

Reference Number: \_\_\_\_\_

## FORM A - ESTIMATED EQUIPMENT DATA CONVENTIONAL GENERATOR

### A. BASIC INFORMATION

GRID USER	
1. Power Plant Name	
2. Company Name	
3. Office Address	
4. Main Contact Person	
5. Position	
6. Contact Numbers	
7. Email Address	
8. Power Plant Location	
a. Street	
b. Sitio	
c. Barangay	
d. Province	
e. Location Map	<i>Please attach a geographic map showing the coordinates of the power plant site.</i>

### B. POWER REQUIREMENT – FORECAST DATA

YEAR					
A. Load Forecast During Construction (MW)					
B. Load Forecast for Station Use (MW)					
C. Feedback Power Requirement (MW)					

### C. GENERATOR / MACHINE DATA

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STANDARD PLANNING DATA	VALUE
1. In-Service Date (Commissioning)	
2. Manufacturer:	
3. Individual Plant Rated Capacity (MVA)	
a. Installed Capacity (MW)	
b. Dependable Capacity (MW)	
c. Derated Capacity (MW) on a monthly basis;	
d. Additional Capacity (MW) obtainable from Generating Units in Excess of Net Declared Capacity	
e. Rated Power Factor	
f. Stator Armature Resistance	
4. Number of Individual Generator Units (if composed of several machines)	
5. Frequency Withstand Capability (Hz)	
6. Rated Speed (rpm)	
7. Rated Terminal Voltage	
8. Type of Generating Unit and Expected Running Mode(s)	
9. Maximum and Minimum Ramp-Up Rate [MW/min]	
10. Maximum and Minimum Ramp-Down Rate [MW/min]	
11. Rated MVAR Output	
12. Short Circuit Ratio	
13. Minimum Stable Loading (Pmin)	
14. Maximum Stable Loading (Pmax)	

DETAILED PLANNING DATA			
Check below the corresponding machine model. If other models are to be used, please provide corresponding Machine Data.			
Generator	Exciter	Governor	Stabilizer
<input type="checkbox"/> GENCLS	<input type="checkbox"/> EXAC1	<input type="checkbox"/> GAST2A	<input type="checkbox"/> IEEEEST
<input type="checkbox"/> GENROE	<input type="checkbox"/> EXAC1A	<input type="checkbox"/> HYGOV	<input type="checkbox"/> STAB1
<input type="checkbox"/> GENROU	<input type="checkbox"/> EXST1	<input type="checkbox"/> IEEEEG1	<input type="checkbox"/> STAB2A
<input type="checkbox"/> GENSAE	<input type="checkbox"/> IEEEET1	<input type="checkbox"/> TGOV1	<input type="checkbox"/> STAB3
<input type="checkbox"/> GENSAL	<input type="checkbox"/> IEEEEX1	<input type="checkbox"/> Other Model:	<input type="checkbox"/> Other Model:
<input type="checkbox"/> Other Model:	<input type="checkbox"/> SCRX	_____	_____
_____	<input type="checkbox"/> SEXS		
	<input type="checkbox"/> Other Model:		
	_____		

GENERATING UNIT PARAMETERS	VALUE
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<i>From the above-checked generator model, fill-out the corresponding machine data as applicable. Please provide per unit value. Put n.a. if not applicable.</i>		
1. Direct Axis Open Circuit Transient Time Constant, $T'_{do}$ (>0) (sec)		
2. Direct Axis Open Circuit Subtransient Time Constant, $T''_{do}$ (>0) (sec)		
3. Quadrature Axis Open Circuit Transient Time Constant, $T'_{qo}$ (>0) (sec)		
4. Quadrature Axis Open Circuit Subtransient Time Constant, $T''_{qo}$ (>0) (sec)		
5. Rotational Inertia, H		
6. Speed Damping, D		
7. Direct Axis Synchronous Reactance (Unsaturated), $X_d$		
8. Quadrature Axis Synchronous Reactance, $X_q$		
9. Direct Axis Transient Reactance (Unsaturated), $X'_d$		
10. Quadrature Axis Transient Reactance (Unsaturated), $X'_q$		
11. Direct Axis Subtransient Reactance (Unsaturated) $X''_d$		
12. Quadrature Axis Subtransient Reactance (unsaturated), $X''_q$		
13. Armature Leakage Reactance, $X_l$		
14. Saturation at Rated Voltage, $S_{(1.0)}$		
15. Saturation at Rated Voltage at 20% Above, $S_{(1.2)}$		
16. Acceleration Factor, AF		
17. Negative Sequence Reactance (Saturated), $X_{2v}$		
18. Zero Sequence Reactance (Saturated), $X_{0v}$		
19. Short Circuit Time Constant, $T_{a3}$		
20. Armature Resistance $R_a$ (Ohms) and Field Resistance $R_{fd}$ (Ohms)		
21. Base Field Current (A)		
22. Base Field Voltage (Volts)		
23. Rotational Inertia for Generator Without Turbine(s)		
24. Losses at 1.0 and 0.9 Power factor (MW)		

<b>EXCITATION CONTROL SYSTEM</b>	<b>VALUE</b>
<i>From the above-checked exciter model, fill-out the corresponding exciter data as applicable. Please provide per unit value. Put n.a. if not applicable.</i>	

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1. Voltage Transducer Time Constant, $T_R$ (sec)	
2. Proportional Gain, $K_p$	
3. Integral (Reset) Gain, $K_i$	
4. Gain, $K_A$	
5. $K_B$	
6. $K_L$	
7. $K_H$	
8. $K_{LV}$	
9. $K_R (>0)$	
10. First Stabilizer Gain, $K_{S1}$	
11. Second Stabilizer Gain, $K_{S2}$	
12. $K_N$	
13. $K_{PR}$	
14. $K_{IR}$	
15. $E_{FDN}$	
16. $E_{FDMAX}$	
17. Minimum Open Circuit Excitation Voltage, $E_{FDMIN}$ (p.u.)	
18. Bridge Time Constant, $T_A$ (sec)	
19. Lag Time Constant, $T_B$ (sec)	
20. Lead Time Constant, $T_C$ (sec)	
21. $T_{A1}$ (sec)	
22. $T_{A2}$ (sec)	
23. $T_{A3}$ (sec)	
24. $T_{A4}$ (sec)	
25. $V_{AMAX}$	
26. $V_{AMIN}$	
27. $V_{LR}$	
28. $V_{LV}$	
29. $V_{FELIM}$	
30. Current Controller Gain, $V_{PI}$	
31. Voltage Controller Proportional Gain, $V_{PU}$	
32. Controller Follow-Up Gain, $V_{PNF}$ (p.u.)	
33. Controller Follow-Up Dead Band, $D_{PNF}$ (p.u.)	
34. Voltage Transducer Time Constant, $T_{FV} \geq 0$ (sec)	

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35. Current Transducer Time Constant, $T_{FI} \geq 0$ (sec)	
36. Controller Reset Time Constant, $T_{NU} > 0$ (sec)	
37. $V_{IMIN}$	
38. $V_{IMAX}$	
39. Maximum Control Output, $V_{RMAX}$ (p.u.)	
40. Minimum Control Output, $V_{RMIN}$ (p.u.)	
41. $V_{GMAX}$	
42. Rate Feedback Gain, $K_F$	
43. Rate Feedback Time Constant, $T_F (>0)$ (sec)	
44. Feedback Lead Time Constant, $T_{F1}$ (sec)	
45. Feedback Lag Time Constant, $T_{F2}$ (sec)	
46. $T_H$ (sec)	
47. $T_J$ (sec)	
48. First Stabilizer Time Constant, $T_{S1} \geq 0$ (sec)	
49. Second Stabilizer Feedback Time Constant, $T_{S2} \geq 0$ (sec)	
50. Exciter Field Proportional Constant, $K_E$	
51. Exciter Field Time Constant, $T_E (>0)$ (sec)	
52. Stabilizer Feedback Time Constant, $T_W > 0$ (sec)	
53. Stabilizer Limit, $S_{MAX} > 0$ (p.u.)	
54. Excitation Transformer Effective Reactance (p.u.), $X_E \geq 0$	
55. Rectifier Regulation Factor, $K_C$ (p.u.)	
56. Exciter Regulation Factor, $K_D$ (p.u.)	
57. Exciter Flux at Knee of Curve, $E_1$ (p.u.)	
58. Saturation Factor at knee Curve, $S_{E(E1)}$	
59. Maximum Exciter Flux, $E_2$ (p.u.)	
60. Saturation Factor at Maximum Exciter Flux $S_{E(E2)}$ (p.u.)	
61. Switch	
62. $\Theta_p$ (degrees)	

<b>SYSTEM-GOVERNING PARAMETERS</b>	<b>VALUE</b>
<i>From the above-checked governor model, fill-out the corresponding machine data as applicable. Please provide per unit value. Put n.a. if not applicable.</i>	

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1. Governor Gain (1/Droop) (on Turbine Rating), W	
2. Governor Lead Time Constant, X (sec)	
3. Governor Lag Time Constant, Y (sec)	
4. Governor Mode: (1) Droop (0) ISO, Z	
5. $E_{TD}$ (sec)	
6. $T_{CD}$ (sec)	
7. Turbine Rating (MW), $T_{RATE}$	
8. T (sec)	
9. MAX (p.u.) Limit (on Turbine Rating)	
10. MIN (p.u.) Limit (on Turbine Rating)	
11. $E_{CR}$ (sec)	
12. Fraction, $K_3$	
13. Valve Positioner, a (>0)	
14. Valve Positioner, b (sec) (>0)	
15. Valve Positioner, c	
16. $T_f$ (sec) (>0)	
17. $K_f$	
18. $K_5$	
19. $K_4$	
20. $T_3$ (sec) (>0)	
21. $T_4$ (sec) (>0)	
22. $T_f$ (>0)	
23. $T_5$ (sec) (>0)	
24. $a_{f1}$	
25. Permanent Droop, R	
26. Temporary Droop, r	
27. Governor Time Constant, $T_r$ (>0)	
28. Filter Time Constant, $T_f$ (>0)	
29. Servo Time Constant, $T_g$ (>0)	
30. Gate Velocity Limit, $\pm V_{ELM}$	
31. Maximum Gate Limit, $G_{MAX}$	
32. Minimum Gate Limit, $G_{MIN}$	
33. Water Time Constant, $T_w$ (>0)	
34. Turbine Gain, $A_t$	
35. Turbine Damping, $D_{turb}$	

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36. No Power Flow, $q_{NL}$	
37. K	
38. T1 (sec)	
39. T2 (sec)	
40. T3 (>0) (sec)	
41. Opening Gate Rate Limit, $U_o$ (p.u. per sec)	
42. Closing Gate Rate Limit, $U_c$ (p.u. per sec) (<0)	
43. P.u. on Machine MVA rating, $P_{MAX}$	
44. P.u. on machine MVA rating, $P_{MIN}$	
45. K1	
46. K2	
47. T5 (sec)	
48. K3	
49. K4	
50. T6 (sec)	
51. K5	
52. K6	
53. T7 (sec)	
54. K7	
55. K8	
56. R	
57. $V_{MAX}^1$	
58. $V_{MIN}^1$	
59. $T_2$ (sec) <sup>2</sup>	
60. $T_3$ (>0) (sec) <sup>2</sup>	
61. $D_t^1$	

<b>STABILIZER DATA PARAMETERS</b> <i>From the above-checked exciter model, fill-out the corresponding machine data as applicable. Please provide per unit value. Put n.a. if not applicable.</i>	<b>VALUE</b>
1. A1	

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2. A2	
3. A3	
4. A4	
5. A5	
6. A6	
7. T <sub>1</sub> (sec)	
8. T <sub>2</sub> (sec)	
9. T <sub>3</sub> (sec)	
10. T <sub>4</sub> (sec)	
11. T <sub>5</sub> (sec)	
12. T <sub>6</sub> (sec)	
13. K <sub>S</sub>	
14. L <sub>S</sub> MAX	
15. L <sub>S</sub> MIN	
16. V <sub>CU</sub> (p.u.) (if equal to zero, ignored)	
17. V <sub>CL</sub> (p.u.) (if equal to zero, ignored)	
18. K/T (sec) <sup>-1</sup>	
19. T(sec) (>0)	
20. T <sub>1</sub> /T <sub>3</sub>	
21. T <sub>3</sub> (sec) (>0)	
22. T <sub>2</sub> /T <sub>4</sub>	
23. T <sub>4</sub> (sec) (>0)	
24. H <sub>LIM</sub>	
25. K <sub>2</sub>	
26. T <sub>2</sub> (sec) (>0)	
27. K <sub>3</sub>	
28. K <sub>4</sub>	
29. K <sub>5</sub>	
30. T <sub>5</sub> (sec) (>0)	
31. T <sub>t</sub> (sec)	
32. T <sub>x1</sub> (sec) (>0)	
33. T <sub>x2</sub> (sec) (>0)	
34. K <sub>X</sub>	
35. V <sub>LIM</sub>	

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**HARMONICS AND WAVEFORM DISTORTION**

*This table shall only be filled in for Battery Energy Storage Systems (BESS), if applicable.*

ORDER	OUTPUT POWER (kW)	Harmonic Current (% of I <sub>rated</sub> power)	ORDER	OUTPUT POWER (kW)	Harmonic Current (% of I <sub>rated</sub> power)
2			3		
4			5		
6			7		
8			9		
10			11		
12			13		
14			15		
16			17		
18			19		
20			21		
22			23		
24			25		
26			27		
28			29		
30			31		
32			33		
34			35		
36			37		
38			39		
40			41		
42			43		
44			45		
46			47		
48			49		
50					

**GENERATOR TRANSFORMER DATA**

1. Substation Name		10. Status	
2. Rated Capacity		11. Model type	
3. Transformation Voltage (kV)		12. Serial Number	
4. Vector Group		13. Rated Frequency	

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5. No. of Taps				14. Power Factor				
6. % Adjust per Tap				15. Voltage Ratio				
7. % Impedance at Rated load & Voltage				16. Configuration (e.g. 3 Phase or Three Single Phase)				
8. Manufacturer				17. Temperature Rise (°C)				
9. Year of commissioning				18. Connection for each winding H,X,Y (e.g. Wye, Delta, Zigzag)				
19. Positive Sequence Impedance	(See IEEE C57.12.90 for measurement techniques)	Positive Sequence Impedance (%)				HX	HY	XY
		R						
		X						
		Base MVA						
20. Zero Sequence Impedance (Data is required for transformers with 1 or 2 external neutrals)	H winding energized all others open	Closed Tertiary	H			X	HX	XH
		R						
		X						
		Base MVA						
	H winding energized X winding shorted	Open Tertiary	H			X	HX	XH
		R						
		X						
		Base MVA						
	In-Service Off-Load Tap (kV)							
	Off –Load Taps (kV)							
	On-Load Taps (kV) (Max Tap, Min Tap, Number of Steps)							
	Core and Excitation Losses (kW, kVAr)							

CHARACTERISTIC DATA	
1. Open Circuit Saturation Curve	<i>Attach File</i>
2. Short Circuit Curve	<i>Attach File</i>
3. V Curve	<i>Attach File</i>
4. Reactive Power Capability curve	<i>Attach File</i>
5. Ramping Capability Curve	<i>Attach File</i>

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<b>PLANT FLEXIBILITY PERFORMANCE DATA (FOR EACH GENERATING PLANTS)</b>	
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a. Rate of Loading Following Weekend Shutdown (Generating Unit and Generating Plant)	
b. Rate of Loading Following an Overnight Shutdown (Generating Unit and Generating Plant)	
c. Block Load Following Synchronization	
d. Rate of Load Reduction from Normal Rated MW	
e. Regulating Range	
f. Load Rejection Capability while still Synchronized and able to Supply Load.	

<b>AUXILIARY DEMAND DATA</b>	
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a. Rated Normal Unit-Supplied Auxiliary Load for Each Generating Unit at Rated MW Output	
b. Each Generating Plant Auxiliary Load other than (a) above and where the Station Auxiliary Load is supplied from the Grid.	
<i>Please attach the following:</i>	
a. Physical Layout	
b. Electrical Layout	
c. Specifications	
d. Protections	

<b>CONNECTION SCHEME</b>
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*Provide a single line diagram of the connection scheme showing the details of the main connection facilities:*

- |   |
|---|
| <ul style="list-style-type: none"> <li>a. NGCP facility where the connection of power plant will be made</li> <li>b. Length of the connection line including the type of conductor and structure used</li> <li>c. MVA Rating of the transformers</li> <li>d. MVAR Rating of Shunt Capacitors or Shunt Reactors, if any</li> </ul> |
|---|

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## D. SUBSTATION AND TRANSMISSION FACILITY

### Line Information

Line Name	Operating Voltage Level (kV)	Length (km)	Type of conductor		Actual Rating (MVA)	R	X	B	Year of Commissioning	Age (Year)	Connected Generator /Load
			No. of Bundles	Conductor size							

Please add rows as necessary

### Line Structure Information

Number	Type	Coordinates

Please add rows as necessary

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**Power Circuit Breaker**

Substation Name	System Voltage (kV)	Type (Live Tank or Dead Tank)	Continuous Rating (A)	Breaker Interrupting Capacity (kA)	Manufacturer	Year of Commissioning	Age (Year)

*Please add rows as necessary*

**Reactive Compensation Equipment**

Substation Name	Rated Voltage (kV)	Rated Capacity (MVar)	Manufacturer	Year of Commissioning	Age (year)	Status

*Please add rows as necessary*

**ACCOMPLISHED BY:**

**SIGNATURE:** \_\_\_\_\_

**NAME:** \_\_\_\_\_

**POSITION:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

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  - GP 5.5. Detailed Planning Data
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- The latest Estimated Equipment Data during the execution of Connection Agreement shall serve as the Committed Project Planning Data pursuant to section GCR 4.11.2.3
- User shall fill-out Form B – Registered Equipment Data for the updated Estimated Equipment Data during the actual connection of User's facility to the Grid which shall serve as the Connected Project Planning Data pursuant to section GCR 4.11.2.4