



Self-Determination Point of Connection webinar

8 July 2020

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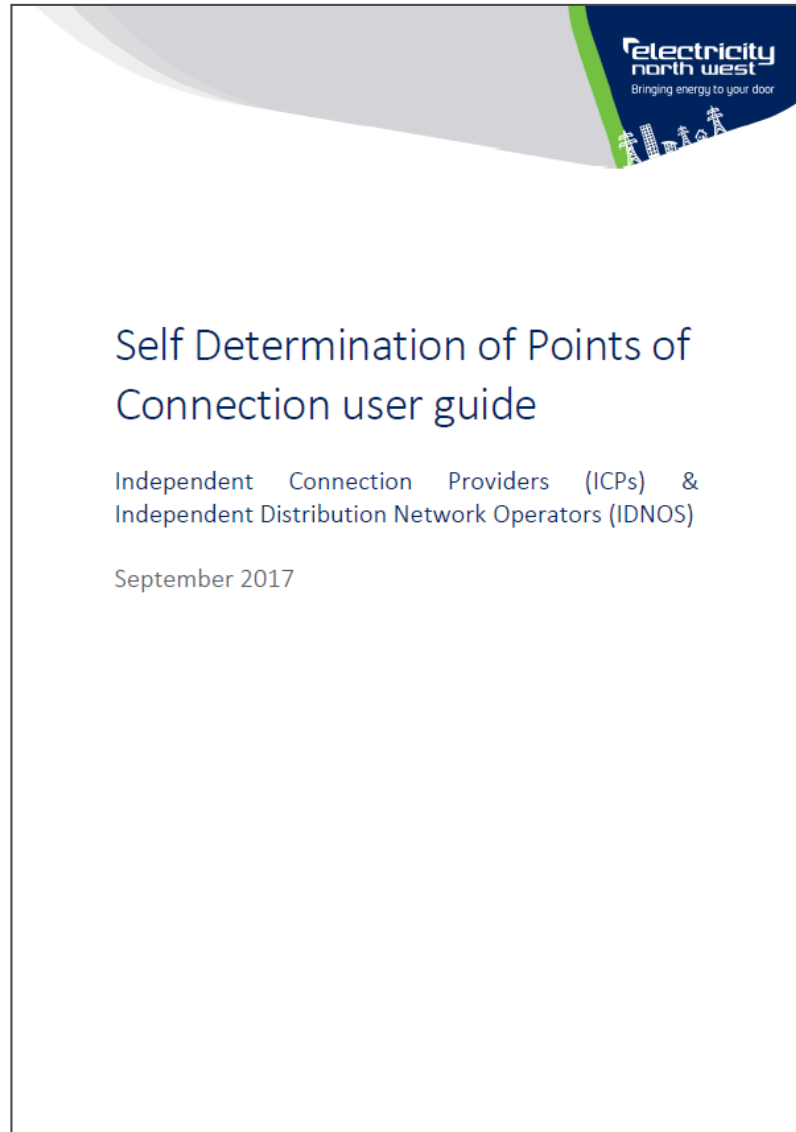


- Introductions
- What we have done
- Prerequisites
- Process for SDPoC

- First Pass Check
- Network Information
- Network Integrity Checks
- Standard Design Matrix
- Network Policies
- Resources



- Up front charging of A&D fees
- Processes
- Information sharing
- User Guides
- [/www.enwl.co.uk](http://www.enwl.co.uk)





- Prerequisites

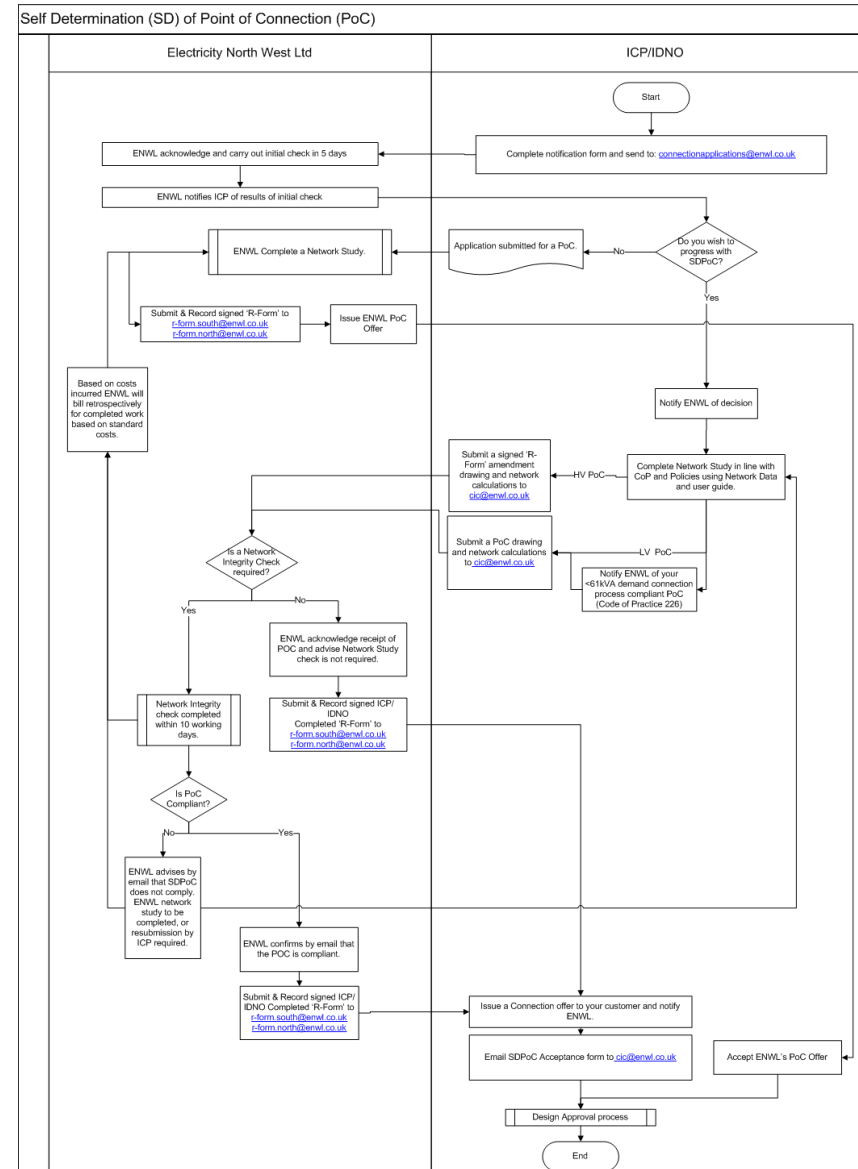
- You have NERS Accreditation
- You accept the Risk
- You produce the Minimum Cost Design



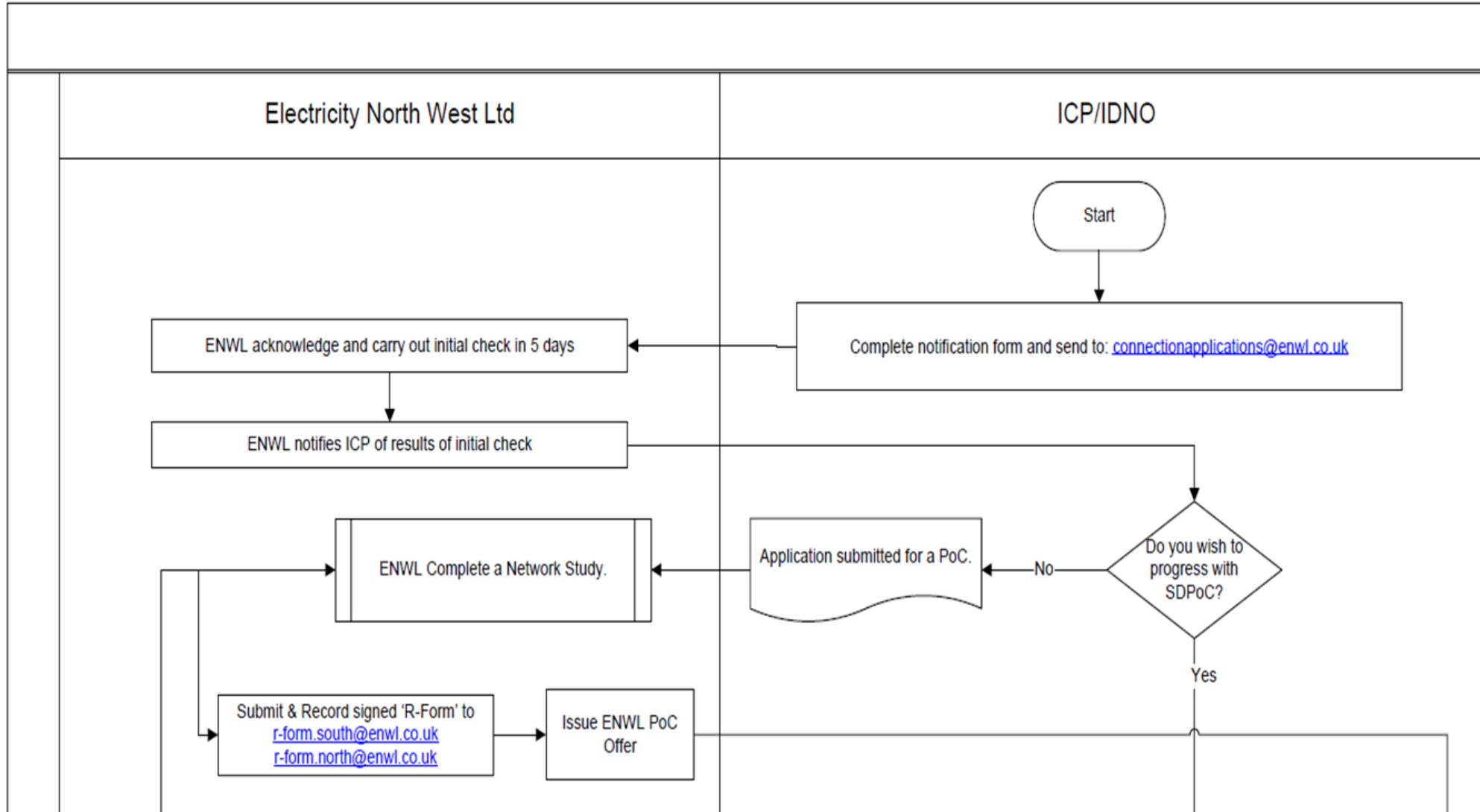
Process for SDPoC



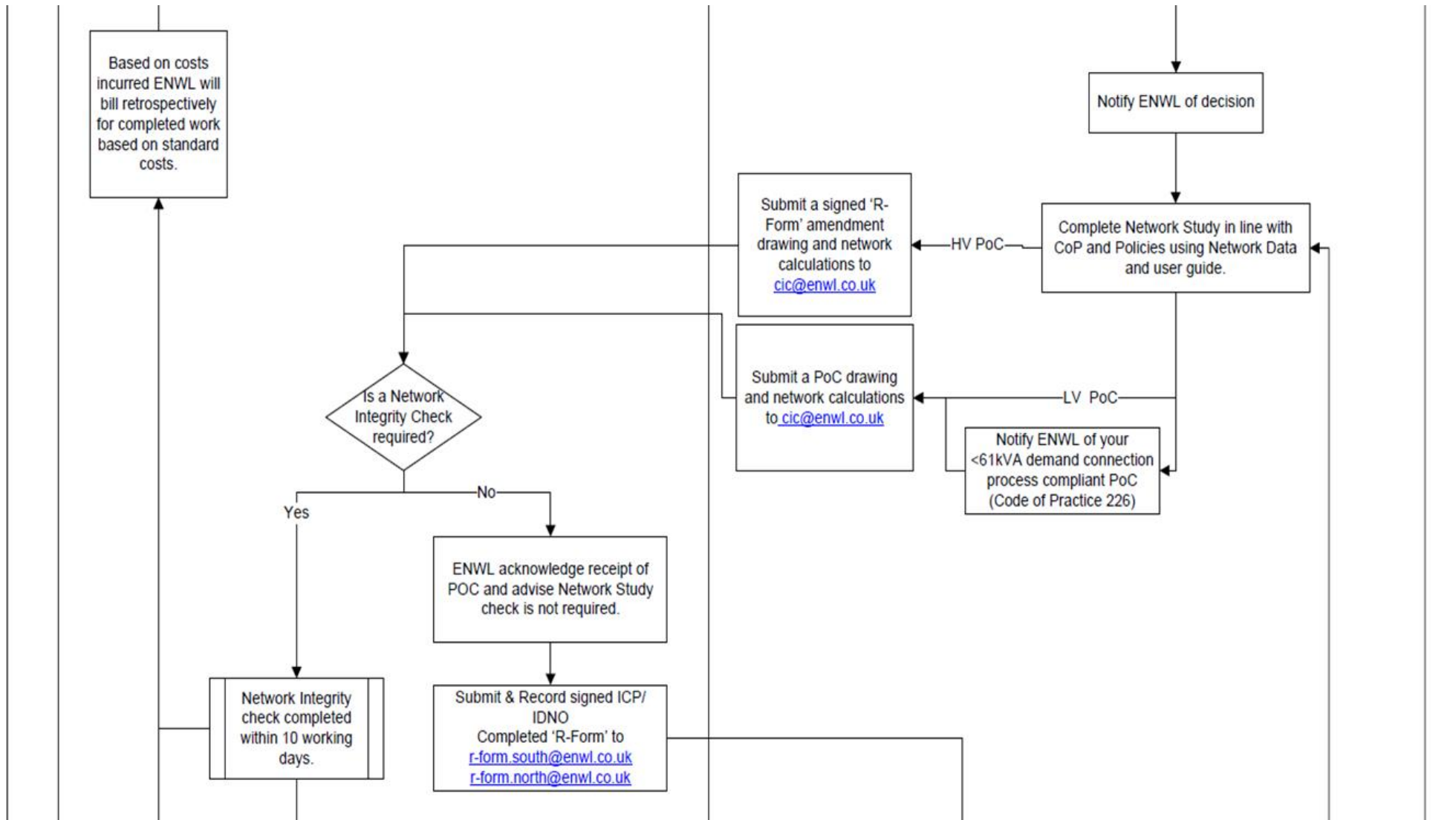
<https://www.enwl.co.uk/globalassets/get-connected/cic/icpsidnos/contestable-activities/sdpoc-user-guide-v2-1.pdf>



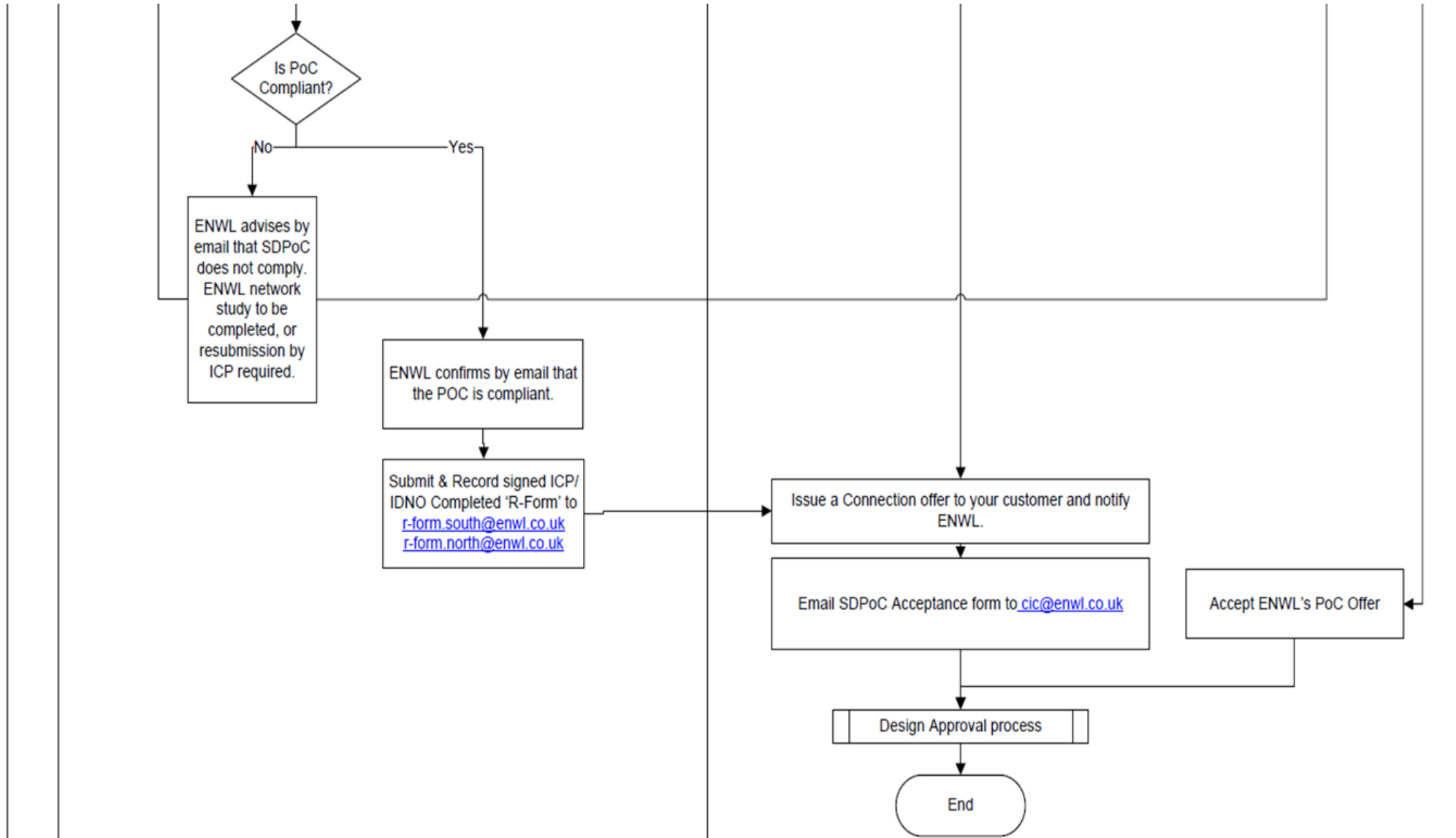
Process Walkthrough



Process Walkthrough continued



Process Walkthrough concluded



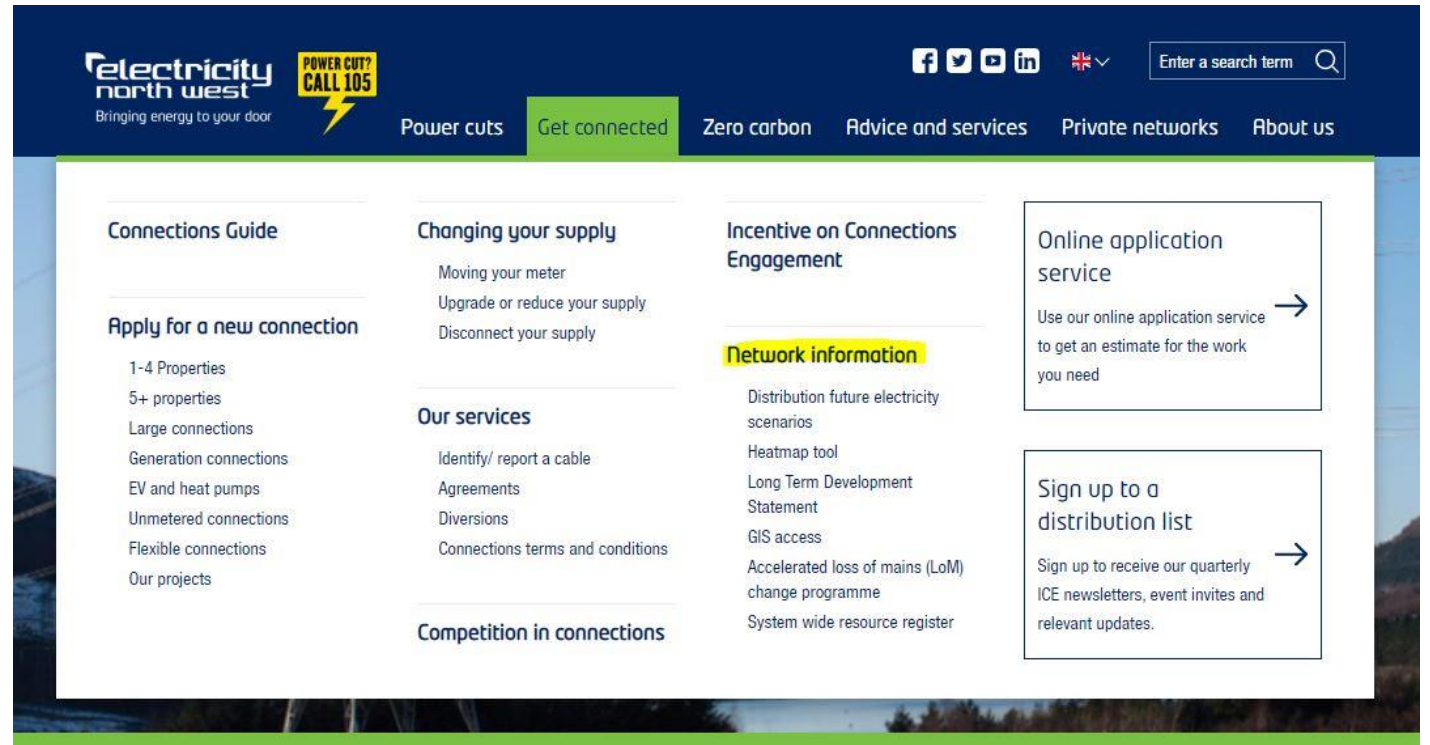


- ✓ Do we already have a PoC for this site?
 - ✓ Is there interactivity within this area?
 - ✓ Is this site surrounded by heavily loaded network?
 - ✓ Are there any other known issues in that area of the network?
- ✗ We will not undertake a full or thorough network study.



Within our secure area of our website you can access:

- Network Development proposals
- Fault Level information
- Load information
- Transformer data
- Circuit data
- Schematic diagrams
- Geographical plans
- HV Network information
- Distribution substation information





Voltage	Type	Conditions for Network Integrity check
Extra High Voltage (33kV & 132kV)	Demand, generation or mixed	All submissions will be subject to a network integrity check
High Voltage	Demand, generation or mixed	All submissions >500kVA will be subject to a network integrity check*
Low Voltage	Demand, generation or mixed	All submissions >100kVA or >25% feeder rating will be subject to a network integrity check
Low Voltage	Demand, generation or mixed	No check required for submissions <100kVA

Table 1: Network Integrity check matrix

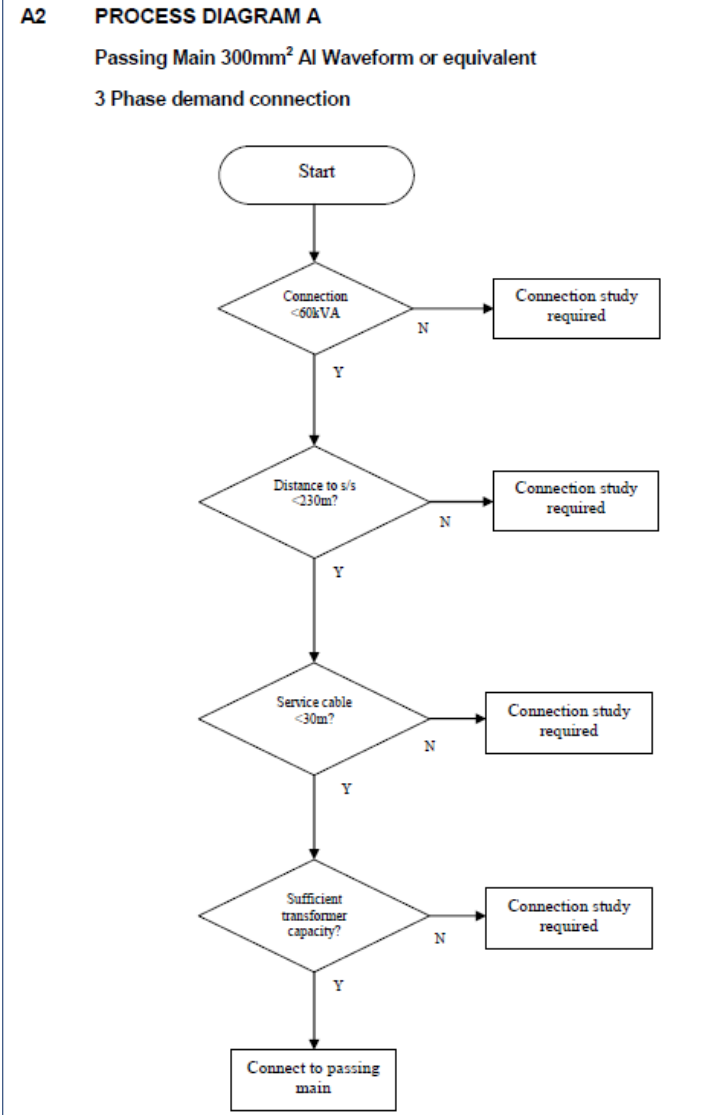
Standard Design Matrix



- Code of Practise 226 – Low Voltage Network Design

Suitable for:

- For 3 phase loads up to 60kVA
- For single phase loads up to 20kVA
- For new loads only
- Motor loads included but not welding equipment, disturbing loads, or loads typically known to contribute harmonic currents
- Applies to urban networks only (all cable)



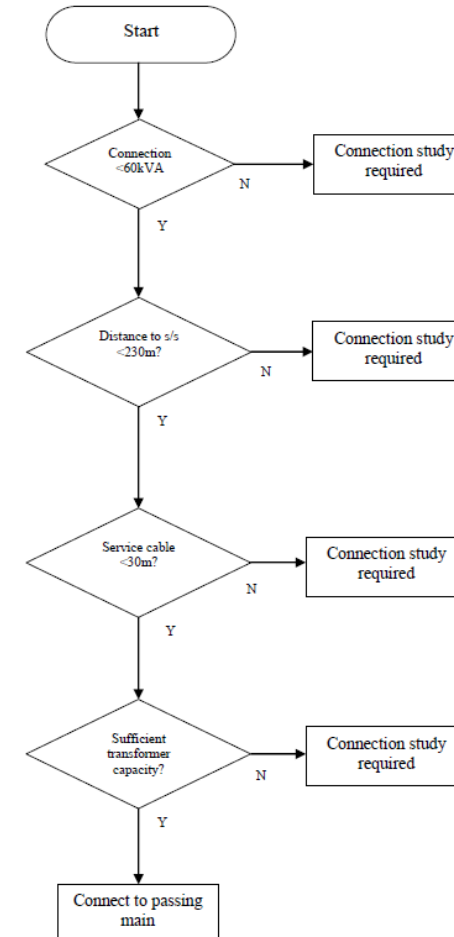


- Connection less than 60kVA? YES
- LV massing main 3c300WF all the way back to substation.
- Distance from Substation less than 230m? YES
- Service cable less than 30m? YES
- Sufficient spare capacity on transformer? YES
- **All CP226 checks satisfied therefore connection can be taken from the passing main without full network study.**

A2 PROCESS DIAGRAM A

Passing Main 300mm² Al Waveform or equivalent

3 Phase demand connection





- G81 web page / Policy Library
<https://www.enwl.co.uk/get-connected/competition-in-connections/info-for-icpsidnos/g81-policies/>



Bringing energy to your door

3. Network Policy

All proposed points of connection need to be compliant with all of our network policies. If you wish to determine the point of connection yourself, you will need to make sure that the design you submit for a new connection complies with all of our network policies. The full list of applicable policies is listed on our website [here](#). All points of connection, irrespective of type and voltage will need to be compliant with the following 'common' policies.

- CP012 Electricity Geographical Information System (GIS)
- EPD279 Distribution System Design – General Requirements
- EPD307 Equipment Approved for use on the ENW Network
- EPD350 Protection of 132kV, 33kV, 11kV and 6.6kV Systems
- ES281 Company Specific Appendices to ENA ER G81
- ES287 Connections to Multi Occupancy Buildings
- ES225 Connections to Embedded Distribution Networks
- CP259 Generation Connected to the ENW Network
- EPD259 Generation Connected to the ENW Network
- ES259 Generation Connected to the ENW Network
- CP258 Connection of Industrial and Commercial Customers
- CP203 Current Ratings of Underground Cables
- CP206 Current Ratings of Overhead Line Conductors
- EPD370 Voltage Control for 132kV, 33kV, 11kV and 6.6kV Systems
- CP285 – R Form Process – Request for Alteration to the HV system

However, we have identified several policies which are specific to types of connection and voltages for your reference.¹ You can refer to our online library for the latest versions of the below policies: <http://www.enwl.co.uk/about-us/long-term-development-statement/policies-and-technical-references>

Voltage level	Relevant Policy Documents
HV	ES218 Connections up to 240MVA
	ES217 33kV Connections up to 90MVA
	EPD282 Distribution System Design – HV Network
	EPD281 Distribution System Design – 33kV Network
HV and LV	CP282 Distribution System Design – HV Network
	ES214 Third Party Provided New LV Connections up to 300kVA
LV	EPD283 Distribution System Design – LV Network
	ES212 New Whole Current metered connections up to 60kVA
	ES213 Design of new Connections for Housing Developments
	CP226 LV Network Design
	CP331 Protection of LV Distributors and Distribution Transformers
	CP332 LV Service Connections and Application of PME
	CP221 LV Network Design for Domestic Premises with Micro Generation

Table 2: Network policies relative to voltage



Notification for Self-Determination of Point of Connection



If you need any help filling in the application form below please contact our office on 0800 048 1820 or email connectionapplications@enwl.co.uk. You can also visit www.enwl.co.uk for further information.

Preferred method of communication: ☐ Phone ☐ SMS ☐ Email ☐ Post

Section 1 - Notification of ICP/DNO self-determination of Point of Connection (PoC)

ICP/DNO details

Company Name / Contact Name

Address

Post Code

Landline Number

Mobile Number

Email Address

Section 2 - Site Details

Site Name

Address

Post Code

Grid reference or X co-ordinates

Y co-ordinates

You can convert a post code to a grid reference and / or put a pin on a map indicating your supply position and realise your X & Y coordinates using websites such as <http://www.gridreferencefinder.com> or <http://www.streetmap.co.uk/>. Please include a polygon showing the location / size of the development or a full site plan.

Section 3 - Type of Supply

ICP Point of Connection - new asset to be owned by DNO ☐

DNO Point of connection - new asset to be owned by DNO ☐

Section 4 - Import and Export Load Details

	Number of connections	Import Load (kW)	Export Load (kW)	Comments
Commercial				
Domestic				
Total				

Section 5 - Confirmation of Compliance

This is to confirm that I will undertake all necessary network studies using information provided and will submit a network PoC which is compliant to all relevant policies. I will provide all required information to allow Electricity North West Ltd. to undertake a Network Integrity check.

Name

Signature

Date

On completion, the application form and plans should be sent to:
Energy Solutions, Electricity North West, Frederick Road, Salford, M6 6QH
or email to connectionapplications@enwl.co.uk



A stylized graphic featuring white silhouettes of power lines and buildings against a dark blue background. The elements are arranged in a row, with a green hill-like shape rising behind them.

[illegible][illegible]



Data Management Symbology



SDPoC Acceptance Form



Self-Determination of Point of Connection Acceptance Form



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Section 1 - Customer Details	
ICP / IDNO Company Name	Our Ref:
Project Title	
Site Address	
Post Code	

I acknowledge and agree that the Point of Connection I have determined is in compliance with all relevant Electricity North West Ltd. policies. I have read all relevant policies and followed guidance provided in the User Guide. To the best of my knowledge based on the information provided the Point of Connection will not adversely affect other customers or assets. I confirm that I am in contract with a customer to utilise this PoC. I confirm that this scheme is to be constructed in a timescale outlined in the Electricity North West Limited General Conditions of Contract (business) can be viewed at <http://www.enwl.co.uk/our-services/connection-services/help-faq>.

I acknowledge that I must appoint an electricity supplier to the site before the connection's can be made live.

I acknowledge that I will be liable for any costs or damages, caused directly or indirectly from the Point of Connection should it be non-compliant.

Name: _____ Date: _____

Signature of ICP / IDNO: _____

Section 2 - Wayleave Details	
<input type="checkbox"/> Tick if this PoC and proposed design are subject to legal consent	
Name and Address of Landowner	
Address	
Post Code	
Landowner Telephone	
If there are multiple Landowners, please provide additional details.	

Section 3 - Design Approval Details	
If you are going to self approve your own design in line with the Competition in Connections Code of Practice and Electricity North West Ltd's User Guide please confirm below:	
Method of Design Approval (please tick as appropriate) <input type="checkbox"/> Self-Approval <input type="checkbox"/> Electricity North West Ltd. approval	

On completion, please return to:
Energy Solutions, Electricity North West, Frederick Road, Salford, M6 6QH
or email to connectionapplications@enwl.co.uk





- ENWL's Self Determination of Point of Connection web page
<https://www.enwl.co.uk/get-connected/competition-in-connections/info-for-icpsidnos/contestable-activities/self-determination-of-poc/>

Download our user guide		Contact us		Notify us		Adoption agreements	
Find out how to get started and our process for self-determination of PoC.		If you have any specific questions about the process, get in touch with us.		Complete our notification form to let us know you wish to self-determine a Point of Connection (PoC).		View and download our master adoption agreement and appendices.	
Download →		Contact us →		Download →		Read more →	

MP4	ENWL Self-determination of PoC training webinar Dec 2017. mp4 46.0 MB - 22nd May 2018		PDF	self-determination acceptance form 83.6 KB - 10th Jul 2017	
PDF	SDPoC User Guide v2 1 695.8 KB - 16th Aug 2017		PDF	self-determination notification form 123.0 KB - 10th Jul 2017	
PNG	Network integrity check image 22.1 KB - 10th Jul 2017		PDF	ENWL-underground-assets-v3 7.2 MB - 10th Jul 2017	
PNG	SDPoC flow process image 8.2 KB - 10th Jul 2017		PDF	ENWL-symbolology guide-v6 2.4 MB - 10th Jul 2017	
XLS	LV SDPoC-drawing 284.0 KB - 10th Jul 2017		XLSM	r-form-template 843.9 KB - 10th Jul 2017	