

Here are a list of questions OTEC will need to process the VFD calculator required for BPA projects.

Please contact your local OTEC office with questions.

Irrigator contact: _____

Installer contact: _____

Estimated date of installation: _____

Irrigators address: _____

City: _____ State: _____

Zip: _____ Member Sep # (If known): _____

Meter #: _____ Irrigator Phone #: _____

Irrigator Email: _____

What is the size of the pump after installing the VFD: _____

Did you change the size of the pump - YES OR NO: _____

If yes what was the size of the pump before adding the VFD: _____

Type of Pump – Turbine or Centrifugal: _____

Pump Manufacturer: _____ Model: _____

Rated Head (or TDH) (nameplate or curve): _____ feet

Rated Flow (from nameplate or curve): _____ gpm

Pump Depth: _____ feet Estimated Lift: _____ feet

Highest expected lift (or inlet pressure): _____ feet

Lowest expected lift: _____ feet

Discharge pressure Maximum lift: _____ psi gauge

Discharge pressure minimum lift: _____ psi gauge

Highest Expected Flow _____ gpm Lowest Expected Flow _____ gpm

Does the system pressure get to high? _____

If yes, how is it controlled? (PRV, throttling, dumping) _____

Equipment Description

Main Pump – where VFD to be installed: _____ horsepower

Motor load factor: _____

Estimated Hours of operation per season: _____

Centrifugal booster pump – if any: _____ horsepower

Motor load factor: _____

Estimated Hours of operation per season: _____

Pivot 1 – how many towers: _____ How many HP each: _____

Motor load factor: _____

Estimated Hours of operation per season: _____

Pivot 2 – how many towers: _____ How many HP each: _____

Motor load factor: _____

Estimated Hours of operation per season: _____

Is there an end gun booster pump? Yes or No _____

If yes – which pivot: _____

If yes – how many HP: _____

If yes - Motor load factor: _____

Estimated Hours of operation per season: _____

Any other pivots: _____

If yes list out how many towers and how many HP each, motor load factor and estimated hours
(If your vfd is feeding a wheel line – include that information)

Crop data

1-year post installation of VFD if known – what crop(s) where grown: _____

How many acres of each type of crop: _____

What type of irrigation system: _____

ie: pivot with drops, pivot with LESA/LEPA drop, wheel line, etc

If existing pump, please complete the 3 years pre-install information:

1-year pre installation of VFD – what crop(s) where grown: _____

How many acres of each type of crop: _____

What type of irrigation system: _____

le: pivot with drops, pivot with LESA/LEPA drop, wheel line, etc

2-year pre installation of VFD – what crop(s) where grown: _____

How many acres of each type of crop: _____

What type of irrigation system: _____

le: pivot with drops, pivot with LESA/LEPA drop, wheel line, etc

3-year pre installation of VFD – what crop(s) where grown: _____

How many acres of each type of crop: _____

What type of irrigation system: _____

le: pivot with drops, pivot with LESA/LEPA drop, wheel line, etc

Any other information: _____

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- We need invoice with manufacturer, model number, purchase date, cost type of equipment etc., with this information to proceed
 - VFD's must be installed on pumping operations that deliver, distribute or transport irrigation water that are between the sizes of 7.5 horsepower to 1,000 horsepower
 - For new construction systems pumps must be designed for substantial variation in flow rates (20% or more for turbine) and discharge pressure requirements (10% or more for turbine & 20% or more variation for centrifugal)