

Interrogatory CSC-I-1

The United Illuminating Company

Witness: Charles Wallis
Rich Pinto

Petition No. 1321

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Q-CSC-I-1: Page 7 of the petition states the motor operator disconnects and new 345 kV cabinets would be raised above flood levels "as identified by the Federal Emergency Management Agency (FEMA) and compliant to UI standards." Identify the FEMA flood level designation that pertains to this statement and to what elevation above this flood level this equipment would be raised.

A-CSC-I-1: The new 100 year flood elevation at East Shore is 12 feet. The new equipment "critical components" are proposed to be installed at an elevation of the new FEMA 100 year flood level plus 3 feet which approximates the FEMA 500 year flood level plus 1 foot for the UI CT coastline (i.e. Bridgeport to New Haven).

Interrogatory CSC-I-2

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Q-CSC-I-2: What flood level do FEMA standards require UI to consider?

A-CSC-I-2: For coastal substation flood protection UI referenced FEMA flood maps, ASCE-24-2014 (Flood Design Class 4), plus an extra 1-foot allowance for future sea level rise (per FEMA minimum recommendations). These guidelines combine to provide a design flood protection level that is the higher of either a) 100-year flood level + 3 feet or b) 500 year flood level + 1 foot.

Note that for design consistency along the CT Bridgeport to New Haven coastline UI has adopted 100-year + 3 foot design flood elevation level which is approximately equal to the 500 year + 1 foot level.

Interrogatory CSC-I-3

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Q-CSC-I-3: Would other proposed equipment need to be installed above the FEMA flood level identified in Question 1 above? If not, please indicate why not.

A-CSC-I-3: For existing substations, UI has adopted the FEMA 100 year flood elevation as the threshold for flood mitigation action. Based on this criterion for existing substations, UI has concluded that all critical equipment components at East Shore are above the FEMA 100 year flood elevation level with the exception of the components being upgraded as part of this proposed project, which will be elevated to the FEMA 100 year flood elevation level plus 3 feet which is above the 500 year flood elevation level.

Interrogatory CSC-I-4

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Q-CSC-I-4: Could the proposed equipment be installed above the FEMA-designated 500 year flood level? What height above mean sea level would equipment have to be raised to accomplish this?

A-CSC-I-4: All proposed equipment will be elevated to the FEMA 100 year flood elevation level plus 3 feet which is above the 500 year flood elevation level at this location.

Interrogatory CSC-I-5

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Q-CSC-I-5: How would the proposed equipment be protected from storm surge?

A-CSC-I-5: The 100 flood elevation plus three feet design flood elevation level includes consideration for storm surge.

Interrogatory CSC-I-6

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Q-CSC-I-6: Is UI developing a flood protection – storm surge plan for the entire substation and /or critical components for implementation at a later date?

A-CSC-I-6: As described in the response to Question #3 above, UI has concluded that all other critical equipment at this existing substation is elevated to a sufficient level (i.e. at or above the 100 year level) and therefore no further flood mitigation action is planned