DLC Impact Study Data Request for Large Loads (more than 5MW)

Instructions: Complete each section of the Data Request below. All fields are required unless otherwise noted. If required fields are not completed, it may result in a delay of the processing of your application or a rejection.

Section 1: Project and Contract Information

Project Name _____

Customer Name _____

Facility Address _____

GPS Coordinates _____

Primary Contact _____

Role	Name	Company	Phone Number	Email
Owner				
Engineer				
Electrician				
Contractor				
Other				

Section 2: General Request Outline and Required Documentation

Nearest Facility Info provided by DLC

Voltage of nearby facilities	
Construction of the Circuit (Overhead or Underground)	
Straight-line distance from the transmission line to customer parcel	

Customer Interconnection Request

Ultimate Load (in MW)[1]	
Requested In-Service Date	

Load type (select from list, if other, please describe):

☐Petro-Chemical Plant	☐Paper Mill – Kraft Process	☐Paper Mill – Thermal-Mech	☐Aluminum Smelter
☐Steel Mill	☐Mining	☐Semiconductor Plant	☐ Power Plant Auxiliary
☐Indoor Agricultire	☐Agricultural Irrigation	☐Agriculture Pumps	☐Nat Gas/Oil Pipeline Pumps
☐Data Center	☐Other:		

[1] The Ultimate Load is the maximum final load for the new facility. The ultimate load provided shall be the sole loading value considered when completing the impact study. For phased projects or temporary power, the submittal of multiple Electric Service Requests and the completion of multiple Data Requests could be required.

Please describe your request in further detail:

Please describe the level of redundancy requested to be provided by Duquesne Light:

Please attach the following documentation:

1. ☐Electrical Single Line (PDF only) **stamped by a PA Licensed Professional Engineer**
2. ☐Site Plan (PDF or CAD only) **stamped by a PA Licensed Professional Engineer**
3. ☐Evidence of site control: either an executed deed, lease, or option to buy the parcel.[2]
4. ☐ Load Ramp Schedule from the in-service date to ten years of service.
5. ☐ Additional Questionnaire for Data Centers if applicable

[2] Memorandums are not acceptable as evidence of Site Control. Additionally, documentation solely evidencing an intent to purchase or control a Site is not acceptable evidence of Site Control. Site Control must be in the customer name identified on the corresponding Electric Service Request. Otherwise, the customer must demonstrate to DLC's satisfaction the relationship between the entity owning or controlling the Site (landowner or owner) with Site Control and the customer identified on the Electric Service Request

Section 3: Electrical Details

Load Ramp Schedule

Please attach a detailed spreadsheet with a monthly load ramp schedule from the in-service date to ten years (120 months) into the future. Please ensure the submittal mimics the table below and includes all data indicated in the column headers. If the load ramp is complex and anticipated to vary seasonally, please account for this in the submittal.

Load Ramp Schedule Step	Description of Planned Customer Milestone or Other Factors Causing Change in Load	Normal Demand (MW)	Anticipated Peak Demand (MW)	Anticipated Power Factor (%)	Anticipated Load Factor (%)
In-Service Month-Year					
In-Service Month-Year + 120 Months			Ultimate Load		

Requested Service Voltage

☐120/240 V, 1Φ-3W	☐120/208 V, 3Φ-4W	☐277/480 V, 3Φ-4W	☐2.4 kV, 3Φ-3W *
☐2.4/4.16 kV, 3Φ-4W *	☐23 kV, 3Φ-3W *	☐13.2/23 kV, 3Φ-4W *	☐138 kV, 3Φ-3W *
☐Other:			

* Indicates primary metered service

Transformer Specifications (if primary metered)

Quantity	kVA	Primary Voltage	Secondary Voltage	Primary Configuration	Secondary Configuration	% Impedance	Available No Load Tap Positions	Load Tap Changer?

Site Protection

Please describe the protective devices and scheme(s) anticipated to be used at the point(s) of interconnection with Duquesne Light to detect and isolate faults within the facility:

Power Electronic Load Information (Ex. Frequency drives, inverters, rectifiers)

Please provide a description of all major loads interfaced using power electronics:

Power Electronic Application	Demand (kW)	Terminal Voltage (Volts)	Protection Type (contractor and/or relay)	Load Protection and Switchover Settings		Reconnection Settings		
				Dropout Voltage (pu)	Delay (cycles) enter 0 for instantaneous	Type (Automatic or Manual)	Reconnect Voltage (pu)	Delay (cycles) enter 0 for instantaneous

If applicable, please provide a description and applicable data for Flexible AC Transmission System (FACTS) proposed at the site for power quality purposes:

Motor Load Information

Please provide a description of all major motor loads:

Motor Application	Motor Connection	Motor Type	Size (kW)	Terminal Voltage (volts)	Inertia (kgm^2)	Protection Type (contractor and/or relay)	Load Protection and Switch-over Settings		Reconnection Settings		
							Dropout Voltage (pu)	Delay (cycles) (enter 0 for instantaneous)	Type (Automatic or Manual)	Reconnect Voltage (pu)	Delay (cycles) (enter 0 for instantaneous)

Examples of Motor Types, Connections, and Applications		
Motor Application	**Motor Connection**	**Motor Type**
HVAC compressor	Direct online	Dc motor
Compressor (centrifugal)	Soft-start	Synchronous motor
Compressor (other)	ASD/VFD connected (ac)	1-phase induction motor
Centrifugal Pump	ASD/VFD connected (dc)	3-phase induction NEMA A
Displacement Pump		3-phase induction NEMA B
Fan		3-phase induction NEMA C
Conveyor		3-phase induction NEMA D
Crusher		Electronically commutated
Hoist		

Onsite Generation or Battery Energy Storage Systems (Behind the Meter)

Please provide a description of all onsite generation loads:

Onsite Generator Description	Intended Usage (Backup Emergency Only / Load Offset)	Gen Size (kVA)	Duration of Continuous Operation (Hrs.)	Gen Low Voltage Threshold (pu), if applicable

Uninterruptible Power Supply

If applicable, please identify each major UPS system by providing a description of what power electronic and/or motor loads the UPS is protecting.

UPS Device Application	UPS Size (kVA)	UPS Duration (Hrs)	UPS Low Voltage Turn-On Threshold (pu, at customer load terminal bus)

Section 4: Submission Signatures

	Date	Signature
Customer submission for queue position		