

NAVFAC HIGH PERFORMANCE AND SUSTAINABLE BUILDING CHECKLIST -- GOALS

PROJECT INFORMATION

Work Order No.: _____ FY _____ MILCON P No. / Customer Reference No.: _____

Project Title: _____

Location UIC/Name: _____

NAVFAC Project Manager: _____ Project Design Level: _____

Facility Area: _____ U/M: _____ Category Code: _____ Facility #: _____

AE Contract # & T.O. _____ AE Firm Sustainability Coordinator: _____

AE Firm Name: _____

Project Phase: _____ Design Start / PDA _____ Solicitation Documents Complete _____

Construction Contract _____ Award Date (P): _____ BOD (P): _____

SUSTAINABILITY DATA - GUIDING PRINCIPLES for SUSTAINABLE DEVELOPMENT

Use this form to collect Design Goals information to be recorded on the Sustainable and Energy Tab in eProjects

NOTE: 1. Mark "N/A" only when at least one of the listed justifications is applicable, and mark those justifications. Otherwise, mark "Yes."
 2. If project is for more than one building for which tracking is required, complete a separate form for each building.

PRELIMINARY PROJECT INFORMATION

- 1 How many buildings are included in this project? _____
- 2 Does at least one building meet one of the following: 1) new construction (new building or addition to existing);
 - OR - 2) Renovation in an existing building, with construction cost greater than \$3M? _____ Yes _____ No
- 3 Identify the building to be tracked in this tab: _____

DESIGN DEVELOPMENT - DOCUMENTATION OF COMPLIANCE WITH GUIDING PRINCIPLES

I. Employ Integrated Design Principles

1 Integrated Design

Goals In Compliance _____ Yes _____ N/A _____

N/A due to

_____ Mission preclusion _____ Building/site issue

_____ Not LCCE _____ Renovation only: not part of scope

_____ Installation/region issue

2 Commissioning

Goals In Compliance _____ Yes _____ N/A _____

N/A due to

_____ Mission preclusion _____ Building/site issue

_____ Not LCCE _____ Renovation only: not part of scope

_____ Installation/region issue

(i) Systems commissioned

II. Optimize Energy Performance

3. Energy Efficiency

Goals In Compliance _____ Yes _____ N/A _____

N/A due to

_____ Mission preclusion _____ Building/site issue

_____ Not LCCE _____ Renovation only: not part of scope

_____ Installation/region issue

(i) Energy Savings Below Baseline % _____

(ii) Energy Standard

_____ ASHRAE 90.1-2004 (03JAN07-09AUG12)
_____ ASHRAE 90.1-2007 (10AUG12-08JUL14)
_____ ASHRAE 90.1-2010 (09JUL14-05NOV16)
_____ ASHRAE 90.1-2013 (06NOV16+)

_____ IECC
_____ OTHER:

C. Energy Efficient Products

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue

4. Renewable Energy

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue

A. Renewable energy technology types

_____ Geothermal _____ Daylighting (quantified passive)
_____ Ground Source Heat Pumps _____ Mechanical (i.e., direct water pumping)
_____ Solar Photovoltaic _____ Micro-hydro
_____ Solar Thermal - domestic hot water _____ Concentrating (sterling)
_____ Solar Thermal - space conditioning _____ Wind

(i) Annual % of total load _____

(ii) System size (kwatts) _____

B. Solar Hot Water Percentage - 30% target

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue

(i) Annual % of total load _____

(ii) System size (kBTU/Year) _____

5. Metering (Measurement)

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue

6. Energy Use Intensity kBTU/Sq Ft/Year

(i) Total Design Energy Use Intensity (EUI): kBTU/Sq Ft/Year _____

III. Protect and Conserve Water

7. Indoor Water Use

A. Water-Efficient Products

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

(i) Total Design Indoor Water Use Intensity (WUI): Gallons/Sq Ft/Year

B. Indoor Water Meter

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

8. Outdoor Water Use

A. Outdoor Water Meter

(i) Is there a permanent irrigation system serving more than 25,000 SF of landscaping?

Yes No

(ii) Water Meter

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

B. Water-efficient landscape

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

C. Reduce landscape potable water use

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

(i) Percent potable water use is reduced

9. Alternative Water Use

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

Methods Proposed:

Air Handler Condensate Capture Reclaimed Water
 Grey Water Treated Wastewater
 Harvested Rainwater OTHER:

10. Stormwater Management - update the LID Data tab

IV. Enhance Indoor Environmental Quality

11. Ventilation and Thermal Comfort

A. Ventilation

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

B. Thermal Comfort

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

12. Daylighting and Lighting Controls

A. Daylight

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

B. Automatic dimming controls

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

13. Indoor Air Quality

A. Moisture Control

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

B. Low-Emitting Materials

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

C. Indoor Air Quality during Construction

Goals In Compliance Yes N/A
N/A due to
 Mission preclusion Building/site issue
 Not LCCE Renovation only: not part of scope
 Installation/region issue

14. Occupant Health and Wellness

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue _____

V. Reduce the Environmental Impact of Materials

15. Material Content and Performance

A. Resource Conservation and Recovery Act (RCRA) Section 6002 (recycled content)

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue _____

B. Farm Security and Rural Investment Act (FSRIA) section 9002 (Biobased content)

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue _____

C. Ozone depleting Compounds

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue _____

16. Waste Management

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue _____

17. Waste Diversion - 60% target

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue _____

(i) Percent diverted _____

VI. Assess and Consider Climate Change Risks

18. Address Climate Change Risk

Goals In Compliance _____ Yes _____ N/A
N/A due to
_____ Mission preclusion _____ Building/site issue
_____ Not LCCE _____ Renovation only: not part of scope
_____ Installation/region issue _____

THIRD PARTY CERTIFICATION INFORMATION

Does at least one building meet one of the following: _____ Yes _____ No

- 1) New construction with construction cost greater than \$3M? - **OR** -
- 2) In an existing building larger than 5,000 SF, renovation with construction cost greater than \$3M and 50% estimated replacement cost (ERC)?

Sustainability Third Party Certification Rating

Third Party Certification Rating System and Level

- | | |
|---|---|
| _____ USGBC LEED Certified | _____ GBI Green Globes 1 Globe |
| _____ USGBC LEED Silver | _____ GBI Green Globes 2 Globe |
| _____ USGBC LEED Gold | _____ GBI Green Globes 3 Globe |
| _____ USGBC LEED Platinum | _____ GBI Green Globes 4 Globe |
| _____ USGBC "Guiding Principles Assessment" | _____ GBI "Guiding Principles Compliance" |
| _____ OTHER | |

i. Third Party Certification Rating system - Other