Electrical Safety Delivery Programme

Single Approach to Isolations (SAI)

Guidance Documents

What a Good One Looks Like (WAGOLL)

Full ERAF (Issue 2 D) – Parts 1 & 2

Created: 20 February 2026
Updated: 10 March 2026

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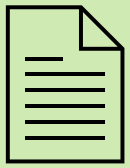
Forms Process Flow (Pre Isolation Planning)

How the form you are completing / filling in, fits into the process?

ORF
Completed by the work requestor



- Completion mandated since 06 Sep 2025, unless the ERAs is electrically risk assessing their own work.
- Captures information around the task and task delivery method to allow the ERAs to start the ERAF Part 1.
- ERAs returns ORF with ERAF P1 Ref Number populated in ORF Part 1(a) and Earthed Isolation details populated in ORF Part 1(c).

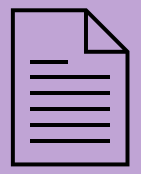
ERAF Part 1
Completed by an ERAs

- Receive the ORF from the work requestor and complete the ERAF Part 1 based upon the information received.
- Where the task and task delivery method can be completed under CAT A – a shortened ERAF (CAT A ONLY ERAF) can be completed.

ERAF Part 2
Completed by an ERAs

- Receive the ERAF Part 1 from the ERAs and complete the ERAF Part 2 based upon the information received.
- Where ALL tasks and task delivery methods can be completed under CAT A – a shortened ERAF can be completed.
- NP only needs to receive a completed ERAF Part 2.

EIDF
Completed by a NP



- Data from ERAF Part 2 used to complete the EIDF
- NP delivering the Earthed Isolation only needs to receive the ERAF Part 2 and EIDF.

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NetworkRail

Full ERAF – Part 1

NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM (FULL) - PART 1

ELP/SAI25/ERAF/ Issue 2D	Continuation sheet?	Electrical Risk Assessor Company:	Week Number	ORF Reference:	If reused, include date from Part 2 of first use:	Revision:
	No	IMDU Bletchley	01	0369-wk01-01		1

FULL Part 1(a) – Task and Task Delivery Method details from the Outage Request Form

ERAF P1 Ref:	Worksite Ref:	Requested Start Date & Time	Requested End Date & Time	OLP Limits Miles & yards		ELR / Line(s) / ATF / RC	Task Details	On/Off - Tracking Access Point	On / Off / Both	Line(s)	Location M	Location yd
NR-01	11435533	19/07/2025 22:40	20/07/2025 06:00	From	56m 00yd	Up and Down Slow Up and Down Northampton	OLE Dropper Repair & Replacement with SRS on Up Slow Road	Ashton RRAP	Both	Up Northampton into Up Slow	58	400
				To	57m 100yd							
				From					Select			
				To								
				From					Select			
				To								
				From					Select			
				To								
				From					Select			
				To								

FULL Part 1(b) - Electrical sections, lines and limits required for the work

Electrical section(s) required to implement the isolation	Line(s) / ATF	Electrical section limit structures: From	Electrical section limit structures: To
LA - 7 A, B	Up Slow and Up Northampton	G52/35B	G58/11
LA - 8 H, K	Down Slow and Down Northampton	G52/35B	G58/11
LA - AF3A	Up ATF	G52/34B	G58/11

FULL Part 1(c) - Overhead Line Permit Along Track Limits

Worksite Ref:	Line(s) / ATF / RC	OLP Along-Track Limits & RoLE: Limit structures: From	OLP Along-Track Limits & RoLE: Limit structures: To	OLP Along-Track Limits & RoLE: Type of RoLE at ATL: From	OLP Along-Track Limits & RoLE: Type of RoLE at ATL: To	Test Before Touch Method?	Issue at Site of Work?	ESSOW Category
11435533	Up Slow and Up Northampton & ATF	G56/02	G57/10	Aerial	Aerial	Method 1	No	B
	Down Slow and Down Northampton	G56/02	G57/11	Aerial	Aerial	Method 1	No	D

NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM (FULL) - PART 1

Continuation sheet – If used just detail yes / no, and attach to the back.

Electrical Risk Assessor Company filling out the ERAF.

Week Number and Outage Request Form reference – copied from the Outage Request Form.

If reused, detail date from previous Electrical Risk Assessment Form – Should be within 12 months if renewed, as long as the work location and type is identical.

The revision number is updated for any updates to the form.

ELP/SAI25/ERAF/ Issue 2D	Continuation sheet?	Electrical Risk Assessor Company:	Week Number	ORF Reference:	If reused, include date from Part 2 of first use:	Revision:
	No	IMDU Bletchley	01	0369-wk01-01		1

FULL Part 1(a) – Task and Task Delivery Method details from the Outage Request Form

ERAF P1 Ref:	Worksite Ref:	Requested Start Date & Time	Requested End Date & Time	OLP Limits Miles & yards		ELR / Line(s) / ATF / RC	Task Details	On/Off - Tracking Access Point	On / Off / Both	Line(s)	Location M	Location yd
NR-01	11435533	19/07/2025 22:40	20/07/2025 06:00	From	56m 00yd	Up and Down Slow Up and Down Northampton	OLE Dropper Repair & Replacement with SRS on Up Slow Road	Ashton RRAP	Both	Up Northampton into Up Slow	58	400
				To	57m 100yd							
				From					Select			
				To								
				From					Select			
				To								
				From					Select			
				To								
				From					Select			
				To								

The Electrical Risk Assessor must assign a ERAF Ref. These should be unique to every ERAF completed.

The Part 1(a) information should be copied from the Outage Request Form. If there isn't enough information for the Electrical Risk Assessment to be completed, then it would need to be sent back to the work requestor.

ERAF FULL Part 1(b) & (c) – Completed by the Electrical Risk Assessor.

FULL Part 1(b) - Electrical sections, lines and limits required for the work				FULL Part 1(c) - Overhead Line Permit Along Track Limits								
Electrical section(s) required to implement the isolation	Line(s) / ATF	Electrical section limit structures:		Worksite Ref:	Line(s) / ATF / RC	OLP Along-Track Limits & RoLE				Test Before Touch Method?	Issue at Site of Work?	ESSOW Category
						Limit structures:		Type of RoLE at ATL				
		From	To			From	To	From	To			
LA - 7 A, B	Up Slow and Up Northampton	G52/35B	G58/11	11435533	Up Slow and Up Northampton & ATF	G56/02	G57/10	Aerial	Aerial	Method 1	No	B
LA - 8 H, K	Down Slow and Down Northampton	G52/35B	G58/11		Down Slow and Down Northampton	G56/02	G57/11	Aerial	Aerial	Method 1	No	D
LA - AF3A	Up ATF	G52/34B	G58/11									

FULL Part 1(b) - Electrical sections, lines and limits required for the work			
Electrical section(s) required to implement the isolation	Line(s) / ATF	Electrical section limit structures:	
		From	To
LA - 7 A, B	Up Slow and Up Northampton	G52/35B	G58/11
LA - 8 H, K	Down Slow and Down Northampton	G52/35B	G58/11
LA - AF3A	Up ATF	G52/34B	G58/11

FULL ERAF Part 1(b) – Electrical sections, lines and limits required for the work.

Electrical section limit structures to be obtained from isolation diagrams

There are two ways to fill in Part 1(b):-

1. Either the exact electrical sections or subsections required to meet the OLP along track limits in Part 1

Or if you know what earthed isolation this work will fit in….

2. Then you can enter those sections

If the earthed isolation is reduced, your Part 1 will then be invalid.

Worksite Ref. from ORF and Part 1(a).

Lines / ATF / RC – Detail the lines required for the Overhead Line Permit request.

OLP Along-Track Limits and RoLE equipment for each limit

Test Before Touch Method - If known place Method one to four, if unknown leave blank at this time.

FULL Part 1(c) - Overhead Line Permit Along Track Limits								
Worksite Ref:	Line(s) / ATF / RC	OLP Along-Track Limits & RoLE				Test Before Touch Method?	Issue at Site of Work?	ESSOW Category
		Limit structures:		Type of RoLE at ATL				
		From	To	From	To			
11435533	Up Slow and Up Northampton & ATF	G56/02	G57/10	Aerial	Aerial	Method 1	No	B
	Down Slow and Down Northampton	G56/02	G57/11	Aerial	Aerial	Method 1	No	D

Is the permit going to be issued at the Site of Work or not.
This is stipulated by the ERAs, depending on the complexity of work.

Electrical Safe System of Work category that the Overhead Line Permit is going to be issued within.
Although D is not an OLP Along-Track Limit, it's good to detail that there is on / off tracking and travelling associated with the Overhead Line Permit.

Information for ERAF Full shall be copied onto the ORF.

ERAF FULL Part 1(d) – 2nd Page – Completed by the Electrical Risk Assessor.

FULL Part 1(d) – Selection of the Electrical Safe System of Work			
Electrical Safe System of Work (ESSoW) Hierarchy and OTP traveling under Live			
Where ESSOW Category L is used, this MUST be authorised by the Responsible Manager of the task being undertaken. Where ESSOW Category L is used in conjunction with category A, the relevant area(s) shall be populated with 'Cat L N/A'	On/Off Tracking Point (Y/N, N/A, Cat L N/A)	Travelling (Y/N, N/A, Cat L N/A)	Site of Work (Y/N, N/A)
1. Can the task be reasonably completed using ESSOW Category A?	N	N	N
2. If the answer to Question 1 is 'No', can the task be reasonably completed using ESSOW Category B?	N	N	Y
3. If the answer to Question 2 is 'No', can the task be reasonably completed using ESSOW Category D? (If OTP requires On/Off Tracking/Travelling under Live, obtain confirmation from the E&PME this is supported at this stage of the planning process.)	Y	Y	N/A
4. If the answer to Question 2 is 'No', can the task be reasonably completed using ESSOW 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 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 'Site of Work', complete FULL Part 1(e) to provide the supporting justification (* Only complete FULL Part 1(e) if the task is not on the approved list of ESSoW category E tasks)			

Is an Earthed Isolation required?				**(Y/N)**	Y
Is this electrical risk assessment form part of a superseding Earthed Isolation?	**(Y/N)**	N	If yes, provide ERAF reference number for the superseding Electrical Risk Assessment		
Are any of the electrical sections subject to reduced wire height restrictions? *(If **Yes**, check the machine has been suitably assessed and granted location specific authorisation by the E&PME)*				**(Y/N)**	N
Will a site visit (S) or virtual site visit (V) be required to confirm any details of Part 1 of the Electrical Risk Assessment Form or to complete the electrical risk assessment in Appendix A? *(V) Virtual, (S) Site or (N) Not required*				**(V/S/V&S/N)**	S
Will a person with a detailed understanding of the task or task delivery method to be carried out accompany the ERAS on the site visit or virtual site visit?				**(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 content as part of the electrical risk assessment)*					
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

Structure Number	Line(s)	Mitigation/Temporary bonding arrangements

Complete the electrical risk assessment in draft in Appendix A, identifying the residual electrical hazards and proposed Electrical Risk Control Measures		
With the information available at this stage, can the work be completed safely with the selected ESSOW and proposed Electrical Risk Control Measures?	**(Y/N)**	Y

Detail the Electrical Safe System of Work category that can be achieved for the following; on/off tracking, travelling and site of work.

Is an earthed isolation required, This is yes as selected above.

If the isolation is part of a superseding earthed isolation, then an ERAF Part 1 would be needed for each iteration.

Reduced wire height is important for OTP/OTM On/ Off tracking and travelling under live.

Any bonds that need to be removed – This information can be found on the ORF. If there was structure numbers, the lines and mitigation or temporary bonding arrangements should be provided.

It is recommended that someone with a clear understanding of the work attends site with the ERAs.

FULL Part 1(d) – Selection of the Electrical Safe System of Work

Electrical Safe System of Work (ESSoW) Hierarchy and OTP traveling under Live			
Where ESSOW Category L is used, this MUST be authorised by the Responsible Manager of the task being undertaken. Where ESSOW Category L is used in conjunction with category A, the relevant area(s) shall be populated with 'Cat L N/A'	On/Off Tracking Point (Y/N, N/A, Cat L N/A)	Travelling (Y/N, N/A, Cat L N/A)	Site of Work (Y/N, N/A)
1. Can the task be reasonably completed using ESSOW Category A?	N	N	N
2. If the answer to Question 1 is 'No', can the task be reasonably completed using ESSOW Category B?	N	N	Y
3. If the answer to Question 2 is 'No', can the task be reasonably completed using ESSOW Category D? (If OTP requires On/Off Tracking/Travelling under Live, obtain confirmation from the E&PME this is supported at this stage of the planning process.)	Y	Y	N/A
4. If the answer to Question 2 is 'No', can the task be reasonably completed using ESSOW 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 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 'Site of Work', complete FULL Part 1(e) to provide the supporting justification
(* Only complete FULL Part 1(e) if the task is not on the approved list of ESSoW category E tasks)

Is an Earthed Isolation required?				**(Y/N)**	Y
Is this electrical risk assessment form part of a superseding Earthed Isolation?	**(Y/N)**	N	If yes, provide ERAF reference number for the superseding Electrical Risk Assessment		
Are any of the electrical sections subject to reduced wire height restrictions? *(If **Yes**, check the machine has been suitably assessed and granted location specific authorisation by the E&PME)*				**(Y/N)**	N
Will a site visit (S) or virtual site visit (V) be required to confirm any details of Part 1 of the Electrical Risk Assessment Form or to complete the electrical risk assessment in Appendix A? *(V) Virtual, (S) Site or (N) Not required*				**(V/S/V&S/N)**	S
Will a person with a detailed understanding of the task or task delivery method to be carried out accompany the ERAS on the site visit or virtual site visit?				**(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 content as part of the electrical risk assessment)*					
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

Structure Number	Line(s)	Mitigation/Temporary bonding arrangements

Complete the electrical risk assessment in draft in Appendix A, identifying the residual electrical hazards and proposed Electrical Risk Control Measures

With the information available at this stage, can the work be completed safely with the selected ESSOW and proposed Electrical Risk Control Measures?	**(Y/N)**	Y

ERAF FULL Part 1(e) – Completed by the Electrical Risk Assessor. When the Electrical Safe System of Work is lower than Cat A.

FULL Part 1(e) – Justification (To be completed by the Electrical Risk Assessor. Where relevant, Part 1(e) 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)						
Justification Elements		**On/Off Tracking Point (Y/N, N/A, Cat L N/A)**	**Travelling (Y / N / N/A)**	**Site of Work (Y / N / N/A)**	**Justification**	**Elements to consider**
Nature of the work	Does the equipment need to be Live to complete the work?					- Testing for example: Section proving electrical section PA1
Economic impact	Does a lack of all line Earthed Isolation opportunities prevent the work from being carried out under category A?	Y	Y	Y		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?					**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.

Electrical Risk Assessment Form Validation: The ERAS who signs below is responsible for the completion and content of Part 1 of this Electrical Risk Assessment.						
Electrical Risk Assessor (ERAS)	Prepared and approved for use by:	ERAs 1	If this ERAF is to be reviewed by an ERAR, select the reason below:	*Electrical Risk Assessment Reviewer (ERAR)*	Reviewed by:	ERAs 2
	Signature:	ERAs 1			Signature:	ERAs 2
	Sentinel number:	10101742	On/Off/Cross tracking/travelling under Live (Not Category L)		Sentinel number:	1010153
	Date:	20/07/2025			Date:	20/07/2025

Nature of work:
An example of this would be section proving, where the site of work must remain live.

Signature from ERAs and ERAR signature is needed as well.

Economic Impact:
An example of this is where rules of the route do not allow for an earthed isolation in place across all tracks.

Safety Impact:
An example of this is where the risk of different activity such as additional earthing out weights the risk of on/off tracking and travelling under live.

FULL Part 1(e) – Justification (To be completed by the Electrical Risk Assessor. Where relevant, Part 1(e) 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)						
Justification Elements		**On/Off Tracking Point (Y/N, N/A, Cat L N/A)**	**Travelling (Y / N / N/A)**	**Site of Work (Y / N / N/A)**	**Justification**	**Elements to consider**
Nature of the work	Does the equipment need to be Live to complete the work?					- Testing for example: Section proving electrical section PA1
Economic impact	Does a lack of all line Earthed Isolation opportunities prevent the work from being carried out under category A?	Y	Y	Y		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?					**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.

Electrical Risk Assessment Form Validation: The ERAS who signs below is responsible for the completion and content of Part 1 of this Electrical Risk Assessment.						
Electrical Risk Assessor (ERAS)	Prepared and approved for use by:	ERAs 1	If this ERAF is to be reviewed by an ERAR, select the reason below:	*Electrical Risk Assessment Reviewer (ERAR)*	Reviewed by:	ERAs 2
	Signature:	ERAs 1			Signature:	ERAs 2
	Sentinel number:	10101742	On/Off/Cross tracking/travelling under Live (Not Category L)		Sentinel number:	1010153
	Date:	20/07/2025			Date:	20/07/2025

ERAF FULL - Appendix A – Residual electrical hazard identification page and electrical risk control measures to mitigate them.

NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM (FULL) - PART 1

Appendix A - Electrical risk assessment (to be completed by the Electrical Risk Assessor)									
Risk assessment									
Residual Electrical Hazard / Abutting Live Conductors					Electrical Risk Control Measure(s)	Inspection required? (Yes or No)	Notes (including the frequency of inspection where required)	Is the risk from this hazard acceptabl	
Worksite Ref:	Description	Line	From / At	To				Yes	No
11435533	Ajacent Live OLE	Up Fast	G56/02	G57/10	Deliniation & MLD Slew Limiter	N		Y	
81145534	Live OLE Above OTP	Up Northampton into Up Slow	G58/25	G57/10	MLD in Stowed Position	N		Y	
81145535									
81145536									

Worksite Numbers

Electrical risk control measure to mitigate residual electrical hazard.

Whether the Electrical Risk Assessor and Electrical Risk Assessment Reviewer think the hazard is mitigated.

NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM (FULL) - PART 1

Appendix A - Electrical risk assessment (to be completed by the Electrical Risk Assessor)									
Risk assessment									
Residual Electrical Hazard / Abutting Live Conductors					Electrical Risk Control Measure(s)	Inspection required? (Yes or No)	Notes (including the frequency of inspection where required)	Is the risk from this hazard acceptabl	
Worksite Ref:	Description	Line	From / At	To				Yes	No
11435533	Ajacent Live OLE	Up Fast	G56/02	G57/10	Deliniation & MLD Slew Limiter	N		Y	
81145534	Live OLE Above OTP	Up Northampton into Up Slow	G58/25	G57/10	MLD in Stowed Position	N		Y	
81145535									
81145536									

Description of the residual electrical hazards and the lines and limits associated to them.

Whether an inspection of the electrical risk control measure is required by a Nominated Person.

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NetworkRail

Full ERAF – Part 2

NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM (FULL) - PART 2

ERAF FULL Part 2 – Completed by the Lead Earthed Isolation Provider.

ELP/SAI25/ERAF/ Issue 2D	Continuation sheet?	Lead Earthed Isolation Provider	Week Number	ERAF Reference:	If reused, include date from Part 2 of first use:	Revision:
	No	IMDU Bletchley	01	NR-01		1

FULL Part 2(a) – Task and Task Delivery Method details from ERAF Part 1(s)

Are you the person representing the lead Earthed Isolation provider identified on the IPF, who will complete Part 2 of this Electrical Risk Assessment Form? **(Y/N)**

If No, send the approved Part 1 ERAF to the lead Earthed Isolation provider and there is NO FURTHER ACTION required on this form. If Yes, continue below.

ERAF P1 Ref:	Worksite Ref:	Requested Start Date & Time	Requested End Date & Time	OLP Limits Miles & yards		ELR / Line(s) / ATF / RC	Task Details	On/Off - Tracking Access Point	On / Off / Both	Line(s)	Location M	Location yd
NR-01	11435533	19/07/2025 22:40	20/07/2025 06:00	From	56m 00yd	LEC 1 - Up and Down Slow Up and Down Northampton	OLE Dropper Repair & Replacement with SRS on Up Slow Road	Ashton RRAP	Both	Up Northampton into Up Slow	58	400
				To	57m 100yd							
LH-WK01-25	11452029	19/07/2025 22:00	20/07/2025 03:00	From	56m 800yd	LEC 1 - Up and Down Slow Up and Down Northampton	Signal Maintenance for HN5282		Select			
				To	56m 980yd							
				From					Select			
				To								
				From					Select			
				To								
				From					Select			
				To								

FULL Part 2(b) - Electrical sections, lines and limits published in the IPF

Electrical section(s) required to implement the isolation	Line(s) / ATF	Electrical section limit structures: From	To
LA - 7 A, B	Up Slow and Up Northampton	G52/35B	G58/11
LA - 8 H, K	Down Slow and Down Northampton	G52/35B	G58/11
LA - AF3A	Up ATF	G52/34B	G58/11

FULL Part 2(c) - Overhead Line Permit Along Track Limits

Worksite Ref:	Line(s) / ATF / RC	OLP Along-Track Limits & RoLE Limit structures: From	To	Type of RoLE at ATL From	To	Test Before Touch Method?	Issue at Site of Work?	ESSOW Category
11435533	Up Slow and Up Northampton & ATF	G56/02	G57/10	Aerial	Aerial	Method 1	No	B
	Down Slow and Down Northampton	G56/02	G57/11	Aerial	Aerial	Method 1	No	D
11452029	Up Slow and Up Northampton & ATF	G56/40	G56/49	N/A	N/A	Method 1	No	B
	Down Slow and Down Northampton	G56/40	G56/49	N/A	N/A	Method 1	No	

For the Part 1 of the Full ERAF, multiple nights work are acceptable as long the work activity and location is the same.

Part 2 of the ERAF needs to be individual for each night.

Continuation sheet – If used just detail yes / no, and attach to the back.

Electrical Risk Assessor Company filling out the ERAF. (Lead Earthed Isolation Provider)

Week Number copied from Part 1

ERAF Reference from Part 1

If reused, detail date from previous Electrical Risk Assessment Form – Should be within 12 months if being renewed, as long as the work location and type is identical.

ELP/SAI25/ERAF/ Issue 2D	Continuation sheet?	Lead Earthed Isolation Provider	Week Number	ERAF Reference:	If reused, include date from Part 2 of first use:	Revision:
	No	IMDU Bletchley	01	NR-01		1

FULL Part 2(a) – Task and Task Delivery Method details from ERAF Part 1(s)

Are you the person representing the lead Earthed Isolation provider identified on the IPF, who will complete Part 2 of this Electrical Risk Assessment Form? (Y/N)
If No, send the approved Part 1 ERAF to the lead Earthed Isolation provider and there is NO FURTHER ACTION required on this form. If Yes, continue below.

ERAF P1 Ref:	Worksite Ref:	Requested Start Date & Time	Requested End Date & Time	OLP Limits Miles & yards		ELR / Line(s) / ATF / RC	Task Details	On/Off - Tracking Access Point	On / Off / Both	Line(s)	Location M	Location yd
NR-01	11435533	19/07/2025 22:40	20/07/2025 06:00	From	56m 00yd	LEC 1 - Up and Down Slow Up and Down Northampton	OLE Dropper Repair & Replacement with SRS on Up Slow Road	Ashton RRAP	Both	Up Northampton into Up Slow	58	400
				To	57m 100yd							
LH-WK01-25	11452029	19/07/2025 22:00	20/07/2025 03:00	From	56m 800yd	LEC 1 - Up and Down Slow Up and Down Northampton	Signal Maintenance for HN5282		Select			
				To	56m 980yd							
				From					Select			
				To								
				From					Select			
				To								
				From					Select			
				To								

Information in Part 2(a) will be copied from Part 1 along with any other work that it can be combined with.

Ensure the person filling in the Part 2 is the Lead Earthed Isolation Provider. If not send the ORF and ERAF part 1 to the lead earthed isolation provider

The revision number is updated for any updates to the form.

Electrical sections, lines and limits – these are the ones published in the IPF. This may get larger or smaller depending on what the Route Isolation Planner can achieve after the Route Isolation Planner has looked at all the work requests.

The Issue at Site of Work could change if the isolation changes by getting bigger or smaller.

FULL Part 2(b) - Electrical sections, lines and limits published in the IPF				FULL Part 2(c) - Overhead Line Permit Along Track Limits								
Electrical section(s) required to implement the isolation	Line(s) / ATF	Electrical section limit structures:		Worksite Ref:	Line(s) / ATF / RC	OLP Along-Track Limits & RoLE				Test Before Touch Method?	Issue at Site of Work?	ESSOW Category
						Limit structures:		Type of RoLE at ATL				
		From	To			From	To	From	To			
LA - 7 A, B	Up Slow and Up Northampton	G52/35B	G58/11	11435533	Up Slow and Up Northampton & ATF	G56/02	G57/10	Aerial	Aerial	Method 1	No	B
LA - 8 H, K	Down Slow and Down Northampton	G52/35B	G58/11		Down Slow and Down Northampton	G56/02	G57/11	Aerial	Aerial	Method 1	No	D
LA - AF3A	Up ATF	G52/34B	G58/11									
				11452029	Up Slow and Up Northampton & ATF	G56/40	G56/49	N/A	N/A	Method 1	No	B
					Down Slow and Down Northampton	G56/40	G56/49	N/A	N/A	Method 1	No	

ERAF Full Part 2(c) details the Overhead Line Permits to be issued with the associated Along-Track Limits and RoLE equipment.

Test Before Touch Method might come with a recommendation but could be altered.

ERAF FULL Part 2(d) – Completed by the Lead Earthed Isolation Provider with support from the work requestor.

FULL Part 2(d) – On/Off Tracking or/and Travelling under Live ((if applicable) to be completed by the Electrical Risk Assessor with support from the Work Requestor)						
Worksite Ref:	Access location (ELD, Mileage, OLE Structure Number)	What is the minimum wire height at the access? (mm)	Is the approach to track level at the Access (on-tracking) location?	What is the minimum wire height and location through the travelled distance? (mm)	Egress location (ELD, Mileage, OLE Structure Number)	What is the minimum wire height at the Egress? (mm)
11435533	Ashton RRAP	4600	Yes	4600	Ashton RRAP	4600

Worksite Ref:	Machine Type	Machine Supplier	12 Digit Number	ECC reference	MLD (Y/N)	OTP Max Height (mm)	Standing Surface Max Height (mm)	Comments
11435533	SRS	Mach Supp 24/7	1234567891011	ECC123	Y	3300	3300	

Worksite Ref:	ELR	Lines Affected	Start Mileage	End Mileage	Start OLE Structure	End OLE Structure
11435533	LEC 1	Up Slow & Up Northampton	58m 400yds	57m 100yds	G58/20	G57/10

Electrification and Plant Maintenance Engineer or Delegated Authority: I confirm that I have reviewed and approve the on/off tracking and/or travelling activities stated above.

Endorsed by:	An EPME	Signature:	An EPME	Sentinel number:	658758756	Date:	19/08/2025

Have there been changes to the content in this ERAF from Part 1? (Combining ERAFs does not constitute as a change) (If Yes, detail below the changes and up revision this ERAF)	**(Y/N)**	N

Description of changes:

The Lead Earthed Isolation Provider completes the on / off tracking / travelling with the support of the work requestor.
The ERAs need endorsement from the Electrification & Plant Maintenance Engineer.

FULL Part 2(d) – On/Off Tracking or/and Travelling under Live ((if applicable) to be completed by the Electrical Risk Assessor with support from the Work Requestor)

Worksite Ref:	Access location (ELD, Mileage, OLE Structure Number)	What is the minimum wire height at the access? (mm)	Is the approach to track level at the Access (on-tracking) location?	What is the minimum wire height and location through the travelled distance? (mm)	Egress location (ELD, Mileage, OLE Structure Number)	What is the minimum wire height at the Egress? (mm)
11435533	Ashton RRAP	4600	Yes	4600	Ashton RRAP	4600

Worksite Ref:	Machine Type	Machine Supplier	12 Digit Number	ECC reference	MLD (Y/N)	OTP Max Height (mm)	Standing Surface Max Height (mm)	Comments
11435533	SRS	Mach Supp 24/7	1234567891011	ECC123	Y	3300	3300	

Worksite Ref:	ELR	Lines Affected	Start Mileage	End Mileage	Start OLE Structure	End OLE Structure
11435533	LEC 1	Up Slow & Up Northampton	58m 400yds	57m 100yds	G58/20	G57/10

Electrification and Plant Maintenance Engineer or Delegated Authority: I confirm that I have reviewed and approve the on/off tracking and/or travelling activities stated above.

Endorsed by:	An EPME	Signature:	An EPME	Sentinel number:	658758756	Date:	19/08/2025

Have there been changes to the content in this ERAF from Part 1? (Combining ERAFs does not constitute as a change) (If Yes, detail below the changes and up revision this ERAF)	**(Y/N)**	N

Description of changes:

There are no changes from the ERAF FULL Part 1 – This might be the case if an emergency earthed isolation needs to take place and this earthed isolation needs to be shortened, or any other changes (something more significant) i.e. change to work, then a new ERAF Part 1 would be required.

ERAF FULL Part 2 – Completed by the Lead Earthed Isolation Provider after completing Appendix A.

NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM (FULL) - PART 2

FULL Part 2(e) – 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)**	Y
Are drawings, diagrams or sketches included as part of this electrical risk assessment?	**(Y/N)**	N
Is 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.	**(Y/N)**	N
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

Structure Number	Line(s)	Mitigation/Temporary bonding arrangements

Has the site visit been waived? *(If **Yes**, and this is not ESSoW Category A, provide a justification of why a site visit is not required below, which shall be reviewed by an ERAR.)*	**(Y/N or N/A)**	N
Can the work be completed safely with the proposed Electrical Safe System of Work and Electrical Risk Control Measures in place? (If No, detail below the action required to replan the task)	**(Y/N)**	Y

Short notice Earthed Isolations: Guide questions -
This section shall be completed for short notice Earthed Isolations only in accordance with the requirements of NR/L3/ELP/SAI25 module 2

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?	**(Y/N)**	
Have all residual electrical hazards e.g. abutting live conductors and residual electrical hazard been identified?	**(Y/N)**	
Are the Electrical Risk Control Measures identified suitable and sufficient?	**(Y/N)**	
Are the necessary competences and resources available to complete the task(s) required?	**(Y/N)**	

Electrical Risk Assessment Form Validation: The ERAS who signs below accepts overall accountability for this Electrical Risk Assessment and ESSoW.

Electrical Risk Assessor (ERAS)	Prepared and approved for use by:	A N ERAs	If this ERAF is to be reviewed by an ERAR, select the reason below:	*Electrical Risk Assessment Reviewer (ERAR)*	Reviewed by:	Another ERAs
	Signature:	A N ERAs			Signature:	Another ERAs
	Sentinel number:	16546546	On/Off/Cross tracking/travelling under Live (Not Category L)		Sentinel number:	13256446
	Date:	20/08/2025			Date:	20/08/2025

The red box is asking you to go straight to Appendix A.

Are there and any requirements to inspect any electrical risk control measures This will be identified in Appendix A.

Drawings and diagrams are recommended but not compulsory.

FULL Part 2(e) – 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)**	Y
Are drawings, diagrams or sketches included as part of this electrical risk assessment?	**(Y/N)**	N
Is 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.	**(Y/N)**	N
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

Structure Number	Line(s)	Mitigation/Temporary bonding arrangements

Has the site visit been waived? *(If **Yes**, and this is not ESSoW Category A, provide a justification of why a site visit is not required below, which shall be reviewed by an ERAR.)*	**(Y/N or N/A)**	N
Can the work be completed safely with the proposed Electrical Safe System of Work and Electrical Risk Control Measures in place? (If No, detail below the action required to replan the task)	**(Y/N)**	Y

Short notice Earthed Isolations: Guide questions - This section shall be completed for short notice Earthed Isolations only in accordance with the requirements of NR/L3/ELP/SAI25 module 2		
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?	**(Y/N)**	
Have all residual electrical hazards e.g. abutting live conductors and residual electrical hazard been identified?	**(Y/N)**	
Are the Electrical Risk Control Measures identified suitable and sufficient?	**(Y/N)**	
Are the necessary competences and resources available to complete the task(s) required?	**(Y/N)**	

Electrical Risk Assessment Form Validation: The ERAS who signs below accepts overall accountability for this Electrical Risk Assessment and ESSoW.

Electrical Risk Assessor (ERAS)	Prepared and approved for use by:	A N ERAs	If this ERAF is to be reviewed by an ERAR, select the reason below:	*Electrical Risk Assessment Reviewer (ERAR)*	Reviewed by:	Another ERAs
	Signature:	A N ERAs			Signature:	Another ERAs
	Sentinel number:	16546546	On/Off/Cross tracking/travelling under Live (Not Category L)		Sentinel number:	13256446
	Date:	20/08/2025			Date:	20/08/2025

Information from the ORF will show if any bonds are affected. If there was structure numbers, the lines and mitigation or temporary bonding arrangements should be provided.

If this needs to be waived for any reason, An ERAR will need to sign the ERAF Part 2.

ERAs and ERAR signatures and information.

Short notice earthed isolation questions to be completed by the ERAs.

Can this work be completed safely, if not then it needs to be replanned.

ERAF FULL Part 2 – Appendix A.

NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM (FULL) - PART 2

Appendix A - Electrical risk assessment (to be completed by the Electrical Risk Assessor)									
Risk assessment									
Residual Electrical Hazard / Abutting Live Conductors					Electrical Risk Control Measure(s)	Inspection required? (Yes or No)	Notes (including the frequency of inspection where required)	Is the risk from this hazard acceptable	
Worksite Ref:	Description	Line	From / At	To				Yes	No
11435533	Ajacent Live OLE	Up Fast	G56/02	G57/10	Deliniation & MLD Slew Limiter	N		Y	
	Live OLE above OTP	Up Northampton into Up Slow	G58/25	G57/10	MLD in Stowed Position	N		Y	
11452029	Ajacent Live OLE	Up Fast	G56/02	G57/10	Deliniation	N		Y	

Description of the residual electrical hazards and the lines and limits associated to them.

Whether an inspection is required by a Nominated Person.

Electrical Risk Control Measure(s) to mitigate electrical hazard.

Whether the Electrical Risk Assessor & Electrical Risk Assessment Reviewer think the hazard is mitigated.

Worksite Numbers

NETWORK RAIL ELECTRICAL RISK ASSESSMENT FORM (FULL) - PART 2

Appendix A - Electrical risk assessment (to be completed by the Electrical Risk Assessor)									
Risk assessment									
Residual Electrical Hazard / Abutting Live Conductors					Electrical Risk Control Measure(s)	Inspection required? (Yes or No)	Notes (including the frequency of inspection where required)	Is the risk from this hazard acceptable	
Worksite Ref:	Description	Line	From / At	To				Yes	No
11435533	Ajacent Live OLE	Up Fast	G56/02	G57/10	Deliniation & MLD Slew Limiter	N		Y	
	Live OLE above OTP	Up Northampton into Up Slow	G58/25	G57/10	MLD in Stowed Position	N		Y	
11452029	Ajacent Live OLE	Up Fast	G56/02	G57/10	Deliniation	N		Y	

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Any questions?

For more information, please visit

Electrical Safety - Safety Central (networkrail.co.uk)

or contact the team

ESDCommunication@networkrail.co.uk