



# Self-Determination of Points of Connections

17<sup>th</sup> November 2020

Jonathan Cropper

Stay connected...



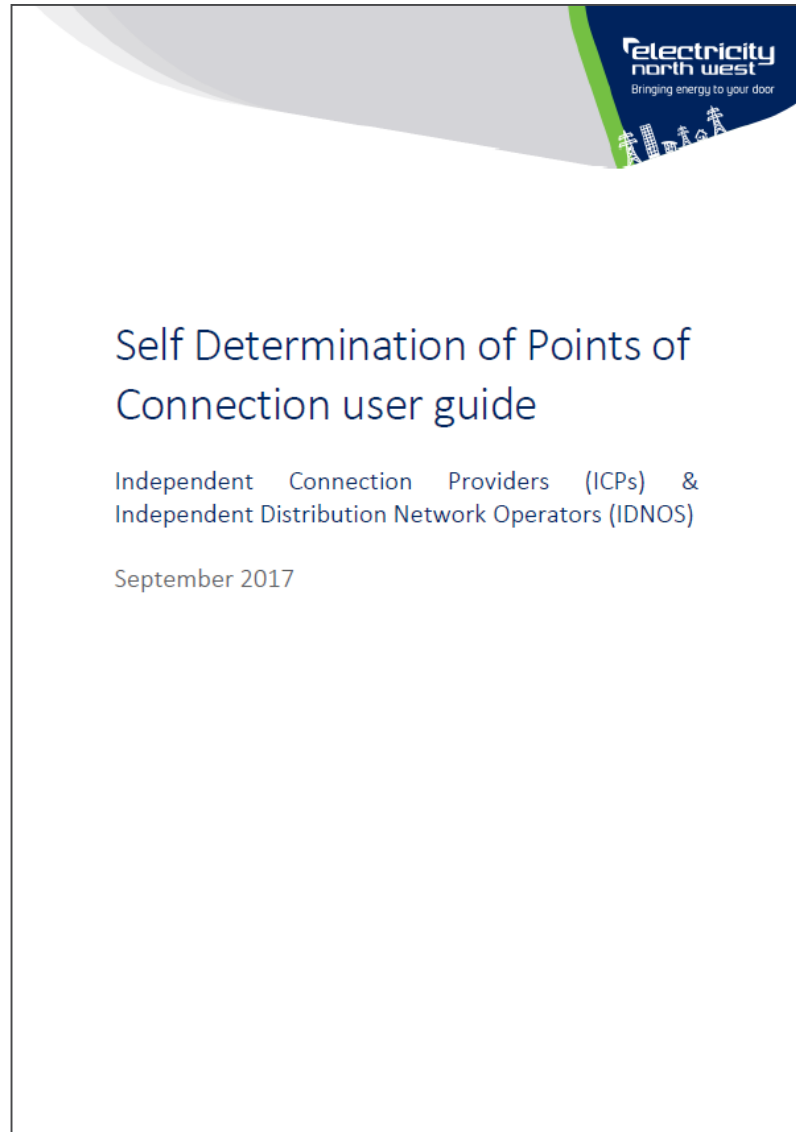
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- Introductions
- What we have done
- Prerequisites
- Process for SDPoC
  
- First Pass Check
- Network Information
- Network Integrity Checks
- Standard Design Matrix
- Network Policies
- Resources

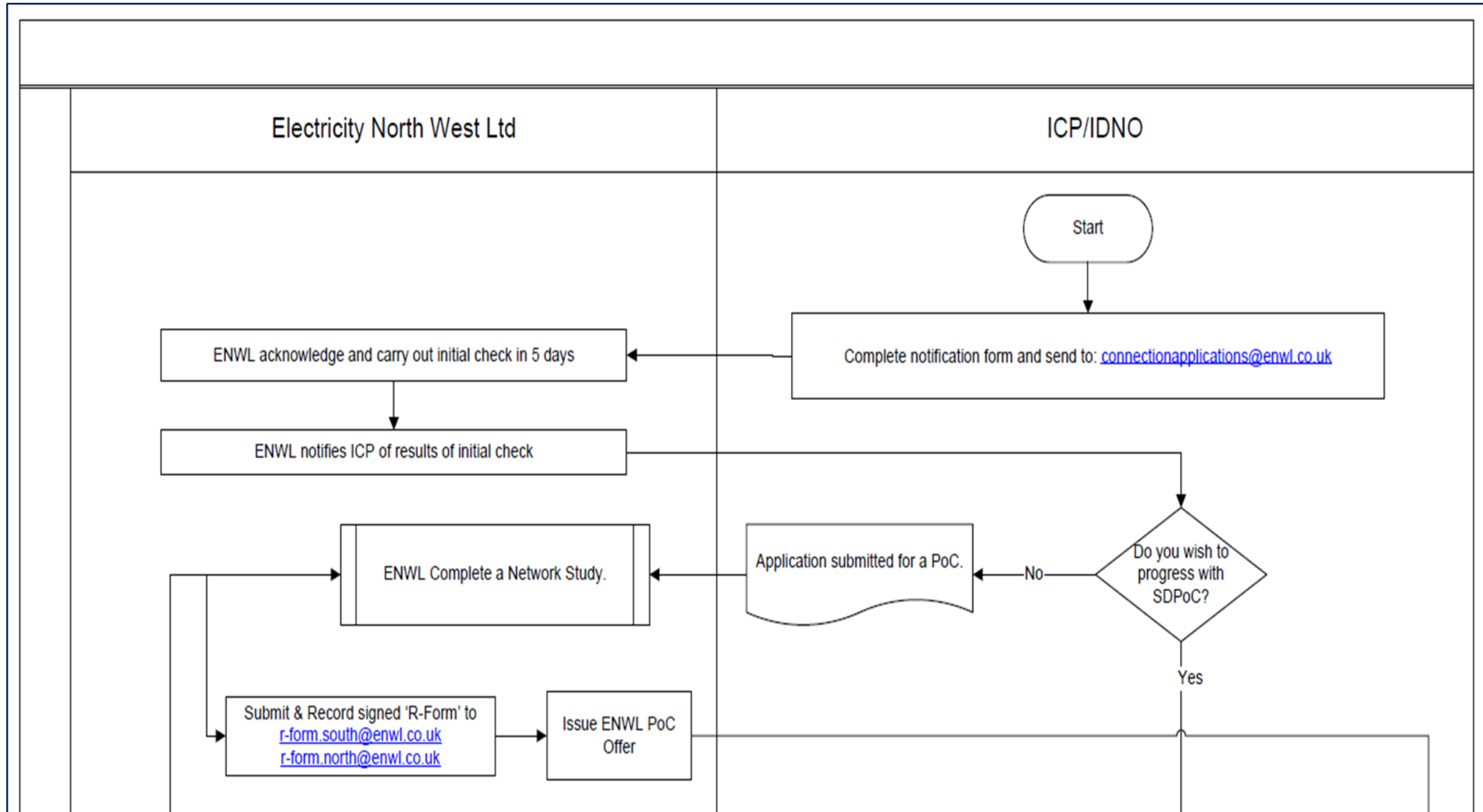


- Up front charging of A&D fees
- Processes
- Information sharing
- User Guides
- [/www.enwl.co.uk/SDPoC](http://www.enwl.co.uk/SDPoC)

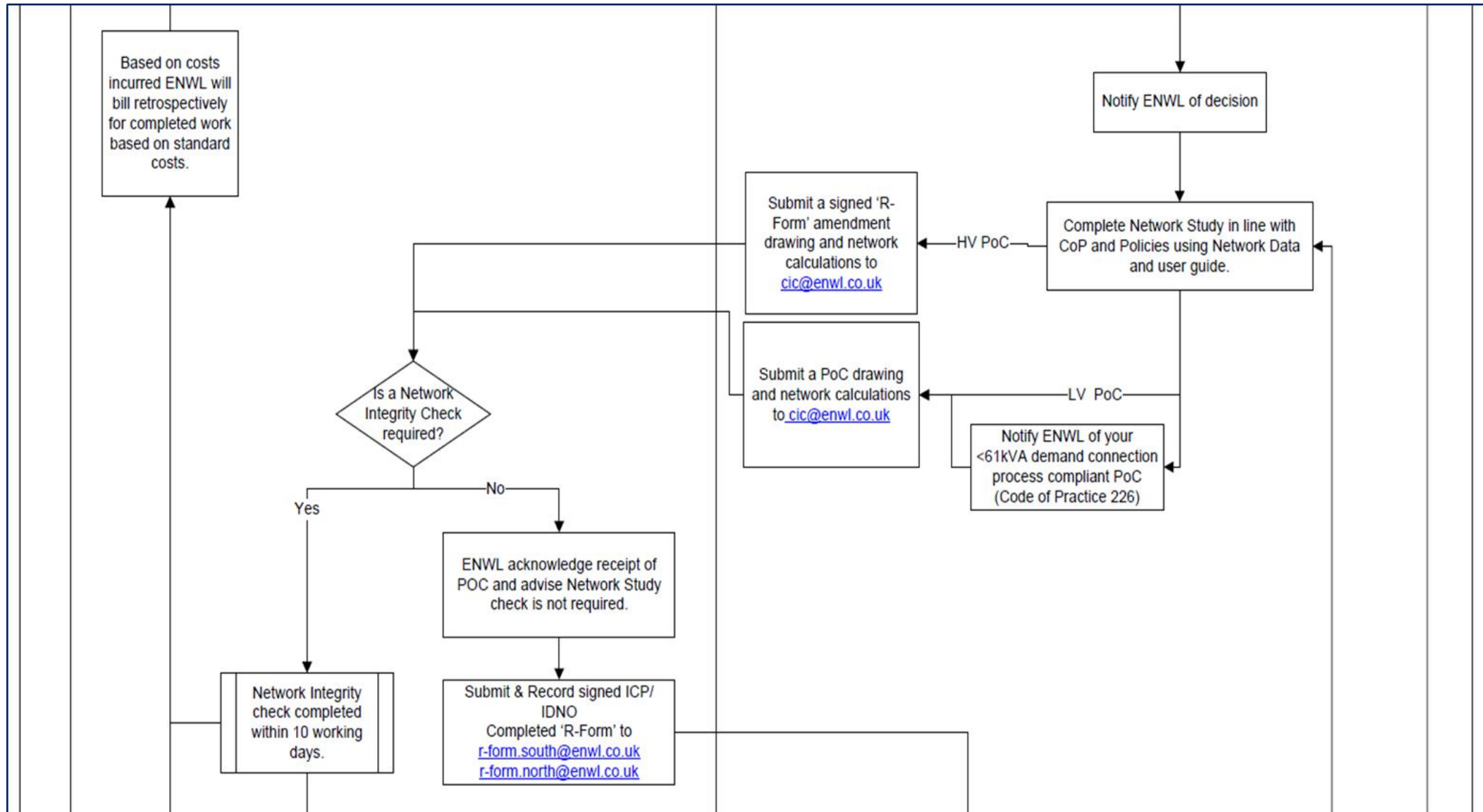




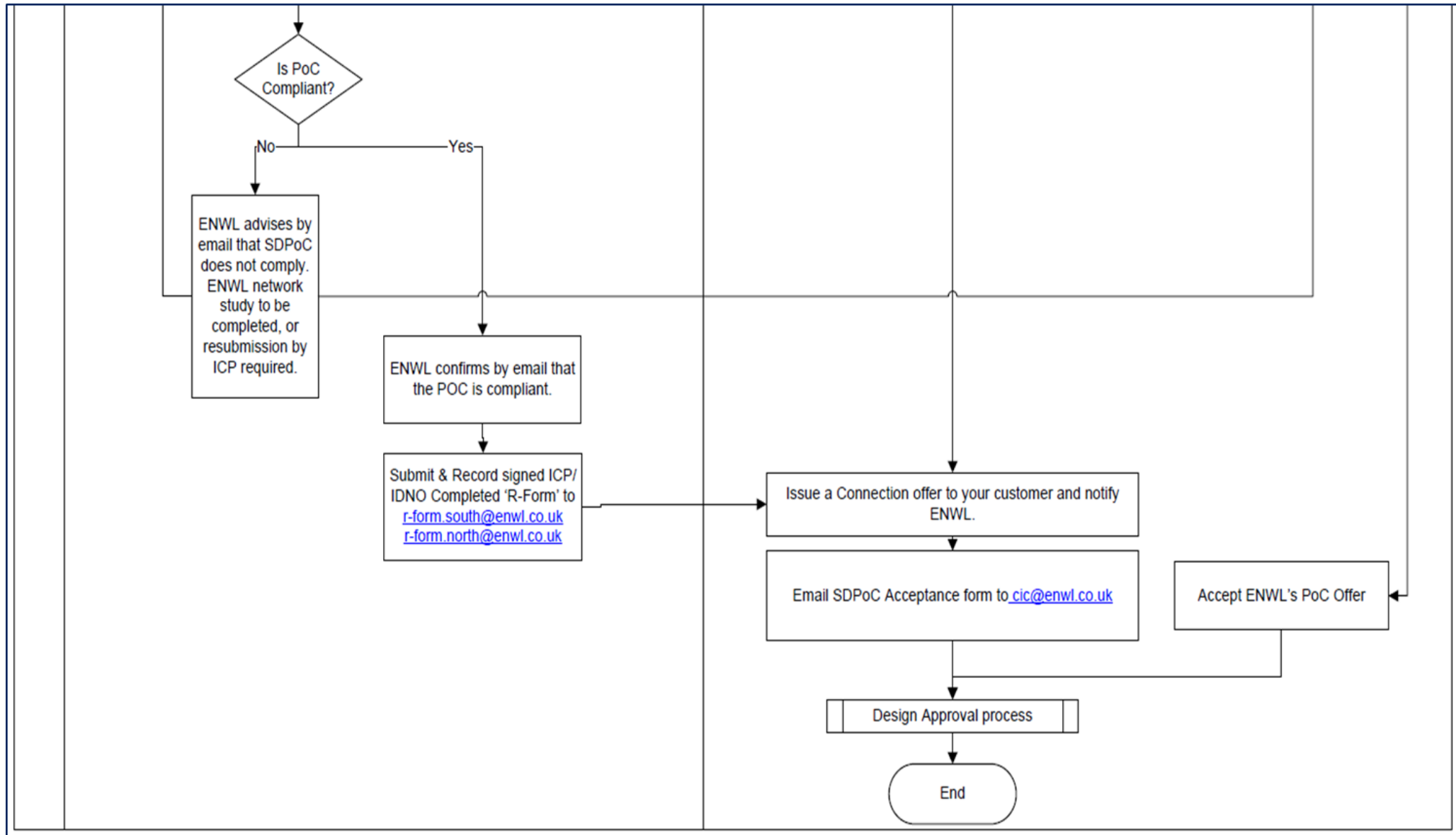
# Process Walkthrough



# Process Walkthrough continued



# Process Walkthrough concluded



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- ✓ 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
- Other detailed 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

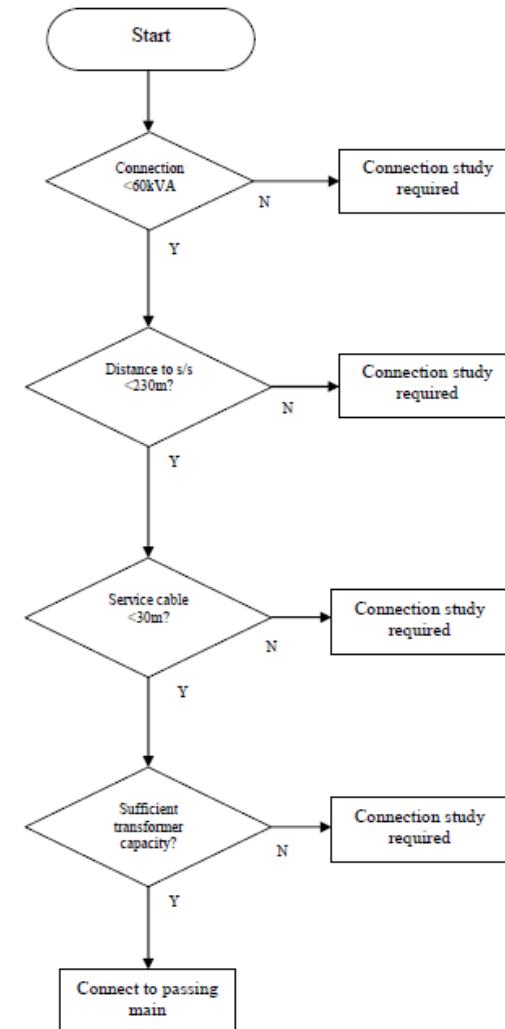


- Code of Practise 226 – Low Voltage Network Design
- Suitable for:
  - For 3 phase loads up to 60kVA
  - For single phase loads up to 20kVA
  - For new loads only
  - Motor loads included but not welding equipment, disturbing loads, or loads typically known to contribute harmonic currents
  - Applies to urban networks only (all cable)

## A2 PROCESS DIAGRAM A

Passing Main 300mm<sup>2</sup> Al Waveform or equivalent

3 Phase demand connection



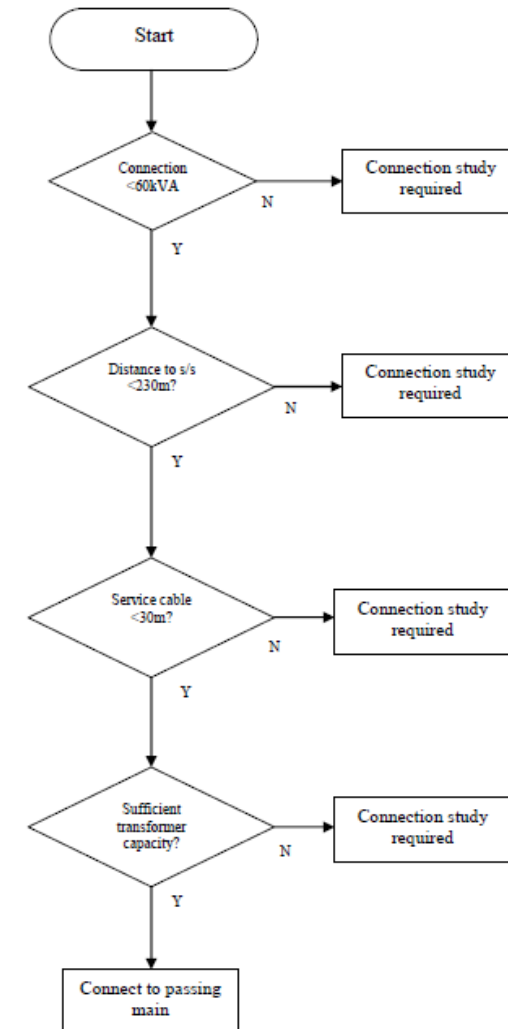


- Connection less than 60kVA? **YES**
- LV passing main 3c300WF all the way back to substation.
- Distance from Substation less than 230m? **YES**
- Service cable less than 30m? **YES**
- Sufficient spare capacity on transformer? **YES**
- **All CP226 checks satisfied therefore connection can be taken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

## A2 PROCESS DIAGRAM A

Passing Main 300mm<sup>2</sup> Al Waveform or equivalent

3 Phase demand connection





- G81 web page / Policy Library
- [G81 Policies](#)



### 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.<sup>1</sup> You can refer to our online library for the latest versions of the below policies: <http://www.enw.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

# SDPoC Notification Form



## 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](mailto:connectionapplications@enwl.co.uk)  
You can also visit [www.enwl.co.uk](http://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	<input type="checkbox"/>
DNO Point of connection - new asset to be owned by DNO	<input type="checkbox"/>

### Section 4 - Import and Export Load Details

	Number of connections	Import Load (kVA)	Export Load (kVA)	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](mailto: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.

	Feeder name:	Cable type (if different)	Primary CB / CT rating other restriction :	Normal peak load (PLA):	Customer numbers on feeder:	New load to be connected to this feeder:	Unused ASC on this feeder:	Proposed Customers on feeder:	Total feeder load:	State errors (Disallowed):	State errors (Quiet):	State errors (Confidential):
18												
19							#N/A					
20							#N/A					
21							#N/A					
22							#N/A					
23							#N/A					
24							#N/A					
25							#N/A					
26							#N/A					
27							#N/A					
28							#N/A					
29							#N/A					
30							#N/A					
31							#N/A					
32							#N/A					





## Data Management Symbology

2 x trifurcating  
joints

2 x 3 x 1c  
1c 185 Triplex  
11kv

0.9m

2m

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## Data Management Guide for recording underground assets

# SDPoC Acceptance Form



## Self-Determination of Point of Connection Acceptance Form



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](mailto:connectionapplications@enwl.co.uk). You can also visit [www.enwl.co.uk](http://www.enwl.co.uk) for further information.

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

### 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 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

☐ 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) ☐ Self-Approval ☐ 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](mailto:connectionapplications@enwl.co.uk)



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- ENWL's Self Determination of Point of Connection web page
- Home > Get Connected > Competition in Connections > Information for ICPs / IDNOs > Contestable Activities > Self-Determination of Point of Connection (PoC) [Link](#)

### Download our user guide

Find out how to get started and our process for self-determination of PoC.

[Download →](#)

### Contact us

If you have any specific questions about the process, get in touch with us.

[Contact us →](#)

### Notify us

Complete our notification form to let us know you wish to self-determine a Point of Connection (PoC).

[Download →](#)

### Adoption agreements

View and download our master adoption agreement and appendices.

[Read more →](#)

<b>PDF</b>	System Amendment Request Form - Guidance Document 923.4 KB - 2nd Oct 2020	<a href="#">Download</a>	<b>PDF</b>	Self determination acceptance form 83.6 KB - 10th Jul 2017	<a href="#">Download</a>
<b>XLSM</b>	System Amendment Request Form 1.8 MB - 2nd Oct 2020	<a href="#">Download</a>	<b>PDF</b>	Self determination notification form 123.0 KB - 10th Jul 2017	<a href="#">Download</a>
<b>XLSM</b>	R-Form template V 8.2 1.7 MB - 25th Sep 2020	<a href="#">Download</a>	<b>PDF</b>	Data management guide for recording underground assets 7.2 MB - 10th Jul 2017	<a href="#">Download</a>
<b>PDF</b>	SDPoC workshop 26 06 18- Slides 1.2 MB - 23rd Apr 2019	<a href="#">Download</a>	<b>PDF</b>	Data management symbology booklet 2.4 MB - 10th Jul 2017	<a href="#">Download</a>
<b>MP4</b>	Self determination of PoC training webinar 46.0 MB - 22nd May 2018	<a href="#">Download</a>	<b>XLSM</b>	Loadcheck- R form calculation sheet 843.9 KB - 10th Jul 2017	<a href="#">Download</a>
<b>XLS</b>	Low Voltage SDPoC drawing 284.0 KB - 10th Jul 2017	<a href="#">Download</a>			



Thank You for attending today

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