Disclaimer

This document was prepared by Innovative Emergency Management, Inc. (IEM) for the State of Louisiana Division of Administration, Office of Community Development–Disaster Recovery Unit (OCD–DRU) Restore Louisiana Program. The information contained in this document is confidential. No portion of this document may be distributed, reproduced, transmitted, or otherwise disclosed in any form to any third party without the prior written approval of the OCD–DRU.

Revision History

<table>
<thead>
<tr>
<th>Revision Number</th>
<th>Revision Description</th>
<th>Release Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Initial version</td>
<td>01/15/2018</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table of Contents

Purpose.................................................................................................................................1
What Are Green Building Standards?..................................................................................1
Policy ..................................................................................................................................2
Procedures...........................................................................................................................4
References.............................................................................................................................4
Attachment 1: HUD CPD Green Building Retrofit Checklist .............................................5
Attachment 2: Green Building Standards Flyer.....................................................................9
Attachment 3: Green Building Standards Certifications.....................................................11
Attachment 4: Green Building Standard language added to Damage Assessment Template ....13
Attachment 5: Designed to Earn the ENERGY STAR Version 3.0 Plan Review Checklist ....15
This page intentionally left blank.
Purpose

The purpose of this plan is to set forth the measures that the Restore Louisiana Homeowner Assistance Program (RLHP) will undertake to maintain compliance with the federal requirements outlined in Federal Register Notice (FRN) 5989-N-01. The FRN governs the allocation of Community Development Block Grant – Disaster Recovery funds for the RLHP. The State of Louisiana Master Action Plan for the Utilization of Community Development Block Grant Funds in Response to the Great Floods of 2016 outlines how the RLHP will comply with requirements for implementing Green Building Standards. This Green Building Standards Implementation Plan sets forth the specific framework within which compliance will be achieved.

What Are Green Building Standards?

Requirements. FR 5989-N-01 requires grantees to describe how they will “implement and ensure compliance with the Green Building Standards required in B.28 of section VI of [the] notice. All rehabilitation, reconstruction, and new construction should be designed to incorporate principles of sustainability, including water and energy efficiency, resilience, and mitigating the impact of future disasters.”

FR 5989-N-01 Section VI(B)(28) requires grantees to meet Green Building Standards for:

1. All new construction of residential buildings; and
2. All replacement of substantially damaged residential buildings.

Section VI(B)(28) further describes the meaning of Green Building Standards as requiring that all new construction or replacement of substantially damaged residential buildings meet an industry-recognized standard that has achieved certification under at least one of the following programs:

1. ENERGY STAR (certified homes or multifamily high-rise);
2. Enterprise Green Communities;
3. LEED (new construction, homes, midrise, existing buildings operations and maintenance, or neighborhood development);
4. ICC 700 National Green Building Standard;
5. EPA Indoor airPLUS (ENERGY STAR a prerequisite); or
6. Any other equivalent comprehensive green building program acceptable to the U.S. Department of Housing and Urban Development (HUD).

RLHP Applicability. Non-substantially damaged residential buildings rehabilitated through RLHP assistance must meet specific standards. Grantees must follow the guidelines specified in the HUD Community Planning and Development (CPD) Green Building Retrofit Checklist (Attachment 1) to the extent they are applicable to the rehabilitation work undertaken, including the use of mold resistant products when replacing surfaces such as drywall. When older or obsolete products are replaced as part of the rehabilitation work, rehabilitation is required to use ENERGY STAR-labeled, WaterSense-labeled, or Federal Energy Management Program (FEMP)-designated products and appliances.

ENERGY STAR is an energy-conservation standard developed as a joint effort of the U.S. Environmental Protection Agency and the U.S. Department of Energy to help consumers save money and protect the environment. This is achieved through improved building and energy performance and the selection of energy efficient products and practices. Appliances that reach a certain level of energy efficiency can earn an ENERGY STAR label, as can homes. The Louisiana Department of Administration, Office of Community Development–Disaster Recovery Unit (OCD-DRU) has determined that the most practical and efficient way to meet Green Building Standards for all replacements of substantially damaged
residential buildings (reconstruction) through the RLHP will be to comply with the ENERGY STAR Certified Home requirement, as outlined in the FRN.

Rehabilitation projects must comply with the HUD CPD Green Building Retrofit Checklist. This checklist includes specific measures for water conservation, energy efficiency, and indoor air quality. To achieve Green Retrofit status for a housing activity or project, the grantee must follow the entire checklist and apply all measures within the Checklist to the extent applicable to the rehabilitation project. The Checklist uses the phrase “when replacing” to indicate that specified green improvements, products, and fixtures are required only when replacing those elements during the normal course of the rehabilitation work.

Reconstruction projects must comply with the ENERGY STAR Certified Home requirements. Builders must provide a copy of an ENERGY STAR Plan Review Checklist signed by a Home Energy Rating System (HERS) rater, using the ENERGY STAR Plan Review Checklist version 3.0. (A HERS rater is certified to inspect a home to evaluate the “home energy rating,” or energy efficiency.) HERS raters can be located via the ENERGY STAR website at https://www.energystar.gov/index.cfm?fuseaction=new_homes_partners.showStateResults&s_code=LA. Builders must also supply all certification documentation once the home has been constructed and compliance with the ENERGY STAR Certified Home requirements has been met.

**Policy**

RLHP’s construction activities will comply with Green Building Standards as described in FRN 5989-N-01. The State of Louisiana has adopted the ENERGY STAR Certified Home standard for projects that were substantially damaged or where reconstruction is required. Homes that were non-substantially damaged must apply the HUD CPD Green Building Retrofit Checklist to all work undertaken as a part of the program. For construction projects completed, under construction, or under contract prior to the date of the program damage assessment, adherence to the applicable standards to the extent feasible is encouraged, but not required. RLHP will include in its construction estimates the necessary materials, products, and labor needed to meet program-required Green Building Standards. Adherence to the applicable Green Building Standard will be verified at each construction draw inspection. Should an applicant or an applicant’s contractor fail to comply with the applicable Green Building Standard, the work is not eligible for payment under the program.

The applicant will be instructed by the RLHP as to whether the HUD CPD Green Building Retrofit Checklist (rehabilitation) or ENERGY STAR Certified Home standard (reconstruction) is required for construction activities. If applicable, the applicant is required to incorporate these energy efficiency items within their construction project. The RLHP provides approved line items of scope to comply with the activities the Program has selected for compliance with Green Building Standards, within the estimated cost of repair scoping document. Solution 1 reconstruction plans and specifications will be compliant with the ENERGY STAR Certified Home requirements. Solution 2 reconstruction plans and specifications used by an applicant must also meet ENERGY STAR Certified Home requirements and the cost of these measures has been included in the pre-determined Program cap for reconstruction cost per square foot.

If during final inspection it has been determined that non-energy efficiency materials were used in place of Program-prescribed energy efficiency line items, the RLHP will deduct the value of the prescribed energy efficiency line items from an applicant’s final grant award in their entirety. Thus, applicants will not receive funding for any non-energy efficiency materials as observed during final inspection.

If a reconstructed home is completed and the home fails to obtain ENERGY STAR Certified Home certification, RLHP will not provide any funding for the project until the home is brought into compliance and certified. Failure to obtain certification will result in the recapture of any RLHP funds that may have previously been paid toward the project.
Solution 1 Applicants with Rehabilitation Projects

Properties undergoing rehabilitation and/or elevation must comply with the HUD CPD Green Building Retrofit Checklist, if the rehabilitation project has not started or if the contract for work has not been executed prior to the date the grant agreement is signed. RLHP contractors will perform rehabilitation work consistent with the green building measures provided in the applicant’s repair estimate.

Solution 1 Applicants with Reconstruction Projects

Properties undergoing Solution 1 reconstruction must comply with the ENERGY STAR Certified Home standards. The Program will supply plans and specifications compliant with these requirements, and the RLHP builder will obtain all necessary certifications.

Solution 2 Applicants with Rehabilitation Projects Not under Contract at Time of Damage Assessment

Properties undergoing rehabilitation and/or elevation must comply with the HUD CPD Green Building Retrofit Checklist. If the home was rehabilitated/renovated and the applicant signed his/her contract after the date he/she signed his/her grant agreement, then repairs must be made in accordance with the applicable Green Building Standards. RLHP inspectors will use the HUD CPD Green Building Retrofit Checklist to document compliance with the standards. The RLHP scope of work for repair provides for the cost of energy-efficient measures that will comply with the RLHP standard.

Solution 2 Applicants with Reconstruction Projects under Contract at Time of Signing Grant Agreement

Properties undergoing reconstruction must comply with ENERGY STAR standards. If your home will be completely reconstructed, and you signed your contract with your builder after the date of your RLHP damage assessment, then you must provide a copy of an ENERGY STAR Plan Review Checklist signed by a HERS rater, using the ENERGY STAR Plan Review Checklist version 3.0. (A HERS rater is certified to inspect a home to evaluate the “home energy rating,” or energy efficiency.)

Solution 2 Applicants Already under Contract at Time of Signing Grant Agreement

For those applicants who are already conducting construction activities or are under contract at the time they sign their RLHP grant agreement, RLHP encourages the applicant to incorporate ENERGY STAR-rated materials and improvements wherever practicable. If an applicant has started construction or is under contract with their Contractor(s) prior to the date of signing the RLHP grant agreement, these standards shall be met to the extent feasible for remaining construction but are not required. RLHP will provide information to the applicant about incorporating ENERGY STAR-rated materials.

Solution 3 Applicants

If the applicant has completed construction prior to the date he/she signs the grant agreement, these standards shall be met to the extent feasible for remaining construction but are not required. In these cases, the RLHP will assess the completed property using the HUD CPD Green Building Retrofit Checklist, but the inspector will note that the construction activities at the property were completed prior to program funding availability to the applicant.
Procedures

The Green Building Standards requirements apply only to traditionally constructed, site-built reconstruction and rehabilitation activities. The standards do not apply to Manufactured Housing Units.

To comply with the ENERGY STAR selection for implementation of the federally required Green Building Standards, the RLHP will do the following:

1. Post Green Building Standards flyer to RLHP website (Attachment 2);
2. Provide Green Building Standards flyer during meetings with applicants during the application and eligibility phase;
3. Leave behind a Green Building Standards flyer with the applicant at the damage assessment;
4. Provide applicable Green Building Standard Tip Sheet/Certification to homeowner at grant execution and obtain applicant signature (Attachment 3);
5. Provide outreach email blast notifications with Green Building Standard flyer;
6. Incorporate Green Building Standards language in the applicant communication that goes out to each applicant the week after his/her damage assessment is completed;
7. Include Green Building Standards language in the damage assessment template for Estimated Cost of Repair reports (Attachment 4);
8. Provide call center representatives, case managers, and construction technical assistants with training related to Green Building Standards;
9. Include Green Building Standards language in the standard contract template;
10. Revise Award Acknowledgment Letter to incorporate information about the Green Building Standards;
11. Utilize the Green Building Retrofit Checklist at progress and final construction inspections for rehabilitation projects (Attachment 1) or Designed to Earn the ENERGY STAR Version 3.0 Plan Review Checklist (Attachment 5) for reconstruction projects;
12. Update the Homeowner Manual for RLHP to include the Green Building Standard information; and
13. Supply this document to all Solution 1 Homebuilding Contractors.

References

1. HUD CPD Notice Guidance on the Community Planning and Development Green Building Retrofit Checklist
2. HUD Green Building Standards
3. www.hudexchange.info
4. www.energystar.gov
Attachment 1: HUD CPD Green Building Retrofit Checklist

The CPD Green Building Retrofit Checklist promotes energy efficiency and green building practices for residential retrofit projects. Grantees must follow the checklist in its entirety and apply all measures within the Checklist to the extent applicable to the particular building type being retrofitted. The phrase “when replacing” in the Checklist refers to the mandatory replacement with specified green improvements, products, and fixtures only when replacing those systems during the normal course of the retrofit.

<table>
<thead>
<tr>
<th>WATER AND ENERGY CONSERVATION MEASURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Water-Conserving Fixtures</td>
</tr>
<tr>
<td>Install or retrofit water-conserving fixtures in any unit and common facility, use the following specifications: Toilets – 1.28 gpf; Urinals – 0.5 gpf; Showerheads – 2.0 gpm; Kitchen faucets – 2.0 gpm; and Bathroom faucets – 1.5gpm. [gpf = gallons per flush; gpm = gallons per minute]</td>
</tr>
<tr>
<td>☐ ENERGY STAR Appliances</td>
</tr>
<tr>
<td>Install ENERGY STAR-labeled clothes washers, dishwashers, and refrigerators, if these appliance categories are provided in units or common areas.</td>
</tr>
<tr>
<td>☐ Air Sealing: Building Envelope</td>
</tr>
<tr>
<td>Seal all accessible gaps and penetrations in the building envelope. If applicable, use low VOC caulk or foam.</td>
</tr>
<tr>
<td>☐ Insulation: Attic (if applicable to building type)</td>
</tr>
<tr>
<td>For attics with closed-floor cavities directly above the conditioned space, blow in insulation per manufacturer's specifications to a minimum density of 3.5 lbs. per cubic foot (CF). For attics with open floor cavities directly above the conditioned space, install insulation to meet or exceed IECC levels.</td>
</tr>
<tr>
<td>☐ Insulation: Flooring (if applicable to building type)</td>
</tr>
<tr>
<td>Install ≥ R-19 insulation in contact with the subfloor in buildings with floor systems over vented crawl spaces. Install a 6-mil vapor barrier in contact with 100% of the floor of the crawl space (the ground), overlapping seams and piers at least 6 inches.</td>
</tr>
<tr>
<td>☐ Duct Sealing (if applicable to building type)</td>
</tr>
<tr>
<td>In buildings with ducted forced-air heating and cooling systems, seal all penetrations of the air distribution system to reduce leakage in order to meet or exceed ENERGY STAR for Homes’ duct leakage standard.</td>
</tr>
<tr>
<td>☐ Air Barrier System</td>
</tr>
<tr>
<td>Ensure continuous unbroken air barrier surrounding all conditioned space and dwelling units. Align insulation completely and continuously with the air barrier.</td>
</tr>
<tr>
<td>☐ Radiant Barriers: Roofing</td>
</tr>
<tr>
<td>When replacing or making a substantial repair to the roof, use radiant barrier sheathing or other radiant barrier material; if economically feasible, also use cool roofing materials.</td>
</tr>
</tbody>
</table>
☐ **Windows**  
When replacing windows, install geographically appropriate ENERGY STAR-rated windows.

☐ **Sizing of Heating and Cooling Equipment**  
When replacing, size heating and cooling equipment in accordance with the Air Conditioning Contractors of America (ACCA) Manuals, Parts J and S, or 2012 ASHRAE Handbook – HVAC Systems and Equipment or most recent edition.

☐ **Domestic Hot Water Systems**  
When replacing domestic water heating system(s), ensure the system(s) meets or exceeds the efficiency requirements of ENERGY STAR for Homes’ Reference Design. Insulate pipes by at least R-4.

☐ **Efficient Lighting: Interior Units**  
Follow the guidance appropriate for the project type: install the ENERGY STAR Advanced Lighting Package (ALP); **OR** follow the ENERGY STAR MFHR program guidelines, which require that 80% of installed lighting fixtures within units must be ENERGY STAR-qualified or have ENERGY STAR-qualified lamps installed; **OR** when replacing, new fixtures and ceiling fans must meet or exceed ENERGY STAR efficiency levels.

☐ **Efficient Lighting: Common Areas and Emergency Lighting**  (if applicable to building type)  
Follow the guidance appropriate for the project type: use ENERGY STAR-labeled fixtures or any equivalent high-performance lighting fixtures and bulbs in all common areas; **OR** when replacing, new common space and emergency lighting fixtures must meet or exceed ENERGY STAR efficiency levels. For emergency lighting, if installing new or replacing, all exit signs shall meet or exceed LED efficiency levels and conform to local building codes.

☐ **Efficient Lighting: Exterior**  
Follow the guidance appropriate for the project type: install ENERGY STAR-qualified fixtures or LEDs with a minimum efficacy of 45 lumens/watt; **OR** follow the ENERGY STAR MFHR program guidelines, which require that 80% of outdoor lighting fixtures must be ENERGY STAR-qualified or have ENERGY STAR-qualified lamps installed; **OR** when replacing, install ENERGY STAR compact fluorescents or LEDs with a minimum efficacy of 45 lumens/watt.

---

**INDOOR AIR QUALITY**

☐ **Air Ventilation: Single Family and Multifamily**  (three stories or fewer)  
Install an in-unit ventilation system capable of providing adequate fresh air per ASHRAE 62.2 requirements.

☐ **Air Ventilation: Multifamily**  (four stories or more)  
Install apartment ventilation systems that satisfy ASHRAE 62.2 for all dwelling units and common area ventilation systems that satisfy ASHRAE 62.1 requirements. If economically feasible, consider heat/energy recovery for 100% of corridor air supply.

☐ **Composite Wood Products that Emit Low/No Formaldehyde**  
Composite wood products must be certified compliant with California 93120. If using a composite wood product that does not comply with California 93120, all exposed edges and sides must be sealed with low-VOC sealants.
☐ Environmentally Preferable Flooring
When replacing flooring, use environmentally preferable flooring, including the FloorScore certification. Any carpet products used must meet the Carpet and Rug Institute's Green Label or Green Label Plus certification for carpet, pad, and carpet adhesives.

☐ Low/No VOC Paints and Primers
All interior paints and primers must be less than or equal to the following VOC levels: Flats – 50 g/L; Non-flats – 50 g/L; and Floor – 100 g/L. [g/L = grams per liter; levels are based on a combination of the Master Painters Institute (MPI) and Green Seal standards]

☐ Low/No VOC Adhesives and Sealants
All adhesives must comply with Rule 1168 of the South Coast Air Quality Management District. All caulks and sealants must comply with regulation 8, rule 51, of the Bay Area Air Quality Management District.

☐ Clothes Dryer Exhaust
Vent clothes dryers directly to the outdoors using rigid-type duct work.

☐ Mold Inspection and Remediation
Inspect the interior and exterior of the building for evidence of moisture problems. Document the extent and location of the problems, and implement the proposed repairs according to the Moisture section of the EPA Healthy Indoor Environment Protocols for Home Energy Upgrades.

☐ Combustion Equipment
When installing new space and water-heating equipment, specify power-vented or direct vent combustion equipment.

☐ Mold Prevention: Water Heaters
Provide adequate drainage for water heaters that includes drains or catch pans with drains piped to the exterior of the dwelling.

☐ Mold Prevention: Surfaces
When replacing or repairing bathrooms, kitchens, and laundry rooms, use materials that have durable, cleanable surfaces.

☐ Mold Prevention: Tub and Shower Enclosures
When replacing or repairing tub and/or shower enclosures, use non-paper-faced backing materials such as cement board, fiber cement board, or equivalent in bathrooms.

☐ Integrated Pest Management
Seal all wall, floor, and joint penetrations with low-VOC caulking or other appropriate sealing methods to prevent pest entry. [If applicable, provide training to multifamily buildings staff.]
☐ **Lead-Safe Work Practices**
For properties built before 1978, if the project will involve disturbing painted surfaces or cleaning up lead-contaminated dust or soil, use certified renovation or lead abatement contractors and workers using lead-safe work practices and clearance examinations consistent with the more stringent of EPA's Renovation, Repair, and Painting Rule and HUD's Lead Safe Housing Rule.

☐ **Radon Testing and Mitigation** (if applicable based on building location)
For buildings in EPA Radon Zones 1 or 2, test for radon using the current edition of the American Association of Radon Scientists and Technologists’ (AARST) Protocols for Radon Measurement in Homes Standard for Single-Family Housing or Duplexes, or AARST’s Protocol for Conducting Radon and Radon Decay Product Measurements in Multifamily Buildings. To install radon mitigation systems in buildings with a radon level of 4 pCi/L or more, use ASTM E2121 for single-family housing or duplexes, or AARST’s Radon Mitigation Standards for Multifamily Buildings. For new construction, use AARST’s Reducing Radon in New Construction of 1 & 2 Family Dwellings and Townhouses, or ASTM E1465.
Green Building Standards Implementation Plan

Attachment 2: Green Building Standards Flyer

**GREEN BUILDING GUIDANCE DOCUMENT**

RESTORE LOUISIANA HOMEOWNER ASSISTANCE PROGRAM GREEN BUILDING DETAILS

The Program’s construction activities will comply with Green Building Standards as described in Federal Register (FR) 5989-N-01. The State of Louisiana has adopted the ENERGY STAR Certified Home standard for projects that were substantially damaged or where reconstruction is required. Homes that were non-substantially damaged must apply the HUD CPD Green Building Retrofit Checklist to all work undertaken as a part of the program.

**IF YOU HAVE STARTED CONSTRUCTION**

For construction projects completed, under construction, or under contract prior to the date of the program damage assessment, adherence to the applicable standards to the extent feasible is encouraged, but not required. The Program will include in its construction estimates the necessary materials, products, and labor needed to meet program-required Green Building Standards. The Program will ensure that work performed by a Solution 1 contractor after the date of the damage assessment complies with the Program’s green building standards where applicable.

**IF YOU HAVEN’T STARTED CONSTRUCTION**

Adherence to the applicable Green Building Standard will be verified at each construction progress inspection. Should an applicant or an applicant’s contractor fail to comply with the applicable Green Building Standard, the work is not eligible for payment under the program. The applicant will be instructed by the Program as to whether the Green Building Retrofit Checklist (rehabilitation) or ENERGY STAR (reconstruction) is required for construction activities. The applicant is required to incorporate either of these energy efficiency items within their construction project. The Program provides approved line items of scope to comply with the activities the Program has selected for compliance with Green Building Standards, within the estimated cost of repair scope document.

- Solution 1 reconstruction plans and specifications will be compliant with the ENERGY STAR requirements.
- Solution 2 reconstruction plans and specifications used by an applicant must also meet ENERGY STAR requirements and the cost of these measures has been included in the pre-determined Program cap for reconstruction cost per square foot.

If during final inspection it is determined that non-energy efficient materials were used in place of prescribed energy efficient line items, the Program will deduct the entire value of the prescribed energy efficient line items from an applicant’s final grant award. Thus, applicants will not receive funding for any non-energy efficient materials as observed during final inspection.

FOR MORE INFORMATION, PLEASE VISIT THE FOLLOWING LINKS:

<table>
<thead>
<tr>
<th>Energy Star Website:</th>
<th><a href="https://www.energystar.gov/">https://www.energystar.gov/</a></th>
</tr>
</thead>
</table>
HOW CAN GREEN BUILDING HELP YOU?

SAVES YOU MONEY
- Upfront investment in green building makes properties more valuable, with an average expected increase in value of 4 percent. Green retrofit projects are generally expected to pay for themselves in just seven years.
- Green buildings reduce day-to-day costs year-over-year. In addition to reducing utility bills, an energy-efficient home may save some costs during construction and will ultimately provide you with a more comfortable home.

KEEPS YOU HEALTHY
- The EPA estimates that indoor air pollution may be 2 to 5 times worse, and sometimes more than 100 times worse, than outdoor air quality.
- Green buildings incorporate healthy ventilation systems and use of non-toxic building materials.

HELPS THE ENVIRONMENT
- Buildings are positioned to have an enormous impact on the environment and climate change. At 41 percent of total U.S. energy consumption, buildings out-consume the industrial (30 percent) and transportation (29 percent) sectors.
- Retrofitting one out of every 100 American homes with water-efficient fixtures could avoid about 80,000 tons of greenhouse gas emissions, which is the equivalent of removing 15,000 cars from the road for one year.

Attachment 3: Green Building Standards Certifications

**ENERGY STAR CERTIFIED HOME CHECKLIST CERTIFICATION (RECONSTRUCTION)**

**WHAT IS THE ENERGY STAR CERTIFIED HOME STANDARD?**

For homes being reconstructed (i.e. new house being built), the Federal government requires that certain energy efficiency standards must be met. ENERGY STAR Certified Home standards do not apply to rehabilitation projects. To determine what standards apply to your reconstruction, please reference the information below:

If you signed a contract with a contractor to reconstruc your home **after** signing your grant award, then your new home must be built to ENERGY STAR Certified Home standards:

- To demonstrate compliance with this requirement, you must have an accredited Home Energy Rating System (HERS) rater, or other EPA approved verifier, complete and sign off on your ENERGY STAR Plan Review Checklist Version 3.0. Search for a HERS rater here: [https://www.energystar.gov/index.cfm?u=action-new_homes_partners.showStateResults&state_code=LA&show=all](https://www.energystar.gov/index.cfm?u=action-new_homes_partners.showStateResults&state_code=LA&show=all)
- The Checklist explicitly specifies energy efficiency features and construction details that demonstrate compliance with ENERGY STAR Certified Home standards.
- The signed Checklist must be submitted to your Construction Technical Advisor (CTA) whenever you request your first inspection.

If you signed a contract with your contractor to reconstruct your home **before** signing your grant award, then your new home does not need to be built to ENERGY STAR Certified Home standards:

- However, you are encouraged to incorporate energy efficiency improvements for any remaining construction, to the extent feasible.
- You can use the Green Building Retrofit Checklist Certification as a guide to ensure materials installed in your home meet energy efficiency and indoor air quality product specifications.

---

If you are required to build to ENERGY STAR Certified Home standards, please review these tips for meeting the required energy efficiency standards:

**WHEN DESIGNING YOUR HOME:**

- Include energy efficiency upgrades from the beginning. These include upgrades in energy efficient lighting, right-sized equipment, higher insulation levels, etc.
- Speak with your architect/engineer about the checklist items before plans are drawn and have the Energy Star Checklist reviewed and signed by a certified professional.
- Have your construction team visit [www.energystar.gov](http://www.energystar.gov) for additional guidance regarding ENERGY STAR Certified Home standards.

**YOU SHOULD PROVIDE THE FOLLOWING AT THE FINAL INSPECTION:**

1. A copy of the Energy Star Plan Review Checklist (if contract was signed after grant award)
2. Copies of appliance/equipment manufacturer’s labels (collect from installer(s) and have on hand)
3. Construction photos of the thermal barrier/air sealing around windows, the insulation in the walls prior to installing drywall, insulation around pipes, etc. (either hard copy photos or a CD of digital photos from your contractor).

By signing below, I certify that I have read and acknowledge my obligation to comply with the above mentioned standards where applicable:

SIGNATURE __________________________ DATE __________________

---

[RESTORE LOUISIANA PROGRAM HOMOWNER ASSISTANCE]

[RESTORE LA supports Fair Housing/Equal Employment Opportunity/ADA Accessibility]
GREEN BUILDING RETROFIT CHECKLIST CERTIFICATION (REHABILITATION)

WHAT IS THE GREEN BUILDING RETROFIT CHECKLIST?

For homes being rehabilitated, the HUD Green Building Retrofit Checklist (GBR Checklist) is a Federal construction standard requiring that work performed when receiving Federal funds must meet certain energy efficiency and indoor air quality standards. The GBR Checklist standard does not apply to reconstruction projects. This standard impacts homeowners in the following circumstances:

If you are under contract or have started construction prior to grant signing, you are not required to meet the GBR Checklist standard.

- However, you are encouraged to use the GBR Checklist to ensure your remaining construction is built to energy efficiency and health standards, to the extent feasible.
  - Remember: Your Estimated Cost of Repairs (ECR) report for remaining construction was written to the specifications of the GBR Checklist.

If you execute your construction contract after signing your grant award, ALL construction must be built to the GBR Checklist requirements.

- Any work completed prior to the time you signed your grant does not have to meet GBR Checklist standards.
- Use the GBR Checklist to ensure your construction is built to energy efficient and healthy standards.
- At the Final Inspection, a program inspector will complete the GBR Checklist.
- Any items in your house that are not being repaired or replaced during construction do NOT need to meet GBR Checklist requirements.

PRIOR TO STARTING ANY FURTHER CONSTRUCTION WITH YOUR CONTRACTOR:

1. The homeowner signs this certification acknowledging they understand the requirements.
2. SOLUTION 1: Program-Managed - Our contractors complete the work in conformance with Green Building Standards (GBS) and our inspector completes the GBR Checklist.
3. SOLUTION 2: Homeowner-Managed - 1) The homeowner informs the contractor that they must comply with GBS. 2) The homeowner/commercial contractor completes the work in conformance with GBS. 3) The homeowner obtains proof of conforming building materials used. 4) The Program inspector completes the GBR Checklist.

By signing below, I certify that I have read and acknowledge my obligation to comply with the above mentioned Green Building Checklist Standards where applicable:

SIGNATURE __________________________ DATE ____________

CONFIDENTIAL • See disclaimer for restrictions.
Attachment 4: Green Building Standard language added to Damage Assessment Template

For homes being rehabilitated, the HUD (GBR Checklist) is a federal construction standard requiring that work performed when receiving federal funds must meet certain energy efficiency and indoor air quality standards. If the homeowner is under contract or started construction prior to executing the grant agreement, the homeowner is encouraged to use the Green Building Retrofit (GBR) Checklist to ensure remaining construction is built to energy efficiency and health standards, to the extent feasible. However, if the construction contract is signed or construction activities commence after execution of the grant agreement, all eligible repairs must be performed in line with the GBR Checklist. The Estimated Cost of Repairs (ECR) report for remaining construction was written to the specifications of the GBR Checklist. The GBR Checklist standard does not apply to reconstruction projects. If the repair value exceeds 80% of the cost of the program estimate to rebuild a home, as determined by the Program, the home will be reconstructed. The federal government requires that certain energy efficiency standards must be met for reconstructed homes. If a homeowner signs a contract with a contractor to reconstruct the home after signing the grant award, then the new home must be built to ENERGY STAR Certified Home standards.
This page intentionally left blank.
Attachment 5: Designed to Earn the ENERGY STAR Version 3.0 Plan Review Checklist

Home plans that follow this checklist explicitly specify energy efficiency features and construction details, including mechanical equipment efficiencies and air barrier installation details, for particular climate locations. State, local, and regional codes, as well as regional ENERGY STAR program requirements, supersede the items specified in this Checklist.

Attach the completed Checklist and the documents specified below to the final home plan. Model Name: 

Architect/Designer: 

Verification Organization: 

Review Method: 

Projected Rating2,3 Software: Weather file: 

National Prescriptive Path3,4 Location: 

Reviewer Name: Date of Review: 

Reviewer Signature: 

<table>
<thead>
<tr>
<th>Review Guidelines</th>
<th>Passes</th>
<th>Corrections Needed</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attached Documents</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1 Projected HERS Rating report or appropriate Prescriptive Path.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2 Thermal Enclosure Checklist with all N/A items checked.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3 HVAC Contractor Checklist with all N/A items checked.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.4 HVAC Rater Checklist with all N/A items checked.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 Water Management System Checklist with all N/A items checked.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.6 Any required details or specifications below not included directly on the plans.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Details and Specifications on Plans</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 2.1 Inclusion of the following required text: 
Note: This house must be field inspected by a Rater to be labeled as ENERGY STAR.8 |        |                    |          |
| 2.2 Inclusion of the following required text: 
Note: HVAC sizing calculations for the heating and cooling equipment must be provided and verified for this home to be labeled as ENERGY STAR.11 |        |                    |          |
| 2.3 Inclusion of one of the following required texts: 
Note: This house was rated using the size adjustment factor including the basement area. 
Note: This house was rated using the size adjustment factor excluding the basement area. |        |                    |          |
| 2.4 Inclusion of climate zones that this plan can be built for ENERGY STAR qualification. |        |                    |          |
| 2.5 Wall sections delineating complete thermal boundary of home. |        |                    |          |
| 2.6 High-Performance Window specifications including window and door SHGC and U-value(s).5 |        |                    |          |
| 2.7 Quality-Installed Insulation specifications including R-value of insulation assemblies and proper installation details.10 |        |                    |          |
| 2.8 Reduced Thermal Bridging specifications and the details intended to achieve them.11 |        |                    |          |
| 2.9 Air Sealing performance specifications and the details intended to achieve them.7, 9 |        |                    |          |
| 2.10 Fuel type of HVAC equipment and hot water systems. |        |                    |          |
This page intentionally left blank.