

PON 4192 Flexible Technical Assistance (FlexTech) Climate Resilience Questionnaire



The Sections below are relevant for the purposes of the FlexTech climate resilience screening. All projects are required to evaluate for climate resiliency by completing this Questionnaire for each building included in the project. The completed questionnaire(s) shall be submitted with the Final Report Deliverable.

Instructions:

- **Section #1:** All projects shall complete. Provide supporting flood mapping as an attachment with this document.
- **Section #2:** All projects shall complete.
- **Section #3:** Shall be completed if the answer to any of the questions in Section #1 or Section #2 is “Yes”.
- **Section #4:** Only P-12 Public School projects shall complete. Provide supporting Heat Vulnerability mapping as an attachment with this document.

FlexTech Application #: _____

NYSERDA Purchase Order #: _____

Project: _____

Building (Name/Address): _____

SECTION #1 – FLOOD HAZARD & SEA LEVEL SCREENING

Determine whether the project site and/or project building is exposed to a mapped flood hazard by evaluating the below. If no flood hazard mapping is available for the project site/building, proceed to Section #2 below.

1.1 For all locations statewide, except NYC:

- A. Access FEMA’s [National Flood Hazard Layer Viewer](#) and search for the project’s address. Respond to the following:

Is the project site and/or project building fully or partially located in a FEMA flood hazard zone?

- Yes.
- No
- Mapping Not Available

If Yes, provide the following:


- Flood Hazard Zone Classification: _____
- Base Flood Elevation: _____

- B. Access NOAA’s [Sea Level Rise Viewer](#), adjust the water level on the left to 3 ft, and search for the project’s address. Respond to the following:

Is the project site and/or project building fully or partially located in the flooded area?

- Yes
- No

1.2 For NYC locations only:

- A. Access the [NYC Flood Hazard Mapper](#) and search for the project’s address. Turn on the following Map Layers : Preliminary Flood Insurance Rate Maps 2015, High Tide 2080s, and Future Floodplain 2080s. Respond to the following:

Is the project site and/or project building fully or partially located in a flood hazard zone?

- Yes
- No

If Yes, provide the following:

- Flood Hazard Zone Classification: _____
- Base Flood Elevation: _____

Is the project site and/or project building fully or partially located in the High Tide 2080s sea level rise flooded area?

- Yes, Low Estimate (13 inches SLR)
- Yes, Low-Mid Estimate (18 inches SLR)
- Yes, Middle Estimate (29 inches SLR)
- Yes, Mid-High Estimate (39 inches SLR)
- Yes, High Estimate (58 inches SLR)
- No

Is the project site and/or project building fully or partially located in the Future Floodplain 2080s flooded area?

- Yes, 1% Annual Chance Floodplain
- Yes, 0.2% Annual Chance Floodplain
- No

SECTION#2- HISTORICAL FLOODING

2.1 Determine whether the project site has a history of flooding.

Based on project owner's or property manager's knowledge and past experience, has the project site and/or project building ever experienced significant flooding? Significant flooding includes any flooding that caused any damage to the site, building(s) or disrupted operations to any extent.

- Yes
- No

2.2 Document past flooding at the project site

If the response to Item 2.1 was Yes, the site could be exposed to flood hazard. Document all known past flood events, including the date of the event (and whether associated with any major storm, e.g. Hurricane Ida) and a description of the flooding on site including any reference points to observed flood elevation/level, the degree of any damage, and the degree of any operational disruption.

3.1 Are any existing flood protection measures currently being employed at the project site and/or project building?

- Yes
- No

If Yes, describe the existing flood protection measures:

3.2 Document the extent to which the existing HVAC system and/or building envelope is exposed to flooding. Provide elevations of critical components, if available.

3.3 Document the extent to which recommended HVAC and/or building envelope project measures (improvements) will be exposed to flooding.

3.4 Discuss flood protection measures being proposed and/or recommended for consideration, to prevent damage and/or maintain operation of critical building components (including HVAC) during a flood event. Flood protection measures may include, but are not limited to:

- Location of mechanical, electrical, and emergency (backup) power equipment above the flood elevation
- Provision of flood-proofing and/or flood barriers when and where this equipment cannot be located above the flood elevation

SECTION #4 – HEAT VULNERABILITY PUBLIC SCHOOLS

This Section shall be completed for all P-12 public school Projects.

4.1 Determine if the project building is located in an area vulnerable to extreme heat by evaluating the below:

A. For all locations statewide, except NYC: Identify the County and census tract where the project building is located on [NYS' Heat Vulnerability Index](#).

Is the project building (school) located in the top 3 high vulnerability categories?

- Yes
 No

B. For NYC locations only: Identify the neighborhood where the project building is located on [NYC's Heat Vulnerability Index](#).

Is the project building (school) located in a Heat Vulnerability Index (HVI) designated area of 4 or 5?

- Yes, HVI 4
 Yes, HVI 5
 No

Complete Items 4.2 and 4.3 below if the answer to Item 4.1A or Item 4.1B is “Yes” as the site could be vulnerable to extreme heat.

4.2 Document if the project building has existing air conditioning or other cooling systems, and its extent. If only part of the building is air-conditioned/cooled, estimate the percentage of the building that is air-conditioned/cooled (i.e. = Building Conditioned (Cooling) Square Footage divided by Building Gross Square Footage).

4.3 If the project building has no or partial air conditioning, note whether A/C or other cooling system measures are being recommended as part of the Project.

SUPPORTING DOCUMENTATION

Provide the following as an attachment with this Document:

- Flood Hazard Mapping (all projects)
- Heat Vulnerability Index Map (P-12 public school Project only)

