

Inverter/Design Changes By Project Phase & Customer Required Action

Project Study Phase		Inverter/Design Change Type	Next Steps & Required Action	Schedule Impact
Distribution	Pre-Impact Study	Any	Customer to provide all documents in interconnection application package and inverter cut sheet reflecting updated/new inverter and/or design. All new documentation will go through the same review and approval process.	Minimal - review of new documentation will take place.
	During Impact Study	<ol style="list-style-type: none"> Design revisions Only inverter Model # Change 	<ol style="list-style-type: none"> Design revision is defined as any change that would cause the project to have a different impact on the distribution system. Some examples of design revisions include: configuration from string to central and vice versa, downsizing, derating, alter fault currents, transformer and/or addition of storage. A new document package with updated information is required to be submitted to the Account Executive. New updated one line, inverter cut sheets, battery narrative and any documentation (including application) referencing the original inverter will need to be provided. Verification will take place that inverter characteristics and functionality are the same. 	<ol style="list-style-type: none"> Study completion is delayed as restudy may be required on certain portions. Storage system additions will follow Interim Guidance issued 2/28/20. Minimal - verification process will take place.
	Post Impact Study - no queue behind application and no ISA issued	<ol style="list-style-type: none"> Design revisions Only inverter Model # Change 	<ol style="list-style-type: none"> Design revision is defined as any change that would cause the project to have a different impact on the distribution system. Some examples of design revisions include: configuration from string to central and vice versa, downsizing, derating, alter fault currents, transformer and/or addition of storage. A new document package with updated information is required to be submitted to the Account Executive. New updated one line, inverter cut sheets, battery narrative and any documentation (including application) referencing the original inverter will need to be provided. Verification will take place that inverter characteristics and functionality are the same. 	<ol style="list-style-type: none"> A restudy will be required resulting in a delayed ISA issuance. Storage system additions will follow Interim Guidance issued 2/28/20. Likely minimal - verification process will take place. This review may result in delayed ISA issuance.
	Post Impact Study - queue behind application and no ISA issued	<ol style="list-style-type: none"> Design revisions Only inverter Model # Change 	<ol style="list-style-type: none"> Design revision is defined as any change that would cause the project to have a different impact on the distribution system. Some examples of design revisions include: configuration from string to central and vice versa, downsizing, derating, alter fault currents, transformer and/or addition of storage. A new document package with updated information is required to be submitted to the Account Executive. If a restudy is required, the revised application will be put behind the last applicant in queue. New updated one line, inverter cut sheets, battery narrative and any documentation (including application) referencing the original inverter will need to be provided. Verification will take place that inverter characteristics and functionality are the same. 	<ol style="list-style-type: none"> Significant delay - a restudy will be required resulting in a delayed ISA issuance. Storage system additions will follow Interim Guidance issued 2/28/20. Likely minimal - verification process will take place. This review may result in delayed ISA issuance.
Transmission	Before ISO PPA submittal	<ol style="list-style-type: none"> Design revisions Only inverter Model # Change 	<ol style="list-style-type: none"> Design revision is defined as a modification that changes: inverter size, transformer, connectivity/configuration, voltage, frequency relay set points, ride through settings, PSCAD model and/or stability model from what the DG applicant submitted most recently for Eversource review. A new one line with updated modeling data are required to be submitted to the Account Executive. Simply changing from one inverter model # to another (same manufacturer, PSCAD and stability model) will only require notification and an updated one-line to the Account Executive to pass along to Transmission Planning 	<ol style="list-style-type: none"> Study completion (if already underway) and PPA submission delayed. Transmission will work with Distribution on storage system additions as Distribution will follow Interim Guidance issued 2/28/20. No impact.
	After ISO PPA submittal	<ol style="list-style-type: none"> Design revisions and/or project's size is increased Only inverter Model # Change 	<ol style="list-style-type: none"> Design revision is defined as a modification that changes: inverter size, transformer, connectivity/configuration, voltage, frequency relay set points, ride through settings, PSCAD model and/or stability model from what the DG applicant submitted most recently for Eversource review. A review will need to be done to determine if additional analysis is required (including if the existing study level is still valid). A new one line with updated modeling data are required to be submitted to the Account Executive. If PPA has been submitted and approved, design revisions will require the review stated above with any follow up analysis needed followed by PPA revision and resubmittal to ISO-NE. Simply changing from one inverter model # to another (same manufacturer, PSCAD and stability model) will only require notification and an updated one-line to the Account Executive to pass along to Transmission Planning 	<ol style="list-style-type: none"> Restudy could be required before PPA resubmission to ISO-NE, leading to delays. Note that the ISO-NE RC meets monthly and has required deadlines to get on the next month's agenda. No impact.