nationalgrid

Load Sheet

Completely fill out this form otherwise this will **delay** your project
National Grid uses the provided loads to design & construct the requested electrical system

WORK REQUEST # _____

Customer Information

COMPANY NAME		CONTACT NAME	
MAILING ADDRESS	Street	Town/City, State	Zip Code
SERVICE ADDRESS	Street	Town/City, State	Zip Code
TELEPHONE #		E-MAIL	
ELECTRICIAN NAME		TELEPHONE #	

Load Information

Fill section below with **new** load for any 3ph service or 1ph greater than **200 amps**
For each line below provide connected load in **Total kW** or **HP** (do not duplicate)
Note: If there are multiple buildings, please submit a separate Load Sheet for each.

SERVICE SIZE _____ **amps** _____ **volts** _____ **phase**

SQUARE FOOTAGE* _____

Equipment Type	kW		Usage	
INSIDE LIGHTING		for		hrs/year
OUTSIDE LIGHTING		for		hrs/year
ELECTRIC HEATING		for		hrs/year
AIR CONDITIONING		for		hrs/year
WATER HEATING		for		hrs/year
REFRIGERATION		for		hrs/year

Additional Equipment	kW	# of Units		Usage	
			for		hrs/year
			for		hrs/year
			for		hrs/year
			for		hrs/year
			for		hrs/year
			for		hrs/year
			for		hrs/year

Motors**	HP	# of Units		Usage	
			for		hrs/year
			for		hrs/year
			for		hrs/year
			for		hrs/year

Total Connected Load		**kW**
Total Diversified Load		**kW**

*Square Footage is required to size service correctly
**Complete next page w/ NEMA code for 3 ph motors >15 HP & 1 ph motors > 5 HP

Job Description

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Motor Data Sheet

Completely fill out and submit this form for <u>each</u> new motor either 3ph > 15 HP or 1ph > 5 HP
If this data is not provided this will **delay** your project

MOTOR DATA

Largest	Use				
HP					
Rated Volt	**Phase**	**Site Installation**	**Rated P.F.**	**Locked Rotor Code Letter**	**Start Under Load?**
V	☐ 1 ☐ 3	☐ New ☐ In use			☐ Yes ☐ No

MOTOR OPERATION

Type of Use	Peak Use
☐ Permanent ☐ Seasonal ☐ Temp	☐ Summer ☐ Winter ☐ Day ☐ Night ☐ Other:

Starts/Unit	Dips/Unit	Starter if Used
per	per	☐ Auto ☐ Manual ☐ 80% Tap ☐ 65% Tap ☐ Other:

Applied Volt	Remarks/Further Description of operation, motor starting or in-rush current surges
V	

WELDER DATA

Largest	Used for
kVa max. input when sec. term. are short circuited	

Rated Pri Volt	Phase	Site Installation	Rated P.F.	Other welders on site?
V	☐ 1 ☐ 3	☐ New ☐ In Use		☐ Yes ☐ No

WELDER OPERATION

Type of Use	Peak Use
☐ Permanent ☐ Seasonal ☐ Temp	☐ Summer ☐ Winter ☐ Day ☐ Night ☐ Other:

Welds/Unit	Length of Use	Basic Operational Use
per	per weld	☐ Production ☐ Intermittent ☐ Occasional ☐ Other

Applied Volt	Duty Cycle	Remarks/Further Description
V	% @ kVa	

CUSTOMER OPERATING LIMITATION

The % of regulation allowed for a range of ____ to ____ starts/welds per ____ or a range of ____ to ____ dips per is:

	Starts/Welds				Dips				LIMITATION REQUIRED			
	ALLOWED		CALCULATED		ALLOWED		CALCULATED					
STATION		%		%		%		%		AMPS @		VOLTS
FEEDER		%		%		%		%		AMPS @		VOLTS
CUSTOMER		%		%		%		%		AMPS @		VOLTS

CUSTOMER OPERATING LIMITATION Check here if additional motor data attached ☐

An inrush limitation of ____ AMPS @ ____ V shall apply to this customer. This limitation shall apply to the starting of one or more motors, and/or the operation of one or more welders simultaneously. The customer will be responsible for remedial measures should the operation of the motors or welders create disturbances to other customers.

Notes: Momentary fluctuation of the circuit voltage occurs each time a motor is started on the circuit. Where this affect is pronounced, the Customer or other customers served from the same system may observe a visual disturbance or lighting flicker. To suppress objectionable voltage variations and maintain proper service to the Customer and their neighbors, it is necessary to set a maximum permissible limit to the current draw from the service during each step of a motor-starting operation based upon the frequency of starts. These limits are designed to cover typical cases and the company gives no warranty that particular conditions may not later require a change.

The specific motor-starting current limitations furnished by the company means the maximum allowable increase in current on the line side of the motor-starting device at any instant during the starting operation. This limitation does not restrict the total current that can be taken by the motor, but may require that this total be built up gradually, or in steps during starting. Where a step-type starter is used, an appreciable time must be allowed on each step and the current increase of each step shall not exceed the imposed limitation. Close transition between starting steps is required. When motors are started as groups instead of individually, the current limitations apply to the group and not the individual motors.