SPEN Project Management Guidance Pack - General

Introduction

The needs of large, commercial connection customers can be different to the needs of smaller, domestic connections customers. To address this, Ofgem introduced ICE which ensures that Distribution Network Operators continually listen, adapt, and change to meet the needs of this type of customer.

As part of this process one of the key actions identified after engaging with our key stakeholders and connection customers was the creation of a project management guidance pack to help facilitate connections activities for our large commercial connection customers in the Demand, Generation and UMS market segments. This can be found under action 7.1 in our ICE Plan 2021/22.

This pack is one of 4 packs we have published which includes Project Management guidance packs for General, Civil, Electrical and IBERDROLA S.A. 'Pre-fabricated enclosures for distribution substations' document. Within these packs contains all the relevant information to assist our customers in understanding their requirements for the successful delivery of their projects by detailing SPEN's commitments for the Design, Commercial, Land & Planning and Delivery of each project.

Contents

Published Online

For the below documents, please click the link to view the most up to date version.

Document Name	Document Reference
Connection Agreement Template - 11kV and above No Generation SPM	COM-20-011
Connection Agreement Template - 11kV and above Generation No Export SPM	COM-20-012
Connection Agreement Template - 11kV and above Generation Export SPM	COM-20-013

* All the above documents can also be found in the SPEN document library.

* Policies, Procedures and Specifications: Documentation - SP Energy Networks

* Safety Documents - SP Energy Networks

Additional Documents Contained Within This Pack

The below documents are included within this project management guidance pack - Electrical. Any documents highlighted with a ***, the scope of the document is provided. For more information please contact your assigned design/delivery engineer.

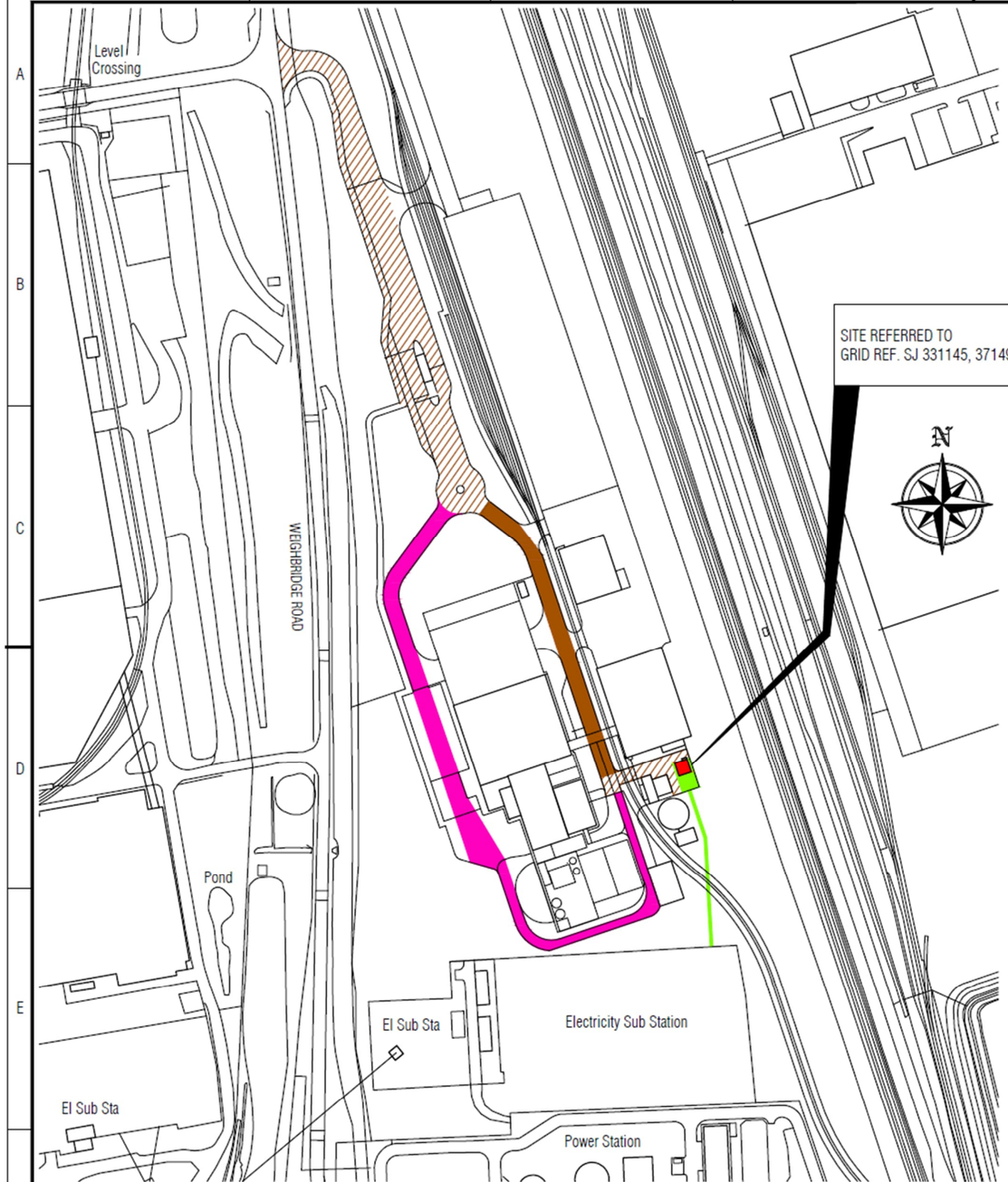
Document Name	Document Reference
Example Acquisition Plan	SP4134284
*** G99 HV Commissioning Test Sheet Ver 4	G99/1 - 6 HV
*** G99 LV Commissioning Test Sheet Ver 4	G99/1 - 6 LV
Photographic Guidance Example - Brickwork and Roof	-
Photographic Guidance Example - Doors	-
Photographic Guidance Example - Essential & Non-essential LV Installation	-
Photographic Guidance Example - Fencing & Finishes	-
Photographic Guidance Example - Floor Re-bar Bonding & Earthing	-
Photographic Guidance Example - Switchgear Steelwork and Installation	-
*** SPM 132kV - 33kV Draft CA Gen with Export template	-
*** Start Up Meeting Agenda Example	-

* The above documents are also available on request upon a project being accepted.

Example Acquisition Plan

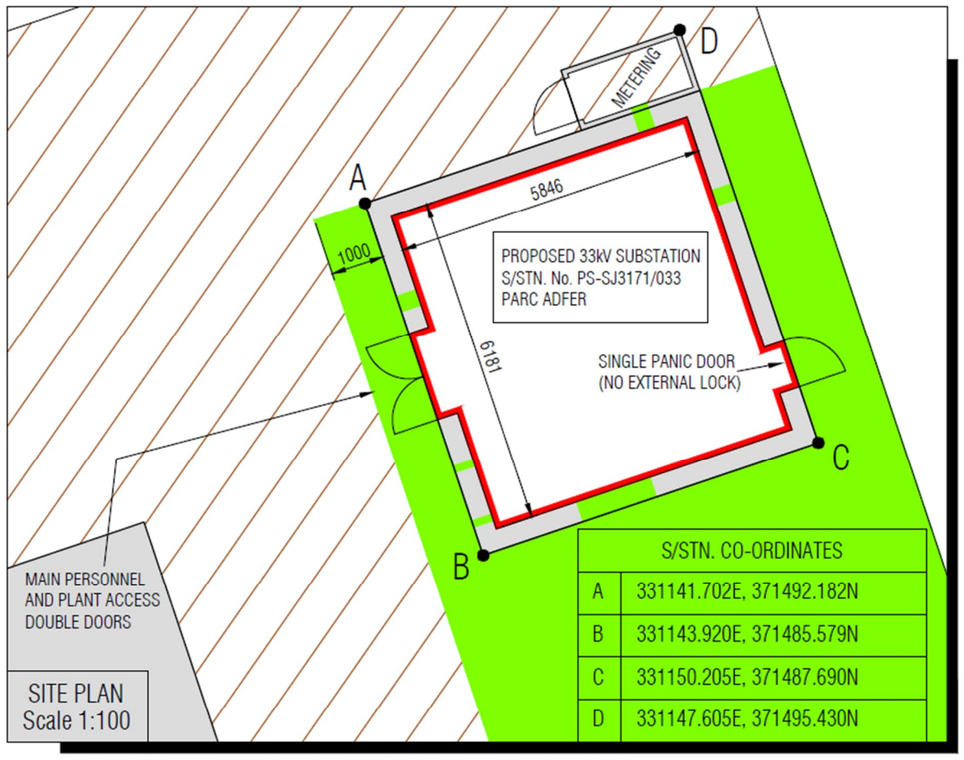
For guidance purposes only.

For more information please contact your assigned design/delivery engineer upon acceptance of your project.



LOCATION PLAN Scale 1:2500

THE QUALITY AND ACCURACY OF ANY PRINT WILL DEPEND UPON YOUR PRINTER, YOUR COMPUTER AND ITS PRINT SETTINGS. IT MAY BE SUBJECT TO DISTORTIONS IN SCALE. MEASUREMENTS SCALED FROM THIS PLAN MAY NOT MATCH MEASUREMENTS BETWEEN THE SAME POINTS ON THE GROUND.



SITE PLAN
Scale 1:100

S/STN. CO-ORDINATES	
A	331141.702E, 371492.182N
B	331143.920E, 371485.579N
C	331150.205E, 371487.690N
D	331147.605E, 371495.430N

AREA OF LAND TO BE ACQUIRED EDGED RED = 36 SQ. METRES OR THEREABOUT
ACCESS OVER AND CABLE EASEMENTS UNDER LAND COLOURED GREEN (See Location Plan Also)
ACCESS OVER LAND COLOURED BROWN (See Location Plan Also)
ACCESS OVER LAND HATCHED BROWN (See Location Plan)
ALTERNATIVE ACCESS OVER LAND COLOURED PINK (See Location Plan)

NOTE
SITE NOT SURVEYED, BASED ON DEVELOPERS DRAWINGS DRG. No. PLV011, SK001 Rev 75, & PL001 Rev P.

Rev	Date	Drawn	Reviewed	Approved	Description of Change
6	09/02/2017	M.T.	S.L.	S.L.	ROUTE AREA DETAILS AMENDED.
5	03/02/2017	M.T.	S.L.	S.L.	ROUTE AREA DETAILS AMENDED.
4	16/01/2017	M.T.	S.L.	S.L.	ACCESS DETAILS REVISED.
3	04/07/2016	M.T.	S.H.	S.H.	ACCESS/CABLE EASEMENT ROUTES/INTERNAL LEASE DETAILS AMENDED.
2	18/03/2016	M.T.	S.H.	S.H.	ACCESS DETAILS AMENDED.
1	01/02/2016	M.T.	S.H.	S.H.	-

SP ENERGY NETWORKS

Drawing State: Approved

Project:

Location:

Voltage: 33kV

Approval Status: For Issue

Drg. Title: EXAMPLE AQUISITION DRAWING.

Drawn	Rev'd	App'd
M.T.	S.L.	S.L.

Drg. No.: SP4134284

Sheet:

Next:

Rev: 6

Scale: AS SHOWN

Size: A3

G99 HV Commissioning Test Sheet Ver 4

The purpose of this document is to detail and provide record of on-site commissioning tests required to be witnessed by SP Energy Networks prior to acceptance of third-party generation connections to the distribution network.

For more information please contact your assigned design/delivery engineer upon acceptance of your project.

G99 LV Commissioning Test Sheet Ver 4

The purpose of this document is to detail and provide record of on-site commissioning tests required to be witnessed by SP Energy Networks prior to acceptance of third-party generation connections to the distribution network.

For more information please contact your assigned design/delivery engineer upon acceptance of your project.

Photographic Guidance Example - Brickwork and Roof

For guidance purposes only.

Image 1 – Standard outer brickwork for a SPEN substation.

Image 2 - Standard outer brickwork for the entrance to a SPEN substation.

Image 3 - Standard inner brickwork for the entrance to a SPEN substation.

Image 4 - Standard inner brickwork for a SPEN substation.

Image 5 – Standard construction of a SPEN substation roof.

Image 6 - Final construction of the brickwork for a SPEN substation.

Photographic Guidance Example – Doors

For guidance purposes only.

Image 7 – Standard wooden door installed for a SPEN substation.

Image 8 – Standard wooden door installed for a SPEN substation.

Image 9 - Standard Glass Reinforced Plastic (GRP) door installed for a SPEN substation.

Image 10

Photographic Guidance Example - Essential & Non-essential LV Installation

For guidance purposes only.

Image 11

Photographic Guidance Example - Fencing & Finishes

For guidance purposes only.

Image 12 – Cable trench cover example.

Image 13 – Cable trench cover example.

Image 14 – Standard fencing for a substation compound.

Image 15 – Standard fenced gate with signing and guarding.

Image 16 – Standard outer finish of a substation building and inner compound.

Image 17 – Standard fencing and inner compound finish.

Photographic Guidance Example - Floor Re-bar Bonding & Earthing

For guidance purposes only.

Image 18 – Re-bar flooring with overlap.

Image 19 - Re-bar flooring with overlap.

Image 20 – Welded overlap.

Image 21 – Cad welded earth joint.

Photographic Guidance Example - Switchgear Steelwork and Installation

For guidance purposes only.

Image 22 - Installation of the steelwork prier to the installation of 3 panel board switchgear (Schneider CBGS-0).

Image 23 - Installation of the steelwork prier to the installation of 3 panel board switchgear (Schneider CBGS-0).

Image 24 - Switchgear installation technique.

Image 25 – Switchgear Installed.

SPM 132kV - 33kV Draft CA Gen with Export template

The purpose of this document is to provide an agreement template between the customer and SPEN for the connection to SPEN's distribution system where the customer has generating plant and uses the distribution system for selling electricity or exporting energy.

For more information please contact your assigned design/delivery engineer upon acceptance of your project.

Start Up Meeting Agenda Example

The purpose of this document is to encompass all early stage activities in an initial meeting.

For more information please contact your assigned design/delivery engineer upon acceptance of your project.