



**APPLICATION INSTRUCTIONS FOR BPA ENERGY EFFICIENCY
FY 2022 – 2023 TRIBAL LOW-INCOME ENERGY EFFICIENCY PROGRAM
October 1, 2021 – September 30, 2023**

APPLICATION AND BUDGET PERIOD:

October 1, 2021 - September 30, 2023

**FISCAL YEAR 2022 – 2023
LOW-INCOME ENERGY EFFICIENCY (LIEE) GRANT
TERMS AND CONDITIONS**

Table of Contents

UNIT 1 – TERMS & CONDITIONS	3
CLAUSES INCORPORATED BY REFERENCE	3
CLAUSES INCORPORATED BY FULL TEXT	4
UNIT 2 – STATUTORY AND NATIONAL POLICY REQUIREMENTS	4
UNIT 3 – PROJECT DESCRIPTION	12
PART I – FUNDING OPPORTUNITY DESCRIPTION	12
A. BACKGROUND	12
B. GOALS AND OBJECTIVES	12
C. PROJECT TYPES	12
D. DEFINITIONS	12
PART II – AWARD INFORMATION	14
A. TYPE OF AWARD INSTRUMENT	14
B. ESTIMATED FUNDING	14
C. ANTICIPATED NUMBER OF AWARDS AND AWARD PRIZE	14
D. PERIOD OF PERFORMANCE	14
PART III – ELIGIBLE APPLICATIONS	14
A. ELIGIBLE APPLICANTS	14
B. COST SHARING/VOLUNTARY COST SHARING/LEVERAGING	14
PART IV – APPLICATIONS AND SUBMISSION INFORMATION	15
A. SUBMISSION REQUIREMENTS	15
B. CONTENT AND FORM	15
C. SUBMISSION DATES AND TIMES	16
D. FUNDING RESTRICTIONS	16
PART V – APPLICATIONS EVALUATION INFORMATION	17
A. CRITERIA	17
B. REVIEW AND SELECTION PROCESS	17
C. ANTICIPATED NOTICES OF SELECTION AND AWARD DATES	17
PART VI – QUESTIONS AND CONTACTS	18
A. BPA CONTACT	18
B. QUESTIONS	18
APPENDIX I – PROPOSED BUDGET TEMPLATE	18
APPENDIX II – BUDGET JUSTIFICATION NARRATIVE TEMPLATE	19
A. PERSONNEL	19
B. FRINGE BENEFITS	19
C. TRAVEL	19
D. EQUIPMENT	19
E. MATERIALS/SUPPLIES	19
F. CONTRACTUAL & SUBRECIPIENT SERVICES	19
G. OTHER DIRECT COSTS	20
APPENDIX III–TRIBAL LIEE PROJECT DESCRIPTION	20
PART A – GENERAL	20
PART B – PROGRAM	22
EXHIBIT A - BONNEVILLE POWER ELIGIBLE UTILITY CUSTOMERS	24

EXHIBIT B - ADDITIONAL PROGRAM SPECIFICATIONS	26
A. LOW-INCOME WEATHERIZATION	26
B. BASELOAD APPLIANCES ALLOWED UNDER THIS GRANT	26
i. Refrigerator Replacements	26
ii. Clothes Washer Replacements	26
iii. Microwave Ovens	26
C. DEEMED LOW-INCOME ENERGY EFFICIENCY MEASURES	27
i. Payment For Deemed Measures	27
ii. PTCS Duct Sealing or Prescriptive Duct Sealing.....	27
iii. PTCS Ducted Air Source Heat Pump Upgrade or Conversion	27
iv. Ductless or Ducted Mini-Split Heat Pump(s) or Ductless Heat Pump (DHP) Upgrade	27
v. Heat Pump Water Heaters: 40 Gallon and Tiers 1, 2, 3, and 4	27
LOW-INCOME DEEMED MEASURES PAYMENT TABLE	28
LOW-INCOME DEEMED WEATHERIZATION MEASURE ELIGIBILITY TABLE	31
ADDITIONAL DEEMED MEASURE SPECIFIC INFORMATION	32
1) Insulation.....	32
2) Prime Window and Patio Door Replacement	34
3) Low-E Storm Windows.....	34
4) Exterior Insulated Doors	35
5) Whole House Air Sealing and Testing	35
6) Prescriptive Air Sealing	36
D. LOW-INCOME ENERGY EFFICIENCY EDUCATION	36
E. EFFICIENT LIGHTING	36
F. REPLACEMENT OF PRE-1976 MANUFACTURED HOME WITH NEW NORTHWEST ENERGY EFFICIENT MANUFACTURED HOUSING (NEEM) CERTIFIED HOME	37

UNIT 1 – TERMS & CONDITIONS

CLAUSES INCORPORATED BY REFERENCE

This award incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at the following address:

Bonneville Financial Assistance Instructions Manual clauses:
<https://www.bpa.gov/Doing%20Business/finassist/Pages/default.aspx>

Clause 1 Regulations Applicable To BPA Financial Assistance (JUL 2017)
Clause 2 Legal Authority And Effect (JUL 2017)
Clause 3 Non-assignability (JUL 2017)
Clause 4 Compliance With Federal, State, And Municipal Law (JUL 2017)
Clause 5 Inconsistency With Federal Law (JUL 2017)
Clause 7 Contracting Officer’s Representative (OCT 2018)
Clause 10 Federal Stewardship (OCT 2018)
Clause 12 Nondisclosure And Confidentiality Agreements Assurances (JUL 2017)
Clause 13 Foreign Work and Travel (JUL 2021)
Clause 14 Purchases (JUL 2017)
Clause 15 Lobbying Restrictions (JUL 2017)
Clause 16 Export Controls (JUL 2017)
Clause 18 Extensions Of Period Of Performance (JUL 2017)
Clause 19 Property Trust Relationship & Insurance Coverage (JUL 2017)
Clause 22 Title To And Disposition Of Property (OCT 2018)
Clause 23 Record Retention (JUL 2021)
Clause 24 Audits (OCT 2018)
Clause 25 Suspension Or Termination (JUL 2017)
Clause 26 Claims, Disputes, And Appeals (JUL 2017)
Clause 27 Reporting Program Performance (JUL 2021)
Clause 29 Payment Requests (JUL 2017)
Clause 30 Advance Payment And Financial Reporting Requirements (OCT 2018)
Clause 31 Reimbursement Payment & Financial Reporting Requirements (OCT 2018)
Clause 32 Budget Changes (JUL 2021)
Clause 33 Incremental Funding (JUL 2017)
Clause 34 Insolvency, Bankruptcy Or Receivership (OCT 2018)
Clause 35 Nondiscrimination In Federally Assisted Programs (JUL 2017)
Clause 36 Environmental Protection (JUL 2021)
Clause 39 Felony Conviction And Federal Tax Liability Assurances (JUL 2017)
Clause 40 Drug-Free Workplace Requirements For Financial Assistance Awards (JUL 2017)
Clause 43 Indemnity (OCT 2018)
Clause 44 Environmental, Safety, And Health (OCT 2018)
Clause 45 Small Unmanned Aircraft (UAS) (JUL 2021)
Clause 46 Closeout (JUL 2021)

CLAUSES INCORPORATED BY FULL TEXT

CLAUSE 17 PUBLICATIONS (JUL 2017)

BPA encourages the Recipient to publish or otherwise make publicly available the results of work performed under this Award. The Recipient is required to include the following acknowledgement in publications arising out of or relating to work performed under this Award:

Acknowledgment: “The information, data, or work presented herein was funded in part by the Bonneville Power Administration under Award Number [REDACTED]. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.”

UNIT 2 – STATUTORY AND NATIONAL POLICY REQUIREMENTS

Financial assistance awards are subject to the following statutory and national policy requirements below. By signing or accepting the funds under the financial assistance award, the recipient agrees that it will comply with applicable provisions below.

Description	Type of Award	Type of Recipient	Specific Situation	Flow Down Requirements
NONDISCRIMINATION				
On the basis of race, color, or national origin, in Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d, et seq.), as implemented by: DOE at 10 CFR Part 1040	All	All	All	Requirements flow down to subrecipients.
On the basis of race, color, religion, sex, or national origin, in Executive Order 11246 [3 CFR, 1964-1965 Comp., p. 339], as implemented by Department of Labor regulations at 41 CFR Part 60 and EPA at 40 CFR Parts 7 and 12.	Grants, cooperative agreements, and other prime awards defined at 40 CFR 60-1.3 as “Federally assisted construction contract.”	All	Awards under which construction is to be done.	Requirements flow down to construction subrecipients.
On the basis of sex or blindness, in Title IX of the Education Amendments of 1972 (20 U.S.C. 1681, et seq.). DOE at 10 CFR Part 1040	All	Educational institution [for sex discrimination , excepts all Institution controlled by religious organization, when inconsistent with the organization’s religious tenets].		

Description	Type of Award	Type of Recipient	Specific Situation	Flow Down Requirements
On the basis of age, in the Age Discrimination Act of 1975 (42 U.S.C. 6101, et seq.), as implemented by Department of Health and Human Services regulations at 45 CFR part 90. DOE at 10 CFR Part 1040	Grants, cooperative agreements, and other awards defined at 45 CFR 90.4 as "Federal financial assistance."	All	All	Requirements flow down to subrecipients.
On the basis of handicap, in: Section 504 of the Rehabilitation Act of 1973 (29 USC 794), as implemented by Department of Justice regulations at 28 CFR Part 41 and DOE at 10 CFR Part 1040.	Grants, cooperative agreements, and other awards included in "Federal financial assistance"	All	All	Requirements flow down to subrecipients.
The Architectural Barriers Act of 1968 (42 USC 4151, et seq.).	Grant or loan	All	Construction or alteration of buildings or facilities, except those restricted to use only by able-bodied uniformed personnel.	
Americans with Disabilities Act. 42 USC 12101 et. seq	All	All		
LIVE ORGANISMS				
For human subjects:				
For human subjects, the Common Federal Policy for the Protection of Human Subjects. Codified by the: DOE at 10 CFR Part 745	All	All	Research, development, test, or evaluation involving live human subjects.	Requirements flow down to subrecipients
P.L. 104-191 Health Insurance Portability and Accountability Act (HIPAA)	As applicable	Covered Entities	As applicable	Limits uses of protected health information (PHI) collected or maintained by researchers within a covered entity or access to PHI from a covered entity. Research uses do not require Business Associate Agreements (defined at 45 CFR part 164 504 (e)(1) between collaborating institutions. Guidance available at http://privacyruleandresearch.nih.gov/
For animals:	All	All		Requirements flow down to subrecipients.

Description	Type of Award	Type of Recipient	Specific Situation	Flow Down Requirements
<p>Rules on animal acquisition, transport, care, handling, and use in: (i) 9 CFR Parts 1-4, Department of Agriculture rules that implement the Laboratory Animal Welfare Act of 1966 (7 US+A160C. 2131-2156). Public Health Service Agencies must follow requirements in the PHS Policy on Humane Care and Use of Laboratory Animals, which implements PL 99-158, Sec. 495. NASA requirements for animal welfare are set forth at 14 CFR Part 1232 EPA at 40 CFR Part 40. For USDA/CSREES, "In the case of domestic farm animals housed under farm conditions, the institution should adhere to the principles stated in the Guide for the Care and Use of Agricultural Animals in Agriculture and Teaching, Federation of Animal Science Societies, 1999."</p>	All	All	<p>Research, experimentation, or testing involving the use of animals USDA regulations exempt birds, most rats and mice bred for research, and farm animals used for agricultural research.</p>	
<p>Rules of the Departments of Interior (50 CFR Parts 10-24) and Commerce (50 CFR Parts 217-227) implementing laws and conventions on the taking, possession, transport, purchase, sale, export, or import of wildlife and plants, including the: Endangered Species Act of 1973 (16 U.S.C. 1531-1543); Marine Mammal Protection Act (16 U.S.C. 1361-1384); Lacey Act (18 U.S.C. 42); and Convention on International Trade in Endangered Species of Wild Fauna and Flora.</p>	All	All	<p>Activities which may involve or impact wildlife and plants.</p>	
ENVIRONMENTAL STANDARDS				
<p>Comply with applicable provisions of the Clean Air Act (42 U.S.C. 7401, et. Seq.) and Clean Water Act (33 U.S.C. 1251, et. seq.), as implemented by Executive Order 11738 [3 CFR, 1971-1975 Comp., p. 799].</p> <p>EPA at 40 CFR Part 6</p>	All	All	<p>All, for Clean Air Act, Clean Water Act, and Executive Order 11738.</p>	<p>Requirements flow down to subrecipients.</p>

Description	Type of Award	Type of Recipient	Specific Situation	Flow Down Requirements
<p>The quality of the human environment, and provide help the agency may need to comply with the National Environmental Policy Act (NEPA, at 42 U.S.C. 4321, et. seq.) and to prepare Environmental Impact Statements or other required environmental documentation. In such cases, the recipient agrees to take no action that will have an adverse environmental impact (e.g., physical disturbance of a site such as breaking of ground) until the agency provides written notification of compliance with the environmental impact analysis process.</p> <p>DOE at 10 CFR Part 1021</p>				
<p>Flood-prone areas, and provide help the agency may need to comply with the National Flood Insurance Act of 1968 and Flood Disaster Protection Act of 1973 (42 U.S.C. 4001, et. seq.), which require flood insurance, when available, for Federally assisted construction or acquisition in flood-prone areas.</p> <p>DOE at 10 CFR Part 1022</p>	All	All	Awards involving construction, land acquisition or development, with some exceptions [see 42 U.S.C. 4001, et. seq.].	The Council on Environmental Quality's regulations for implementing NEPA are at 40 C.F.R. Parts 1500-1508. Executive Order 11514 [3 CFR, 1966-1970 Comp., p. 902], as amended by Executive Order 11991, sets policies and procedures for considering actions in the U.S. Executive Orders 11988 [3 CFR, 1977 Comp., p. 117] and 11990 [3 CFR, 1977 Comp., p. 121] specify additional considerations, when actions involve floodplains or wetlands, respectively.
<p>All existing or proposed components of the National Wild and Scenic Rivers system, and provide help the agency may need to comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C.1271, et seq.). EPA at 40 CFR Part 6</p>	Grants, cooperative agreements, and other "financial assistance" (see 16 U.S.C. 3502).	All	Awards that may affect existing or proposed element of National Wild and Scenic Rivers system.	Requirements flow to subrecipients.
<p>Underground sources of drinking water in areas that have an aquifer that is the sole or principal drinking water source, and provide help the agency may need to comply with the Safe Drinking Water Act (42 U.S.C. 300h-3). EPA at 40 CFR Part 6</p>	All	All	Construction in All area with aquifer that the EPA finds would create public health hazard, if contaminated.	42 U.S.C. 300h-3(e) precludes awards of Federal financial assistance for all projects that the EPA administrator determines may contaminate a sole-source aquifer so as to threaten public health.

Description	Type of Award	Type of Recipient	Specific Situation	Flow Down Requirements
Resource Conservation and Recovery Act 42 USC 6901	All	Awards to states or a political subdivision of a state (which for this purpose includes state and local institutions of higher education or hospitals)		
HEALTH & SAFETY GUIDELINES				
Applicable OSHA Standards in Laboratories 29 CFR 1910.1030 Bloodborne Pathogens; 29 CFR 1910.1450, Occupational Exposure to Hazardous Chemicals in Laboratories	All	All	Research involving use of hazardous chemicals or bloodborne pathogens	
Handling and transport of etiologic agents Procedures for Domestic Handling and Transport of Diagnostic Specimens and Etiologic Agents, 1994 (3rd ed.), H5a3doc.75, National Committee for Clinical Laboratory Standards	All	All	Research involving etiologic agents	
Hotel and Motel Fire Safety Act of 1990 - P.L. 101-39 40 USC 327-333	Conference or meeting support	All	Alterations and Renovations > \$500,000	
Labor Standards under Federally Assisted Construction: Construction Work Hours and Safety Standards Act 40 USC 327-333	All	All	Alterations and Renovations > \$500,000	
Text Messaging While Driving - EO 13513	All	All	When performing work for or on behalf of government	Adopt and enforce policies that ban text messaging while driving.
Increasing Seat Belt Use in the United States Executive Order 13043, Increasing Seat Belt Use in the United States, dated, April 16, 1997	All	All		In accordance with the Executive Order, "grantees are encouraged to adopt and enforce on-the-job seat belt policies and programs for their employees when operating company-owned, rented, or personally owned vehicles."
NATIONAL SECURITY GUIDELINES				
Executive Order 13224, Blocking Property and Prohibiting Transactions with Persons who Commit, Threaten to Commit, or Support Terrorism, dated September 23, 2001.	All			

GENERAL/MISCELLANEOUS REQUIREMENTS				
Drug Free Workplace 41 USC 701 et seq. DOE at 10 CFR Part 607	All	All		
Civil False Claims Act 31 USC 2739	All	All	All	
Criminal False Claims Act 18 USC 287 and 1001 31 USC 3801, 45 CFR 79	All	All	All	
Government-wide Debarment and Suspension (Nonprocurement) DOE at 10 CFR 1036	All	All		
Lobbying Prohibitions 31 USC 1352, stipulates that (1) No Federal appropriated funds have been paid or will be paid, any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement. (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit the SF Form LLL, "Disclosure of Lobbying Activities", in accordance with its instructions. DOE at 10 CFR Part 601	All			Requirements flow down to construction subrecipients.
Metric System 15 USC 205 and Executive Order 12770	All	All	All	
Misconduct in Science Policies and responsibilities associated with prevention, detection, and handling of misconduct in science allegations as stipulated in regulations: DOE at 10 CFR Part 733 [Federal Register: December 6, 2000 (Volume 65, Number 235)] [Notices] [Page 76260-76264]	All	All	All	

<p>National Historic Preservation</p> <p>The recipient agrees to identify to the awarding agency all property listed or eligible for listing on the National Register of Historic Places that will be affected by this award, and to provide all the help the awarding agency may need, with respect to the award.</p> <p>16 USC 470f</p>	All	All	All	
<p>Paperwork Reduction Act</p> <p>44 USC 3501</p>	All	All	<p>When data is collected from respondents using a questionnaire or other survey instrument. See, however, M-11-07 dated 12/9/10 entitled, "Facilitating Scientific Research by Streamlining the Paperwork Reduction Act Process."</p> <p>https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/memoranda/2011/m11-07.pdf</p>	<p>Data collection activities, if any, performed under this project are the responsibility of the recipient, and awarding agency support of the project does not constitute approval of any survey design, questionnaire content, or data collection procedures. The recipient shall not represent to respondents that such data are being collected for or in association with Bonneville without the specific written approval of the Bonneville CO. However, this requirement is not intended to preclude mention of Bonneville support of the project in response to an inquiry or acknowledgment of such support in any publication of these data.</p>
<p>U.S. Flag Air Carriers</p> <p>49 USC 40118 See also General Services Administration amendment to the Federal Travel Regulations, Federal Register (Vol. 63, No. 219, 63417-63421)</p>	All	All	<p>Any air transportation to, from, between, or within a country other than the U.S. of persons or property, the expense of which will be assisted by Federal funding, must be performed by or under a code-sharing arrangement with a U.S.-flag air carrier if service provided by such a carrier is available (see Comp Gen. Decision B-240956, dated September 25, 1991).</p>	

Trafficking in Persons By signing or accepting funds under the agreement, the recipient agrees that it will comply with Trafficking Victims Protection Act of 2000 (22 U.S.C. 7104(g)) as implemented by 2 CFR 175.	All	175.15(b)l.a. applies to private entities 175.15(b)l.b. applies to other than private entities if award includes subrecipient award to a private entity 117.15(b)l.c. applies to all recipients		Requirements flow down to subrecipients.
Whistleblower Protection Awardees are notified of the applicability of 41 U.S.C. § 4712, as amended by P.L. 112-239, providing protection for whistleblowers.	All	All	All	
Use of United States Flag Vessels 46 CFR 381	All	All		
Patents, Trademarks and Copyrights 35 USC 202-204 and 37 CFR 401	All	Awards to non-profits and small businesses		
Privacy Act 5 USC 552a	All	All		
Pro Children Act 20 USC 7183	All	All	All awards performed in facilities where children are served.	
Uniform Relocation Assistance and Real Property Acquisition Policies Act 42 USC 4601 and 49 CFR 24	All	All		
Constitution Day PL 108-447	All	Educational Institutions		
Copeland Act 40 USC 4135	All	All		
Davis Bacon Act 40 USC 3141 et.seq	All	All		
Earthquake Hazards Reduction Act 42 USC 7701 et seq., EO 12699	All	All	Construction awards within applicable geographic areas	
Freedom of Information Act 5 USC 552	All	All		
Hatch Act 5 USC 7321-7328	All	State or Local Governments		

Limited English Proficiency EO 13166	All	All		
Native American Graves Protection and Repatriation 25 USC 3001-3013	All	All		Precludes use of funds to maintain or establish a computer network unless such network blocks the viewing, downloading, and exchanging of pornography, unless the activity fits within a law enforcement exception as noted in the provision.

UNIT 3 – PROJECT DESCRIPTION

PART I – FUNDING OPPORTUNITY DESCRIPTION

A. BACKGROUND

BPA is committed to providing an adequate, efficient, economical and reliable power supply to the Pacific Northwest. To this end, BPA supports conservation targets for the residential, commercial, industrial and agricultural sectors. The residential sector includes residential energy efficiency efforts, which BPA achieves through BPA’s Utility Customers, Northwest States and Federally Recognized American Indian Tribes (Indian Tribes). BPA has been implementing weatherization programs since 1986.

B. GOALS AND OBJECTIVES

The purpose of BPA funding is to increase energy efficiency of dwellings owned or occupied by Eligible Low-Income Persons/Participants (ELP) in areas served by Bonneville Power Administration (BPA) Utility Customers. BPA’s Tribal set-aside program is established to leverage the existing infrastructure within each tribe to reach this residential sector of particularly vulnerable low-income tribal members.

C. PROJECT TYPES

Funding for low-income energy efficiency services may be utilized to provide the types of services identified in the Project Description found in [Appendix III – Tribal LIEE Project Description](#). BPA funding may also be used to enhance capabilities by covering training fees and travel associated with specialized training and attendance at BPA sponsored workshops.

D. DEFINITIONS

- “Applicant” means an entity that files a written application for financial assistance with BPA or with a recipient, i.e., for a subaward.
- "Application" means a written document from an applicant that contains details of the project or program for which they are seeking BPA's financial assistance and support.
- "Award" means the written instrument executed by a BPA Contracting Officer (CO) after an application is approved, which contains the terms and conditions for providing financial assistance to the recipient. "Award" can refer to any of the specific instruments referred to in the BFAI. An award authorizes funds for a specific project.
- “BFAI” means Bonneville Financial Assistance Instructions.
- "BPI" means the Bonneville Purchasing Instructions.
- "Contract" means a legal instrument reflecting an agreement between BPA and a contractor whenever the principal purpose of the instrument is the acquisition by purchase or lease of goods or services for the direct use or benefit of BPA.

- "Contracting Officer" (CO) means a BPA employee who possesses the delegated authority to obligate BPA funds through the use of financial assistance instruments.
- "Contracting Officer's Representative" or "COR" means the individual designated and authorized in writing by the contracting officer to perform specific technical and/or administrative functions, and who has been formally trained and certified at BPA to perform such duties.
- "Cooperative agreement" means a legal instrument reflecting a relationship between BPA and a State or local government or other recipient whenever:
 - (1) the principal purpose of the relationship is the transfer of money, property, services, or anything of value to the State, local government, tribe or other recipient to accomplish a public purpose of support or stimulation authorized by Federal statute, rather than acquisition, by purchase, lease, or barter, of property or services for the direct benefit or use of BPA; and,
 - (2) substantial involvement is anticipated between BPA and the State, local government, tribe or other recipient during performance of the activity. (31 U.S.C. 6305)
- "Field Representative" or "FR" means the individual who has been delegated responsibility by the Financial Assistance Official (FAO) for inspecting the project for compliance with plans and specifications. The field representative is not authorized to make changes to the award, direct the recipient to take specific actions, issue stop or resume work orders. Field representatives work under the direct supervision of the FAO and Project Technical Representative (PTR).
- "Financial assistance" means any form of assistance instrument where the principal purpose of the relationship is the transfer of money, property, services or anything of value to a recipient in order to accomplish a public purpose of support or stimulation authorized by Federal statute rather than of acquisition, by purchase, lease, or barter, of property or services for the direct benefit or use of BPA. Specific types of financial assistance instruments include, but are not limited to, grants, cooperative agreements, and loans.
- "Financial Status Report" (FSR) means a periodic report regularly provided to the FAO or PTR to enable supervision of the recipient's project implementation and success.
- "Government" means a State or local government or a federally-recognized Indian Tribal Government.
- "Grant" means a legal instrument reflecting a relationship between BPA and a State or local government or other recipient whenever:
 - (1) the principal purpose of the relationship is the transfer of money, property, services, or anything of value to the State, local government, tribe or other recipient in order to accomplish a public purpose of support or stimulation authorized by Federal statute, rather than acquisition, by purchase, lease, or barter, of property or services for the direct benefit or use of BPA; and,
 - (2) no substantial involvement is anticipated between BPA and the State, local government, tribe or other recipient during performance of the contemplated activity. (31 U.S.C. 6304.)
- "Grantee." See "Recipient".
- "Local government" means a county, municipality, city, town, township, local public authority, school district, special district, intrastate district, council of government (whether or not incorporated as a nonprofit corporation under state law), any other regional or interstate government entity, or any agency or instrumentality of a local government.
- "Negotiation" means the process through which BPA and the applicant establish mutual agreement as to project purpose, definition, timing, BPA's role in the project, and the resources appropriate to support and carry out the project.
- "Pacific Northwest" means:
 - (1) the region consisting of the States of Oregon and Washington, the State of Montana west of the Continental Divide, and such portions of the States of Nevada, Utah, and Wyoming within the

Columbia drainage basin and of the State of Idaho as the Secretary may determine to be within the marketing area of the Federal Columbia River power system, and

(2) any contiguous areas, not in excess of seventy-five airline miles from said region, which are a part of the service area of a rural electric cooperative served by the Administrator on Dec. 5, 1980 which has a distribution system from which it serves both within and without said region.

- "Participant" means a non-Federal party which receives financial assistance by means of a cooperative agreement. At BPA the term "recipient" is used in lieu of "participant."
- "Principal Investigator" means a person designated by the recipient in the award document as necessary to understand the goals of the project, direct and manage the project, and whose participation is required for successful completion of the project.
- "Program Office" means the office that determines major program goals and policies, and allocates funds, personnel, and other resources among the programs for which it is responsible, and determines other major facets of the financial assistance effort.
- "Recipient" means the organization that receives a financial assistance award from BPA and is financially accountable for the use of any BPA funds or property provided for the performance of the project, and is legally responsible for carrying out the terms and conditions of the award.
- "State" means any of the several States of the United States, the District of Columbia, the Commonwealth of Puerto Rico, any territory or possession of the United States, or any agency or instrumentality of a State exclusive of local governments.

PART II – AWARD INFORMATION

A. TYPE OF AWARD INSTRUMENT

This is a financial assistance funding opportunity. The award instrument shall be in the form of a grant. All award payments will be paid in advance, in lump sum, unless cost reimbursement is requested by the recipient. If the grant amount exceeds 100k, the advance payments will be made incrementally.

B. ESTIMATED FUNDING

Up to \$1,201,000 is available for FY 2022-2023 awards, with approximately \$600,500 available in FY 2022 and the remaining balance in FY 2023. At this time BPA will only entertain funding requests for FY 2022.

C. ANTICIPATED NUMBER OF AWARDS AND AWARD PRIZE

BPA anticipates multiple awards resulting from this announcement. BPA anticipates typical awards will range from \$15,000 to \$100,000 per fiscal year. There is no minimum award size.

D. PERIOD OF PERFORMANCE

The budget and performance period for grants awarded under this funding opportunity aligns with BPA's rate period. Performance periods are set depending on the Grantee's funding needs and available budget. Funding is made available beginning of Fiscal Year (FY) 2022 from October 1, 2021 – September 30, 2022 and again on FY 2023 from October 1, 2022 – September 30, 2023.

PART III – ELIGIBLE APPLICATIONS

A. ELIGIBLE APPLICANTS

American Indian Tribes serving Eligible Low-Income Persons/Participants (ELP) in areas served by Bonneville Power Administration (BPA) Utility Customers are eligible to submit applications for grant funding. Applicants must be eligible to receive federal funding per the excluded parties list system at www.sam.gov.

B. COST SHARING/VOLUNTARY COST SHARING/LEVERAGING

There is no cost share requirement.

PART IV – APPLICATIONS AND SUBMISSION INFORMATION

A. SUBMISSION REQUIREMENTS

The application must be submitted electronically to Amy Burke, Program Manager, at aaburke@bpa.gov.

B. CONTENT AND FORM

The written application should address the following elements. Applicants may submit the application parts as one combined document or as separate documents in Word, Adobe Portable Document Format (PDF), or Excel as appropriate. However, please be advised that applicant must also provide Part B – Budget in this section in either Word or Excel format, as BPA intends to incorporate it into the resulting award document.

1. Cover Letter

Include a brief cover letter with your application. The cover letter should indicate what type of program you intend to offer and for which type of grant you are applying. A full service program is one which provides the full array of weatherization services. A limited program is one which offers an appliance program, HVAC heat pump water heating, and lighting program, receives training support, or a combination thereof. The cover letter should be signed by the party with authority to enter into a grant with BPA.

2. Part A – Technical

This section should not exceed three to five pages in length, excluding resumes and audit information attached to the application.

- a. Organizational capability and capacity. Please provide a brief description of your organization and its capabilities to manage and deliver low-income energy efficiency services. Include the names, background and roles of key personnel (or subcontractors) and note relevant experience these individuals bring to the program. Identify any certified Weatherization Auditors or Installers. Key personnel should include individuals with primary responsibility for managing the program, and verifying, inspecting or overseeing on-site work. Relevant resumes, restricted to one page each, should be provided as an attachment to the application. The attached resumes do not count towards the page limitation. Note: For limited program applications, key personnel may be limited to the program manager.
- b. Need for BPA Support. Explain the impact of BPA funding and the need for a low-income energy efficiency program. Describe the need in terms of the number of eligible houses, number of residents on a waiting list, and number of houses already served. Please identify if other tribes will benefit from the program, e.g., if applicant will serve two tribes or if applicant will provide audit assistance to another tribe.
- c. Proposed Program Activity. Describe the proposed portfolio of program activity. What outcomes will be achieved if your application is awarded at the requested amount?
- d. Experience and Accomplishments. Provide a brief overview of your organization's experience in delivering services under BPA's low-income energy efficiency program and/or the U.S. DOE program.
- e. Readiness. If awarded, please address what, if any, other conditions must be addressed to implement the program. This could include, but is not limited to, acquiring certified weatherization auditors or vendor services.
- f. Challenges. Identify the primary expected challenges and risks in the proposed program and how the applicant plans to address those challenges and mitigate those risks.
- g. Financials. As an attachment to your application, please provide an electronic copy of your most recently completed audit under Subpart F of 2 CFR 200. If any material weaknesses or significant deficiencies are noted for internal controls over financial reporting or major programs, please explain and identify how your organization has taken corrective action. This documentation may also be provided as an attachment.

3. Part B – Budget

- a. Provide a Title Page for this part of the application.
- b. Provide a proposed budget for the performance period following the format of Appendix I - Proposed Budget Template. The budget should include a breakdown across cost categories – personnel, travel, equipment, subcontracts, other direct costs and administrative overhead (subject to 15 percent cap). The budget should note any cost sharing if provided, whether cash or in-kind, and identify the sources of the additional project support.
- c. The budget must be accompanied by a budget justification narrative (refer to Appendix II – Budget Justification Narrative Template). The budget and budget justification narrative should be provided as separate attachments and will not count towards the page limitation.
- d. For applicants requesting additional funds under a current grant, the budget should clearly show the additional budget requested and the revised budget total.
- e. For grant applications limited to training support only, the budget format may be simplified accordingly. No administrative overhead will be paid for reimbursement of training and travel related grants.
- f. Applicants are advised to estimate and budget for travel costs associated with participation in the BPA sponsored spring workshop in Bellingham, Washington. Assume two nights of lodging in the month of April.

C. SUBMISSION DATES AND TIMES

1. Priority Application

Priority applications are due by close of business on December 1, 2021. Those applications received by this date will receive priority in review and award.

2. Letter of Intent Due Date

For those applicants not submitting a Priority Application, a Letter of Intent is due by close of business on December 15, 2021. The Letter of Intent should identify your organization, the anticipated date by which your organization will submit a funding application, and the estimated amount of funding that will be requested. The purpose of this request is to identify the number of potential applicants and funding requested for FY 2022.

3. Application Due Date

This is an open, continuous application throughout FY 2022-2023. Applicants are encouraged to submit requests for funding by January 1, 2022 to ensure that funding will still be available; however, applications will be accepted throughout the year.

D. FUNDING RESTRICTIONS

1. Cost Principles

BPA applies applicable cost principles to its financial assistance awards. Grants awarded under this program are subject to Subpart E of 2 CFR 200 Parts 416 - 417, Cost Principles for State, Local and Indian Tribal Governments.

2. Pre-Award Costs

BPA does not intend to authorize pre-award costs.

3. Supplanting Funds Expressly Prohibited

BPA funds must be used to increase or supplement the funding available for an awarded project. Applicants may not supplant available funds. Supplanting is to deliberately reduce or reallocate state, local or agency funds because of existence of federal agency funds.

4. Indirect Rates

Indirect rates are only allowed to be up to 15% of the entire grant, and must substitute administrative overhead costs which are also only allowed up to 15%.

PART V – APPLICATIONS EVALUATION INFORMATION

A. CRITERIA

1. Responsiveness

Prior to a comprehensive evaluation, BPA will perform an initial review to determine that (1) the Applicant is eligible for an award; (2) the information required by the announcement has been submitted; (3) all mandatory requirements are satisfied; and (4) the proposed project is responsive to the objectives of the program.

2. Evaluation Criteria

a. Technical

- i. Organizational technical capability and capacity to manage and deliver low-income energy efficiency services to the target population.
- ii. Demonstrated need for BPA support.
- iii. The proposed portfolio of program activity and how it aligns with BPA's goals for the overall program portfolio.
- iv. Demonstrated experience and accomplishments in delivering low-income energy efficiency services.
- v. Readiness of the organization to implement the proposed program.

b. Non-Technical

- i. Financial Capabilities
- ii. The budget will be evaluated for reasonableness of proposed costs and in relation to proposed activities and outcomes.

B. REVIEW AND SELECTION PROCESS

1. Evaluation

You application will be evaluated by one or more technical personnel and a Contracting Officer (CO) based on the identified criteria. Funding decisions are managed at the program level. If BPA's evaluation is favorable, funding is available for the project, and a determination is made to fund, the program will authorize the award and you will be notified by a Contracting Officer. BPA may elect to fund your application at a lesser amount. Any negotiations on budget or programmatic aspects will be handled by the Contracting Officer.

2. Discussions and Award

The Contracting Officer may enter into discussions with a selected Applicant for any reason deemed necessary, including but not limited to: (1) the budget is not appropriate or reasonable for the requirement; (2) only a portion of the application is selected for award; (3) BPA needs additional information to determine the recipient's financial management capabilities; and/or (4) special terms and conditions are required.

Failure to resolve satisfactorily the issues identified by the Government will preclude award to the Applicant.

Applicants are advised that financial assistance awards are made at the sole discretion of BPA and are not subject to appeal or review.

C. ANTICIPATED NOTICES OF SELECTION AND AWARD DATES

For those applications received by the priority application due date, BPA anticipates notifying applicants of BPA's intent to award within 30 days. BPA will attempt to make the award by January 15, 2022. For applications submitted after that date, please allow at least 30 days for review and a minimum of 30 days for award.

PART VI – QUESTIONS AND CONTACTS

A. BPA CONTACT

Name: Amy Burke
Email: aaburke@bpa.gov
Telephone: 503-230-4364

B. QUESTIONS

Any questions regarding this announcement, before or after the pre-application teleconference, should be submitted electronically to the BPA contact identified above.

APPENDIX I – PROPOSED BUDGET TEMPLATE

Cost Category	Total Project Costs (\$)
A. Personnel	
B. Fringe Benefits	
C. Travel	
D. Equipment	
E. Supplies (Non-Durable Goods)	
F. Contractual & Subrecipient Services	
G. Other Direct Costs	
Total Direct Costs	
H. Administrative Overhead (Not to exceed 15%)	
Total Costs	

APPENDIX II – BUDGET JUSTIFICATION NARRATIVE TEMPLATE

Provide information that supports the high level budget numbers by cost category, e.g., key line items in each cost category. For example, under “Equipment,” identify types of equipment, number of units, and cost per unit. Under contracted services, identify type of service and vendor if known. The narrative should address any relevant information and assumptions used in developing the proposed budget.

A. PERSONNEL

List all staff positions by title. Give annual salary, percentage of time assigned to the project, and total cost for the budget period, or give hourly rate and number of hours assigned to project. This category includes only direct costs for the salaries of those individuals who will perform work directly for the project (generally, paid employees of the applicant organization). If the applicant organization is including staff time (in-kind services) as a cost share, this should be included as Personnel costs. Personnel costs do not include: (1) costs for services of consultants, contractors, consortia members, or other partner organizations, which are included in the “Contractual” category; (2) costs for employees of subrecipients under subawards, which are included in the “Other” category; or (3) effort that is not directly in support of the proposed project, which may be covered by the organization’s negotiated indirect cost rate. The budget detail must identify the number of personnel proposed for each category and the estimated funding amounts.

B. FRINGE BENEFITS

Identify the percentage used, the basis for its computation, and the types of benefits included. Fringe benefits are allowances and services provided by employers to their employees as compensation in addition to regular salaries and wages. Fringe benefits include, but are not limited to the cost of leave, employee insurance, pensions and unemployment benefit plans.

C. TRAVEL

Specify the mileage, per diem (lodging and M&IE), estimated number of trips in-State and out-of-State, number of travelers, and other costs for each type of travel. Travel may be integral to the purpose of the proposed project (e.g. inspections) or related to proposed project activities (e.g. attendance at meetings). Travel costs do not include: (1) costs for travel of consultants, contractors, consortia members, or other partner organizations, which are included in the “Contractual” category; (2) travel costs for employees of subrecipients under subawards, which are included in the “Other” category.

D. EQUIPMENT

The budget detail must include an itemized listing of all equipment proposed under the project. Explain need for each item to be purchased.

E. MATERIALS/SUPPLIES

“Materials” and “Supplies” means all tangible personal property other than “equipment”. The budget detail should identify categories of supplies to be procured (e.g., laboratory supplies or office supplies). Non- tangible goods and services associated with supplies, such as printing service, photocopy services, and rental costs should be included in the “Other” category.

F. CONTRACTUAL & SUBRECIPIENT SERVICES

Identify each proposed vendor contract and/or sub-recipient and specify its purpose and estimated cost. A lump sum estimate for each vendor or sub-recipient is insufficient. The basis for the estimate should be explained, e.g., quotations, procurement contract, market research. If the proposed cost is based on other than a competitively awarded contract, explain how your organization determined the cost to be reasonable.

Contractual/consultant services are those services to be carried out by an individual or organization, other than the applicant, in the form of a procurement relationship. A contractor, or vendor, provides ancillary goods or services that the primary applicant needs to conduct the research effort. A vendor is not responsible for the project results. The applicant should list the proposed contract activities along with a brief description of the scope of work or services to be provided, proposed duration, and proposed procurement method (competitive or non-competitive), if known. A subrecipient is a co-applicant, and is responsible for the end results of the research effort equally with the primary applicant where federal funds are being passed through to another entity. By definition, a subrecipient relationship can only be established where federal funds are involved.

G. OTHER DIRECT COSTS

List each item in sufficient detail for BPA to determine the reasonableness and allowability of its cost. This category should include only those types of direct costs that do not fit in any of the other budget categories. Examples of costs that may be in this category are: insurance, rental/lease of equipment or supplies, equipment service or maintenance contracts, printing or photocopying, rebates, and subaward costs. Subawards (e.g., subgrants) are a distinct type of cost under this category. The term “subaward” means an award of financial assistance (money or property) by any legal agreement made by the recipient to an eligible subrecipient. This term does not include procurement purchases, technical assistance in the form of services instead of money, or other assistance in the form of revenue sharing, loans, loan guarantees, interest subsidies, insurance, or direct appropriations. Subcontracts are not subawards and belong in the contractual category. Applicants must provide the aggregate amount they propose to issue as subaward work and a description of the types of activities to be supported.

APPENDIX III–TRIBAL LIEE PROJECT DESCRIPTION

PART A – GENERAL

A.1 AUTHORITY

Pacific Northwest Electric Power Planning and Conservation Act Sections 6(a)(1)(A), 6(b)(1), and 6(k).

A.2 GRANT PURPOSE

To provide funds to the Recipient, in areas served by Bonneville Power Administration (BPA) Utility Customers, to increase energy efficiency of dwellings owned or occupied by Eligible Low-Income Persons/Participants (ELP).

To supplement funds provided to Pacific Northwest Federally Recognized American Indian Tribes (Indian Tribes) from the United States Department of Energy Weatherization Assistance Program for Low-income Persons – Title 10 Part 440.

A.3 BACKGROUND

BPA is committed to providing an adequate, efficient, economical and reliable power supply to the Pacific Northwest. To this end, BPA supports conservation efforts for residential, commercial, industrial and agricultural sectors. The residential sector includes residential weatherization efforts, which BPA achieves through BPA’s utility customers, the Pacific Northwest states, and Federally Recognized American Indian Tribes (Indian Tribes). BPA has been implementing weatherization programs throughout the Pacific Northwest states since 1996. BPA’s State and Tribal support is targeted at residences occupied by low-income parties because the ability to reach this residential sector of particularly vulnerable persons requires the existing infrastructure established within each state or tribe.

BPA, in working with Indian Tribes, takes advantage of efficiencies of existing United States Department of Energy (US DOE) Weatherization Assistance Programs (WAP). In addition to BPA’s own Quality Assurance and reporting requirements, the US DOE program requires certain reporting requirements (10 CFR 440.25), which serve to provide additional federal oversight of the funds and program operation.

Other low-income weatherization program budgets such as DOE (Department of Energy) and LIHEAP (Low Income Home Energy Assistance Program) tend to fluctuate from year to year resulting in unstable delivery of conservation savings from this sub-sector. To assure continued participation of low-income households in weatherization programs, BPA will continue to enter into grants with Pacific Northwest Federally Recognized American Indian Tribes (Indian Tribes) with consistent tribal set-aside funding levels established every two years. BPA expects to distribute weatherization funds to Indian Tribes to be used in conjunction with their existing US DOE programs to weatherize and improve space and water heating systems in low-income housing. In addition, BPA desires to increase the reach of energy efficiency programs in American Indian communities and homes. Providing funding to support this infrastructure and targeted services addresses this objective.

A.4 LOCATION

Eligible Dwelling Units funded under this grant must be located in the utility service territory of a BPA Utility Customer (see Exhibit A – Bonneville Power Eligible Utility Customers).

A.5 GOVERNMENT-FURNISHED PROPERTY OR SERVICES

BPA will not provide property or services.

A.6 RECIPIENT-FURNISHED PROPERTY OR SERVICES

The Recipient will provide all property and services in support of this grant.

A.7 DEFINITIONS

- “Authorized Expenditure” means permitted uses of the funds provided to the Recipient under this grant.
- “Base Load Measures” means all measures, such as compact fluorescent lights, refrigerators, and other like measures, other than those installed in order to weatherize a home or installed to make a home safe to inhabit or to ensure the efficacy of the weatherization measures.
- “BPA Utility Customer (BPA Customer)” means a cooperative or publicly owned electric utility which purchases firm or surplus firm power from the Bonneville Power.
- “Local Service Providers (LSP)” means providers of services directly to Eligible Low-income Participants and may include both Sub-Grantees, or subcontracting agencies and other non-profits often referred to as Community Action Partnerships (CAPs) or Community Action Agencies (CAAs).
- “Eligible Units” means all units that are served by a BPA Utility Customer and are otherwise eligible for weatherization services under the US DOE Weatherization Assistance Program for Low-income Persons, 10 CFR 440.3.
- “ENERGY STAR” is the registered name for a joint national energy efficiency program of the U.S. Environmental Protection Agency and the U.S. Department of Energy.
- “Fiscal Year (FY)” means the period beginning October 1 through September 30.
- “Local Service Providers (LSP)” means providers of services directly to Eligible Low-income Participants and may include both Sub-Grantees, or sub-contracting agencies and other non-profits often referred to as Community Action Partnerships (CAPs) or Community Action Agencies (CAAs).
- “NFRC” or “National Fenestration Rating Council” is a nonprofit organization that establishes objective window, door and skylight energy-performance ratings to help consumers compare products and make informed purchase decisions in multiple ways.
- “Performance Tested Comfort Systems” is a certification program for duct sealing and heat pump commissioning.
- “PTCS Commissioning, Controls and Sizing” refers to the PTCS installation procedures of commissioning an air source heat pump or a variable speed heat pump. It guides the proper sizing of the unit, the refrigerant charge, the control of auxiliary heat, thermostat and air flow to ensure that the system is installed to operate efficiently. Also refers to the PTCS Commissioning, Controls and Sizing

measure (CC&S), which includes heat pumps that meet federal minimum standards, but not the other remaining PTCS air source heat pump efficiency requirements. See [BPA's Residential HVAC page](#) for more information.

- “Qualified Products List” is a list of products, such as equipment and appliances that meet a specification for qualification.
- “Rate Period” means a period of time during which a specific set of rates established by BPA pursuant to a rate-case process are in effect (currently two-year periods).
- “RTF” or “Regional Technical Forum” is an advisory committee established in 1999 to develop standards to verify and evaluate energy conservation. Its committee members are experienced in conservation program planning, implementation and evaluation, and are appointed by the NWPC.
- “SIR” or “Savings-to-Investment Ratio” is a calculation to determine if the savings generated by the weatherization project compared to the cost of the project is cost effective and will pay for itself in savings. SIR is calculated by dividing the sum of a project’s discounted savings by its investment costs. For a project to be cost effective, weatherization programs generally require the SIR to be greater than 1. Other US DOE-approved methods for determining measure installation criteria can be accepted. See Appendix III Part B.1 for more information.
- “Sub-Grantee” means an entity managing a weatherization project which receives grant funding from the Grantee. The terms Recipient and Sub-recipient are more commonly used by BPA.
- “Thermostats – Smart” Thermostats that can be Wi-Fi enabled with remote access, have programmable and/or learning-based scheduling, and can detect occupancy resulting in automatic HVAC reduction when a space is unoccupied.
- “Weatherization Eligible Units” is defined in Part C, Low-Income Weatherization Deemed Measure Eligibility Table.

PART B – PROGRAM

B.1 FUNDING

- a. All funding is restricted to authorized expenditures as defined in 10 CFR 440 for the implementation of Low-Income weatherization related activities except as specifically authorized in this grant. Authorized expenditures include the cost of all cost effective measures. Cost effective measures are determined to be equal to or greater than 1.0 “savings-to-investment” ratio (SIR), or some other US DOE approved method for determining measure installation criteria. All SIR criteria apply only where an SIR is explicitly calculated. When calculating SIR, the utilization of actual utility rates, or EIA (Energy Information Administration) average utility rates are permitted. Other allowable “base load” measures as defined in this grant in Exhibit B, Parts C – F, are not required to pass the SIR cost effective test as described in 10 CFR 440.
- b. Recipient agrees to incur all authorized expenditures within each fiscal year.
- c. BPA will award funds incrementally each fiscal year of the performance period.
- d. Total administrative costs for the Recipient and Subrecipient shall not exceed 15 percent. Administrative costs shall be allocated according to the Indian Tribe’s procedures.
- e. Training and Technical assistance costs shall not exceed 15 percent.
- f. In order to receive weatherization related measures, HVAC equipment, and Heat Pump Water Heaters, the home must have electrical heat as the primary heating source. Base Load appliance measures may be installed in any Eligible Dwelling Unit with any primary heating source.
- g. All Eligible Dwelling Units may receive all other measures and services available in this grant.
- h. All residences, otherwise eligible, may receive BPA services regardless of any US DOE requirements which would restrict services to a residence due to the age of the residence or the length of time which must pass before a residence receives additional weatherization services, HVAC equipment, Heat

Pump Water Heaters, or appliances.

- i. BPA will not restrict the amount of funds to any residence otherwise eligible for weatherization measures or other services as long as work completed follows the terms of this program.
- j. Funds from a BPA Utility Customer, which were derived from BPA either from credits, power purchase contracts, or as Administrative support, shall not be used in combination with funds from the BPA Low-Income Energy Efficiency Program on individual measures, but may be co-mingled with any funds within a single dwelling receiving energy efficiency measures.
- k. Financial assistance provided under this grant will be used to supplement, and not supplant, State or local funds, and, to the maximum extent practicable as determined by BPA, to increase the amounts of these funds that would be made available in the absence of Federal/BPA funding.

B.2 ELIGIBILITY REQUIREMENTS

The following eligibility requirements apply to this grant:

a. Eligible Dwelling Unit (EDU)

An Eligible Dwelling Unit as defined by the US DOE Weatherization Assistance Program for Low-income Persons, 10 CFR 440.22.

b. Eligible Low-income Participant (ELP)

The Recipient shall establish income eligibility policies consistent with the tribe's existing policy or that of other federal or state agency funding programs, including, but not limited to, LIHEAP, NAHASDA, and the DOE Weatherization Assistance Program. Some of these policies vary by state. The tribe may follow the policies of any state eligible for the BPA program, which includes WA, OR, ID, MT, WY, NV, and CA. This policy shall be made easily accessible to the public and submitted with the application.

B.3 OPERATING PROCEDURES

- a. The Recipient shall require its subrecipients and any other Local Service Providers to follow specifications and procedures required in the US DOE Weatherization Assistance Program, 10 CFR 440, for Eligible Dwelling Unit receiving service under this program unless this grant requires a different specification and/or procedure.
- b. The Recipient shall establish policies and procedures to determine the cost effectiveness of measures for each dwelling using US DOE-approved computer audit tools.
- c. The Recipient shall make all reasonable efforts to coordinate program activities funded under this grant with BPA Utility Customers and with Tribal Governments where their customers/members may be Eligible Low-income Participants.

B.4 ENVIRONMENTAL - INDOOR AIR QUALITY

The Recipient shall maintain air quality in weatherized homes by conforming to the DOE WAP standards, and/or the American Society of Heating Refrigeration and Air-Condition Engineers (ASHRAE) standards or to applicable state or local code, whichever achieves the highest level of required ventilation.

When providing only energy education and/or baseload services, ASHRAE 62.2 Ventilation Standards are optional. However, any required moisture or mold assessment as defined in each Indian Tribe's individual contract should be honored, and if any moisture related air quality issues are found, ASHRAE 62.2 Ventilation Standards should be followed.

If levels of radon are tested and determined to be higher than the recommended levels established by the EPA, radon mitigation costs are allowable but must be included and limited to the allowable limit of health and safety costs.

B.5 FEDERAL STEWARDSHIP

BPA will exercise Federal stewardship in overseeing the work performed under this Award. Stewardship activities may include, but are not limited to: conducting site visits; reviewing performance and financial reports; providing technical assistance and/or temporary intervention in unusual circumstances to correct deficiencies which develop during the project; assuring compliance with terms and conditions; and reviewing technical performance after project completion to ensure that the award objectives have been accomplished. BPA may also rely upon the US DOE oversight of the State Weatherization Program.

B.6 REPORTING

The Recipient shall provide a report for documentation of results for all programs eligible under this grant to BPA for each quarter of each fiscal year covered by this grant. In addition, the Recipient shall provide one annual report to BPA at the conclusion of each fiscal year.

Each report shall detail the technical and/or spending accomplishments using the template provided by BPA. All reports shall identify the BPA Utility Customer associated with the Eligible Dwelling Unit and/or where the service was provided. Quarterly reports are due no later than 30 days from the end of each quarter. The annual report is due within 90 days of September 30 of each year.

EXHIBIT A - BONNEVILLE POWER ELIGIBLE UTILITY CUSTOMERS

Albion, City of	Farmers Elec Coop	Okanogan County PUD #1
Alder Mutual	Ferry County PUD #1	Orcas P & L
Ashland, City of	Flathead Elec Coop	Oregon Trail Coop
Asotin County PUD #1	Forest Grove, City of	Pacific County PUD #2
Bandon, City of	Franklin County PUD #1	Parkland L & W
Benton County PUD #1	Glacier Elec Coop	Pend Oreille County PUD #1
Benton REA	Grant County PUD #2	Peninsula Light Company
Big Bend Elec Coop	Grays Harbor PUD #1	Plummer, City of
Blachly Lane Elec Coop	Harney Elec Coop	Port Angeles, City of
Blaine, City of	Hermiston, City of	Port of Seattle - SETAC In'tl. Airport
Bonnors Ferry, City of	Heyburn, City of	Raft River Elec Coop
Burley, City of	Hood River Elec Coop	Ravalli County Elec Coop
Canby, City of	Idaho County L & P	Richland, City of
Cascade Locks, City of	Idaho Falls Power	Riverside Elec Coop
Central Electric Coop	Inland P & L	Rupert, City of
Central Lincoln PUD	Jefferson County PUD #1	Salem Elec Coop
Centralia, City of	Kalispel Tribal Utility	Salmon River Elec Coop
Cheney, City of	Kittitas County PUD #1	Seattle City Light
Chewelah, City of	Klickitat County PUD #1	Skamania County PUD #1

Clallam County PUD #1	Kootenai Electric Coop	Snohomish County PUD #1
Clark County PUD #1	Lakeview L & P (WA)	Soda Springs, City of
Clatskanie PUD	Lane County Elec Coop	Southside Elec Lines
Clearwater Power	Lewis County PUD #1	Springfield Utility Board
Columbia Basin Elec Coop	Lincoln Elec Coop (MT)	Steilacoom, Town of
Columbia Power Coop	Lost River Elec Coop	Sumas, Town of
Columbia REA	Lower Valley Energy	Surprise Valley Elec Coop
Columbia River PUD	Mason County PUD #1	Tacoma Public Utilities
Consolidated Irrigation District #19	Mason County PUD #3	Tanner Elec Coop
Consumers Power	McCleary, City of	Tillamook PUD #1
Coos Curry Elec Coop	McMinnville, City of	Troy, City of
Coulee Dam, City of	Midstate Elec Coop	Umatilla Elec Coop
Cowlitz County PUD #1	Milton, Town of	Umpqua Indian Utility Cooperative
Declo, City of	Milton-Freewater, City of	United Electric Coop
Douglas Electric Cooperative	Minidoka, City of	Vera Irrigation District
Drain, City of	Mission Valley	Vigilante Elec Coop
East End Mutual Electric	Missoula Elec Coop	Wahkiakum County PUD #1
Eatonville, City of	Modern Elec Coop	Wasco Elec Coop
Ellensburg, City of	Monmouth, City of	Weiser, City of
Elmhurst Mutual P & L	Nespelem Valley Elec Coop	Wells Rural Elec Coop
Emerald PUD	Northern Lights	West Oregon Elec Coop
Energy Northwest	Northern Wasco County PUD	Whatcom County PUD #1
Eugene Water & Electric Board	Ohop Mutual Light Company	Yakama Power
Fall River Elec Coop	Okanogan County Elec Coop	

EXHIBIT B - ADDITIONAL PROGRAM SPECIFICATIONS

The following specifications and procedures are in addition to those already noted in the Project Description. The following programs constitute authorized expenditures under this grant.

A. LOW-INCOME WEATHERIZATION

The specifications and procedures required in the US DOE Weatherization Assistance Program, 10 CFR Part 440, shall be adhered to for Eligible Dwelling Units treated under this program unless otherwise identified specifically within this Grant.

- a. Health and safety repairs are an authorized expenditure. The cost shall not exceed thirty percent (30%) per total dwelling cost on average.
- b. Local Service Providers may create a separate BPA waiting list rather than require the Weatherization applicant in BPA service territory to remain on any other waiting list.
- c. Eligible Dwelling Unit (EDU) may be weatherized regardless if the Eligible Low-income Participants or Eligible Dwelling Unit received weatherization program services in the past.
- d. Weatherization-related repairs are an authorized expenditure. The cost shall not exceed thirty percent (30%) per total dwelling cost on average.
- e. Repair or replacement of electrical heaters or furnaces, if they are no longer working, or fail to heat the dwelling properly, is an authorized expenditure. The repair or replacement of electric heaters or furnaces in Eligible Dwelling Unit must be accompanied by cost-effective weatherization measures to ensure maximum energy efficiency of the electricity used by the repaired or replaced heaters or furnaces.

B. BASELOAD APPLIANCES ALLOWED UNDER THIS GRANT

All measures in this section can be installed independent of the SIR calculation.

i. Refrigerator Replacements

- i) Energy Efficient Refrigerators (Refrigerators) are an authorized expenditure under this grant. This program shall be implemented consistent with the current DOE requirements for implementation of these same measures or any other protocol that is accepted by BPA.
- ii) The Recipient shall provide the necessary reports for this measure, if the Recipient participates, as specified below in Appendix III, Part B.6, "Reporting".
- iii) Authorized expenditures for the cost of the replacement refrigerator are 100% of the refrigerator cost.

ii. Clothes Washer Replacements

- i) ENERGY STAR-rated clothes washers may replace existing clothes washers if the existing clothes washer is not ENERGY STAR-rated.
- ii) All ENERGY STAR-rated clothes washers are deemed to be cost effective under this program.
- iii) The size and model of the appliance shall be standard, and reasonably priced. Clothes washer replacements must be supported by three quotes for the selected model.
- iv) The maximum reimbursement is \$800.

iii. Microwave Ovens

- i) A new microwave oven may be provided if:
 - a. electric cooking exists and there is no working microwave oven available, or
 - b. if the existing microwave oven is not functional. The existing nonfunctional microwave oven shall be removed and taken to a facility for recycling.

C. DEEMED LOW-INCOME ENERGY EFFICIENCY MEASURES

All measures in this section can be installed independent of the SIR calculation and can be reimbursed dollar-for-dollar up to any applicable installed measure cost payment limits listed in the Low-Income Deemed Measures Payment Table. All existing housing types (single-family, manufactured and multifamily) are eligible, although not all measures are applicable to each housing type. See the Low-Income Deemed Measures Table for available measures by housing type and payment information.

Low-income energy efficiency deemed measures include:

- Weatherization (insulation, prime windows and patio doors, Low-E storm windows, exterior insulated doors, whole house and prescriptive air sealing),
- HVAC (ductless and ducted heat pumps, PTCS and prescriptive duct sealing, duct insulation, and smart thermostats), and
- Heat Pump Water Heaters.

When a BPA-Qualified products list (QPL) applies to the measure, the technology must be on the BPA-Qualified products list to qualify for payment.

All weatherization measures must be installed and documented according to the specifications and requirements established by the Department of Energy's Weatherization Assistance Program (WAP).

i. Payment For Deemed Measures

BPA allows customers to report costs directly attributable to the installation of the measure as eligible for dollar-for-dollar payment (except as noted in the Low-Income Deemed Measures Payment, not to exceed 100 percent of the actual cost). This includes any cost incurred for meeting requirements and specifications (e.g., verification of income, attic and crawl space ventilation, removal of knob and tube wiring and underfloor moisture barriers).

Customers may also report costs related to repair work that is directly associated with the installation of the measure required for health and safety, or to ensure the efficacy of the measure (e.g., replace rotting wood in window frame, or repair a hole in the roof). Repair costs must be documented according to DOE WAP requirements.

Customers may combine funding sources within a residence, but may not combine funding from multiple BPA sources for the same measure.

ii. PTCS Duct Sealing or Prescriptive Duct Sealing

- i) Find more information on installation specifications on the [BPA Residential HVAC page here](#).

iii. PTCS Ducted Air Source Heat Pump Upgrade or Conversion

- i) Find more information on installation specifications on the [BPA Residential HVAC page here](#).
- ii) Equipment must be AHRI-rated with a minimum of 9.0 HSPF or 7.6 HSPF2 and 14 SEER or 13.4 SEER2.

iv. Ductless or Ducted Mini-Split Heat Pump(s) or Ductless Heat Pump (DHP) Upgrade

- i) Find more information on installation specifications on the [BPA Residential HVAC page here](#).
- ii) Heating seasonal performance factor (HSPF) must be rated with a minimum of **9.0 HSPF** or 7.6 HSPF2 by AHRI for a DHP conversion measure and a minimum **11.0 HSPF** or 10.4 HSPF2 by AHRI for a DHP upgrade measure.

v. Heat Pump Water Heaters: 40 Gallon and Tiers 1, 2, 3, and 4

- i) Find more information on installation specifications on the [BPA Residential Water Heating here](#).
- ii) Products must be on BPA's Heat Pump Water Heater Qualified Products List found in the [IM Document Library \(bpa.gov\)](#) or approved by the BPA Low-Income grant manager.

LOW-INCOME DEEMED MEASURES PAYMENT TABLE

All measures in this table can be installed independent of the SIR calculation.

HOME TYPE	LOW-INCOME QUALIFYING MEASURE	INSTALLED MEASURE COST PAYMENT: DOLLAR-FOR- DOLLAR (EXCEPT AS NOTED)	REPAIR COST PAYMENT: DOLLAR-FOR-DOLLAR (EXAMPLES PROVIDED)
Single-Family	Attic Insulation (up to R- 49)	Dollar-for-dollar	Examples include: repair roof leak, rebuild external entrance covering and fix hole in siding
	Floor Insulation (up to R- 30)	Dollar-for-dollar	
	Wall Insulation (up to R- 11)	Dollar-for-dollar	
	Prime Window	Dollar-for-dollar, not to exceed \$20/square foot	Examples include: address dry rot in window framing, replace rotten threshold and repair cracked header
	Low-E Storm Window	Dollar-for-dollar, not to exceed \$10/square foot	
	Patio Door	Dollar-for-dollar, not to exceed \$20/square foot	
	Exterior Insulated Door	Dollar-for-dollar, not to exceed \$400/door	
	Whole House Air Sealing	Dollar-for-dollar	Examples include: reframe attic access hatch and repair pull-down stairs
	Prescriptive Air Sealing	Dollar-for-dollar	
	PTCS or Prescriptive Duct Sealing	Dollar-for-dollar, not to exceed \$500	Examples include: replace rusted duct work and repair broken filter slot
	Ductless or Ducted Mini-Split Heat Pump(s) or Ductless Heat Pump Upgrade	Dollar-for-dollar, not to exceed \$4,400/DHP	Examples include: improve structural support for interior head
	PTCS Ducted Heat Pump Upgrade or Conversion	Dollar-for-dollar, not to exceed \$6,200	Examples include: repair to damaged siding at connection point
	Centrally Ducted Air Conditioners	Dollar-for-dollar, not to exceed \$3,800	Examples include: repair to damaged siding at connection point
	Duct Insulation	Dollar-for-dollar	Examples include: replace severely rusted, corroded, or disconnected ductwork
	40 Gallon Tank Size Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$1,850	Examples include: replacement of plumbing connections at water heater, relocating to ensure adequate ventilation
	Tier 1 Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$1,850	
	Tier 2 or 3 Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$2,000	
	Tier 4 Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$2,000	
	BPA Approved Contractor-Installed Smart Thermostat	Dollar-for-dollar, not to exceed \$400	No repair costs allowed for this measure

HOME TYPE	LOW-INCOME QUALIFYING MEASURE	INSTALLED MEASURE COST PAYMENT: DOLLAR-FOR- DOLLAR (EXCEPT AS NOTED)	REPAIR COST PAYMENT: DOLLAR-FOR-DOLLAR (EXAMPLES PROVIDED)
Multi-family Low-Rise	Attic Insulation (up to R- 49)	Dollar-for-dollar	Examples include: repair roof leak, rebuild external entrance covering and fix hole in siding
	Floor Insulation (up to R- 30)	Dollar-for-dollar	
	Wall Insulation (up to R- 19)	Dollar-for-dollar	
	Prime Window	Dollar-for-dollar, not to exceed \$20/square foot	Examples include: address dry rot in window framing, replace rotten threshold and repair cracked header
	Low-E Storm Window	Dollar-for-dollar, not to exceed \$10/ square foot	
	Patio Door	Dollar-for-dollar, not to exceed \$20/square foot	
	Exterior Insulated Door	Dollar-for-dollar, not to exceed \$400/door	
	Ductless or Ducted Mini-Split Heat Pump Conversion or Ductless Heat Pump Upgrade	Dollar-for-dollar, not to exceed \$4,400/DHP	Examples include improve structural support for interior head
	40 Gallon Tank Size Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$1,850	Examples include: replacement of plumbing connections at water heater, relocating to ensure adequate ventilation
	Tier 1 Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$1,850	
	Tier 2 or 3 Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$2,000	
	Tier 4 Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$2,000	
	BPA Approved Contractor-Installed Smart Thermostat	Dollar-for-dollar, not to exceed \$400	No repair costs allowed for this measure
Multifamily Mid/High-Rise	Attic Insulation (up to R- 49)	Dollar-for-dollar	Examples include: repair roof leak, rebuild external entrance covering and fix hole in siding
	Wall Insulation (up to R- 19)	Dollar-for-dollar	
	Prime Window	Dollar-for-dollar, not to exceed \$20/square foot	Examples include: address dry rot in window framing, replace rotten threshold and repair cracked header
	Patio Door	Dollar-for-dollar, not to exceed \$20/square foot	
	Ductless or Ducted Mini-Split Heat Pump(s) or Ductless Heat Pump Upgrade	Dollar-for-dollar, not to exceed \$4,400/DHP	Examples include improve structural support for interior head
	40 Gallon Tank Size Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$1,850	Examples include: Replacement of plumbing connections at water heater, relocating to ensure adequate ventilation
	Tier 1 Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$1,850	
	Tier 2 or 3 Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$2,000	Examples include: Replacement of plumbing connections at water heater, relocating to ensure adequate ventilation
	Tier 4 Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$2,000	
	BPA Approved Contractor-Installed Smart Thermostat	Dollar-for-dollar, not to exceed \$400	No repair costs allowed for this measure

HOME TYPE	LOW-INCOME QUALIFYING MEASURE	INSTALLED MEASURE COST PAYMENT: DOLLAR-FOR- DOLLAR (EXCEPT AS NOTED)	REPAIR COST PAYMENT: DOLLAR-FOR-DOLLAR (EXAMPLES PROVIDED)
Manufactured	Attic Insulation (up to R-30)	Dollar-for-dollar	Examples include: repair roof leak, rebuild external entrance covering
	Floor Insulation (up to R-22)	Dollar-for-dollar	
	Prime Window	Dollar-for-dollar, not to exceed \$20/square foot	Examples include: address dry rot in window framing, replace rotten threshold and repair cracked header
	Low-E Storm Window	Dollar-for-dollar, not to exceed \$10/square foot	
	Patio Door	Dollar-for-dollar, not to exceed \$20/square foot	
	Exterior Insulated Door	Dollar-for-dollar, not to exceed \$400/door	
	Whole House Air Sealing	Dollar-for-dollar	Examples include: install whole house ventilation fan.
	PTCS or Prescriptive Duct Sealing	Dollar-for-dollar, not to exceed \$500	Examples include: replace rusted ductwork and repair broken filter slot.
	Ductless or Ducted Mini-Split Heat Pump Conversion or Ductless Heat Pump Upgrade	Dollar-for-dollar, not to exceed \$4,400/DHP	Examples include improve structural support for interior head.
	PTCS Ducted Heat Pump Upgrade or Conversion	Dollar-for-dollar, not to exceed \$6,200	Examples include: repair to damaged siding at connection point.
	Centrally Ducted Air Conditioners	Dollar-for-dollar, not to exceed \$3,800	Examples include: repair to damaged siding at connection point
	40 Gallon Tank Size Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$1,850	Examples include: replacement of plumbing connections at water heater.
	Tier 1 Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$1,850	
	Tier 2 or 3 Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$2,000	
	Tier 4 Unitary Heat Pump Water Heater	Dollar-for-dollar, not to exceed \$2,000	
BPA Approved Contractor-Installed Smart Thermostat	Dollar-for-dollar, not to exceed \$400	No repair costs allowed for this measure	

LOW-INCOME DEEMED WEATHERIZATION MEASURE ELIGIBILITY TABLE

Primary Residential Heating System	Home Type				
	Single Family: Existing	Single Family: New	Manufactured: Existing*	Manufactured New	Multifamily: Existing*
Electric Forced-Air Furnace	Eligible	Not eligible	Eligible	Not eligible	Eligible
Ducted Heat Pump	Eligible		Eligible		Eligible
Ductless Mini-Split Heat Pump	Eligible		Eligible		Eligible
Zonal (Electric)	Eligible		Eligible		Eligible
Wood Stove or Pellet	Eligible when accompanied by any electric heating system.		Eligible when accompanied by any electric heating system		Eligible when accompanied by any electric heating system
Oil/Gas/Propane	Eligible as supplementary heat for a heat pump system.		Eligible as supplementary heat for a heat pump system.		Eligible as supplementary heat for a heat pump system.
	Eligible if accompanied by an electric heat system, decommission nonelectric system		Eligible if accompanied by an electric heat system, decommission nonelectric system		Eligible if accompanied by an electric heat system, decommission nonelectric system
None existing	Not eligible		Not eligible		Not eligible

*Note: Not all weatherization measures are available in manufactured homes and/or both low-rise and mid/high-rise multifamily housing. Refer to individual measure sections for more detail.

Weatherization measures in this section include insulation, prime window and patio door replacements, Low-E storm windows, exterior insulated doors, and whole house and prescriptive air sealing.

All weatherization measures in single-family and manufactured homes must be installed according to DOE WAP requirements [found here](#). Refer to individual measures to confirm which are eligible for existing single family, manufactured, and multifamily low, mid, and high-rise buildings.

Home Heating System Eligibility for Low-Income Deemed Weatherization Measures

For low-income deemed weatherization measures, an electric heating system includes an air source heat pump, ground source heat pump, electric forced-air furnace, ductless or ducted mini-split heat pump, zonal electric-resistance heat or plug-in space heaters.

For a home to be eligible for weatherization measures, it must be heated with either a primary electric heating system (serving 50% or more of the conditioned living area of a residence) or must have one of the following as an existing heating system:

- A permanently installed electric heating system with either a wood stove, pellet stove, fireplace, fireplace insert (wood or pellet) or wood furnace.
- A wood or pellet stove without any other nonelectric space heating system, accompanied by the current usage of plug-in electric space heaters.
- An electric heat pump system integrated with a nonelectric heating system (e.g., natural gas, propane or wood supplementary/backup system).
- An electric heat system with a separate and entirely decommissioned nonelectric space heating system (i.e., oil, natural gas or propane furnace). The entire functional or nonfunctional nonelectric space heating system must be decommissioned:
 - All nonelectric system equipment removed, all penetrations sealed, and all fuel (electric, gas or oil) connections to the decommissioned heating system disconnected. System equipment includes the furnace, air-handler, fuel lines and fuel tanks (abated in compliance with local code).
 - If construction limits prevents removal of the entire nonelectric system (or other portions of the space heating equipment), then the remainder of the system must be decommissioned, removed, all penetrations sealed, and all fuel (electric, gas, or oil) connections to the decommissioned heating system disconnected.

ADDITIONAL DEEMED MEASURE SPECIFIC INFORMATION

1) Insulation

a) Basis for Energy Savings

Attic, wall and floor insulation can improve the thermal performance of an existing home. If properly installed, insulation will help maintain more constant and comfortable temperatures while preventing build-up of moisture and condensation. Always insulate to the maximum level possible to meet an ending minimum insulation R-value. Consider pairing with air sealing when possible to achieve maximum savings. More information about the basis for savings can be found on the RTF's UES Measures [webpage](#).

b) Requirements and Specifications

Insulation measures in single-family and manufactured homes must be installed according to the DOE WAP requirements [found here](#). Some insulation measures are also available in multifamily low, mid, and high-rise buildings.

- i) Pre-Conditions: See "Observed Existing Insulation Range" in the Insulation Requirements table.
- ii) Post-Conditions: See "Measure Ending R-Value" in the Insulation Requirements table.
 - a. Final installed R-values for a reportable measure must meet the required final R-value at a minimum. However, if a physical barrier prevents the full depth of insulation from being installed, then the R-value shall meet the maximum achievable within the available space.

Insulation Requirements Table

Home Type	Insulation	Observed Existing Insulation Range	Measure Starting R- Value	Measure Ending R- Value
Single-Family	Attic	R-0 to R-7	R-0	R-38 or R-49
		R-8 to R-11	R-11	R-38 or R-49
		R-12 to R-19	R-19	R-38 or R-49
		R-20 to R-30	R-30	R-38 or R-49
	Floor	R-0 to R-11*	R-0	R-19, R-25, or R-30
		R-12* to R-19	R-19	R-30
Wall	No insulation present	R-0	R-11	
Manufactured Home	Attic	R-0 to R-7	R-0	R-22 or maximum possible
		R-0 to R-11	R-0	R-30 or maximum possible
		R-12 to R-17	R-11	R-30 or maximum possible
	Floor	R-0 to R-7	R-0	R-22 or maximum possible
		R-8 to R-11	R-11	R-22 or maximum possible
Multifamily Low-Rise	Attic	R-0 to R-11*	R-0	R-19, R-38, or R-49
		R-12* to R-19	R-19	R-38 or R-49
		R-20 to R-38	R-38	R-49
	Floor	R-0 to R-11*	R-0	R-19 or R-30
		R-12* to R-19	R-19	R-30
	Wall	No insulation present	R-0	R-11
Multifamily Mid/High-Rise	Attic	R-0 to R-5	R-0	R-19
		R-0 to R-5	R-0	R-49
	Wall	R-0 to R-5	R-0	R-11
		R-0 to R-5	R-0	R-19

* Precondition definitions were modified for consistency across building types, where possible.

2) Prime Window and Patio Door Replacement

a) Basis for Energy Savings

Upgrading to windows and patio doors with insulated, Low-E glass is recommended when home occupants experience high energy bills, problems with window operation, noticeable leakage and/or damaged and decayed frame(s), and/or condensation. Savings come from replacing existing single-pane windows or patio doors with any frame type, or replacing double-pane windows or patio doors with a metal frame. Patio doors include sliding or French glass doors. The BPA documentation requirements are also below. More detailed information is available on the RTF's UES Measures [webpage](#).

b) Requirements and Specifications

Window and patio door measures in single-family and manufactured homes must be installed according to the DOE WAP requirements [found here](#). This measure is also available in multifamily mid and high-rise buildings.

- i) Pre-Conditions: Pre-existing windows and patio doors must be: (1) single-pane with/without storms, any frame type (e.g., metal, wood or vinyl) or (2) double-pane, metal frame only.
- ii) Post-Conditions: The weighted average of replacement windows must have a National Fenestration Rating Council (NFRC) minimum U-value of 0.30 or 0.22 for windows, and 0.35 or 0.30 for patio doors.

3) Low-E Storm Windows

a) Basis for Energy Savings

A Storm Window is an additional window placed on the exterior or interior of an existing framed window to provide an additional barrier from outdoor elements. A window with Low-E coating reduces heat loss when it is cold and Low-E coatings with a low solar transmittance, or TSOL, can block excessive solar heat during summer months. BPA offers a measure for installing Low-E storm windows on single-pane windows with any frame type, or a double-pane windows with a metal frame without existing storm windows. More detailed information is available on the RTF's UES Measures [webpage](#).

b) Requirements and Specifications

This measure is not available for mid/high-rise multifamily buildings. It is available for existing single family, manufactured, and multifamily low-rise buildings.

- i) Pre-Conditions: Pre-existing windows must be either:
 - 1) Single-pane, any frame type (e.g., metal, wood or vinyl) without existing storm windows; **or**
 - 2) Double-pane, metal frame only without existing storm windows.
- ii) Post-Conditions:
 - a. The new Low-E storm window must be an [ENERGY STAR certified product](#).
 - b. The Low-E storm window must have the same opening type as the existing prime window (i.e., single/double hung, casement, slider, etc.) to facilitate summertime ventilation and egress.
 - c. If installed with an existing metal frame window, the storm window frame must not be in direct contact with the metal frame (attach using framing lumber or furring strips).
 - d. The Low-E storm window must be installed per manufacturer's specification, fastened by screws, not designed for seasonal removal, and with the Low-E coating facing toward the home's interior.

- c) **Note**: Installing Low-E storm windows with windows of the same opening type can be difficult when the prime window is a casement or awning style. For these prime window types, installation of a new prime window may be preferable over the addition of a Low-E storm window.

4) Exterior Insulated Doors

a) Basis for Energy Savings

New exterior insulated doors are solid doors, which may contain windows, and are not full light glass doors such as patio sliders. The base case for eligibility is a substandard exterior door, including one without insulating material or where the weather stripping has degraded by at least 50%. More detailed information is available on the RTF's UES Measures [webpage](#).

b) Requirements and Specifications

This measure is not available for multifamily mid/high-rise. It is available for existing single family, manufactured, and multifamily low-rise buildings.

- i) Pre-Condition: An uninsulated or otherwise thermally substandard exterior door.
- ii) Post-Condition: The door must be a pre-hung door with threshold. The door must either be ENERGY STAR Qualified or be NFRC-rated and meet the U-factor and solar heat gain coefficient requirements listed in the table below based on glazing levels.
 - a. The glazing level refers to the distinction of whether the replacement door is $\leq \frac{1}{2}$ -Lite, which refers to the proportion of the door that is taken up by a window.
 - b. BPA will accept pre-existing models that were ENERGY STAR-Qualified at the time they were manufactured even if the ENERGY STAR specifications change.
 - c. If the door is not ENERGY STAR Qualified or NFRC-rated, or the ENERGY STAR list is not accessible, grantees may comply by documenting that the door meets [ENERGY STAR specifications](#):

EXTERIOR INSULATED DOORS		
Glazing Level	U-Factor	Solar Heat Gain Coefficient
Opaque	≤ 0.17	No Rating
$\leq \frac{1}{2}$ -Lite	≤ 0.25	≤ 0.25
$>\frac{1}{2}$ -Lite	≤ 0.30	≤ 0.40

5) Whole House Air Sealing and Testing

a) Basis for Energy Savings

Whole House Air Sealing and Testing is an incremental reduction in air infiltration of a home, measured by a blower door test. Air Sealing improves the thermal performance, indoor air quality, and longevity of the building. More detailed information is available on the RTF's UES Measures [webpage](#).

b) Requirements and Specifications

This measure is not available in low, mid, or high-rise multifamily homes. It is available for existing single family and manufactured homes.

- i) Must be performed according to the DOE WAP requirements [found here](#).
- ii) Whole house air sealing requires the use of a blower door to measure and identify air leakage locations in the home. Mechanical ventilation may be required.
- iii) If Performance Tested Comfort System (PTCS) duct sealing is performed at the same time as air sealing, the baseline blower door CFM50 reading for the whole house air sealing and testing measure

must be taken with all the supply and return duct registers temporarily sealed off, so that house air leakage can be measured independently from duct leakage.

- iv) If combustion appliances are present (e.g., fireplace, wood or gas stove, gas range, gas water heater), a UL- or CUL-approved carbon monoxide detector must be present or be installed. See the DOE WAP requirements [found here](#) for other unique safety precautions when air sealing.

6) Prescriptive Air Sealing

a) Basis for Energy Savings

Prescriptive Air Sealing is an incremental reduction in air infiltration of a home's attic or crawlspace. Air Sealing improves the thermal performance, indoor air quality, and longevity of the building. More detailed information is available on the RTF's UES Measures [webpage](#).

b) Requirements and Specifications

This measure is not available for low, mid, or high-rise multifamily or manufactured homes.

- i) Must be performed according to the BPA Residential Weatherization Specifications & Best Practices Guide in the [IM Document Library](#).
- ii) If combustion appliances are present (e.g. fireplace, wood or gas stove, gas range, gas water heater), a UL- or CUL-approved carbon monoxide detector must be present or be installed. See the BPA Residential Weatherization Specifications & Best Practices Guide in the [IM Document Library](#) for other unique safety precautions when air sealing.

D. LOW-INCOME ENERGY EFFICIENCY EDUCATION

- a. The scope of the Low-income Weatherization Program shall be expanded to include certain electrical measures beyond those related to heating loads. These additional measures shall be those contained under the Energy Efficiency Education program described below.
- b. The Recipient may provide Low-income Energy Efficiency Education to clients consistent with the program approved by US DOE for this endeavor.
 - i) The Recipient can spend up to 20 percent of the funds available through this grant to pay for Low-income Energy Efficiency Education.
 - ii) The Recipient shall provide the Eligible Low-income Participants with written information which informs them that the program is funded by BPA.
 - iii) The Recipient shall obtain signed documentation from the head of household for each visit (should a visit occur) verifying that the education occurred.

E. EFFICIENT LIGHTING

- a. LEDs-Solid state lighting, also known as light emitting diodes (LED) bulbs, must be ENERGY STAR qualified or listed on the Lighting Design Lab (LDL) Qualified LED Lamp List as integral omnidirectional, directional or decorative.

F. REPLACEMENT OF PRE-1976 MANUFACTURED HOME WITH NEW NORTHWEST ENERGY EFFICIENT MANUFACTURED HOUSING (NEEM) CERTIFIED HOME

a. Requirements and Specifications

- i) A full audit of the house must be conducted, and calculated expenses to weatherize the house must meet or exceed \$7,500 (including any approved healthy and safety or repair expenses).
- ii) Existing manufactured homes must have been built prior to 1976, be electrically heated, and be occupied as a residence. The existing pre-1976 home must be decommissioned and disposed of and cannot be used as a dwelling unit once the new NEEM home is sited.
- iii) Replacement manufactured homes must be electrically heated, new, and certified by the Northwest Energy Efficient Manufactured Housing (NEEM) program as a New NEEM 1.1 or 2.0 Home.
- iv) NEEM has an online tracking and certification system operated by Northwest Energy Works. Contact Northwest Energy Works (888) 370-3277, ext. 102 for current information.
- v) Subcontractors may replace Pre-1976 Manufactured Homes with a new NEEM Certified Home themselves, or through a third-party, but must retain responsibility for compliance with measure requirements.
- vi) Customers must utilize the BPA Manufactured Home Replacement Documentation Form found in the [IM Document Library](#) to document the pre-and post-condition and related cost data for this measure, and maintain the Project Information Form in the customer file.

b. Documentation Requirements

- i) End-user identifying information including unique site ID and address.
- ii) NEEM 1.0 or 2.0 certificate of compliance.
- iii) Completed BPA Manufactured Home Replacement Documentation Form found in the [IM Document Library](#), which documents project information that the original home was constructed prior to 1976 and that the original manufactured home was decommissioned.

c. Payment

- i) BPA will pay up to \$7,500 for replacement of a pre-1976 manufactured home with a new NEEM Certified Home on a per-replacement home basis. This amount is based on the cost-per-house limit set annually through the [DOE WAP program](#).
- ii) Customers may claim high efficiency heating and thermostat measures in addition to this measure, but may not claim residential UES measures or BPA grant measures that could be found within [the NEEM 1.1 or NEEM 2.0 specifications](#).