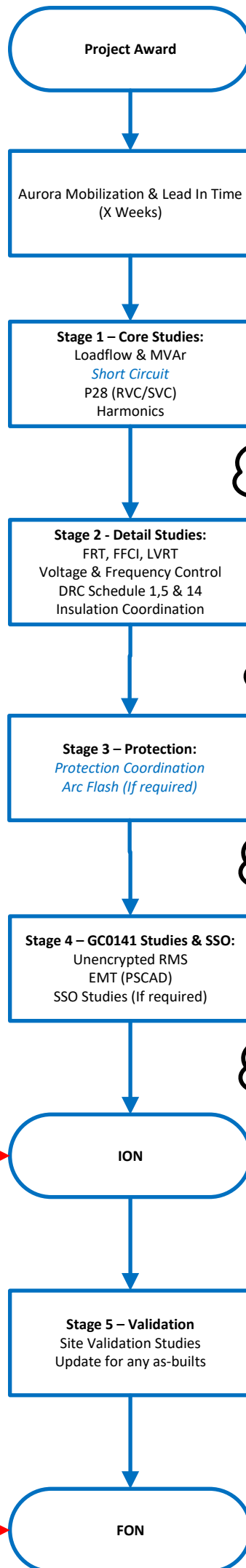


NESO Compliance Process – Simulation Studies



Key SLD
 DNO Fault Level
 DNO Harmonic Specification
 Transformer Datasheets & Inrush
 Generator PQ Capability
 Generator Fault Contribution
 Cable Types & Lengths

Updated SLD
 DigSILENT RMS Model – Inverter
 DigSILENT RMS Model – PPC
 Stray Capacitances
 Surge Arrester Details

Protection SLD
 TSO Protection Settings
 IDMT Relays & CT Details
 Differential Relays & CT Details

Open DigSILENT RMS Model – Inverter
 Open DigSILENT RMS Model – PPC
 PSCAD EMT Model – Inverter
 PSCAD EMT Model - PPC

CSV File of Site Test Voltage & Frequency
 Controller
 Confirmation of any site changes to
 controllers

UDFS Review Time
 - Normal Submission – 15->20 days
 - EMT Models 15-> 30 days

Submit early – get the ball rolling with NESO

Get initial feedback – flush out problems

Close out initial studies. Identify any problems with dynamics

This is the slow part – leave plenty of time

6-9 Months

6-12 Months

First UDFS Submission

Interim UDFS Submission 1

Interim UDFS Submission 2

Interim UDFS Submission 3+

Final UDFS Submission

Finalize site design and configuration

Finalise control settings and identify and problems

Studies not formally reviewed by NESO

Allow at least 3 months for this stage