix A - Draft

isolation

walkout

control

residual

electrical

hazards

Choose the

measure to

mitigate the

electrical risk

diagrams/early

ERAF Appendix A - Confirmation

Outage Request Form

ERAF Part 1

ERAF Part 2



NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM

NR/L3/ELP/SAI25/ERAF	Possession ref:	Outage Request Form ref:	Work site ref:	Electrical Risk Assessment Form ref:	Revision
Issue 02	POSS/EXAMPLE/01	ORF/EXAMPLE/01	SITE/EXAMPLE/01	ERAF/EXAMPLE/01	01
-				If reused, include date from Part 2 of first use:	

Work Requestor na	ame:	Alex Ro	owley - Ja	ck Partridg	e	Work Red	questor contac	t number:	07986541;	236 - 0751521	2981
etails of Planned Work											
Work start date and time:	06/11/	12023 - 00	001	Work end date and time:		06/11/2023 - 0500				Week Number:	40
ature of planned task(s), t	ask delivery me	thod(s) and a	iccess requi	rements	(Note: Add refere	ences of relevant	SSoW and other	documents detai	iling the work to t	ne carried out)	
OLE Maintenance we Drainage works invo	lving extendir	ng drainage	rods and	poles.					. 2,12 1,0003.		
ccess and egress arrange	On-tracking	noint/s)					Off-	tracking point(/e\		
C1.4	5/31 Whitmo	,	DDAD		G147/33A Whitmore P.S.P RRAP						
41 7.	3/ JI WHILM	NE MITAIS	NNAF				4147733	~ Whitehore	7.3.7 100	ır	
lectrical sections, lines	affected and as	sociated lim	nits								
						Electrical s	ection limits		OLP Along-track	limits required	
Electrical section(s) required	to implement the is	olation(s)		Line(s) affected		Limit structures:		Fro	om	m To	
						From	То		ure Number)	(Line, Structure	Numbe
								LINI DOLLIN E	ast G144/14	Up+Down Fast G	147/5
BW - 13A, 14A, 15	A, 16A COM	PLETE		Up Slow		G139/05	G150/11	OP+DOWN FO			147/5
BW - 13A, 14A, 15 BW-AF 7A, 8A CO		PLETE		Up Slow own Slow		G139/05 G139/05	G150/11 G150/11	l '	low G144/14	Up+Down Slow a	
	MPLETE	PLETE	D			• • • • • •		Up+Down Sl	low G144/14	Up+Down Slow G Up+Down Slow G	
BW-AF 7A, 8A COI	MPLETE	PLETE	D	own Slow		G139/05	G150/11	Up+Down Sl	low G144/14	-	
BW-AF 7A, 8A COI CW - 17A, 20A CO	MPLETE	PLETE	D D	own Slow Up Fast		G139/05 G139/05	G150/11 G150/11	Up+Down Sl	low G144/14	-	
BW-AF 7A, 8A COI CW - 17A, 20A CO	MPLETE	PLETE	D D	own Slow Up Fast own Fast		G139/05 G139/05 G139/05	G150/11 G150/11 G149/16	Up+Down Sl	low G144/14	-	
BW-AF 7A, 8A COI CW - 17A, 20A CO	MPLETE OMPLETE	PLETE	D D	own Slow Up Fast own Fast Up ATF Down ATF		G139/05 G139/05 G139/05 G139/05	G150/11 G150/11 G149/16 G145/31	Up+Down Sl	low G144/14	-	

ERAF Part 1 Principles:

- Part 1 (first 4 pages) is completed as soon as a piece of work is required to be completed – before PPS (or equivalent) entry.
- Provide as much detail about the planned task(s) as possible – OLE maintenance is not enough detail.
- If there are on/off tracking points for machines, detail the access RRAPs
- Provide the proposed limits for overhead line permits and the electrical sections required to complete the task.



NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM

Electrical Safe System of Work (ESSoW) Hierarchy and OTP traveling under Live						
NOTE: Where ESSOW Category L is used in conjunction with another ESSOW from the below hierarchy, the relevant area(s) shall be populated with 'N/A (ESSOW Cat L)'	RRAP (Y/N or N/A)	Travelling (Y/N or N/A)	Site of W (Y/N or N			
Can the task be reasonably completed using Category A?	Y	Y	Y			
2. If the answer to Question 1 is 'No', can the task be reasonably completed using category B?	N/A	N/A	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?						
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/SAI25 Module 7?	N/A					
If the answer to Question 4 or Question 5 is 'No', the task shall be re-planned.						
If the selected ESSoW category of work is B, D or E* for the 'RRAP', 'Travelling' and/or 'Sit (* Only complete Part 1(b) if the task is not on the approved list of ESSoW category E task		t 1(b) to provide the supp	orting justificati	ion		
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	I risk assessment in	(Y/N)	Y		
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	Υ		
(If No, provide confirmation below as to how the Electrical Risk Assessor will be able to appropriately consider the work	k content as part of the electrical	risk assessment)				
N/A						
Complete the appended electrical risk assessment in draft in Appendix A, identifying the relevant residual elect	trical hazards and proposed Ele	ectrical Risk Control Measures				
With the information available at this stage, can the work be completed safely with the selected E Measures?	ESSOW and proposed Elec	ctrical Risk Control	(Y/N)	Y		
(If No, the work will need to be re-planned and a different ESSoW shall be selected)						

- At this stage, understand what is possible to receive as an earthed isolation from the following:
 - Route Isolation planner/meetings
 - Rules of the route
- Where possible, work in the safest possible electrical safe system of work (ESSoW), category A.
- ESSoW can be different for OTP at the RRAP and travelling locations.
- Appendix A must be completed in DRAFT for part 1.

ERAF appendix A



NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM

Appendix A	- Electrical risk assessme	nt (to be completed by		isk Assessor sessment gu						
1	Having selected the ESSoV (Even when applying categ NR/L3/ELP/SAI25 module	ory A there could be still	will be applied, ic	dentify all of th	e residual electrical hazard		vered by the C	DLP.) Please ref	er to	
2	List the identified residual e	electrical hazards in the i	risk assessment s	schedule.						
3	If any risk level remains 'un evaluated to facilitate delive				in place, the work shall not	proceed. The	planning of the	e work shall be	re-	
			Sco	oring guidan	ce					
How likely is	it that compliance with the s	pecified restrictions for t	the 2.75 m zone,	Live zone will	be achieved?					\neg
Likely	There are sufficient control breach the controls	here are sufficient controls in place to achieve this, and either all of them would need to fail, or a person would have to deliberately								
Unlikely	y 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									
			Ris	sk assessmer	nt					
Hazard ID		Residual Electrical Haza	ard		Electrical Risk Control Measure(s)	Inspection required? (Yes or No)		ding the frequency		e risk this zard ptable
	Description	Line	From / At	То					Yes	No
1	OLP Along-track limit	All Lines	G144/14		Aerial RoLE x6	No			V	
2	OLP Along-track limit	All Lines	G147/52		Aerial RoLE x6	No			~	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										

- All OLP along track limits must be shown where RoLE is to be applied.
- All residual electrical hazards must be shown where electrical risk control measures are to be applied.
- You can have more than one electrical risk control measure per residual electrical hazard.
- The risk must be deemed acceptable by the ERAs if there is no ERAR reviewing; or
- by the ERAR if the ERAR reviews the document.



NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM

Part 1(b) – Justification (To be completed by the Electrical Risk Assessor. Where relevant, Part 1(b) shall be completed to separately record the justification for the ESSoW at the Site of Work and the ESSoW for travelling to the Site Work) - (Complete for any ESSOW other than Category A)

Jus	tification Elements	RRAP (Y / N / N/A)	Travelling (Y / N / N/A)	Site of Work (Y / N / N/A)	Elements 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 category A? - Is it unreasonable, or not possible, to postpone the work to allow completion when the access required to allow completion under Category A is available? Note 1: In many cases, the lack of available infrastructure access and the inability to postpone the work until ESSoW Category A can be 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 required. Note 3: It is important to demonstrate that consideration was given to confirming if it is possible to complete the work under ESSoW Category A within the available access arrangements and to record the justification where it is not deemed to be achievable within the 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	Workforce Safety for example: - Does ESSOW category A lead to more driving, more 'On or Near the Line' working and/or more manual handling? Passenger Safety for example: - Overcrowding; - Public disorder/abusive behaviour towards workforce; - Public stranded on sealed trains etc. Safety of wider infrastructure for example: - The non-availability of ESSoW category A within suitable timescales may reduce access times leading to increased risk of infrastructure failures, operational incidents and close calls etc The time taken to implement ESSoW category A may reduce access times leading to increased risk of infrastructure failures, operational incidents and close calls etc.
	Justification elem	ent			Justification and related detail
RRAP	N/A				
Travelling	N/A				

Electrical Risk Assessment Form Part 1 - Validation

N/A

Site of Work

Electrical Ital	on Assessment Former are	- Valladion				
	Prepared by:	Sarah Morgan	If this ERAF is to be reviewed by an ERAR,	Electrical Risk	Reviewed by:	Matthew Brown
Electrical Risk Assessor	Signature:	Sarah Morgan	select the reason below:	Assessment	Signature:	Matthew Brown
(ERAS)	Sentinel number:	456987	None of the above - Request from ERAS	Reviewer	Sentinel number:	<i>65</i> 4789
	Date:	13/04/2023	None of the above - Request from ERAS	(ERAR)	Date:	13/04/2023
			•			

- Where Category A cannot be selected, a justification must be provided to work under any other ESSoW.
- Examples of justification are:
- Nature of work: Category E –
 The OLE must remain live for section proving/testing after commissioning
- Economic impact: Category B –
 Midweek night non disruptive access only can be provided (2 out of 4 roads).
- Safety impact: Category D –
 To achieve a Category A, 4 miles of unnecessary earthing would have to be applied.
- The ERAF only needs to be signed by an ERAR when:
- Category B Work is encroaching 2.75m of live OLE
- On/off tracking/travelling under live
- · Site visit being waived
- Category E working Not on the approved list
- The ERAF is being reused
- Request from the ERAs



NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM

NR/L3/ELP/SAI25/ERAF	Possession ref:	Outage Request Form ref:	Work site ref:	Electrical Risk Assessment Form ref:	Revision
Issue 02	POSS/EXAMPLE/01	ORF/EXAMPLE/01	SITE/EXAMPLE/01	ERAF/EXAMPLE/01	01

Part 2 - Completed as close to the Earthed Isolation as pos	ssible							
Part 2(a) – Implementation details (To be completed by the	Electrical Risk As	sessor)						
Complete only if different from that listed in Part 1								
Details of Planned Work								
Work Requestor name:			Work Re	questor contac	ct number:			
Details of Planned Work								
Work start date and time:	Work end da	ate and time:					Week Number:	
Nature of planned task(s), task delivery method(s) and access	requirements	(Note: Add refer	ences of relevan	t SSoW and other	r documents detai	ling the work to l	be carried out)	
Access and agrees arrangements								
Access and egress arrangements				0"				
On-tracking point(s)				Off-	tracking point(S)		
Electrical sections, lines affected and associated limits (Co	implete only if different fi	rom that listed in		section limits		OLP Along-track	limits required	
Electrical section(s) required to implement the Isolation(s)	Line(s) affected			ructures:	Fro		To	
Electrical section(s) required to implement the isolation(s)	Line(s) anected		From	To	(ELR, M		(ELR, MIL &	CH)
			TIOIII	10	(221, 111	12 4 511)	(EEI), IIIE	011,7
Nominated Earthed Isolation provider:								

ERAF Part 2 Principles:

- Completed after the FINAL isolation planning form has been released.
- Part 2(a) is only completed if the work requested in part 1 is altered in any way.
 - Work must be reassessed and understood what can continue with the shortened overhead line permit limits and what must be cancelled.
- If you are given a bigger earthed isolation than required, no need to complete part 2(a).



Will thoro be any on/off to		velling under								_	
Will there be any on/off tra At the location for On-Trad			•			i the answer is	s yes complete	÷ Z(D))		(Y/N) (Y/N)	N
At the location for Off-Trac										(Y/N)	
What is the minimum wire height		* * * * * * * * * * * * * * * * * * * *	uio oxit iroiii i	Tack lover:		Location (ELD	, Mileage, OLE Str	ucture Number)		(1/10)	
What is the minimum wire height			LIVE? (mm)			,	, Mileage, OLE Str				
Machine Type	Machine	Supplier	12 Digit Number	ECC reference	MLD (Y/N)	OTP Max	Height (mm)	Standing Surfa (m		Commer	ts
Lines Affected	ELR	Start I	/lileage	End N	/lileage	Start OL	E Structure	End OLE	Structure	Additional Landma	rk Concerr
Electrification and Plant I											
	Maintenance En	gineer or Dele	egated Authori	ity: I confirm to	hat I have rev	riewed and ap	prove the on/of	f tracking and	or travelling a	activies stated	above.
Endorsed by	/ :		Signature:			Se	prove the on/of	f tracking and	or travelling a	activies stated a	above.
Endorsed by	/ :		Signature:		al Risk Asse	Se ssor)		f tracking and	or travelling a		above.
Endorsed by Part 2(c) – Electrical Saf	/: fety Document		Signature:		cal Risk Asse	Se	entinel number:	f tracking and	or travelling a	Date:	above.
Endorsed by Part 2(c) – Electrical Saf	/: fety Document	details (to be	Signature:		cal Risk Asse	Sessor) g-track limit etures:	Issue at Site of Work?	f tracking and		Date:	above.
Endorsed by Part 2(c) - Electrical Saf	/: fety Document Lir	details (to be	Signature: completed b		cal Risk Asse OLP along struc	Se ssor) g-track limit etures:	entinel number:	f tracking and		Date:	above.
Endorsed by Part 2(c) – Electrical Saf COSS (OLP) Name	/: fety Document Lir Up+Do	details (to be	Signature: completed b		Cal Risk Asse OLP along struc From	Sessor) g-track limit etures:	Issue at Site of Work?	f tracking and	Work co	Date:	above.
Endorsed by Part 2(c) – Electrical Saf COSS (OLP) Name	tety Document Lir Up+Do	details (to be ne(s) / ATF / R own Fast and	Signature: completed b		Cal Risk Asse OLP along struc From G144/14	Sessor) g-track limit stures: To G147/52	Issue at Site of Work?	f tracking and	Work co	Date:	above.

Category A, All lines isolated and earthed including ATF and RC. No Residual electrical hazards. OLP limits listed above in 2(c).

- Part 2(b) only completed where on/off tracking/travelling under live is to take place.
 - Must be signed off by the E&PME.
- Part 2(c) must be completed with all overhead line permits (OLP) planned to be issued. There is a continuation sheet for this section.
- An OLP to be issued at the site of work is up to the ERAs' discretion.
 - Complexity of the earthed isolation
 - How close the OLP is working to residual electrical hazards
 - Etc.



NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM

Part 2(d) – Confirmed Electrical Risk Control Measures		
Finalise and record risks and associated Electrical Risk Control Measures in appended risk assessment, append the referenced generic risk assessment or existing risk assessment		
Are the required Electrical Risk Control Measures identified and recorded in the appended Electrical Risk Control Measures Appendix A?	(Y/N)	Υ
Are drawings, diagrams or sketches included as part of this electrical risk assessment?	(Y/N)	Ν
s there a requirement to inspect the Electrical Risk Control Measures? If 'Yes', provide the details in the Electrical Risk Control Measures table in Appendix A. If 'No, provide justification below:	(Y/N)	N
Devices checked prior to 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:	(Y/N or N/A)	N
Has the visit to site been waived by the Electrical Risk Assessment Reviewer? A waiver is not required for ESSoW category A work. If Yes, provide relevant details below: (include the name of the reviewer, date of the waiver and factors to justify the waiver)	(Y/N or N/A)	N
NOTE: A site visit shall not be waived for On-Track Plant activites as specified in NR/L2/RMVP/0200/P501.		
NOTE: A site visit shall not be waived for On-Track Plant activites as specified in NR/L2/RMVP/0200/P501. ESSoW is a Category A. NP will visit site to confirm the DEP locations and Bonding is intact.		

Electrical Risk Assessment Form Part 2 – Validation									
Prepare	d and approved for use by:	Sarah Morgan	If this ERAF is to be reviewed by an ERAR.	Reviewed		Matthew Brown			
Electrical Risk	Signature:	Sarah Morgan	select the reason below:	Electrical Risk	Signature:	Matthew Brown			
Assessor	Sentinel number:	<i>456</i> 987	None of the above - Request from ERAS	Assessment Reviewer	Sentinel number:	<i>65</i> 4789			
(ERAS)	Date:	01/11/2023	None of the above - Nequest from LIVAS	(ERAR)	Date:	01/11/2023			

Short notice Earthed Isolations: Guide questions						
This section shall be completed for short notice Earthed Isolations in accordance with the requirements of NR/L3/ELP/SAI25 module 2	(Y/N)					
Has the appropriate Electrical Safe System of Work been selected from the hierarchy in accordance with the requirements of NR/L3/ELP/SAI25 module 2?						
Have all electrical hazards and residual electrical hazard been identified?						
Are the Electrical Risk Control Measures identified suitable and sufficient?						
Are the necessary competences and resources available to complete the task(s) required?						

- Confirmation of appendix A to check the DRAFT in part 1 is still correct.
- Earthing and bonding must be considered as part of the electrical risk assessment.
- Waiving a site visit justification must be agreed by the ERAR.
- Technology can be used when waiving the site visit however, it is the ERAs' responsibility to ensure the data is current and correct.
- Where a short notice earthed isolation occurs – An ERAS and ERAR should use the guide questions shown.

ERAF appendix B



Appendix B - Relevant information for the site walkout Completion of Appendix B is not a requirement for the authorisation of the Electrical Risk Assessment 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 + Down Fast, Slow and ATF		CME		CME	Y	Y			
G145/30	Up + Down Fast, Slow and ATF		AE			Y	Y			
G145/33	Up + Down Fast, Slow and ATF N/S		CJ		CME	Y	Ý			
G146/01	Up + Down Fast, Slow and RC		CME	2 X AE		Y	Y			
G147/17	Up + I	Down Fast, Slow and RC	AE	AE		Y	Y			
G147/52	Up + Down Fast, Slow and RC		СМЕ	2 X AE		Y	Y			
Bonding affected by the works										
Structure number	Line(s)				Description					
Manual lineside Disconnectors to be operated										
			Wan	uai imeside L	ı		lea			
Disconnector designation		Structure number	Line		Open / Close / Alternate / Earth		Key type a	nd location	Access / location	

 Not required for the electrical risk assessment, however advised.

Next Steps



- The next three scheduled calls are;
 - 7 December Part 2 of Multi-party earthed isolations
 - 18 January
 - 29 February
- Are there any hot topics you would like to share?
 - Email <u>ESDSAIsupport@networkrail.co.uk</u>