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U.S. DEPARTMENT OF ENERGY – BONNEVILLE POWER ADMINISTRATION (BPA) LINE AND LOAD INTERCONNECTION REQUEST

<u>WHO SHOULD FILE THIS FORM</u>: Utility customers expressing an interest in connecting transmission line or loads to the Bonneville Power Administration's (BPA) Transmission System (TS). This application should be completed as soon as possible and emailed to Interconnection@bpa.gov in order to begin processing the request.

<u>INFORMATION</u>: This application will be used by BPA to determine the level of planning study required for the interconnection request. These studies are used to determine the connection point location, equipment requirements (*Requester and BPA*), system modifications, etc. to connect transmission lines and/or loads to BPA-TS.

SECTION 1 – INTERCONNECTION REQUESTER AND CONTRACTORS

A. Requester/Owner Infor	mation								
Company Name									
Mailing Address									
City		State	ZIP Code						
Phone Number	Email Address	-	Contact Name						
B. Technical Contact (If different from Requester)									
Company Name									
Mailing Address									
City		State	ZIP Code						
Phone Number	Email Address		Contact Name						
C. Engineering Consultant	(As Applicable)								
Company Name									
Mailing Address									
City		State	ZIP Code						
Phone Number	Email Address		Contact Name						
This Line and Load Interco	nnection Request	is submitted by:							
Title			Name (First, Last) (Please Print or Type)						
Requester Signature			Date						

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<u>SECTION 2 – GENERAL SPECIFICATIONS, LOCATION, AND DIAGRAMS FOR CONNECTION</u>

Preliminary Review Information

A. Maturity:

No Developer (utility customer is seeking exploratory study)

Preliminary (utility customer has had discussions with a developer,

but no commitments)

Contractual Commitments (developer has executed contracts with utility customer, purchased property, initiated state or local permitting processes, etc.)

Comments:						
B. Type of Connection:						
Configuration:		Customer Type at Interconnection Location:				
Radial Load		Point to Point Transmission Service (PTP)				
Network Connec	tion with Other Sources Present	Network Integration Transmission Service (NITS/NT)				
Operating Voltage (kV):		Has the load addition been forecasted in NITS customers Load and Resources Collection (LaRC) Process:				
Requested Energization [Date	Yes No If yes, date of LaRC submittal				
		Balancing Authority Area:				
Comments:						
		te POI Location(s) – Identify the BPA-TS Line or Substation (Note in				
comments if request is fo	or additional load behind an exis	ting connection to BPA-1SJ:				
D. Type of Load: Identify	the characteristics which best of	describe the type of load to be served.				
Residential						
Commercial						
Industrial	Industrial load type:					
	Compu	Computer Processing – Server Farm				
	Chemi	Chemical Processing Plant				
	Alumir	Aluminum Smelter				
	Steel N	Steel Mill				
	Semico	Semiconductor Manufacturing Plant				
	Power	Plant Aux Load				
	Indust	rial – Other				
Comments:						

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SECTION 2 (CONTINUED) – GENERAL SPECIFICATIONS, LOCATION, AND DIAGRAMS FOR CONNECTION

E. Load Data (In the table below, identify the load addition at the time of energization and every year for 10 years)

value for Year:	1	2	3	4	5	6	/	8	9	10
Projected Peak Load [MW]										
Summer Peak Load [MW]										
Winter Peak Load [MW]										
Anticipated Power Factor										
(If this request will also be transferring load from other locations indicate the MW amount or percentage(s) from each substation. Example: Transfer 10% of load from X Substation and 25% of load from Y Substation)										
F. Quality of Service (Special	requireme	nts such a	s redundaı	ncy, power	quality, fre	equency an	d duration	of outage	es, etc.):	
F. Quality of Service (Special requirements such as redundancy, power quality, frequency and duration of outages, etc.):										
G. Future Plans (Where know	n: Provide	informati	on on futu	re plans to	build out t	this project	beyond th	his request):	
H. Electrical One-Line Diagram and Geographic Information Attach an electrical one-line diagram of the project. Show the breaker and switching arrangements, proposed protective relaying, connection to BPA-TS, and any assumed electrical equipment parameters for the connection.										
Provide geographic information of project location (such as address, latitude/longitude coordinates, or attach a GIS map with project location identified):										
SECTION 3 – STUDY DATA REQUIREMENTS										
A. Network Power Flow Model (As required) (Enclose a model using approved WECC format)										
B. Interconnecting Transmission Line(s) or Cable (Provide all parameters in physical units if applicable):										

Length (Miles)

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Nominal voltage [kV]

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SECTION 3 (CONTINUED) – STUDY DATA REQUIREMENTS

Transmissio	n Line Impedances							
	Quantity			Positive Sequen	ces	Zero Sequence		
Series Resist	tance, R Ω							
Series React	ance X Ω							
Shunt Susce	ptance, B μ S (or μΩ ⁻¹)]							
	e be built on common vith other circuits?	Yes						
structures w	in other circuits:	No						
	be transformer-	Yes	End	:		Transforme	er:	
	at either end? If "yes", end(s) and the	No						
	ners (Provide parameters	if applicable)						
Identifier Number of Windi					Autotrans	sformer?	Yes	No
Winding	Nominal Voltage [kV]	Configuration (∆ or	· YG)	Nameplate MVA		/	/	
Н:			. 0,	H to X:				
X:				H to Y:		_ ′		
Y:				X to Y:		_		
	tion:			X to 1.		/	,	
Tap Informa		orational [W]	Availa	ship Tone [I/\/]				
Winding (H,	x, or r) values: Op	perational [kV]	Availa	able Taps [kV]				
				/	_ /	/	/	
D. System Data – Only applicable where generation resources are present or if the connection includes another network source. Provide a system equivalent (R1, X1, R0, X0 in per unit on a 100 MVA base) at the proposed Connection Point looking into the connecting system. These values should be determined such that the system model does not include the physical connection to the BPA System. Assuming there are no other connections to the BPA System at any other point, these quantities are available by computing a single line-to-ground "bus fault" at the proposed Connection Point. E. Generation (If applicable, provide information about onsite back-up generation when connection to the transmission system is lost):								
	E quipment (Location, size VC, TCSC, Sync Condense	= :	More	specific information	ı is required	l for reactive	with dynamic	

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