



SP ENERGY  
NETWORKS

20<sup>th</sup> April 2017

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# SPD Code of Practice Workshop



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**Welcome**

# Agenda

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**09:00**    **Registration/ Tea & Coffee**

**09.30**    Welcome & Introduction

Code of Practice Update

**09:45**    POC and Design Discussion

**10.30**    **Coffee Break**

**11.00**    Delivery & Self Connect Discussion

**11.30**    Inspection & Monitoring

**12.00**    Radar

**12.30**    ICE Update

**12.45**    Summary and Next Steps

**13.00**    **Close & Lunch**



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Alistair Menzies

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# Safety Contact

# Safety



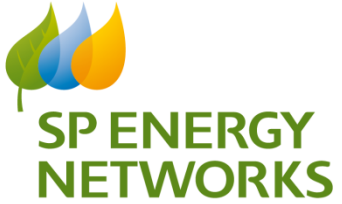
## WPD Fatality - Apprentice



### Family Statement

*"We are absolutely devastated by the tragic death of our son."*





Mike Scowcroft

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# Code of Practice Update

# Code of Practice Update

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## Why are we here?

- You are all important stakeholders
- You have an ongoing working relationship with SPEN
- You gave us feedback to indicate you would like further workshops
- We want your input on how we can improve

## Today we would like to:

- Discuss with you the information available
- Identify where you see their are blockers
- Discuss with you our current engagement and how to improve
- Get your feedback on any other areas you would like us to work on



**This is your day please do not leave  
with any of your questions unanswered**



# Code of Practice Update

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Code of Practice was introduced in November 2015 to allow independent connections providers (ICP's) to:

- self determine point of connections (POC)
- self approve design
- carry out final connection
- work under their own safety rules
- self inspect and monitor

In September 2016 we published our annual Code of Practise (CoP). This report is published on our website.

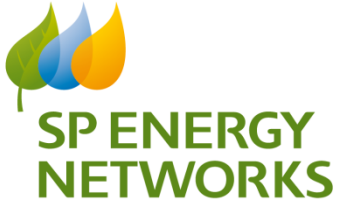
**To date there has been limited uptake - we would like to understand why this is the case**

# Guidance Documents

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## Key Documents related to Self Determination of POC

- **ESDD-02-021 [Guidance for Self Determination of Point of Connection and Self Design Approval for Independent Connection Providers](#)**
- **ESDD-02-012 Framework for design and planning for low voltage housing developments underground network installations and associated, new, HV/LV distribution substations**
- **CON-04-009 [Register of Adopted Asset Requests \(RAdAR\) Process for Self-Determined and Dual Offer Connection Projects](#)**
- **CON-04-004 [Register of Adopted Asset Requests \(RAdAR\) for contestable unmetered connection projects](#)**
- **CON-04-005 [Register of Adopted Asset Requests \(RAdAR\) Process for Contestable Connection Projects](#)**

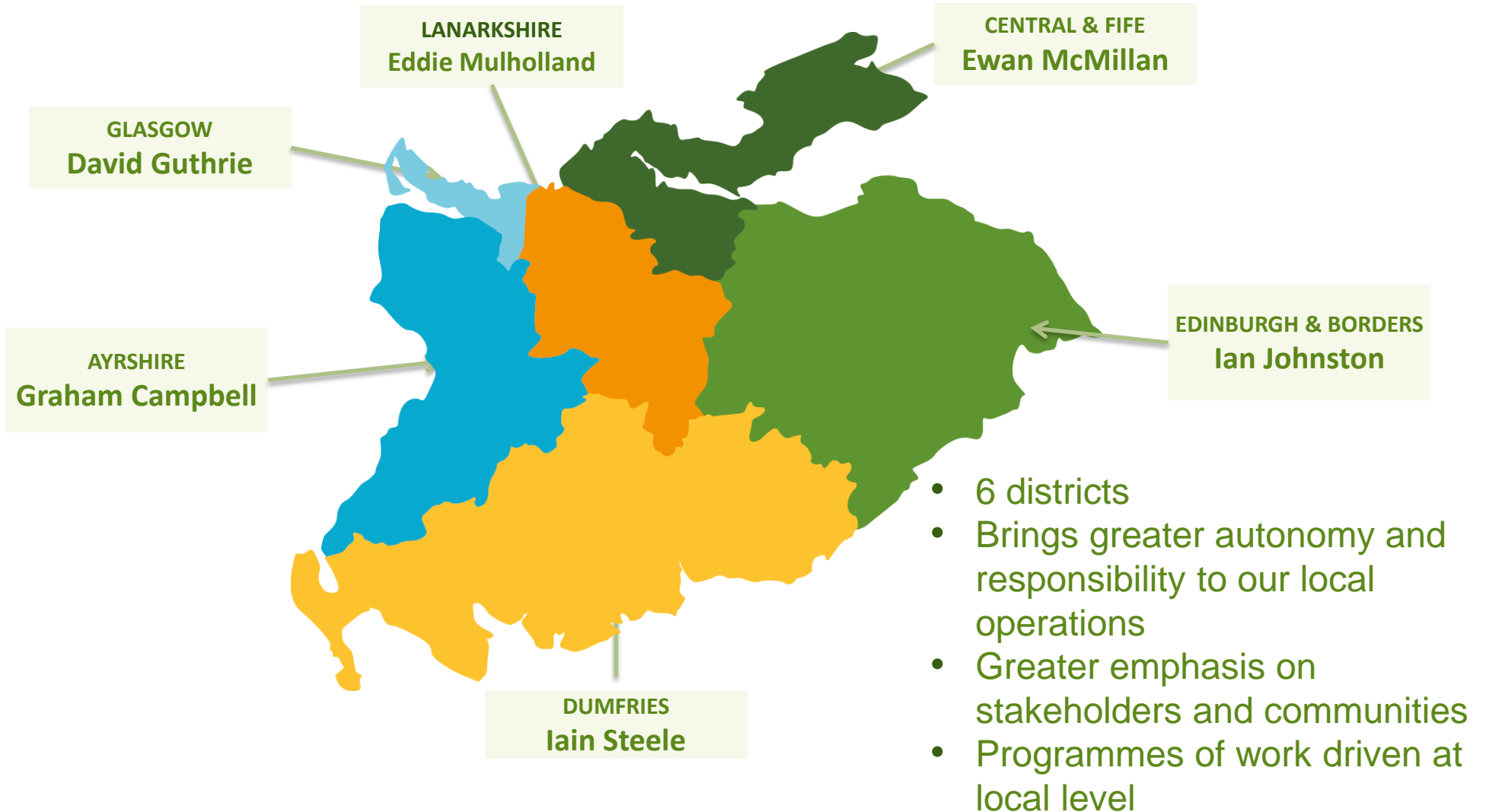


Kenny Bowie

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# POC and Design Approval

# SPD District Structure



# Point of Connection Options

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**DESIGN APPROVAL REQUIRED**



**ASSESSED BY SPEN  
ON REQUEST**

**SELF DETERMINED  
BY THE ICP**



**LICENCED  
DUAL OFFER  
POC ACCEPTANCE**

**POC  
ONLY**

**FRAMEWORK**

**STANDARD**

# Market Segments open to Self Design Approval

## Summary

Relevant Market Segment	Self Design
LV Demand	Yes*
HV Demand	Yes*
HV EHV Demand	No
EHV and 132kV Demand	No
LV DG	Yes*
HV DG	No
UMS LA	Yes
UMS Other	Yes
UMS PFI	Yes

\*Subject to the following restrictions:

- Where Contestable design requires incorporation of a constraint and monitoring scheme
- Diversion of Existing Assets (Affecting Existing Substation Assets)

# Design Requirements

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**Key Document** – “Guidance for self determination of point of connection and self design approval form independent connection providers.” – ESDD-02-021

## **Self assessment should ensure that the proposal:**

- Complies with SPEN Specifications
- Meet the customers requirements
- Good Industry practice
- CDM regulations have been headed
- Consideration given to surface types, cable and line routes to facilitate future operation and maintenance of assets
- Includes Construction and Adoptions Agreements / Bi-lateral or Tri-partite Connection Agreements
- Securing of Land Rights as applicable

# Legal Agreements Self Design Approval

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- New Adoption Agreements to reflect the new process
  - ICPs to take responsibility for the work they do
  - POC, design approval, self inspection
- Option to sign framework agreement, followed by site specific schedules
- One agreement for housing and I&C projects
- New agreements published on the website
- Option still remains for bi-partite or tri-partite



# Connection Agreements

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- Three generation connections,
  - **LV Generation (G59)**
  - 11kV and above Generation No Export,
  - 11kV and above Generation Export
- Two specially for IDNOs,
  - **LV Including Link Box (230V/400V)**
  - **HV Close Coupled (11kV)**
- Two for IDNOs or connected customers
  - **LV Standard (230V/400V)**
  - **HV Standard (11kV)**
- One for EHV Connections.
  - **EHV (33kV)**

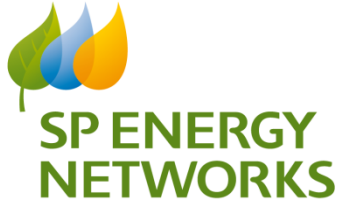
# Barriers to Self Design

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What are the Blockers to you undertaking Self Design?

What can we do to assist you?





Peter Joyce

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# Delivery & Self Connect Discussion

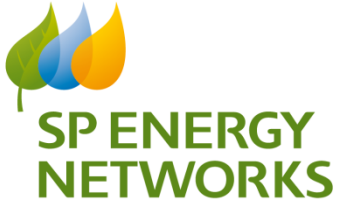
# Delivery & Self Connect Q & A

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The problems we face are:

- Daily whereabouts
- As-laid documents
- Correct Forms
- Notification of Completion of works
- Test Certificates
- Commissioning Documents





Chris Egan

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# Inspection & Monitoring

# Inspection and Monitoring

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## Scheme 1 - SPEN Inspection

A random sampling approach based on activity risk is adopted within SPEN. All work selected from the daily whereabouts will be inspected in the following order:

1. Level 1 / New Entrants / any future EOCW activities
2. Level 2
3. Level 3

## Scheme 2 - Self Inspection

After a satisfactory performance in Scheme 1, an ICP has the option to move onto the 'Self Inspect' scheme where an ICP can construct a network with minimum or no inspection and monitoring from SPEN.

# Inspection and Monitoring

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## Scheme 1 - Satisfactory performance:

- Less than > 5 Items Of Concern
- Less than > 20% of all audits with an IOC identified
- Zero safety critical failures

## Scheme 1 - Unsatisfactory performance:

- If an ICP fails to meet the criteria set above.

# Inspection and Monitoring

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## Scheme 2 - Self Inspect

After a satisfactory performance in Scheme 1, an ICP has the option to move onto the 'Self Inspect' scheme where they can construct a network with minimum or no inspection and monitoring from SPEN.

### Scheme 2 - Satisfactory performance:

- Completion of a 6 month period with all works recorded and accounted for as per scheme guidelines.

### Scheme 2 - Unsatisfactory performance:

- If an ICP fails to meet the criteria set above.



# Inspection and Monitoring

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Where an ICP fails to meet the criteria at Scheme 2, Level 4, they will move over to Scheme 1 Level 3 and are charged accordingly.

SPEN reserve the right to inspect all works on all sites, irrespective of scheme or inspection level. This will not affect the associated Inspection and Monitoring charges identified within the Connection Charging Statement.

A decision to move inspection levels to either more or less frequent inspections is ultimately at the discretion of SPEN, after discussion at local level with the ICP.

However, as a guide:

- The inspection level for all ICPs will be reviewed periodically
- Any change in the level will be confirmed to the ICP in writing
- Persistent failures or Safety Critical failures will result in an immediate review of the ICP inspection level.

# Inspection and Monitoring

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- Working practices that could have the potential to compromise the integrity of the SPEN network.
- Failure to document work that has been carried out.
- Inadequate storage or control of materials.
- Work being carried out which does not comply with SPEN's specifications, or if unable to meet those requirements failure to seek approval before proceeding with those works.

Any ICP that is inactive for over a one year period shall automatically have their inspection level lowered to the next level.

ICP's who work across both SPEN licenced areas have separate reviews to their levels, e.g. they can be level 2 in SPD and level 1 in SPM.

# Inspection and Monitoring Q & A

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What happens if:

- You Fail to keep SPEN informed about works programme?
- Contestable works are performed which are outside the ICP's registered scope?
- Action is not taken to satisfactorily close previously identified IOC?





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Kenny Bowie / Billy Scott

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**RAAdAR**

# RAdAR

## Proposed RAdAR Changes:

Update to the system to reflect Dual Offer Unmetered Quotes being issued.

- No changes to the existing processes.
- The main alterations will be to the naming conventions of sections in the system.

POC	Design	Construction	Connection
POC Request		Standard	
Register		Dual Offer	
Templates		Self Determined	
		Single Site UMS	
		Bulk Contract Unmetered	

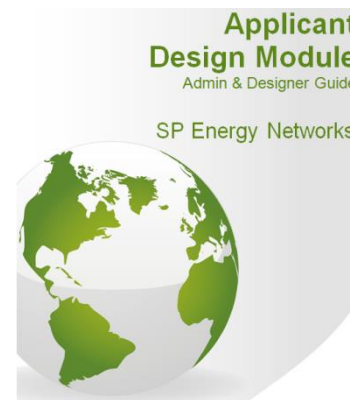
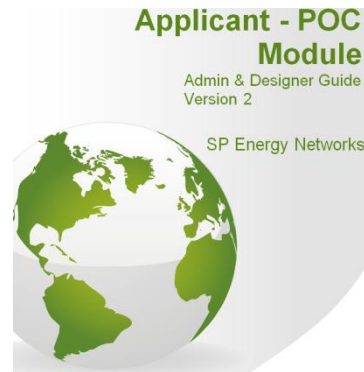
Design	Construction	Connection	Project Closure
Design Request		Standard Metered	
Register		Single Site UMS	
Templates		Bulk Contract UnMetered	

- Requirements have been sent to Web net, development finished and the system is going through UAT.

# RAdAR

## RAdAR Training Material:

- Training material for RAdAR is currently being revised to align with the changes and hopefully make it more “User Friendly” to understand.
- A separate manual will be created for each module in the system. Process documents will remain the same.



- The original Trifold manuals will be archived and replaced by these single training manuals. These will be stored on the website at the same location at the link below:-

[http://www.spenergynetworks.co.uk/pages/radar\\_training\\_materials.asp](http://www.spenergynetworks.co.uk/pages/radar_training_materials.asp)

Questions?



Johan Gillespie

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# ICE – Incentive through Connections Engagement



# Stakeholder Engagement

## Why do we engage with our stakeholders?

*We want to build strong mutually beneficial relationships with our stakeholders customers and the communities we work in....*

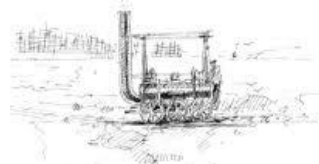
## Who do we engage with?

- Local Authorities
- Community Councils
- Farming community
- Developing the young workforce of the future
- Community councils
- Young Enterprise
- Local Charities
- Education / Schools Colleges / Universities

The list is endless.....



# Who are our stakeholders...



## What have we done so far?

### ICPS

- Offering emergency service provision
- Consultation on providing more information on alternative providers
- COP workshops

### General

- Quote+ information strengthened and training provided to relevant staff
- Heat Maps – updated and some automation to improve frequency of updates
- Investment Maps – Information now available via or website providing information on planned asset modernisation / reinforcement / OHL (overhead line) projects
- Document library reviewed and updated
- Export Limiting Device Policy – published and sent to key stakeholders



# Our plans for 2017 - 2018

ICE Action Work plan			
Action #	Subject	Proposal	KPI (SMART - Specific Measurable Achievable Relevant Timed)
1	Communication - Connections Customer Journey	We will delivery an interactive web based customer journey that will guide our customer through our key processes. Providing all key information, including as a minimum; metering, land rights, ICP, flexible connections specific processes and requirements.	Our web based interactive customer journey will be tested and endorsed by our stakeholders prior to going live.
2	Communication - Web site further enhancements	Built on the success from last years web improvements we will further enhance the web site in line with the customer feedback we are receiving	Web Site improvements will be tested and endorsed by our stakeholders.
3	Education	We will explore a range of alternative multimedia educational tools; YouTube, webinars, conference call, etc.; to further educate our stakeholders in all the key areas they have requested; Queue Management, SoW, Point of connections, DSO, Electricity storage, Land rights, Flexible connections, new innovations, ARC & ANM and any emerging topics	A range of multimedia educational tools will be tested and endorsed by our stakeholders.
4	Partnerships Working	We will continue to work in partnership with new and existing groups of stakeholders to inform our strategy and policy going forward	Our partnership forums will continue and grow, with any learnings shared with the broader stakeholder community via Quarterly updates
5	Self-Serve Ability on web site with Automated progress milestone updates to be investigated		
6	Programme Management	We will develop a consistent robust programme management capability across all districts, that meets our stakeholders needs in cost, time and quality. Providing regular milestone progress updates in line with the needs of our customers requirements	Programme management capability tested and endorsed by our stakeholders
7	Land Rights - Improve Communications	'We will consider further opportunities to better communicate the various Land Rights requirements involved in your connection from the earliest opportunity'	Highlight both potential cost and programme in our connection offers and acceptance process
8	Land Rights - Forum	'Establish a forum to ensure that Land Rights processes are being integrated in to the connections process consistently across all districts (at both design and delivery stages). The forum will also consider opportunities for further improvements'	Forum Established
9	Flexible Connections	Outline where on our network ANM enabled zones will be deployed and provide a forward looking plan of ANM enabled zones that will be available in future	Provide clarity on flexible connections offering
10	Telecommunications	Provide detailed information on the communication channels required by customers connecting to our network.	Provide clarity on comms solutions required

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# Questions

## Lunch

**Thank you for attending the  
workshop today**

