Form L: Resiliency and Sustainability Checklist and Narrative

Proposed Projects should support HPD and NYC’s low carbon, climate resilient, healthy and equitable design goals. Our goal is to support projects that take a holistic, integrated approach that addresses the Project’s unique risks and opportunities and the population’s unique needs. Note that all HPD projects are required, at minimum, to meet resiliency and sustainability requirements established in the [**HPD Design Guidelines for New Construction**](https://www.nyc.gov/assets/hpd/downloads/pdfs/services/hpd-design-guidelines-for-new-construction.pdf)**.**

HPD’s Design Guidelines reference standards in the [**NYC Climate Resiliency Design Guidelines (CRDG) v4.1**](https://climate.cityofnewyork.us/initiatives/climate-resiliency-design-guidelines/) and meet specific sustainability targets in 2020 Enterprise Green Communities with NYC Overlay v2.0 or with LEED v4 Gold or Platinum. These resources offer further instruction on resilient and sustainable design that surpasses what’s required in the building code.

Attention will be paid to how well Proposals integrate cost-efficient resiliency and sustainability strategies. Resiliency strategies should also consider current and future climate risks across the Site, building structure, and building systems, using the HPD Design Guidelines for New Construction and NYC CRDG v4.1 to plan for the full useful life of the Project.

**1. PROJECT NARRATIVE**

In 500 words or less, please describe how the Project has been designed holistically to meet and/or exceed HPD’s resiliency and sustainability goals.

*[Type your answer here.]*

**RESILIENCY (questions 2-3)**

**2. Climate Exposure Threshold Criteria (see HPD Design Guidelines for New Construction)**

The Climate Resiliency Threshold criteria below are minimum resiliency criteria required to advance a Project to competitive evaluation. Use the relevant section(s) in the HPD Design Guidelines for New Construction, cited in parenthesis, to complete the threshold assessment.

1. Is the Site coastal flood-prone? (2.1)

Yes [ ] No [ ]

1. Is the Site at risk of future stormwater flooding? (2.2)

Yes [ ] No [ ]

1. Is the site located in a high-heat risk area (HVI of 4 or 5)? (2.3)

Yes [ ] No [ ]

1. All flood-prone projects must meet 2080s Sea Level Rise-adjusted Design Flood Elevation (SLR-adjusted DFE). If flood-prone, does this Project meet 2080s SLR-adjusted DFE where required in the HPD Design Guidelines for New Construction? (2.1)

Yes [ ] No [ ]

1. Does this Project satisfy all other baseline resiliency requirements within HPD’s New Construction Design Guidelines? (2.1-2.4)

Yes [ ] No [ ]

**3. Climate Risk Mitigation Strategies**

For each of the sections below, describe key design and operational strategies the Project is incorporating to address applicable near- and long-term climate risks and note where in the Project’s documents further details can be found.

In addition to describing how **baseline requirements** are met, Respondents should also reference specific **reach** strategies outlined in the HPD Design Guidelines for New Construction and reference the NYC CRDG v4.1 for further best practice design guidance.

1. **Heat**

Describe the design and operational strategies integrated into this Project included to address the current and future site-specific **Heat** risk. Note measures proposed to reduce cooling loads using passive measures, design a heat-resilient facility as defined by CRDG, mitigate heat island effect, and ensure occupant thermal safety.

*[Type your answer here.]*

1. **Stormwater Flooding and Precipitation (if answering YES to 2B))**

Describe the design strategies integrated into this Project to address the current and future site-specific **Precipitation** risk. Note measures proposed for enhanced stormwater management, life safety, and mitigation of stormwater flood damage to buildings. Also, describe how the Project will comply with the DEP’s Unified Stormwater Rule (USWR).

*[Type your answer here.]*

1. **Coastal Flooding and Sea Level Rise (if answering YES to 2A)**

Describe the design and operational strategies integrated into this Project to address the current and future site-specific **Sea Level Rise** risk from tidal inundation and/or coastal flooding. When applicable, note reach criteria taken to manage any risks associated with flooding from sea level rise.

*[Type your answer here.]*

**SUSTAINABILITY (questions 4-10)**

**4. Core Performance Standards**

All HPD projects must certify with the current version of the 2020 Enterprise Green Communities with NYC Overlay or LEED v4 Gold or Platinum. Projects are required to comply with all ‘Requirements’ within the HPD Design Guidelines for New Construction, but projects are strongly encouraged to meet the ‘Reach’ criteria where possible. PHIUS or PHI are not required certifications but are listed among the Reach criteria. Please note which certification(s) the Project will pursue.

*[Type your answer here.]*

**5. Electrification**

1. All projects must utilize high-performance all-electric heating/cooling and domestic hot water equipment, and include all-electric appliances, with the exceptions of generators. Projects are required to be designed to meet Local Law 97’s 2050 Greenhouse Gas emissions limits. Projects are also required to comply with HPD’s Electric Heating Policy. It is strongly encouraged to meet HPD’s Reach criteria for equipment efficiency. In the table below, list the equipment being proposed for the Project.

|  |  |  |
| --- | --- | --- |
|  | Proposed System / Equipment Description (include efficiency where applicable) | Who Pays (Owner or Resident) |
| Heating |  |  |
| Cooling |  |  |
| Hot Water |  |  |
| Ventilation |  |  |
| Cooking |  |  |
| Dryers |  |  |
| Washers |  |  |

1. Use the space below to provide additional information about how the Project will meet HPD’s goals for beneficial electrification.

*[Type your answer here.]*

**6. Energy Efficiency and Carbon Reduction**

Describe how the building envelope is designed to reduce overall energy use. Include how passive strategies and forward-looking climate data will be incorporated into the design. Note which Reach criteria are being included.

Moreover, describe how the Project will assess and reduce embodied carbon throughout the Project’s life cycle, which tools are going to be utilized, and the construction methods and materials that will be taken into consideration.

*[Type your answer here.]*

**7. Solar and Green Roofs**

Specify how the project will use roof space to incorporate solar and/or green roofs, and provide a description of the solar array and estimated production. Describe whether the Project will provide Community Solar and/or battery storage. Projects are strongly encouraged to consider roof spaces that provide multiple benefits, such as combination of solar, green roofs and recreational spaces for tenants’ use.

*[Type your answer here.]*

**8. Health and Wellness**

Describe how the Project will propose comprehensive strategies to enhance the health and well-being of residents through the incorporation of environmentally responsible materials, indoor air quality strategies and active design. We encourage applicants to go beyond standard industry practices and HPD and EGC Baseline Requirements.

*[Type your answer here.]*

**9. Innovation**

Describe innovative strategies that will be taken to improve resiliency, sustainability, health, and social equity of the Project. Please note whether the innovations are factored into the budget or whether they would require additional sources of funding or research.

*[Type your answer here.]*

**10. Budget and Underwriting**

Describe how project team will take steps to offset costs by answering the questions below.

1. Will sustainability and resiliency features require higher construction costs than “Business as Usual”?

*[Type your answer here.]*

1. Anticipated incremental percentage increase in costs from part A:

*[Type your answer here.]*

1. Which features are the drivers of additional cost, if any?

*[Type your answer here.]*

1. List all federal, state & local incentives related to resiliency and sustainability the Project will seek:

*[Type your answer here.]*

1. Please describe how the Project will be designed to reduce energy operational costs and note the expected energy operational cost savings (including solar). Note whether the Project will agree to underwrite a reasonable % of the energy savings.

*[Type your answer here.]*

1. Use the space below to describe how the design addresses both first cost and operational cost impacts, while addressing short- and long-term climate risks and non-financial benefits for the residents and the community.

*[Type your answer here.]*