### For interconnection of distributed generation to Otter Tail Power Company

WHO SHOULD FILE THIS SUBMITTAL: Anyone in the final stages of in terconnecting a Generation System with Otter Tail Power. This submittal shall be completed and provided to Otter Tail Power's Generation Interconnection Coordinator during the design of the Generation System, as established in the "Otter Tail Power's State of North Dakota Interconnection Process for Distributed Generation Systems".

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**INFORMATION:** This submittal is used to document the interconnected Generation System. The Applicant shall complete as much of the form as applicable. The Applicant will be contacted if additional information is required.

OWNER / APPLICANT					
Company / Applicant:					
Representative:	Phone Number:	FAX Number:			
Title:					
Mailing Address:					
Email Address:					
PROPOSED LOCATION	NOF GENERATION SYST	EM INTERCONNECTION			
Street Address, Legal Descrip	otion or GPS coordinates:				
PROJECT DESIGN / EN	IGINEERING (if applicable	e)			
Company:					
Representative:	Phone:	FAX Number:			
Mailing Address:					
Email Address:					
ELECTRICAL CONTRA	CTOR (if applicable)				
Company:	· · · · · · · · · · · · · · · · · · ·				
Representative:	Phone:	FAX Number:			
Mailing Address:	,	,			
Email Address:					
TYPE OF INTERCONNE					
Interconnection / Transfer method:					
□ Open □ Quick Open □ Closed □ Soft Loading □ Inverter					
Proposed use of generation:	(Check all that may apply)	Duration Parallel:			
□ Peak Reduction □ Standby	r □ Energy Sales	□ None □ Limited □ Continuous			
□ Cover Load					
Pre-Certified System: Yes /	Pre-Certified System: Yes / No (Circle one) Exporting Energy Yes / No				

GENERATION SYSTEM OPERATION / MAINTENANCE CONTACT INFORMATION					
Maintenance Provider:	Phone #:	Pager #:			
Operator Name:	Phone #:	Pager #:			
Person to Contact before remote starting of units					
Contact Name:	Phone #:	Pager #:			
24hr Phone #:					

GENERATION SYSTEM OPERATING INFORMATION			
Fuel Capacity (gals):	Full Fuel Run-time (hrs):		
Engine Cool Down Duration (Minutes):	Start time Delay on Load Shed signal:		
Start Time Delay on Outage (Seconds):			

ESTIMATED LOAD				
The following information will be used to help properly design to intended as a commitment or contract for billing purposes.	ne interconnection.	This Information is not		
Minimum anticipated load (generation not operating): kW: kVA:				
Maximum anticipated load (generation not operating):	kW:	kVA:		

REQUESTED CONSTRUCT	ION START/COMPLETION DATES
Design Completion:	
Construction Start Date:	
Footings in place:	
Primary Wiring Completion:	
Control Wiring Completion:	
Start Acceptance Testing:	
Generation operational	
(In-service):	

(Complete all applicable items, Copy	this page as required for additional ge	enerators)		
SYNCHRONOUS GENERATO	R (if applicable)			
Unit Number:	Total number of units with listed specifications on site:			
Manufacturer:	Type:	Phases: 1 or 3		
Serial Number (each)	Date of manufacture:	Speed (RPM):	Freq. (Hz);	
Rated Output (each unit) kW Standby	y: kW Prime:	kVA:	•	
Rated Power Factor (%):	Rated Voltage(Volts):	Rated Current (Am	iperes):	
Field Voltage (Volts):	Field Current (Amperes):	Motoring Power (kW):		
Synchronous Reactance (X <sub>d</sub> ):	% on	kVA base		
Transient Reactance (X'd):	% on	kVA base		
Subtransient Reactance (X"d):	% on	kVA base		
Negative Sequence Reactance (X <sub>s</sub> ):	% on	kVA base		
Zero Sequence Reactance (X₀):	% on		kVA base	
Neutral Grounding Resistor (if applica	ıble):			
I <sup>2</sup> t or K (heating time constant):				
Exciter data:				
Governor data:				
Additional Information:				

<b>INDUCTION GENERATOR</b> (if a	pplicable)		
Rotor Resistance (R <sub>r</sub> ):	Ohms	Stator Resistance (R <sub>s</sub> ):	Ohms
Rotor Reactance (X <sub>r</sub> ):	Ohms	Stator Reactance (X <sub>s</sub> ):	Ohms
Magnetizing Reactance (X <sub>m</sub> ): Ohm	S	Short Circuit Reactance (2	X <sub>d</sub> "): Ohms
Design Letter:		Frame Size:	
Exciting Current:		Temp Rise (deg C°):	
Rated Output (kW):			
Reactive Power Required:		k Vars (no Load)	kVars (full load)
If this is a wound-rotor machine, descri converter, etc.) to rotor circuit, and circ to provide power system voltage regula	uit configuration.		ed (resistor, rheostat, power adjust generator reactive output
A 1 100 11 6 10			
Additional Information:			
PRIME MOVER (Complete all a	pplicable items	)	
Unit Number: Type	e:		
Manufacturer:			
Serial Number:		Date of Manufacture:	
H.P. Rated: H.P.	. Max:	Inertia Constant:	lbft. <sup>2</sup>
Energy Source (hydro, steam, wind, wi	nd etc.):		

INTERCONNECTION (STEP-UP) TRANSFORMER (If applicable)						
Manufacturer:			kVA:			
Date of Manufacture:		Serial Number:				
High Voltage:	kV	Connection: del	ta wye		Neutral solidly grounded?	
Low Voltage:	kV	Connection: del	ta wye		Neutral solidly grounded?	
Transformer Impedance (Z):				% on		kVA base
Transformer Resistance (R):				% on		kVA base
Transformer Reactance (X):		% on kVA base				
Neutral Grounding Resistor (if applicable)						

TRANSFER SWITCH (If applicable)	
Model Number:	Type:
Manufacturer:	Rating(amps):

Manufacturer:	Model:	
Rated Power Factor (%):	Rated Voltage (Volts):	Rated Current (Amperes):
Inverter Type (ferroresonant, st	ep, pulse-width modulation, etc.):	
Type of Commutation: forced	line Minimum Short Circu	uit Ratio required:
Minimum voltage for successfu	I commutation:	
Current Harmonic Distortion	Maximum Individual Harmonic (	%):
Maximum	Total Harmonic Disto	rtion (%):
Voltage Harmonic Distortion	Maximum Individual Harmonic (	%):
Maximum	Total Harmonic Disto	rtion (%):

NOTE: Attach all available calculations, test reports, and oscillographic prints showing inverter output voltage and current waveforms.

POWER CIRCUIT BREAK	KER (if applic	able)				
Manufacturer:			Model:			
Rated Voltage (kilovolts):			Rated Amp	pacity (Am	peres):	
Interrupting Rating (Amperes):			BIL Rating	:		
Interrupting Medium (vacuum, o	oil, gas, etc.)		Insulating	Medium (v	acuum, oil, gas, o	etc.)
Control Voltage (Closing):	(Volts)	AC	C DC			
Control Voltage (Tripping):	(Volts)	AC	C DC	Battery	Charged Capac	citor
Close Energy (circle one):	Spring	Motor	Hydra	ulic	Pneumatic	Other
Trip Energy (circle one):	Spring	Motor	Hydra	ulic	Pneumatic	Other
Bushing Current Transformers	(Max. ratio):			Relay	Accuracy Class:	
CT'S Multi Ratio? (circle one);	No / Yes:	(Availab	ole taps):			

MISCELLANEOUS comments)	(Use this area and any additional	sheets for applicable notes and
SIGN OFF AREA		
agree to supply Otter T are made in the equipr to design, operate and	ment used or the design of the proposed	Data Submittal any time significant changes Generation Sy stem. The Applicant agrees the requirements set forth by the "Otter
Applicant Name (print)	:	
Applicant Signature:		Date:
	ETED & SIGNED ENGINEERING DATA SI R TAIL POWER'S GENERATION INTERCO	UBMITTAL AND ANY ATTACHMENTS TO DINNECTION COORDINATOR