

DUST COLLECTION FANS VFDs

Checklist

Project Name _____ Address: _____

Existing Conditions Requirements		Check/Fill in
Photo of the SCE meter*		<input type="checkbox"/>
Recent SCE bill <ul style="list-style-type: none"> SCE bill should show the recent usage of the photographed meter 		<input type="checkbox"/>
Photos of existing fans operating* <ul style="list-style-type: none"> Provide photos of existing system including baghouse, fan, and motor that show that the existing fan is used for dust collection process 		<input type="checkbox"/>
Provide logs of system operation (if available) to confirm the host fan and motor are in proper operating condition		<input type="checkbox"/>
Photos of nameplates/model numbers* <ul style="list-style-type: none"> One photo of a nameplate for each unique model that will have a VFD added. If nameplates are deteriorated, take a photo 		<input type="checkbox"/>
Ensure existing fan motors are single speed, do not already have VFDs, and are VFD-compatible <ul style="list-style-type: none"> Existing motors must be inverter duty, VFD-ready, or have an insulation classification F. Photos of on/off controls and/or fan spec sheets documenting the existing fans are single speed* 		<input type="checkbox"/>
Photos of the location where the fans are being replaced/installed* <ul style="list-style-type: none"> Photos of the agriculture structure in which the fans will be replaced/installed 		<input type="checkbox"/>
Confirm existing fans are between 10 HP and 150 HP <ul style="list-style-type: none"> Either through photos or fan equipment spec sheets. Horsepower ratings of the existing fans are required. 		<input type="checkbox"/>
Spec sheets of host baghouse fan/motor/blower		<input type="checkbox"/>
Fan CFM rating		_____

Project Type	Check
Installing VFDs on existing fans	<input type="checkbox"/>
Replacing fans or motors with new constant-speed fans or motors and installing VFDs on new fans	<input type="checkbox"/>

Proposed VFD Eligibility	Check
VFDs must automatically vary the speed of the fans based on ambient conditions	<input type="checkbox"/>
For host baghouse fan motors larger than 50 HP, the fan must have a capacity of at least 150 CFM per rated HP	<input type="checkbox"/>
VFD HP rating matches or is larger than the host fan HP	<input type="checkbox"/>

Proposed VFD Documentation		Check/Fill in
Manufacturer spec sheets of proposed VFDs		<input type="checkbox"/>
Proposed VFD control strategy (circle one) <ul style="list-style-type: none"> The installed VFD must be controlled based on static pressure, airflow rate (cfm), or velocity at the lowest required rate to keep particulates suspended in the air stream 	Static Pressure Airflow Rate (CFM) Air Velocity*	

Quantity of each proposed VFD ▪ Break out quantity by each model being installed	
W9 form filled out	<input type="checkbox"/>
Estimated Installation Completion Date _____	<input type="checkbox"/>

*Air velocity: Minimum air velocity required to keep particulates suspended in the air stream

Closeout Documentation Needed

The below items will be required after the installation is complete. (Refer to Measure Checklist for other requirements).

- Signed attestation
- Photos of installed fixtures operating*
- Photos of VFD nameplates*
 - At least one photo of a nameplate for each unique model being installed
- Photos or documentation of VFD control strategy*
- Photos of the location where VFDs are being installed (should be within 30 meters of the fans they serve)*
- Photos of the fans being controlled by the VFDs*
- Photos of the nameplates of the fans/motors being controlled by the VFDs*
- Paid itemized invoice for materials and labor
- Serial numbers for each VFD installed

*All photos must be geotagged and dated.

For questions or clarification for check list items, please contact our program team at AgEE@CAEnergyPrograms.

Proposed VFD Info

VFD Manufacturer	VFD Model Number	VFD Horsepower	VFD Control Strategy	Quantity	Fan Manufacturer	Fan Model Number	Fan Horsepower	Fan CFM