

Part 4a

Synchronous Power Generating Module data:
(please complete a separate sheet for each
different Synchronous Generating Unit)

Name(s) / identifiers of Generating Unit(s)

Type of Generating Unit (wound rotor, salient pole)

Positive sequence (armature) resistance
(HV connected generators only)

per
unit

Direct axis reactances

Sub-transient (X''_d) – unsaturated

per
unit

Sub-transient (X''_d) – saturated

per
unit

Transient (X'_d) – unsaturated

per
unit

Transient (X'_d) – saturated
(HV connected generators only)

per
unit

Synchronous (X_d) – unsaturated

per
unit

Synchronous (X_d) – saturated
(HV connected generators only)

per
unit

Time constants (HV connected only):

	Open circuit time constant	Short circuit time constant
Direct-axis sub-transient – unsaturated	<div></div> s	<div></div> s
Direct-axis sub-transient – saturated	<div></div> s	<div></div> s
Direct-axis transient – unsaturated	<div></div> s	<div></div> s
Direct-axis transient –saturated	<div></div> s	<div></div> s

Generating Unit Voltage Control (to be agreed with the DNO) (see Note 10)

If operating in Power Factor control mode,
preferred Power Factor

If operating in voltage control mode, voltage set point

V

If operating in reactive power control mode, reactive power set point

MVA_r

Generating Unit Performance Chart attached

If yes, please insert the file name of the attachment here

☐ Yes

☐ No

HV Connected Type A, Type B, Type C and Type D Power Generating Module frequency and excitation (see Note 10)

Frequency response Droop setting in LFSM-O
(All Types, see Note 11)

%

Frequency response Droop setting in LFSM-U
(Types C & D only, see Note 11)

%

Governor and prime mover model attached (see Note 12)

If yes, please insert the file name of the attachment here

☐ Yes

☐ No

Inertia constant (Generating Unit and prime mover)
(HV connected generators only)

MWsec/
MVA

AVR / excitation model attached

If yes, please insert the file name of the attachment here

☐ Yes

☐ No

Type C and Type D Power Generating Module additional frequency response (see Note 10)

Frequency response Droop setting in FSM (if applicable)

%

Frequency response mode

☐ FSM

☐ LFSM