

Information Request CF-1-45

With respect to the Company's response to EFSB-N-17, which states that it will install a spare 62.5 MVA 115/14kV transformer at the Chelsea Substation to mitigate the predicted need in 2016:

- a. Approximately how many square feet of unused space currently exist at the Chelsea Substation location for the installation of new equipment such as your proposed "spare" transformer?
- b. When combined with the existing Chelsea Substation and Mystic Substation, will the spare transformer described in the Company's response to EFSB-N-17 provide sufficient load to meet the projected demand over the next ten years?

Response

- a. A "de-energized" spare 62.5 MVA 115/14-kV transformer would take up area of approximately 33 feet by 37 feet or 1,200 square feet. There is sufficient space to store a spare transformer at the Chelsea Substation, however there would not be sufficient room to connect it as a fourth transformer as there is no room to create a 115-kV switching source for the transformer.
- b. The mitigation plan does not provide additional transformer capacity, but rather reduces the time to place the replacement transformer into service. Chelsea Station #488 does not have any spare 115-kV board positions to terminate a new 115/14kV transformer. The mitigation plan places a spare, de-energized 115/14-kV 62.5 MVA transformer on-site at Chelsea Station #488. Upon the failure of one of the three existing transformers at Chelsea Station #488, the Company would mobilize crews to remove the faulted transformer. After the failed transformer has been removed from the station, crews would perform the necessary actions to place and assemble the spare transformer on the foundation associated with the faulted transformer. Subsequently, the transformer would be connected to the 115-kV board position associated with the faulted transformer.