

BUDGET INFORMATION - Non-Construction Programs

1. Program/Project Identification No. EE0009976		2. Program/Project Title Weatherization Assistance Program: Bipartisan Infrastructure Law	
3. Name and Address STATE OF COLORADO Governor's Energy Office 1600 BROADWAY SUITE 1960 DENVER, CO 802020000		4. Program/Project Start Date 07/01/2022	5. Completion Date 06/30/2027

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Federal	81.042	\$ 0.00		\$ 50,064,163.00		\$ 50,064,163.00
2.						
3.						
4.						
5. TOTAL		\$ 0.00	\$ 0.00	\$ 50,064,163.00	\$ 0.00	\$ 50,064,163.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) GRANTEE ADMINISTRATI ON	(2) SUBGRANTEE ADMINISTRATI ON	(3) GRANTEE T&TA	(4) SUBGRANTEE T&TA	
a. Personnel	\$ 537,790.00	\$ 0.00	\$ 2,003,930.00	\$ 0.00	\$ 2,541,720.00
b. Fringe Benefits	\$ 209,858.00	\$ 0.00	\$ 780,757.00	\$ 0.00	\$ 990,615.00
c. Travel	\$ 157,030.00	\$ 0.00	\$ 584,720.00	\$ 0.00	\$ 741,750.00
d. Equipment	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
e. Supplies	\$ 111,542.00	\$ 0.00	\$ 415,453.00	\$ 0.00	\$ 526,995.00
f. Contract	\$ 0.00	\$ 6,082,790.00	\$ 0.00	\$ 4,382,968.00	\$ 44,254,323.00
g. Construction	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
h. Other Direct Costs	\$ 160,610.00	\$ 0.00	\$ 598,150.00	\$ 0.00	\$ 758,760.00
i. Total Direct Charges	\$ 1,176,830.00	\$ 6,082,790.00	\$ 4,383,010.00	\$ 4,382,968.00	\$ 49,814,163.00
j. Indirect Costs	\$ 250,000.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 250,000.00
k. Totals	\$ 1,426,830.00	\$ 6,082,790.00	\$ 4,383,010.00	\$ 4,382,968.00	\$ 50,064,163.00
7. Program Income	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

BUDGET INFORMATION - Non-Construction Programs

1. Program/Project Identification No. EE0009976		2. Program/Project Title Weatherization Assistance Program: Bipartisan Infrastructure Law	
3. Name and Address STATE OF COLORADO Governor's Energy Office 1600 BROADWAY SUITE 1960 DENVER, CO 802020000		4. Program/Project Start Date 07/01/2022	5. Completion Date 06/30/2027

SECTION A - BUDGET SUMMARY						
Grant Program Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1.						
2.						
3.						
4.						
5. TOTAL		\$ 0.00	\$ 0.00	\$ 50,064,163.00	\$ 0.00	\$ 50,064,163.00

SECTION B - BUDGET CATEGORIES					
6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) PROGRAM OPERATIONS	(2) HEALTH AND SAFETY	(3) LIABILITY INSURANCE	(4) LEVERAGING	
a. Personnel	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2,541,720.00
b. Fringe Benefits	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 990,615.00
c. Travel	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 741,750.00
d. Equipment	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
e. Supplies	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 526,995.00
f. Contract	\$ 28,748,595.00	\$ 4,312,290.00	\$ 549,750.00	\$ 0.00	\$ 44,254,323.00
g. Construction	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
h. Other Direct Costs	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 758,760.00
i. Total Direct Charges	\$ 28,748,595.00	\$ 4,312,290.00	\$ 549,750.00	\$ 0.00	\$ 49,814,163.00
j. Indirect Costs	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 250,000.00
k. Totals	\$ 28,748,595.00	\$ 4,312,290.00	\$ 549,750.00	\$ 0.00	\$ 50,064,163.00
7. Program Income	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

BUDGET INFORMATION - Non-Construction Programs

1. Program/Project Identification No. EE0009976		2. Program/Project Title Weatherization Assistance Program: Bipartisan Infrastructure Law	
3. Name and Address STATE OF COLORADO Governor's Energy Office 1600 BROADWAY SUITE 1960 DENVER, CO 802020000	4. Program/Project Start Date		07/01/2022
	5. Completion Date		06/30/2027

SECTION A - BUDGET SUMMARY						
Grant Program Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1.						
2.						
3.						
4.						
5. TOTAL		\$ 0.00	\$ 0.00	\$ 50,064,163.00	\$ 0.00	\$ 50,064,163.00

SECTION B - BUDGET CATEGORIES					
6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) FINANCIAL AUDITS	(2)	(3)	(4)	
a. Personnel	\$ 0.00				\$ 2,541,720.00
b. Fringe Benefits	\$ 0.00				\$ 990,615.00
c. Travel	\$ 0.00				\$ 741,750.00
d. Equipment	\$ 0.00				\$ 0.00
e. Supplies	\$ 0.00				\$ 526,995.00
f. Contract	\$ 177,930.00				\$ 44,254,323.00
g. Construction	\$ 0.00				\$ 0.00
h. Other Direct Costs	\$ 0.00				\$ 758,760.00
i. Total Direct Charges	\$ 177,930.00				\$ 49,814,163.00
j. Indirect Costs	\$ 0.00				\$ 250,000.00
k. Totals	\$ 177,930.00				\$ 50,064,163.00
7. Program Income	\$ 0.00				\$ 0.00

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
WEATHERIZATION ANNUAL FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

IV.1 Subgrantees

Subgrantee (City)	Planned Funds/Units
Arapahoe County (Aurora)	\$3,089,881.00 525
Energy Resource Center (Colorado Springs)	\$25,633,740.00 2,168
Housing Resources of Western Colorado (Grand Junction)	\$6,749,782.00 412
Northwest Colorado Council of Governments (Silverthorne)	\$4,796,672.00 284
Pueblo County (Pueblo)	\$3,984,248.00 293
Total:	\$44,254,323.00 3,682

IV.2 WAP Production Schedule

Weatherization Plans		Units
Total Units (excluding reweatherized)		3,589
Reweatherized Units		93
Average Unit Costs, Units subject to DOE Project Rules		
VEHICLE & EQUIPMENT AVERAGE COST PER DWELLING UNIT (DOE RULES)		
A	Total Vehicles & Equipment (\$5,000 or more) Budget	\$0.00
B	Total Units Weatherized	3,589
C	Total Units Reweatherized	93
D	Total Dwelling Units to be Weatherized and Reweatherized (B + C)	3,682
E	Average Vehicles & Equipment Acquisition Cost per Unit (A divided by D)	\$0.00
AVERAGE COST PER DWELLING UNIT (DOE RULES)		
F	Total Funds for Program Operations	\$28,748,595.00
G	Total Dwelling Units to be Weatherized and Reweatherized (from line D)	3,682
H	Average Program Operations Costs per Unit (F divided by G)	\$7,807.87
I	Average Vehicles & Equipment Acquisition Cost per Unit (from line E)	\$0.00
J	Total Average Cost per Dwelling (H plus I)	\$7,807.87

IV.3 Energy Savings

Method used to calculate savings: <input type="checkbox"/> WAP algorithm <input checked="" type="checkbox"/> Other (describe below)				
		Units	Savings Calculator (MBtus)	Energy Savings
	This Year Estimate	3682	N/A	107500 *
	Prior Year Estimate	618	N/A	11708 *
	Prior Year Actual	945	N/A	0 *
* Energy Savings values were manually entered.				
Method used to calculate savings description:				

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
WEATHERIZATION ANNUAL FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

The Colorado Weatherization Assistance Program calculated its energy savings based on a combination of measured results and assumed savings.

Home heating savings were determined via a study using pre and post weatherization utility data from client homes; average home energy savings from heating were found to be 33.5 MMBtus per year. This savings is further subdivided into home heating type to determine the amount of fuel and money saved for heating with natural gas, electricity, propane, and other fuel sources. Additionally, non-heating electric savings were estimated based on LED, refrigerator, and air conditioning energy savings. Total non-heating electric energy savings were determined to be 5.5 MMBtus per year.

The combination of multi-fuel heating energy savings and non-heating electricity savings were combined to determine an average annual energy savings of 38.95 MMBtus per home per year. This yields an average cost savings of \$542.10 per year. For the 552 homes that will be weatherized during the first Program Year using BIL funds, the estimated annual energy savings are 21,500 MMBtus, yielding a cost savings of \$299,239 per year.

IV.4 DOE-Funded Leveraging Activities

As with the Formula DOE Funds, CEO WAP has chosen to use other (non-DOE) funds for leveraging activities for Program Years 22-26.

IV.5 Policy Advisory Council Members

Check if an existing state council or commission serves in this category and add name below

Arapahoe County	Type of organization: Unit of Local Government Contact Name: Regina Bosma Phone: 3036361982 Email: rbosma@arapahoe.gov
City of Aurora	Type of organization: Utility Contact Name: Elizabeth Gillitzer-Gallardo Phone: 3037397456 Email: egallard@auroragov.org
Colorado Commission on Low income energy and water assistance	Type of organization: Unit of Local Government Contact Name: Luke Ilderton Phone: 3032265059 Email: lilderton@energyoutreach.org
Energy Outreach Colorado	Type of organization: Non-profit (not a financial institution) Contact Name: Luke Ilderton Phone: 3032265059 Email: lilderton@energyoutreach.org
San Isabel Electric Association	Type of organization: Utility Contact Name: Laura Getts Phone: 7196476204 Email: aura.getts@siea.com
State of Colorado	Type of organization: Unit of State Government Contact Name: Michelle Butler Phone: 7208130254 Email: michelle.butler@state.co.us
State of Colorado	Type of organization: Unit of State Government Contact Name: Theresa Kullen Phone: 7207888050 Email: theresa.kullen@state.co.us
Xcel Energy	Type of organization: Utility Contact Name: Andrew Hawkins Phone: 6512533369 Email: andrew.r.hawkins@xcelenergy.com

IV.6 State Plan Hearings (Note: attach notes and transcripts to the SF-424)

Date Held	Newspapers that publicized the hearings and the dates the notice ran
-----------	--

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
WEATHERIZATION ANNUAL FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

08/31/2022	Newspapers that published the hearings and the date the public notice ran: Denver Post on 8/19/2022
------------	---

IV.7 Miscellaneous

Board Member	Contact	Organization	Contact Number	Type
Luke Ilderton (Chair)	lilderton@energyoutreach.org	Energy Outreach Colorado	303.226.5059	Non-profit organization
Andrew Hawkins (Vice-Chair)	andrew.r.hawkins@xcelenergy.com	Xcel Energy	651.253.3369	Electric and natural gas utility
Theresa Kullen	theresa.kullen@state.co.us	Colorado Low Income Home Energy Assistance Program	720.788.8050	Department of Human Services
Elizabeth Gillitzer-Gallardo	egallard@auroragov.org	Aurora Water	303.739.7456	Water utility
Laura Getts	laura.getts@siea.com	San Isabel Electric Association	719.647.6204	Electric utility
Regina Bosma	rbosma@arapahoegov.com	Arapahoe County Weatherization Division (subgrantee)	303.636.1982	Local government entity that serves low-income communities
Michelle Butler	michelle.butler@state.co.us	CEO WAP (grantee)	720.813.0254	State Government office that administers WAP in Colorado

*To the extent possible, CEO's PAC members advocate for and provide a broad representation of under-served, at-risk, and low-income populations such as but not limited to: homes with high energy burdens, children, elderly persons, persons with disabilities, and Indigenous Americans. CEO WAP certifies that its Policy Advisory Council, the Commission on Low-Income Energy and Water Assistance, is an independent review entity for CEO WAP. In accordance with 10 CFR 440.17, the requirements for review were complied with in that any person(s) employed in any Grantee Weatherization Program can be a member of an existing commission or council, but must abstain in reviewing and approving the activities associated with the DOE WAP. As outlined by these requirements, Regina Bosma, a subgrantee staff member participated in the BIL Plan review process, and Michelle Butler, a grantee staff member, recused herself from participation.

In accordance with 2 CFR 200.425(a)(2), Only those Subgrantees expending \$750,000 or more in Total Federal Funding (Federal Awards) will receive "FINANCIAL AUDITS" funds identified in CEO's SF-424a Budget.

Business Officer: Stephanie Insinna-Sahondo, stephanie.insinna-sahondo@state.co.us, 720.384-4220

Principal Investigator: Elizabeth Jaenicke, elizabeth.jaenicke@state.co.us, 303.335.5119

Davis Bacon Act Compliance

As CEO WAP will not utilize BIL Funds on multifamily units, Davis Bacon Act compliance will not be required.

Buy American Provisions

Buy American Provisions will be in place for any funds used on public buildings, as required. Buy American Provisions responsibilities and requirements, including a new—permanent—Buy American domestic preference requirement for all iron, steel, manufactured products, and construction materials used in certain financial assistance projects will be honored.

Fuel Switching

Any fuel switching to be completed with BIL Funds will be done with the written approval by the DOE on a case-by-case basis. Fuel switching does align with our CEO WAP goals of working on Beneficial Electrification.

IT: CEO WAP utilizes Google Drive and a Salesforce database to meet the needs of the CEO WAP network for sharing information, data collection, reporting, and evaluation measurement and verification. Salesforce is used for quality assurance inspection and utility rebate contributions processes, as well as tracking of production targets by month and county, and general reporting needs.

Grantee Staff July 1, 2022:

Management: 4 (Ryan Harry, Stephanie Insinna-Sahondo, Andy Cordova, Randi Nusser)

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
WEATHERIZATION ANNUAL FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

Quality Assurance: 2 (Jacob Wolff, Zac Stewart 0.5, Specialist 0.5)

Administrative: 6 (Elizabeth Jaenicke, Amy Miller, Barbara Pazos Almada, Libby Lenox, Michelle Butler, Communications Associate)

T&TA: 1 (Zac Stewart 0.5, Specialist 0.5)

Total: 13

Grantee Workforce Forecast for Grant Period:

Management: 4 (Stephanie Insinna-Sahondo, Andy Cordova, Michelle Butler, & Associate Director)

Quality Assurance: 2.75 (Jacob Wolff 0.75, Zac Stewart 0.5, Mick McHone 0.5, Quality Specialist 1.0)

Administrative: 9 (Elizabeth Jaenicke, Amy Miller, Barbara Pazos Almada, Libby Lenox, Randi Nusser, Sarah Burns, Erin Edwards, Contracts Associate, & Engagement Associate)

T&TA: 1.25 (Jacob Wolff 0.25, Zac Stewart 0.5, Mick McHone 0.5)

Total: 17

Subgrantee Staff July 1, 2022:

Management: 19 (leadership & directors)

Office Support Staff: 33

Field Supervisors: 15

Auditors/Inspectors: 17

Field Technicians: 114

Total: 198

Subgrantee Staff Forecast for Grant Period:

Management: 22 (leadership & directors)

Office Support Staff: 33

Field Supervisors: 20

Auditors/Inspectors: 19

Field Technicians: 120

Total: 214

In addition to the workforce needs captured above that represent direct hires of CEO WAP, subgrantees will continue to utilize subcontractors when a need is identified. The above figures include employees that are at least partially funded by the DOE grant. Estimated workforce growth has been indicated.

Personnel Time not adding up to 100% explanation: WAP staff do not spend 100% of their time on DOE work; they also provide services related to LIHEAP and state goals such as solar for low-income households. NonDOE work is funded by other sources

CEO WAP may take advantage of the redistribution provision which states CEO WAP can actively manage the grant and move funds as necessary to fully expend the monies during the budget period.

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
WEATHERIZATION ANNUAL FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

Definition of significant energy savings: A centrally heated multifamily building energy savings is based on its audit SIR results prior to contributions. These energy savings are deemed significant if the SIR is greater than or equal to one standard deviation above the median. This sample is based on projects approved over the past three complete program years.

For example, consider the sample which includes SIR values of: 1.00, 1.00, 1.20, 1.30, 1.50, 1.50, 1.70, 1.80, 2.00, and 2.00. The median value of this sample is 1.50 and one standard deviation is 0.37; thus the minimum value for significant energy savings for this sample is an SIR value greater than or equal to 1.87.

CEO WAP will plan to submit some solar projects to DOE for approval with the BIL funding beginning during the second year.

Explanation for IV.2 Production Schedule Cost Variances:

In a typical program year there is a great variance between costs depending on subgrantee organization. This is due to skills and certifications of staff, location of project and office, etc. Additionally, with the current economic climate and inflation we estimate that these variances will be exacerbated throughout the next 5 years.

Please see the chart below showing the variances in ACPU for FY21:

Estimated Cost Variance		
Region	APCU	Variance from average
Pueblo	5,11873%	
HRWC	4,35862%	
NWCCOG	8,904126%	
Arapahoe	8,884126%	
ERC	7,989113%	
Average	7,051100%	
Minimum	4,35862%	
Maximum	8,904126%	

U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET

(Grant Number: EE0009976, State: CO, Program Year: 2022)

This worksheet should be completed as specified in Section III of the Weatherization Assistance Program Application Package.

V.1 Eligibility

V.1.1 Approach to Determining Client Eligibility

Provide a description of the definition of income used to determine eligibility

Per Weatherization Program Notice (WPN) 22-3, in which the Colorado Energy Office Weatherization Assistance Program (CEO WAP) will comply with annually approved income eligibility for the Bipartisan Infrastructure Law (BIL) Grant period of PY22-PY26. When determining client eligibility, the income limit is equal to or below 60% of the State Median Income (SMI) to align eligibility with Colorado Department of Human Services LEAP [LIHEAP] eligibility. For PY22, 60% SMI will be used to determine eligibility for households up to seven residents per household; households with eight or more residents will be qualified using 200% Federal Poverty Level (FPL).

Income is defined as the gross income, all cash receipts, received by all members of an applicant's household. Gross income is calculated before taxes, insurance, etc., are deducted from the total cash receipts. When Social Security is included in income, the gross income must be calculated after Medicare deductions. In the event that a legal dissolution of a family unit occurs, an individual may use their sole income since the dissolution, annualized, to determine eligibility in accordance with the proposed income limits. Application eligibility expires 12 months from the subgrant certification date, if an individual energy audit on the dwelling unit has not been completed.

Please see "Colorado FPL to SMI Comparison" for income limits and comparison from a one to eight person household.

Describe what household eligibility basis will be used in the Program

To be eligible for CEO WAP services under the BIL grant, clients must meet the income criteria outlined in 10 CFR 440.22, or meet a minimum of one of the following three criteria as outlined in WPN 22-3:

1. Have a gross household income at or below 60% SMI up to a seven person household
2. No greater than 200% of the FPL for households with eight or more residents
3. Receive cash assistance payments under Title IV or Title XVI of the Social Security Act, or in accordance with applicable State or local law, at any time during the past five years preceding the determination of eligibility. Acceptable programs include:
 1. Temporary Assistance for Needy Families (TANF)
 2. Aid to the Needy and Disabled (AND)
 3. Supplemental Security Income (SSI)
 4. Low-Income Home Energy Assistance Program (LEAP)
 5. Supplemental Nutrition Assistance Program (SNAP)
4. Currently enrolled for assistance under the Low Income Energy Assistance Act of 1981, provided that such a basis is at least 60% of the SMI as determined with the criteria established by the Director of the Office of Management and Budget.

Describe the process for ensuring qualified aliens are eligible for weatherization benefits

The process for ensuring that qualified immigrants are eligible for weatherization benefits is:

1. Completion of a Lawful Presence Affidavit, signed by the applicant. In the event that there is no lawfully present adult, but there is a lawfully present individual under the age of 18, proof of lawful presence is not required, however confirmation of lawful presence must be in writing and noted in the client file.

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

2. **The Lawful Presence Affidavit must include a copy of a current picture identification of the applicant. Acceptable forms of identification include:**
 1. **A valid Colorado driver's license or a valid Colorado identification card**
 2. **A valid United States military card/Common Access Card**
 3. **A valid United States Coast Guard Merchant Mariner card**
 4. **A Indigenous American tribal document**
 5. **A valid United States passport**
 6. **If an applicant cannot provide one of the aforementioned documents, they must provide one of the forms of identification set forth in §24-76.5-103(4)(a) C.R.S. or in 1 CCR 204-30 Rule 5 from the Executive Director of the Colorado Department of Revenue.**

3. **If the applicant checks the "I am lawfully present in the United State pursuant to Federal Law" box, residency status is verified through the Systematic Alien Verification for Entitlements (SAVE) by WAP staff. Acceptable forms of identification for a SAVE verification are:**
 1. **Colorado license (expired less than 10 years, image on file)**
 2. **Colorado ID card (expired less than 10 years, image on file)**
 3. **US passport (expired less than 10 years, image on file)**
 4. **Out of State ID from LP state (expired less than one year)**
 5. **Foreign passport w/photo, US Visa, I-94**
 6. **Valid Military ID/Common Access Card**
 7. **Certificate of Naturalization with photo less than 20 years old**
 8. **Valid I-551**
 9. **Valid EAD/ Temporary Resident**
 10. **Refugee/Asylee I-94 w/photo less than 20 years old**
 11. **Social Security Card verified by SSOLV**
 12. **U.S. birth certificate**
 13. **Certificate of Citizenship from the Department of Interior**
 14. **U.S. adoption order with birth information**
 15. **BIA ID Card with photo less than 10 years expired**
 16. **VA card with photo less than 20 years old**
 17. **Parent/Guardian affidavit if under 21 years old**
 18. **Colorado Department of Corrections or Federal Bureau of Prisons ID card**

V.1.2 Approach to Determining Building Eligibility

Procedures to determine that units weatherized have eligibility documentation

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

All clients receiving services under WAP must first have their eligibility verified as outlined in V.1.1 of the BIL Plan by the local administrative subgrantee, and client eligibility must be documented in the client file. Single family, manufactured housing, and small multifamily buildings consisting of only two to four units are eligible building types for weatherization using BIL funding in the state of Colorado. Multifamily buildings of five or more units will be funded with funds other than DOE BIL Funds.

Per 10 CFR 440.22(b)(3), subgrantees are required to establish procedures for dwellings which consist of a rental unit or rental units to ensure that:

1. The benefits of weatherization assistance associated with such rental units, including units where the tenants pay for their energy through their rent, will accrue primarily to the low-income tenants residing in such units
2. For a reasonable period after weatherization work has been completed on a dwelling containing a unit occupied by an eligible household, the tenants in that unit (including households paying for their energy through their rent) will not be subjected to rent increases unless those increases are demonstrably related to matters other than the weatherization work performed
3. The enforcement is provided through procedures established by the State of Colorado by which tenants may file complaints, and owners, in response to such complaints, shall demonstrate that the rent increase concerned is related to matters other than the weatherization work performed
4. Subgrantees are expected to receive tenant complaints regarding rent increases and should refer them to organizations (legal aide, tenant landlord mediation organizations, etc.) which can offer assistance in resolving the complaint
5. No undue or excessive enhancement shall occur to the value of the dwelling units

In order to secure the federal investment and address the issues of eviction from and sale of property receiving weatherization materials, CEO WAP may seek landlord agreements for placement of a lien or other contractual restrictions. For buildings identified in the BIL Plan, CEO WAP will continue to be responsible for ensuring compliance with the remaining requirements of this section, and CEO WAP has established requirements and procedures to ensure such compliance in accordance with this section.

The weatherization of non-stationary campers and trailers which do not have a mailing address associated with the eligible applicants is not permitted. Furthermore, the use of a post office box for non-stationary campers or trailers does not meet this requirement. And the intentional partial weatherization of units is not permitted.

STATE HISTORICAL PRESERVATION PROCESS

Per WAP Memorandum 066, the requirements for the weatherization of federally or locally registered historic properties within the State of Colorado are located within the Prototype Programmatic Agreement between DOE, CEO, and Colorado State Historic Preservation Office (SHPO) originally dated July 2011, amended July 2012, and then again in October 2020. The undertakings covered under this Programmatic Agreement (PA) are primarily smaller scale activities and routine projects, without the potential for adversely affecting historic properties, rather than complex undertakings with a greater potential to adversely affect historic properties, which would require completion of the typical Section 106 review process. All undertakings will be done in accordance with applicable local building codes or the International Building Code, where applicable.

QUALIFIED PROFESSIONALS

Subgrantees are required to use qualified professionals in conducting its Section 106 requirements. For the purposes of this PA, the term "qualified professionals" means an individual or group of individuals who fulfill one of the following:

1. Meet the Secretary of Interior Professional Qualification Standards for Archeology and Historic Preservation
2. Have at least a total of one year full time prior experience in, or primary responsibility for, Section 106 reviews or state/local historic preservation reviews
3. Are currently employed by, or have worked in historic preservation matters, for a designated certified local government
4. Have completed a formal training in the Section 106 review process conducted by the Advisory Council on Historic Preservation (ACHP), SHPO, or DOE

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

5. Are listed as a historic preservation consultant or contract resource on the Directory of Cultural Resource Management Agencies, Consultants, and Personnel for Colorado

Subgrantees may decide to utilize qualified professionals in the manner that is most appropriate given the scope and nature of their particular program and projects, including hiring qualified professionals on a full-time, part-time, project specific, employee, or contractual basis.

NON-EXEMPT PROJECTS

When a measure or unit does not fall within the agreed upon exempt undertakings, the following process will be used:

1. CEO WAP and/or the subgrantee will retain qualified professionals to act as its primary point of contact for Section 106 historic preservation matters and to assist CEO WAP or subgrantee in implementing their responsibilities under the PA throughout the Section 106 process (including, without limitation, initiating consultations, evaluating a property against the criteria of eligibility for the National Register, or evaluating the applicability of PA exemptions to particular projects).
2. If a qualified professional requires assistance in making a determination of eligibility of a property for inclusion on the National Register, then the qualified professional may submit a photograph of the property involved by email to oahp.isu@state.co.us in order to receive the SHPO's preliminary opinion on whether or not the property may be eligible for inclusion in the National Register (only a qualified professional may utilize this email process to gain SHPO's preliminary opinion on eligibility).
3. The qualified professional will also contact SHPO at joseph.saldibar@state.co.us to inform the office that an email has been forwarded. SHPO will respond within 10 business days of the email to the qualified professional. If SHPO responds that the property does not have the potential to be eligible, subgrantees or their contractors may proceed with the project without additional consultation. If SHPO responds that the property may have the potential to be eligible, the subgrantee will follow the procedures to reach a final determination of eligibility.

RECORDS

Records are to be maintained for a period of six years from the project completion and be made available for review if requested by the DOE or the ACHP.

FILE DOCUMENTATION

For all homes 50 years or older, client file documentation must include proof that the following measures were taken:

1. A recording of the year in which the unit was built
2. Verification that the unit addressed was searched against national and local historical registries
3. Confirmation of whether or not the unit is a Registered Historic Property
4. The date on which the unit was verified
5. The initials of the staff member who completed the verification

For all units that are within Registered Historic Properties, documentation must additionally include the following:

1. The Historical Register paperwork printed from the website of registry
2. The historical site identification number
3. A copy of the audit form with EA signature and date
4. Explanation of the auditor's evaluation of whether or not weatherization measures will alter or compromise the historical integrity of the building
5. A record of all communication with Colorado SHPO in regards to that property

REPORTS

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

Subgrantees are required to submit to CEO WAP an annual report due August 30th of each program year which is to include all of the following information:

1. Brief summary of undertakings (nonexempt projects if applicable)
2. Number of non-exempt undertakings
3. Number of exempt undertakings
4. Any reviews conducted by SHPO

CEO WAP will then submit this information to the DOE, ACHP (Advisory Council on Historic Preservation), and NCSHPO (National Conference of State Historical Preservation Officers) in an annual report.

WAP UNDERTAKINGS EXEMPT FROM SECTION 106 REVIEW

In accordance with 36 CFR 800.3(a)(1), the following undertakings have been determined to have no potential to compromise the historical integrity of the registered properties:

1. EXTERIOR WORK ON BUILDINGS OR STRUCTURES

1. Air sealing of the building shell, including caulking, weather-stripping, and other air infiltration control measures on windows and doors and installing thresholds in a manner that does not harm or obscure historic windows or trim.
2. Thermal insulation in walls, floors, ceilings, attics, and foundations in a manner that does not harm or damage historic fabric.
3. Blown-in wall insulation where no holes are drilled through exterior siding, or where holes have no permanent visible alteration to the structure.
4. Removable film on windows (if the film is transparent, solar screens, or window louvers, in a manner that does not harm or obscure historic windows or trim.
5. Reflective roof coating in a manner that closely resembles the historic materials and form, or with materials that restore the original feature based on historic evidence, and in a manner that does not alter the roofline, or where not on a primary roof elevation or visible from the public right-of-way.
6. Storm windows or doors, and wood screen doors in a manner that does not harm or obscure historic windows or trim.
7. In-kind replacement or repair of primary windows, doors and door frames that closely resemble existing substrate and framing on buildings and structures built after 1950.
8. Repair of minor roof and wall leaks prior to insulating attics or walls, provided repairs closely resemble existing surface composite.
9. Interior spaces where the work will not be visible from the public right of way, no structural alterations are made, no demolition of walls, ceilings or floors occurs, no drop ceilings are added, or no walls are leveled with furring or moved, should be automatically excluded from SHPO review.

2. INTERIOR WORK UNDERTAKINGS

1. Energy efficiency work within the building shell
2. Thermal insulation in floors, ceilings, attics, crawl spaces, ducts and foundations, wall insulation for buildings and structures built after 1950, and, for buildings and structures built in 1950 or before, wall insulation if performed by a contractor with experience with historic buildings in order to ensure there are no gaps in which condensation may form.
3. Blown-in wall insulation where no decorative plaster is damaged for buildings and structures built after 1950; for buildings and structures built in 1950 or before, if performed by a contractor with experience with historic buildings in order to ensure there are no gaps in which condensation may form.

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

4. **Plumbing work, including installation of water heaters.**
5. **Electrical work, including improving lamp efficiency.**
6. **Sealing air leaks using weather stripping, door sweeps, and caulk and sealing major air leaks associated with bypasses, ducts, air conditioning units, etc.**
7. **Repair or replace water heaters.**
8. **Adding adjustable speed drives such as fans on air handling units, cooling tower fans, and pumps.**
9. **Install insulation on water heater tanks and water heating pipes**
10. **Installation of solar water heating systems provided the structure is not visible from the public right of way.**
11. **Install waste heat recovery devices, including desuperheater water heaters, condensing heat exchangers, heat pump and water heating heat recovery systems, and other energy recovery equipment.**
12. **Repair or replace electric motors and motor controls like variable speed drives.**
13. **Incorporate other lighting technologies such as dimmable ballasts, day lighting controls, and occupant controlled dimming.**
3. **WORK ON HEATING AND COOLING SYSTEMS**
 1. **Clean, tune, repair or replace heating systems, including furnaces, oilers, heat pumps, vented space heaters, and wood stoves**
 2. **Clean, tune, repair, or replace cooling systems, including central air conditioners, window air conditioners, heat pumps, and evaporative coolers**
 3. **Install insulation on ducts and heating pipes**
 4. **Conduct other efficiency improvements on heating and cooling systems, including replacing standing pilot lights with electronic ignition devices and installing vent dampers**
 5. **Modify duct and pipe systems so heating and cooling systems operate efficiently and effectively, including adding return ducts, replace diffusers and registers, replacing air filters, and installing thermostatic radiator controls on steam and hot water heating systems.**
 6. **Install programmable thermostats, outdoor reset controls, UL listed energy management systems or building automation systems and other HVAC control systems.**
4. **ENERGY EFFICIENCY WORK AFFECTING THE ELECTRIC BASE LOAD OF THE PROPERTY**
 1. **Convert incandescent lighting to fluorescent.**
 2. **Add reflectors, LED exit signs, efficient HID fixtures, and occupancy (motion) sensors.**
 3. **Replace refrigerators.**
5. **HEALTH AND SAFETY MEASURES**
 1. **Installing fire, smoke, or carbon monoxide alarms.**
 2. **Repair or replace vent systems on fossil-fuel-fired heating systems and water heaters to ensure that combustion gasses draft safely to outside.**
 3. **Install mechanical ventilation in a manner not visible from the public right of way.**
6. **ADDITIONAL MISCELLANEOUS EXEMPT ACTIVITIES**

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

1. **Replacement or installation of new storm windows where the finish on the new storm windows matches the finish of the existing windows in color.**
2. **Replacement of interior doors that meet incidental repair expenditure criteria where the size of the openings is not altered. If the interior door replacements exceed the incidental repair expenditure criteria, replacements will not be performed with BIL or leveraged funding.**
3. **Replacement or repair of door knobs and other door hardware.**
4. **Installation of furnace outdoor termination plates.**
5. **Installation of exterior furnace vents and caps**

Describe Reweatherization compliance

Per 10 CFR 440.18, dwelling units are eligible for re-weatherization if it has been damaged by fire, flood, or force majeure and the repair of the weatherization materials is not covered by insurance.

Per Public Law 116-260, dwelling units are eligible for re-weatherization after a period of 15 years from when the previous weatherization job was completed. If a dwelling unit has been previously weatherized, under this program or under other Federal programs, they may receive further financial assistance for weatherization provided that:

1. **The previous weatherization occurred more than 15 years before the date of application approval**
2. **The occupant reapplies for assistance under the program and is certified to be eligible,**
3. **The local subgrantee prioritizes the application with all others adhering to program priorities,**
4. **A new energy audit is performed which considers all previous energy conservation improvements to the dwelling.**

The 15 year rolling date will be tracked within the CEO WAP database using a previously weatherized report and “closed date” field.

Describe what structures are eligible for weatherization

Structures eligible for weatherization with BIL funds include site-built homes, manufactured homes, rentals, duplexes, triplexes, and four-plexes, which meet the requirements of 10 CFR 440.22. CEO WAP exercises caution in dealing with non-traditional dwelling units such as apartments over businesses, etc. to ensure they meet program regulations on whether the unit is, in fact, eligible. Weatherizing these types of units is discussed with and approved by the DOE Project Officer prior to weatherization. The weatherization of non-stationary campers and trailers that do not have a mailing address associated with the eligible applicants is not allowed. The use of a post office box for non-stationary campers or trailers does not meet this requirement.

Describe how Rental Units/Multifamily Buildings will be addressed

Structures eligible for weatherization with BIL funds include: site-built homes, manufactured homes, duplexes, triplexes, and four-plexes, which meet the requirements of 10 CFR 440.22 (any of which may be rentals). Multifamily buildings of five or more units will be funded with funds other than DOE BIL Funds.

The weatherization of non-stationary campers and trailers that do not have a mailing address associated with the eligible applicants is not allowed. The use of a post office box for non-stationary campers or trailers does not meet this requirement.

Per 10 CFR 440.22, WPN 16-5, and WPN 16-6, a subgrantee may weatherize a building containing rental dwelling units, provided that:

1. **The subgrantee has obtained the written permission of the owner, landlord, or a duly authorized agent to perform the installation of all**

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

weatherization materials and provide energy saving services.

2. No fewer than:

1. A total of 50% of dwelling units in two to four unit buildings are eligible dwelling units or will become eligible dwelling units within 180 days under either a Federal, State, or Local Government program for rehabilitating the building, or making similar improvements.

3. The subgrantee has ensured that:

1. The benefits of weatherization assistance, including instances in which tenants pay for their energy through rent, will accrue primarily to the low-income tenants residing in such units.
2. The landlord, owner, or authorized agent has signed a document agreeing that rent will not be increased for a reasonable amount of time following weatherization improvements unless rent increases can be demonstrably proven to be related to matters other than the weatherization work performed.

4. Subgrantees are expected to receive tenant complaints regarding rent increases and should refer them to organizations (legal aid, tenant-landlord mediation organizations, etc.) which can offer assistance in resolving this issue. CEO WAP will not intervene or render a decision on tenant complaints involving landlord rent increases.

Describe the deferral Process

The following Deferral Process was developed by CEO WAP to assist subgrantee field staff in determining which situations are “beyond the scope” of the weatherization program and thus represent a unit that should not be served until the conditions change. Generally speaking, situations which constitute a threat to the health and safety of the subgrantees' staff should be avoided until such time as the conditions are remedied.

Situations which constitute a threat to the health and safety of subgrantee staff and/or WAP clients should be avoided until the unsafe conditions are remedied. Subgrantee staff who choose to work on a unit that could or should be a deferral, do so at their own risk; however, putting occupants at further risk as a result of doing the work is never allowable. CEO WAP does not require, expect, or encourage subgrantee crews to work in unsafe or unhealthy conditions. Subgrantees who wish to classify a unit as a deferral must include an audit form that includes the following information related to the deferral:

1. Date(s) of the audit/assessment.
2. A description of the issue(s) that caused the deferral.
3. Potential reasons for deferral.
4. A description of the conditions under which WAP work could continue, specifying how the home may be made weatherization-ready.
5. A clear description of the responsibilities of all parties involved.
6. The client’s signature indicating that they have been informed of their rights/options, and that they understand the issues and their responsibilities.
7. How client eligibility and priority will be addressed for deferred dwellings, including defined time limit before requalifying clients for the program becomes necessary.
8. The date the client was informed of the deferral.
9. Appeal process of deferral for client.
10. The date the issue causing a deferral was resolved, if applicable.

All subgrantees are required to document the following information: client identification, job number, stated problem(s), the root cause of the situation, and potential resolution. Any substantiating evidence, such as photos, staff written comments, defective materials, additional costs,

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

etc., must be included. All of this information should be recorded in the client file as well as provided to the client. CEO WAP requires that subgrantees also record this information in the CEO WAP database.

DEFERRAL CONDITIONS

1. Client/Access Issues:

1. **The client cannot be reached at telephone number on file due to the service being disconnected or due to client unavailability AND follow up mail goes unanswered.**
2. **The client is uncooperative, abusive, hostile, or threatening to the crew, subcontractors, auditors, inspectors, or others who must work on or visit the home or who, based upon the judgment of the senior staff person in the field, makes the working conditions intolerable for workers.**
3. **The client refuses to allow energy auditor(s) access to all areas of the home necessary to conduct the comprehensive energy audit.**
4. **The presence of animals which pose a risk to the weatherization workers.**
 1. **The work may be deferred until such animals have been secured adequately so that they no longer pose a threat.**
5. **The inability to gain access to the area to perform the work.**
 1. **The work may be deferred until the blocked access is cleared to allow the necessary access to perform the work.**
6. **Refusal of ASHRAE 62.2 2016 ventilation or other required measures.**

2. Human Health Issues:

1. **The client, or other household member, has known health conditions that prohibit the installation of insulation or other weatherization materials.**
2. **The house has raw sewage, excessive animal feces, or other sanitation problems that would further endanger the client and weatherization crews if the weatherization work were performed.**
3. **Dangerous conditions exist due to high carbon monoxide levels associated with combustion appliances which cannot be resolved under existing health and safety measures and guidance.**
4. **The extent and condition of lead-based paint in the house would potentially create increased health and safety hazards for both the occupants and crew members.**
5. **Volatile organic compounds (VOC) and other chemicals on the premises are poorly stored and represent a health risk (via breathing or skin contact) to the workers or client's safety.**
6. **In the judgment of the energy auditor, if there are any conditions which may endanger the health and/or safety of the work crew or subcontractor, the work should not proceed until the identified condition is satisfactorily corrected.**

3. Combustion Appliance Issues:

1. **Open combustion heating systems situated in a bedroom, bathroom, or closet that cannot be replaced under CEO WAP Program Guidance.**
 1. **This includes all rooms that are used or designed to be used as a bedroom or any enclosed space that has access only through such a room.**
2. **Combustion systems that are operating in an unsafe manner, that cannot be repaired or replaced within the scope of the program.**
3. **Furnaces that have no service access.**
 1. **Examples include attic furnaces with access doors through which the crew cannot enter, or furnaces where the client has**

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

finished the room around the unit but did not allow enough room to get to the controls and vents.

2. Such situations should be discussed with supervisory staff.

4. **Mobile homes with non-mobile home type furnaces.**

1. This includes all furnaces that are added to the unit.

5. **Furnaces with no cold air return or hot air delivery system (ductwork).**

1. Typically, this type of installation is in the middle of a room with limited ductwork.

2. It is particularly important if it has a delivery or return but not both.

6. **Any unvented heater.**

1. This includes all types of unvented heaters, portable kerosene space heaters or freestanding gas and propane heaters.

2. Work should only be done at the home if the portable heater can be permanently disabled or vented (with client/owner permission).

7. **Any furnace that is installed in a dangerous manner or cannot be brought to code at a reasonable cost (under \$400 cost to the program).**

1. Examples: units installed in an area where it could easily be broken.

4. **Structural Issues:**

1. The building structure or its mechanical systems, including electrical and plumbing, are in such a state of disrepair that failure is imminent and the conditions cannot be resolved cost effectively or within the scope of the Weatherization Assistance Program guidance.

2. If the house is structurally in a condition that is unsafe or beyond repair (the home needs significant rehabilitation work from another funding source) and presents a risk to the worker or client safety.

3. A foundation that is not sound and will not support one or more of the walls.

4. A unit that is under renovation or where original construction is incomplete and completion will require more than one sheet of drywall material.

1. There is the possibility of coordinating weatherization with renovation/rehabilitation work underway; this is a judgment call of the subgrantees, considering all relevant factors (timetable for work being done and likelihood of it occurring; option of waiting until work is done before weatherization, etc.).

5. **Structurally unsound walls**

1. Where a substantial part of a wall is unstable and that wall is involved in one or more of the desired energy conservation measures for the home; consult an approved computer audit, a supervisor, or State Staff.

2. The same is true for structurally unsound floors and ceilings.

6. **Drainage issues**

1. This would include any exterior drainage material or structure that does not function properly and may lead to internal leakage or flooding.

5. **Electrical Issues:**

1. Major electrical problems where a major portion of the total electrical system appears to be questionable (consult an "expert"); also,

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

consult an approved computer audit.

2. There are major electrical problems and when the cost is included with measures it is not cost effective to repair.

6. Safety Issues:

1. Moisture problems that are so severe they cannot be resolved under existing health and safety measures or as incidental minor repairs.
 1. This includes standing water in the crawl space or any other source that is beyond the scope of the program to resolve.
2. Friable asbestos or vermiculite in the home or significant enough in various locations that it precludes performing most of the cost-effective energy conservation work.
3. If a mold condition is discovered during the initial audit of the home by an energy auditor and it cannot be adequately addressed by the weatherization crew, the unit will be referred to the appropriate public or non-profit subgrantee for remedial action. Subgrantees shall defer work on the home until another funding source or the owner completes mold remediation.
 1. Colorado weatherization shall distribute the pamphlet from the U.S. Environmental Protection Subgrantee (EPA), Indoor Environment Division (IED), "A Brief Guide to Mold, Moisture, and Your Home" to clients whose homes have a moisture and/or mold problem. The pamphlet can be found at: <https://www.epa.gov/mold/brief-guide-mold-moisture-and-your-home>
4. The area is slated to be redeveloped (highway development, economic development, flood area).
5. The house has been condemned or electrical, heating, plumbing, or other equipment has been "red tagged" by local, county, or state building officials or utilities due to safety or code issues.
6. The presence of any illegal activity.

REMOVING DEFERRAL STATUS

The status of deferral from a unit may be removed if the conditions which warranted the deferral are addressed and/or a client's appeal results in the removal of deferral status. If there were multiple issues causing a dwelling to be deferred, the resolution date will be the day on which the last issue has been ameliorated.

The client is responsible for remedying the conditions, as specified in the communication that client received from the subgrantee, and contacting the subgrantee once these conditions have been addressed. Once the subgrantee verifies that the conditions have been remedied, they are required to return to the unit and complete all work.

Combustion appliance situations that threaten client safety are of great concern to WAP. Attempts should be made to remedy the situation, rather than deferring the unit.

APPEAL PROCESS

The following process should be used should a client request an appeal or second opinion on a deferral:

1. Clients should submit a written appeal to the direct supervisor of the subgrantee staff member who determined the unit should be deferred.
2. If the deferral is upheld by the direct supervisor, the client may submit a written appeal to a CEO WAP Manager.
3. If the deferral is upheld by a CEO WAP Manager, the client may submit a written appeal to the CEO WAP Director.
4. The decision rendered by the CEO WAP Director is considered final and no further appeals are allowed.

If at any point in this process, the original deferral is either not upheld or the conditions that caused the initial deferral are mediated, the subgrantee is required to return to the unit and complete all work.

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

V.1.3 Definition of Children

Definition of children (below age): 6

V.1.4 Approach to Tribal Organizations

Recommend tribal organization(s) be treated as local applicant?

If YES, Recommendation. If NO, Statement that assistance to low-income tribe members and other low-income persons is equal.

In accordance with 10 CFR 400.16(f), CEO WAP requires all subgrantees to provide the same weatherization services to eligible Indigenous American households that eligible non-Indigenous American households receive. Indigenous Americans residing on either the Ute Mountain Ute or Southern Ute reservations are eligible for weatherization services via standard allocation provided to Housing Resources of Western Colorado (HRWC). Assistance to low-income Indigenous American populations and other low income persons is equal in all respects.

V.2 Selection of Areas to Be Served

Colorado is committed to providing services to eligible households throughout all 64 counties within the state. Currently, the state is divided into five single family regions which are managed by five weatherization subgrantees. In addition, there is one statewide subgrantee that provides service to centrally heated multifamily units in all 64 counties.

For PY22, the five regions served are:

Region 2 Southeast Plains - The counties included within this region are: Baca, Bent, Crowley, Custer, Huerfano, Kiowa, Las Animas, Otero, Prowers, and Pueblo.

Region 4 Southwest - The counties included within this region are: Archuleta, Delta, Dolores, Gunnison, Hinsdale, La Plata, Mesa, Montezuma, Montrose, Ouray, San Juan, and San Miguel.

Region 5 High Country - The counties included within this region are: Chaffee, Clear Creek, Eagle, Garfield, Grand, Jackson, Lake, Moffat, Park, Pitkin, Rio Blanco, Routt, and Summit.

Region 7 East Denver Metro Area - The counties included within this region are: Adams and Arapahoe.

Region 8 Front Range, Northeast Plains, and San Luis Valley - The counties included within this service territory are: Alamosa, Boulder, Broomfield, Cheyenne, Conejos, Costilla, Denver, Douglas, El Paso, Elbert, Fremont, Gilpin, Jefferson, Kit Carson, Larimer, Lincoln, Logan, Mineral, Morgan, Phillips, Rio Grande, Saguache, Sedgwick, Teller, Washington, Weld, and Yuma.

FUNDING ALLOCATIONS

The CEO WAP funding allocation ensures funding will be fully utilized according to the approved BIL Plan, that prior contractual funding obligations are able to be met, and that the distribution of remaining available funds are allocated on an equitable basis as much as possible (and in accordance with the requirements of the funding source) across five program subgrantees.

BIL funds will not be utilized to weatherize multifamily units in Colorado. As Energy Outreach Colorado's service territory overlaps with that of all single family housing providers there will not be a gap in service coverage. EOC will continue to serve as the designated multifamily housing WAP provider with formula funds.

V.3 Priorities

The first consideration must be in consideration of "high residential energy users" and "households with a high energy burden" (as defined in 10 CFR 440.3) may be in combination with other priority categories of elderly, persons with disabilities, or families with children."

- 1. Households with a high energy burden**

U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET

(Grant Number: EE0009976, State: CO, Program Year: 2022)

2. Elderly persons (aged 60 years and over)
3. Persons with disabilities
4. Families with children (children below age 6)

In addition, subgrantees are required to track and report the number of Indigenous American populations served.

Subgrantees will be monitored on their provision of service to high priority groups, as approved in the subgrantee's plan to ensure compliance. Once a subgrantee satisfies all prioritization requirements, they may develop region-specific service models that promote cost-effective delivery of services due to constraining factors such as weather, geography, or the need to fulfill other contractual obligations, such as serving specific utility customers so long as the prioritization of specific clients as previously identified is achieved. CEO WAP provides oversight of the subgrantee client selection criteria at monitoring visits to ensure that local procedures are in accordance with DOE and CEO WAP policies. CEO WAP will report the number of priority clients served by priority type, as well as the number of Indigenous Americans served on a quarterly basis, to the DOE.

The Colorado Weatherization Assistance Program automatically falls in line with the Justice 40 initiative as the entirety of the clients served are from low-income families, and/or are members of disadvantaged communities greatly impacted by climate change.

V.4 Climatic Conditions

Climatic conditions within the State of Colorado vary significantly depending on the region of the State. Colorado is somewhat unique in that the climatic conditions range include the semiarid plains of eastern Colorado, to a high alpine mountain climate in the middle and western portions of the state. According to the 2009 International Energy Conservation Code, Colorado had four distinct climate zones, including Mixed Dry (4B), Cold (5B and 6B), and Very Cold (7B). Low-income residences in Colorado encounter a significant heating load in the winter months due to decreased temperatures across the state, especially within the mountain regions. Heating Degree Day (HDD) averages for the 64 counties vary from a low of 4,714 (Fremont County) to a high of 11,656 (Lake County). The more populated areas along the Front Range have HDD ranges from the low 6,000's to around 7,500. Due to the variance in climatic zones, use of site specific audits is necessary to capture this variety and properly apply measures.

HDD data from weather stations around the State of Colorado is used in the Colorado subgrantee allocation formula. Data is used from 6 weather stations operated at:

Denver: Lat = 39.57 / Long = -104.85, Elevation = 5,882.55

Colorado Springs: Lat = 38.83 / Long = -104.72, Elevation = 6,201.12

Pueblo: Lat = 38.29 / Long = -104.52, Elevation = 4,684.06

Grand Junction: Lat = 39.12 / Long = -108.53, Elevation = 4,839.9

Eagle: Lat = 39.66 / Long = -106.92, Elevation = 6,497.05

Leadville: Lat = 39.22 / Long = -106.32, Elevation = 9,927.82

V.5 Type of Weatherization Work to Be Done

V.5.1 Technical Guides and Materials

All weatherization work completed is consistent with CEO WAP DOE approved energy audits per Appendix A of 10 CFR 440, and WPN 22-4. Per WPN 22-4, CEO WAP has developed and implemented the Colorado Standard Work Specifications (SWS) which provides the benchmarks and standards for home energy upgrades in accordance with the Standard Work Specification standards developed by the National Renewable Energy Laboratory (NREL) and the Department of Energy (DOE). The SWS does not prescribe specific actions, materials, or techniques that

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

must be used by subgrantees or subcontractors in order to achieve energy conservation goals. Instead, the SWS provides subgrantees and subcontractors the minimum set of requirements necessary to achieve the desired energy efficiency outcomes. CEO WAP has language in subgrantee contracts that outlines the expectations for work quality and instructs subgrantees to include these expectations in any contracts entered into with contractors and vendors. All subgrantee agreements and vendor contracts contain language which clearly references the SWS for work quality outlined in WPN 22-4. All subgrantees and contractors are provided with the CEO WAP website where CEO policy and the Colorado Field Guide are located. They can be downloaded and viewed at any time during the program year. Subgrantees and contractors are required to acknowledge that they have received a copy of CEO policy and field guide or the link to the website when contracts are signed. In addition, CEO WAP staff requests subgrantee managers and staff review CEO WAP Policies and Colorado SWS in the first quarter of each program year.

Per CEO-WAP-501.2.1.2 "Subgrantees are responsible for ensuring that subcontractors are trained and in compliance with all relevant CEO WAP Policies and Procedures and the Colorado Field Guide, also known as the SWS. This requirement will also be part of the signed contract between the subgrantee and the subcontractor."

Field guide types approval dates

Single-Family: 4/20/2020
Manufactured Housing: 4/20/2020
Multi-Family: 4/20/2020

V.5.2 Energy Audit Procedures

Audit Procedures and Dates Most Recently Approved by DOE

Audit Procedure: Single-Family Audit Name: Approval Date: 4/20/2020

Audit Procedure: Manufactured Housing Audit Name: Approval Date: 4/20/2020
--

Audit Procedure: Multi-Family Audit Name: Approval Date:
--

Comments

SUBMITTAL OF AUDIT PROCEDURES

Per WPN 22-1 and 10 CFR 440.21(i), CEO WAP Quality Management (QM) Team will resubmit their energy audit procedures, and priority list, as applicable, to DOE for approval every five years. If the CEO WAP energy audit procedures are found to be out of compliance with this requirement, a corrective action plan will be submitted with this grant application as designated by a DOE Project Officer. Per WPN 19-4, CEO WAP QM Team will submit energy audit approval requests at least six months in advance of the current expiration date.

As the DOE specifically requires energy audit procedures to be separately developed and approved for use on site built single-family homes and manufactured homes, CEO WAP uses the appropriate energy audit procedures further described below. Multifamily buildings of five or more units will be funded with funds other than DOE BIL Funds.

STANDARD ENERGY AUDIT PROCEDURES

Energy audits will be performed using Weatherization Assistant for both site-built and manufactured homes. In the event that a home is a combination of a site built or modular home and a manufactured home, subgrantees must contact CEO to determine which audit tool to use.

Subgrantees must assess for the following three components as a part of the standard audit:

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

1. **Incidental Repair Measures – Per WPN 12-9, an Incidental Repair Measure (IRM) is a repair that is necessary for the effective performance or preservation of weatherization materials. IRMs require cost justification through the electronic energy audit, however, they are not to be included with the cost of an Energy Conservation Measure (ECM). Written justification and photos for the necessity of the repair must be in the client file and the repair must be associated with an ECM identified on the Recommended Measures Report.**
 1. **All incidental repairs must be completed according to SWS standards, if applicable. If an IRM has no associated SWS procedure, subgrantees and subcontractors are required to document the incidental repair measure and install the IRM per CEO WAP Program Guidance and SWS.**
 2. **If neither a SWS, nor a CEO WAP Program Guidance exists for the installation of the IRM, subgrantees and subcontractors must install the IRM using industry best practices.**
2. **Energy Conservation Measures – Per WPN 12-9, ECMs are a procedure, including weatherization materials installation, which are considered or performed for its anticipated energy savings.**
 1. **Per WPN 22-7 and Colorado WAP Policy & Program Guidance, all measures must be cost tested as energy conservation measures by the energy audit. If they do not rank and meet the criteria for “at-risk” clients, certain equipment replacements, such as furnaces and water heaters, may be replaced under the Health and Safety category.**
 2. **All approved ECMs that achieve a Savings to Investment Ratio (SIR) of 1.0 or greater MUST appear on the Recommended Measures Report.**
 3. **Health and Safety Measures – Per WPN 22-7, Health and Safety measures are those measures that are necessary to maintain the physical wellbeing of both the occupants and/or weatherization workers. The actions must be taken to effectively perform weatherization work or the actions are necessary as a result of the weatherization work. Subgrantees are required to:**
 1. **Identify all health and safety deficiencies as a part of the initial audit. These health and safety measures must be identified in the work order and completed prior to beginning the installation of any IRM or ECM.**
 2. **Document all hazards, concerns, questionable situations, etc. as part of the standard audit. Make sure digital images can be linked back to the job. WPN 22-7 defines the activities allowed as Health & Safety.**

HEALTH AND SAFETY

Per WPN 22-7, allowable energy related Health and Safety (H&S) actions are those actions necessary to maintain the physical well-being of both the occupants and weatherization workers where costs are reasonable, and the actions must be taken to effectively perform weatherization work; or the actions are necessary as a result of weatherization work. No H&S measure can be performed in a home unless ECMs are also part of the scope of work.

Subgrantees are required to adhere to the following SWS Health and Safety standards:

1. **Subgrantee Responsibility**
2. **Safe Work Practices**
3. **Combustion Safety Testing**
4. **Moisture**
5. **Electrical**
6. **Warranty**
7. **Asbestos**
8. **Radon**
9. **Incidental Repairs**

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

- 10. **Lead**
- 11. **Pests/Unsanitary Conditions**
- 12. **Common Health and Safety Practices**

BUILDING SHELL & AIR SEALING

Building shell and air sealing of a unit creates a separation between the interior and exterior environments and slows air flow, increasing energy efficiency through heat loss reduction. In addition, this prevents particulate matter from the outside from entering the unit. Subgrantees and/or subcontractors are required to follow the SWS for the following building shell and air sealing measures that are within the scope of CEO WAP:

- 1. **Attic Penetrations and Chases**
- 2. **Open Stairwells**
- 3. **Dropped Ceiling and Soffit**
- 4. **Windows and Doors**
- 5. **Basement and Crawlspace**
- 6. **Attached Garages**
- 7. **Ducts**

INSULATION

Insulation is building material that slows heat flow to create a separation from interior and exterior environments. This aids in heat retention, which lowers the cost of home energy. Subgrantees and/or subcontractors are required to follow the SWS for the following Insulation measures that are within the scope of CEO WAP:

- 1. **General Requirements**
- 2. **Attic Insulation General Preparation**
- 3. **Knee Walls**
- 4. **Attic Openings**
- 5. **Walls**
- 6. **Floors**
- 7. **Basements and Crawl Spaces**
- 8. **Duct Insulation**

HVAC

HVAC is the technology of indoor environmental comfort. Its goal is to provide thermal comfort and acceptable indoor air quality. Subgrantees and/or subcontractors are required to follow the SWS for the following HVAC measures that are within the scope of CEO WAP:

- 1. **General Requirements**
- 2. **Combustion Safety Requirements**

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

3. Forced Air Furnace Replacements

4. Warranty

VENTILATION

Ventilation is the mechanical system or equipment used to circulate air or to replace stale air with fresh air. Subgrantees and/or subcontractors are required to follow the SWS for the following ventilation measures that are within the scope of CEO WAP:

1. Ventilation Assessment Requirements

2. ASHRAE 62.2.2016

3. Installation

4. Inspection

5. Client Education

6. Dryer Venting/Ducts

7. Supply

8. Whole Building

BASELOAD

Baseloads are the common appliance-related energy costs that are common to units. Subgrantees and/or subcontractors are required to follow the SWS for the following baseload measures that are within the scope of CEO WAP:

1. Refrigerator

2. Water Heating General Items

3. Water Heater Insulation

4. Water Pipe Insulation

5. Water Heater Replacement

6. Water Use Reduction

7. Lighting

8. Rooftop Photovoltaics

INSPECTION REQUIREMENTS

The following inspection requirements constitute the minimum standards by which all subgrantees and subcontractors should assess all previously listed policies:

1. Subgrantee Quality Control Inspection

2. Client File Documentation

2. Quality Complaints

3. State Monitoring General Requirements

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

4. State Monitoring Field Visit Requirements

MISCELLANEOUS REQUIREMENTS

Miscellaneous Requirements are managerial and programmatic requirements that are not necessarily related to the installation of measures. They include: general program requirements, state and technical waiver requirements, subgrantee subcontract requirements, and training and certification requirements:

1. Multifamily Requirements
2. Multifamily specific requirements for individually and centrally heated multifamily units

SAVINGS TO INVESTMENT RATIO

As detailed in 10 CFR 440.21(c), in order to provide cost effective service, all assessed energy efficiency measures must meet the conditions as outlined in 10 CFR 440, Appendix A, and achieve a savings to investment ratio (SIR) of at least 1.0 or greater. All mandatory assessment measures that meet the SIR of 1.0 or greater must be installed by subgrantees or subcontractors.

COMMUNICATION OF GUIDELINES AND STANDARDS

Communication of Colorado Standard Work Specifications Guidelines and Standards (SWS), including updates, training plans, implementation schedules, and all other associated training and technical documents is the responsibility of CEO WAP Quality Management Team. The new or updated SWS will be communicated via email in the form of an electronic memorandum to each subgrantee's Executive Director or Program Manager, with all subgrantee trainers copied on the memorandum. This electronic memorandum will, at a minimum:

1. Identify the approved changes to the SWS
2. Identify the dates the changes will be effective
3. Identify any additional training for the new policies and procedures scheduled by CEO WAP Quality Management Team

CEO WAP staff will require that the Executive Director or a Program Manager of each subgrantee sign and return the electronic memorandum to CEO WAP Management, acknowledging receipt of the updated SWS. It is the responsibility of the Executive Director/Program Manager and/or trainers to distribute the updated SWS sections to their respective subgrantee personnel and crews. In the event that subcontractors are hired by the subgrantees to perform weatherization work, subgrantees are responsible for providing subcontractors with the SWS and to ensure that all work performed by subcontractors meets the specifications and standards identified within the SWS. A sample of subcontractor contracts will be reviewed during each Administrative Monitoring to ensure subgrantee compliance with this requirement.

In addition to the electronic memorandum, CEO WAP staff will update the controlled copy of the SWS that exists on the CEO WAP database within 10 business days of issuing the electronic memorandum. This is done so that all subgrantees and subcontractors may reference the most current version of the SWS at all times.

If SWS requirements are changed in the future by the DOE, CEO WAP will send confirmation to the DOE Project Officer responsible for Colorado that CEO WAP acknowledges these changes in the SWS requirements, has issued an electronic memorandum to all subgrantees identifying the changes, and that the controlled copy of the SWS on the CEO WAP database has been updated to reflect these changes. CEO WAP will submit a variance request pertaining to any new SWS requirements, via the standard variance procedure, to the DOE Project Officer, if CEO WAP feels it is warranted.

WORK QUALITY CONTRACT LANGUAGE

Per WPN 22-4, CEO WAP is required to include language in all subgrantee contracts that identify the requirements for work quality. CEO WAP developed the following work quality language beginning in PY15-16 that will be included in all PY22-PY26 subgrantee contracts scopes of work:

1. CEO WAP Weatherization Field Standards in the SWS and CEO Weatherization Policies and Procedures shall apply to the grantee and their subcontractors providing weatherization services through CEO WAP in order to ensure consistency in work quality.
2. These regulatory documents are not intended to abridge safety, health, environmental, or local codes or other ordinances. In such circumstances where there are conflicts the more stringent of rules shall apply.

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

3. The health and safety of the clients, grantee staff, grantee subcontractors and the integrity of the building structure shall not be compromised by any work completed with CEO WAP funds.
4. The Grantee, CEO WAP Administration, has overall responsibility for proper implementation of the procedures and for the quality control of all repair and energy conservation work.
5. All installed WAP materials shall meet the materials standards taken from Appendix A of 10CFR440, Title 10 Part 440 of the US Department of Energy's (DOE) WAP for low-income persons, and shall be of good quality, and shall be installed in a safe, cost-effective manner.
6. Work not meeting quality expectations may be subject to findings, re-inspections, go-backs, and disallowed costs, as determined by the CEO WAP with reference to 10CFR440 and CEO WAP Policies and Procedures."

FLOW-DOWN REQUIREMENTS

Per WPN 22-4, all subgrantee contracts signed with subcontractors will contain language which clearly states that subcontractors must meet all the requirements contained within the SWS, as well as CEO WAP policies and procedures.

CONFIRMATION OF RECEIPT

Per WPN 22-4, CEO WAP will use the signature on the contract as the method by which a subgrantee confirms receipt.

V.5.3 Final Inspection

CEO WAP has decided to utilize an independent Quality Control Inspector (QCI) model in which the subgrantee or subcontracted QCI is not permitted to have had any prior involvement with the unit being inspected. CEO WAP complies with all final inspection requirements outlined in WPN 22-4.

SUBGRANTEE QCI STAFFING LEVELS

Subgrantee QCI staffing levels should be commensurate with subgrantee needs based on a combination of size, funding, and unit production. Although CEO WAP does not require a subgrantee to have a specific number of QCI on staff, CEO WAP does require that all subgrantee employees who conduct Final Inspections of units be QCI certified. Subgrantees are required to have policies and procedures in place to address subgrantee shortages of QCI. All subgrantees have adequate capacity of QCI.

SUBGRANTEE QCI FINAL INSPECTION

All units reported as completed by a subgrantee must receive a final inspection from a subgrantee QCI or third party QCI if needed. The QCI must ensure that all work meets the minimum specifications as outlined in the SWS and must meet the applicable standards as found in 10 CFR 440. Units are deemed to be completed by CEO WAP once a QCI has determined that all incidental repair measures, energy conservation materials, and any necessary health and safety repairs have been installed in compliance with SWS standards and all installations meet all DOE SWS standards, if applicable. QCI are responsible for ensuring all materials have been accurately reported on the Building Weatherization Reports (BWRs), and that all energy savings measures listed on the BWR reflect accurate cost estimation. Inspectors are required to ensure accurate reporting of all measure costs, materials, and fuel types for all jobs in either NEAT or MHEA or approved multifamily auditing software.

All client files must include a form, signed by a QCI for the unit, signifying that all weatherization work performed by the subgrantee has met all applicable SWS or NREL SWS Standards. A QCI Final Inspection Report must include an assessment of the original audit, confirmation that the measures called for on the work order were appropriate per the audit procedures and protocols approved by the DOE, a record of final diagnostic testing, and that all measures costs were reported accurately.

SUBGRANTEE QCI CORRECTIVE ACTION PROCEDURES

Per Department of Energy (DOE), Weatherization Program Notice (WPN) 19-1, Program Year 2019 Weatherization Grant Guidance, Section 2.5, Quality Work Plan Implementation, and WPN 22-4 "Quality Work Plan Requirement Update," subgrantee QCI "who repeatedly fail to perform to program expectations must be disqualified from performing work in the future. Grantees must establish protocols to remove poor

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

performers from their network.” Also, subgrantees must establish internal protocols to remove poor performing QCI contractors from the network. When a subgrantee QCI fails to adequately inspect to the most recently approved SWS, they will be subject to the following corrective action procedures:

- **Corrective Action-Removal Procedures** are dictated by the number of Quality Assurance (QA) identified defects of similar nature requiring corrective action that can be directly tied back to a specific subgrantee QCI during a single QA visit over a two-year program period
 1. **First QA identified corrective action defect of similar nature**
 1. Subgrantees shall fix issues using non- DOE funds and conduct classroom training within the subgrantee for the inspector prior to them performing subsequent inspection work within the network.
 2. **Second QA identified corrective action defect of similar nature**
 1. Subgrantees shall fix issues using non BIL funds, conduct classroom training outside of the subgrantee, and supervised on-the-job training for the inspector prior to them performing subsequent inspection work within the network. guidance
 3. **Third QA identified corrective action defect of similar nature**
 1. Subgrantees shall fix issues using non-BIL funds, suspend the inspector from performing inspections for a six month period from the date of inspector notification, and have the inspector complete a QCI performance plan during the suspension period prior to them performing subsequent inspection work within the network.
 4. **Fourth QA identified corrective action defect of similar nature**
 1. Subgrantees shall fix issues using their own funds (not from any Weatherization grant) and then permanently disqualify the applicable inspector from performing all future inspection work within the network.
- **Corrective Action-Removal Procedures Tracking**
 1. Subgrantees are responsible for tracking where each impacted inspector is within the process outlined above. If subgrantees suspend or permanently disqualify an inspector, they shall notify a CEO Manager responsible for Quality Assurance via email. Prior to hiring and providing subsequent QCI work to an inspector, subgrantees are responsible for checking with the Quality Manager to ensure that the inspector is not suspended or permanently disqualified.

The corrective action-removal procedures listed above are outlined in CEO WAP Policy 602, Corrective Action-Removal Procedures. Additionally, per WPN 11-3, if a BIL funded unit has received a final inspection, subgrantees cannot return and expend BIL funds for corrections.

PROCESS FOR VALIDATING SUBGRANTEE CERTIFICATIONS

In accordance with WPN 22-4, CEO WAP has developed a comprehensive process for ensuring that all subgrantees acquire and maintain Building Performance Institute (BPI) QCI certifications for all inspectors. All subgrantees are required to include a list of all QCI that are on staff, as well as the date that each Inspector's existing certification expires, as a part of their annual Training Plan. These Training Plans are to be submitted as a required component of each subgrantee's annual Competitive and/or Noncompetitive RFA Applications. CEO WAP staff review all Training Plans to ensure compliance with this requirement. Competitive or noncompetitive applications missing these requirements will not be accepted by CEO WAP staff.

In addition to checking subgrantee Training Plans, CEO WAP Quality Management Team will use the BPI certification database to periodically check that each employee identified by a subgrantee as having a current QCI certification on their Training Plan is QCI certified at the time of the Training Plan submission. If the CEO WAP Quality Management Team find that either an individual listed as an Inspector on the Training Plan does not have a current QCI certification, or that an existing certification has expired and has not been renewed, CEO WAP Quality Management Team will issue an electronic memorandum to the subgrantee director or Program Manager, and copy all Trainers, that the employee needs either certification or recertification. A subgrantee representative (either the Executive Director, a Program Manager, or a Trainer) must respond within 30 business days with a plan to certify the individual. Subgrantees are prohibited from allowing Inspectors without a current QCI certification to conduct Final Inspections of any units. Subgrantees who fail to comply with this requirement are subject to the Policies to Address Subgrantee Noncompliance listed later within this section.

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

SUBCONTRACTOR QCI STAFFING LEVELS

Recognizing that subgrantees may encounter situations in which subgrantee QCI staffing levels are not adequate to meet production needs, CEO WAP will allow independent, third party subcontractors to perform QCI provided that the subcontractor has a current QCI certification.

SUBCONTRACTOR QCI INSPECTIONS

In the event that subgrantees utilize a contractor to perform final inspections, the subgrantee must ensure that those contractors possess a QCI certification and will inspect to the level required by the SWS as outlined in the SWS.

PROCESS FOR VALIDATION OF SUBCONTRACTOR QCI CERTIFICATION

Subgrantees are responsible for ensuring subcontractors have a current QCI certification at the time the work is performed. Subgrantees who allow non-QCI certified subcontractors to perform Final Inspections are subject to CEO WAP noncompliance procedures and may have all costs associated with that job disallowed.

CEO WAP QCI STAFFING LEVELS

CEO WAP currently operates under the Independent QCI Model, which requires CEO WAP Quality Management Team to perform QCI Inspections of a minimum of 5% of units reported as completed using BIL funds across the State. Four CEO WAP Quality Management Team members have successfully received their QCI certifications, or recertifications, and were able to conduct inspections on all BIL funded units beginning July 1, 2022.

CEO WAP STAFF QCI INSPECTIONS

CEO WAP staff are required to conduct onsite examinations of subgrantee and subcontractor work on 5% of BIL funded units designated as complete by subgrantees. These onsite audits are inspected to ensure that all weatherization work has been done in accordance with SWS and CEO Policies, and to assess subgrantee inspector effectiveness and knowledge. QCI certified CEO WAP staff members will sign a Final Inspection Form indicating that the job has been inspected and has passed all QCI requirements. This document has been developed by CEO WAP and is available for DOE Project Officer review at their request.

PROCESS FOR VALIDATION OF CEO WAP STAFF QCI CERTIFICATIONS

CEO WAP Quality Management Team are required to be QCI certified at all times and are responsible for all certification and recertification. Proof of QCI Certification and recertification of all CEO WAP Quality Management Team are available to the assigned DOE Project Officer as requested.

POLICIES TO ADDRESS SUBGRANTEE NONCOMPLIANCE

Per 2 CFR 200.338, if a subgrantee fails to comply with any term of an award as stated in Federal or CEO WAP policies and procedures, the subgrantee may be subject to one or more of the following actions:

1. Temporarily withhold cash payments pending correction of the deficiency.
2. Disallow all or part of the cost of the activity or action not in compliance.
3. Wholly or partly suspend or terminate the current award.
4. Withhold further awards.
5. Board notification and required response from the Board.
6. Take other remedies that may be legally available.
7. May result in reallocation of funding or production to another CEO WAP contracted entity.

If a subgrantee has a repeated history of poor performance, financial instability, mismanagement, violates the terms and conditions of the Cooperative Agreement (contract), or is irresponsible in administering the Weatherization program, CEO WAP may impose additional requirements needed in the following manner:

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

1. Subgrantees will be notified in writing (mail or electronically) as to the special conditions.
2. Reasons why the special conditions are being imposed.
3. Nature of required corrective action.
4. Time allowed for completion of the corrective action.

The standard CEO WAP grievance procedure can be requested by the subgrantee at any time. Once the special conditions have been corrected to the satisfaction of CEO WAP, they will be removed.

In addition to the above remedies, funding may be suspended in whole or in part by CEO WAP for frequent or repeated violations as well as financial mismanagement. In such a case written notification will be sent to the subgrantee and DOE stating the reasons for suspension, the effective date, and in the case of a partial termination the reduced or modified portion of the funding. Should termination of an subgrantee contract be determined the following steps will be taken:

1. Notification in writing and effective date of termination to the subgrantee.
2. Complete inventory of all tools, materials, equipment and capital equipment will be conducted.
3. All grant purchased items (capital equipment, computers, tools, inventory, etc.) will be removed from the premises.
4. Close out procedures will begin.
5. All other actions will be determined by the CEO WAP Director.

In addition to these noncompliance measures, standard contract language included in each subgrantee's contract further outlines the remedies available to the State of Colorado.

V.6 Weatherization Analysis of Effectiveness

CEO WAP utilizes a four-pronged approach to assess subgrantee effectiveness in relation to overall program administration and performance. This four-pronged approach allows CEO WAP staff to conduct multifaceted analysis of the program that allows CEO WAP to use historical performance and current program trends to identify and mediate any potential issues that might impact the program in the future. CEO WAP believes that this process leads to long-term program stability, effective and responsible utilization of taxpayer funds, and overall program health. The four methods used by CEO WAP staff to evaluate program effectiveness include:

1. Evaluating subgrantees in regards to specific performance indicators
2. Evaluating subgrantees' risk in relation to proper administration of grant funding through a Risk Management Assessment
3. Analyzing performance in relation to other subgrantees with similar subgrantee profiles
4. Fostering a welcoming and inclusive environment based on equity, diversity, and inclusion (EDI) at both the grantee and subgrantee levels.

The following sections provide greater detail as to how CEO WAP staff use each of these four methods to evaluate subgrantee and program effectiveness.

PERFORMANCE INDICATORS

Using previous program year data, CEO WAP has identified the following five performance indicators that generally can be used to assess subgrantee effectiveness and overall program success. These performance indicators are:

1. **Efficient Spending of BIL Funds** – Subgrantee effectiveness is largely determined by the full and efficient spending of all allocated BIL funds within a designated program year. Subgrantees that consistently bill to the grant show proper use of ASHRAE testing and installation requirements, proper allocation of subgrantee resources, effective use of funds, proper program administration, proper

U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET

(Grant Number: EE0009976, State: CO, Program Year: 2022)

understanding of allowable and disallowable costs, and successful implementation of the program in general. From a top-level perspective, subgrantee spending of BIL funds in a responsible manner ensures program continuity in future funding cycles, which assists in the overall health of CEO WAP.

2. **Per Unit Average (PUA) – Program effectiveness is also determined by how well subgrantees are able to meet or better their target PUA for BIL allocated funds. Subgrantees that meet or better their target PUA show proper financial and program administration, as well as a fundamental understanding of allowable and disallowable costs. Subgrantees are consistently compared to their historical PUA to identify trends around efficient unit production. Issues such as spikes in costs, or growth in labor charged to the grant are assessed to identify deficiencies or trends that may show that subgrantees are not conducting work effectively.**
3. **Unit Production – The third component that determines subgrantee effectiveness is how successful subgrantees are at providing high quality weatherization services to low income citizens of Colorado. This unit of effectiveness is measured by how many high quality, cost effective units a subgrantee is able to complete in a given program year. Subgrantees are allocated contractual targets based on a standard formula of the total BIL budget/ACPU and are assessed on their ability to meet these targets. Subgrantees that meet or exceed proposed production trends are deemed more effective and show greater program administration than those which lag in their proposed production targets.**
4. **Service in all 64 Colorado Counties – Due to the significant amount of leveraged funding that Colorado receives, it is increasingly important to ensure service to all 64 Colorado counties. CEO WAP requires that each county receive a minimum of one weatherized unit per program year. Service to all 64 counties in Colorado shows proper use of the prioritization requirements, proper administration of program dollars and ensures overall program health.**
5. **Quality Installation of Weatherization Materials – Subgrantees are also assessed on how effectively they utilize BIL funding to perform quality installation of weatherization materials. This performance indicator is assessed using the following four metrics as identified below.**
 1. **Site Visits: The site visit provides CEO WAP staff an opportunity to assess not only the quality of the work, it also allows CEO WAP staff to assess subgrantee compliance with SWS Field Standards and CEO WAP policies and procedures. This provides CEO WAP staff an opportunity to provide real time training to subgrantee field staff in both the SWS and CEO WAP policies and procedures to enhance the program.**
 2. **Utilization of the CEO WAP database: All installed measures on a home are collected through CEO WAP database and can be sorted, compared and evaluated in real time. This data provides insights regarding costs per unit, costs related to field functions or office functions, types of energy efficiency and health/safety measures being performed and their relative frequencies, and beginning and ending air leakage rates. CEO WAP monitors this data to determine if agencies are underperforming or lacking proficiency in any one area. This data, along with the site visit information, provides a starting point for empirical and qualitative assessment of the effectiveness of the work being performed.**
 3. **Quality Assurance Reports: Following a site visit, CEO WAP staff examines past quality assurance monitoring reports to identify recurring quality deficiencies within specific measures and/or processes. This process allows for the identification of Specific Training needs for specific subgrantees and also allows CEO WAP staff to identify issues that may occur across the entire subgrantee network, which could lead to additional Specific subgrantee network training as needed. This allows the subgrantee network greater program knowledge and a path to continuous improvement.**
 4. **Communication with Subgrantees: CEO WAP staff is in continuous communication with subgrantee staff on waiver requests, question and answers, T&TA calls and T&TA meetings. Frequently, the training needs of a subgrantee are best understood by themselves and are expressed accordingly. This interaction, and the information gathered from it, is vital to determining the training needs of agencies and their staff and to assess the overall health of the program..**

RISK MANAGEMENT ASSESSMENT

Per CEO WAP policy, each subgrantee undergoes a Risk Management Assessment that classifies each subgrantee as either a low, medium, or high risk to CEO WAP, and by extension, all CEO WAP funding partners. This comprehensive Risk Management Assessment includes a detailed, six-step audit of all aspects of subgrantee organizational methods, financials, work quality, including the following risk factors as outlined in standard CEO WAP policy. These risk factors include:

1. **Substantial financial or programmatic mismanagement is documented utilizing but not limited to the Administrative Monitoring Reports.**
 1. **“Substantial” is defined as disallowed costs of a large dollar amount (generally \$1,000 or more, or of a repetitive nature).**

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

2. Gross or deliberate neglect of generally accepted workmanship standards as evidenced by utilizing QA Monitoring Reports.

1. "Gross neglect" is defined as frequently recurring corrective action item deficiencies that have not improved through additional training and guidance.
3. Production goals are not completed in a timely manner, according to the goals set forth in the current program year's contract and as documented in monthly production reports.
4. Substantial noncompliance with applicable rules and regulations as documented in Administrative Monitoring, Quality Assurance Monitoring, monthly production reports, or monthly fiscal reports.

CEO WAP implements subgrantee risk management assessment by applying a comprehensive six-step risk management plan that includes the following steps:

1. Identifying Standards for Subgrantee Success (can be considered low-risk)
2. Identifying and Evaluating Relevant Stakeholders (actively involved, impacted by performance, and exert influence)
3. Conducting Communication (inform and collaborate with stakeholders on risk management plan implementation)
4. Conduct Risk Assessment (outline risk status, identification, categorization, impact and probability, and prioritization)
5. Develop Avoidance, Mitigation, and Response (avoid and mitigate all risks, while implementing response plans for high priority risks)
6. Oversight (systematic monitoring and control reviews)

Once the avoidance, mitigation, and response step is successfully implemented at the subgrantee level and verified through oversight by CEO WAP, the subgrantee is then reassessed with the intent of decreasing their overall risk status. This process allows CEO WAP to identify specific subgrantee risks and, using a replicable process, enact comprehensive change to reduce risk to the Grant. This provides CEO WAP with greater overall information, allows CEO WAP to assess subgrantee compliance, and to increase overall program health.

SUBGRANTEE PROFILE COMPARISON

CEO WAP also assesses a subgrantee's effectiveness based on comparisons to other subgrantees with similar subgrantee profiles. These subgrantee profiles include elements that are not necessarily financial in scope, things such as heating degree days, population characteristics, size of territory served, region specific costs, budgets, subgrantee organizational structures, and many other elements that have a direct impact on how effective a subgrantee is in delivering service. By comparing subgrantees with similar subgrantee's profile, CEO WAP can better identify subgrantee deficiencies, long term program trends, evaluate cost effectiveness of service, innovative best practices, and track the true financial and administrative impact of changes to CEO WAP and DOE policies and procedures. This allows CEO WAP to identify potential issues in advance and allows CEO WAP to continuously update and tailor the program to preemptively address these issues. This process leads to long term program stability, effective and responsible utilization of taxpayer funds, and overall program health. This process also allows for the identification of training needs that exist within the subgrantee network which allows CEO WAP to customize Specific training needs to support both national comprehensive training and standards as well as CEO WAP and industry best practice standards.

EQUITY, DIVERSITY AND INCLUSION (EDI)

On the ground, WAP subgrantees are expected to prioritize underserved populations, primarily those who bear the highest energy burden, as well as approach working with members in the practice of EDI at all times. For the past two years, CEO WAP has provided contracted EDI training to the Colorado WAP network on a semiannual basis, encouraging the professional growth of grantee and subgrantee staff. Recent topics have dealt with Principles of Inclusion, Impact vs. Intent, Allyship, and Bias Awareness. Using an EDI lens to approach CEO WAP's work allows for conscientiously ensuring that Colorado residents and Colorado WAP Network Staff are being served with equity.

Multiple members of CEO WAP staff are involved in an office-wide EDI working group striving to improve the accessibility, hiring, and retention challenges that exist across the network. One member of the CEO WAP team sits on the Hiring subcommittee for the EDI working group which is working to foster a welcoming and inclusive environment through the editing of language on job descriptions, work location and accessibility, and in the thoughtful review of applications. CEO WAP staff additionally has a presence at the Colorado Equity Alliance as well as the NASCSP Racial Equity Working Group. The CEO WAP Engagement Manager is developing a statewide Workforce Advisory Group to further address EDI throughout Colorado WAP.

U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET

(Grant Number: EE0009976, State: CO, Program Year: 2022)

V.7 Health and Safety

Per WPN 22-7 and 10 CFR 440.16, subgrantees are required to develop and implement detailed Health and Safety plans to ensure the health and safety of both workers and clients at all times. Subgrantee Health and Safety Plans must comply with all Occupational Safety and Health Administration (OSHA) regulations, all Colorado (SWS) Field Guide Health and Safety standards, all CEO WAP Health and Safety standards, as well as any other applicable State or Federal health and safety regulations. Subcontractors hired to perform weatherization work for a subgrantee are required to follow all Health and Safety standards as listed within the subgrantee's Health and Safety Plans and the SWS. CEO WAP complies with all health and safety requirements outlined in WPN 22-7.

Please reference "BIL Grantee Health and Safety Plan".

V.8 Program Management

V.8.1 Overview and Organization

CEO WAP operates within the Colorado Energy Office (CEO). CEO WAP staff consists of:

Deputy Director: Dominique Gomez

Director: Stephanie Insinna-Sahondo

Senior Program Manager: Amy Miller

Engagement Manager: Michelle Butler

Senior Quality Manager: Andy Cordova

Salesforce Administrator: Sarah Burns

Quality and Technical Manager: Zac Stewart

Quality Manager: Jacob Wolff

Program Manager: Elizabeth Jaenicke

Contract Manager: Randi Nusser

Program Associate: Elizabeth Lenox

Program Associate: Barbara Pazos Brown

Quality Specialist: Mick McHone

Communications Associate: Erin Edwards

Other CEO staff provide support to the Weatherization Assistance Program, such as CEO Executive Director Will Toor, Procurement Director Sara Graf, Director of Finance & Operations Gregg Hefner, Senior Budget Analyst Natalie Doerre, Accountant Alex Lopez, and Office Manager/HR Coordinator Susannah Blythe.

ALLOCATION OF STAFF SALARY COLORADO PROGRAM YEAR 2021

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

Deputy Director: Admin 10%, T&TA 0%

Director: Admin 23.35%, T&TA 35.00%

Senior Program Manager: Admin 18.80%, T&TA 39.55%

Senior Program Manager: Admin 6.9%, T&TA 7.8%

Program Manager: Admin 18.80%, T&TA 39.55%

Program Associate: Admin 19.10%, T&TA 39.25%

Program Associate: Admin 12.28%, T&TA 36.82%

Program Associate: Admin 12.28%, T&TA 36.82%

Quality Manager: Admin 14.25%, T&TA 44.10%

Senior Quality Manager: Admin 16.15%, T&TA 42.20%

Quality and Technical Manager: Admin 18.30%, T&TA 51.70%

ALLOCATION OF STAFF SALARY COLORADO PROGRAM YEARS 2022-2026

Deputy Director: Admin 4%, T&TA 4.5%

Director: Admin 6.9%, T&TA 7.8%

Program Administrator: Admin 6.9%, T&TA 7.8%

Senior Program Manager: Admin 6.9%, T&TA 7.8%

Senior Quality Manager: Admin 6.9%, T&TA 7.8%

Program Manager: Admin 6.9%, T&TA 7.8%

Contract Manager: Admin 6.9%, T&TA 7.8%

Quality and Technical Manager: 6.9%, T&TA 7.8%

Quality Manager: Admin 6.9%, T&TA 7.8%

Salesforce Administrator: 6.9%, T&TA 7.8%

Program Associate: Admin 6.9%, T&TA 7.8%

Program Associate: Admin 6.9%, T&TA 7.8%

Engagement Manager: Admin 6.9%, T&TA 7.8%

Quality Specialist: Admin 6.9%, T&TA 7.8%

Quality Specialist: Admin 6.9%, T&TA 7.8%

Contracts Associate: Admin 6.9%, T&TA 7.8%

Communications Associate: Admin 6.9%, T&TA 7.8%

Engagement Associate: Admin 6.9%, T&TA 7.8%

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

SELECTION OF SUBGRANTEES

CEO WAP will utilize its request for applications (RFA) process for the commencement of Program Year 2024. The subgrantees selected until then are as follows:

1. **Region 2: Pueblo County Department of Human Services**
2. **Region 4: Housing Resources of Western Colorado (HRWC)**
3. **Region 5: Northwest Colorado Council of Governments (NWCCOG)**
4. **Region 7: Arapahoe County Weatherization Division**
5. **Region 8: Energy Resource Center (ERC)**

All aforementioned subgrantees were CEO WAP local administering agencies during PY21 and selected for PY22 based on the criteria outlined in 10 CFR 440.15.

Each subgrantee is a public or nonprofit entity, underwent the opportunity to be commented on via the public hearing, have the requisite experience and history of performance, have experience in assisting low-income persons in its areas to be served, and continue to demonstrate the capacity to undertake a timely and effective weatherization program.

V.8.2 Administrative Expenditure Limits

The following budgetary caps are not to be exceeded by CEO WAP and by extension all subgrantees:

1. No more than 15% of the BIL grant may be used by the grantee and subgrantees for administrative purposes.
2. Not more than 7.5% may be used by CEO WAP for administrative purposes.
3. No less than 7.5% must be made available to subgrantees by CEO WAP.

V.8.3 Monitoring Activities

Per WPN 20-4, CEO WAP is responsible for executing the activities identified in the BIL Plan as approved by DOE. This responsibility includes ensuring that grant funds are expended in accordance with applicable law, including the regulations contained in 10 CFR 440, Financial Assistance Rule 2 CFR 200, Weatherization Program Notices, and other procedures that DOE may issue. Specifically, CEO WAP is required to conduct monitoring and oversight of all subgrantees in the following areas:

1. **Programmatic and Management Monitoring**
 1. **Subgrantee Review**
 2. **Financial/Administrative**
 3. **Equipment/Inventory/Materials**
 4. **Eligibility**
 5. **Rental**

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

6. **Feedback and Reporting**
 7. **Energy Audits**
 8. **Field Work**
 9. **Health & Safety**
 10. **Quality Assurance Subgrantee Monitoring**
 11. **Training & Technical Assistance**
 12. **Staff or entity performing the monitoring**
 13. **How monitoring results are handled and required follow-up procedures**
2. **Subgrantee Monitoring**
 1. **Program Overview (Client File Review, Work Orders, etc.)**
 2. **Financial/Administration**
 3. **Inventory**
 4. **Energy Audits**
 5. **Qualifications & Training**
 6. **Weatherization of Units**
 7. **Health & Safety**
 8. **Final Inspections**
 9. **Staff or entity performing the monitoring**
 10. **How monitoring results are handled and required follow-up procedures**
3. **Financial Monitoring**
 1. **Financial Management/Accounting Systems and Operations**
 2. **Audits**
 3. **Payroll/Personnel**
 4. **Vehicles and Equipment**
 5. **Procurement**
 6. **Invoicing**
 7. **Records Retention**
 8. **Staff or entity performing the monitoring**
 9. **How monitoring results are handled and required follow-up procedures Sub-awards/Subgrantee Monitoring**

Per 10 CFR 440.12(b)(6), CEO WAP accomplishes oversight and monitoring of subgrantees by conducting annual administrative and technical

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

monitoring that allows CEO WAP staff with specialized knowledge in these specific areas to assess subgrantee compliance. Per DOE guidance, CEO WAP reserves the right to monitor more units than the baseline requirement for subgrantees who have significant deficiencies. CEO WAP monitoring staff is comprised of one FTE who is responsible for conducting administrative monitoring of subgrantees in relation to financial and administrative functions, one 0.8 FTE certified QCI/0.2 FTE Trainer, and two 0.4 FTE certified QCI/0.6 FTE Trainers, who are responsible for performing technical monitoring of subgrantees related to the installation of energy conservation measures and health and safety repairs in clients' homes. For the BIL grant period of PY22-PY26, the following individuals will conduct monitoring of the following subgrantees:

Stephanie Insinna-Sahondo will be supervising the Administrative Monitoring efforts. Elizabeth Jaenicke will be leading the efforts with support from Randi Nusser, Libby Lenox, and Barbara Pazos: Administrative/Financial Monitoring – Pueblo County Department of Human Services, Housing Resources of Western Colorado, Northwest Colorado Council of Governments, Arapahoe County Weatherization Division, and Energy Resource Center.

Jacob Wolff: (0.8) Technical Monitoring / (0.2) Training – Pueblo County Department of Human Services, Housing Resources of Western Colorado, Northwest Colorado Council of Governments, Arapahoe County Weatherization Division, and Energy Resource Center

Andy Cordova: (0.4) Technical Monitoring / (0.6) Training – Pueblo County Department of Human Services, Housing Resources of Western Colorado, Northwest Colorado Council of Governments, Arapahoe County Weatherization Division, and Energy Resource Center

Zac Stewart: (0.4) Technical Monitoring / (0.6) Training – Pueblo County Department of Human Services, Housing Resources of Western Colorado, Northwest Colorado Council of Governments, Arapahoe County Weatherization Division, and Energy Resource Center

Mick McHone: (0.8) Technical Monitoring / (0.2) Training – Pueblo County Department of Human Services, Housing Resources of Western Colorado, Northwest Colorado Council of Governments, Arapahoe County Weatherization Division, and Energy Resource Center

Quality Specialist: (0.8) Technical Monitoring / (0.2) Training – Pueblo County Department of Human Services, Housing Resources of Western Colorado, Northwest Colorado Council of Governments, Arapahoe County Weatherization Division, and Energy Resource Center

A total of 9.3% of Administrative and 9.3% of T&TA funds are allocated for monitoring activities.

ADMINISTRATIVE MONITORING

Administrative monitoring of all subgrantees is conducted by at least a Program Manager, a Contract Manager, and a Program Associate at a minimum of once per program year. During an administrative monitoring, each subgrantee's programmatic and financial management are reviewed for compliance with DOE and CEO WAP policies and procedures. Following the completion of an administrative monitoring, a Program Manager is required to complete and submit to the subgrantees the standard CEO WAP Administrative Monitoring Report within 30 days of conducting the administrative monitoring.

Prior to the monitoring, subgrantees submit electronic versions of core policies, procedures, financial audits, insurance certificates, and key operational documents for review and archiving. Administrative monitoring is primarily concerned with addressing subgrantee performance in the following areas:

1. **Organizational Information**
2. **Outreach and Production**
3. **Personnel**
4. **Documentation**
5. **Procurement**
6. **Inventory**
7. **Financial Management**
8. **Review of previous administrative monitoring outcomes**

Administrative monitoring allows CEO WAP staff to disseminate efficiencies by identifying administrative best practices that can be shared with other subgrantees, thus, reducing functional program requirements where feasible, building in quality checks for administrative processes and

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

procedures, and identifying ways of streamlining operations.

The Administrative Monitoring Report contains the following elements:

1. Introduction
2. Methodology
3. Administrative Monitoring Review
4. Client File Review
5. Action Items
6. Subgrantee Acknowledgment and Performance Statement

Upon receipt of the Administrative Monitoring Report, subgrantees have 30 days for an authorized representative to sign the Administrative Monitoring Report, archive internally for future reference, and provide corrective action plans back to CEO WAP addressing all deficiencies identified during monitoring, per WPN 20-4. The corrective action plans must identify a process and resolution to address a major deficiency and state a reasonable time period for resolution to occur.

CLIENT FILE REVIEW

As part of administrative monitoring, a minimum of 5% of all BIL funded client files are provided for review to ensure subgrantee compliance with DOE, BIL, and CEO WAP client file requirements. In order to ensure transparency and consistency across all client file reviews, CEO WAP uses the standard CEO WAP Pre-Interview & Client File Checklist. The checklist includes the following elements, as applicable:

1. Unit Information (i.e. funding source, heating fuel, job number, own or rent, priorities, structure type, year built)
2. Eligibility and Permission (i.e. application date, call-back and go-back documentation, client complaint and resolution documentation, client sign and date application, copy of valid ID, deferral information, lawful presence affidavit, permission form for client and landlord if renter, permission to photograph, prequalified or income qualified, subgrantee sign and date application)
3. Field Requirements (i.e. ASHRAE 62.2 calculation form, audit form, BWR accurate to application, combustion appliance zone (CAZ) summary, chemical sensitivity form, cost records and invoices, date of final QCI inspection, deviation documentation, duct testing, final inspection form, final QCI sign and date, health and safety inspection/notification form, HVAC system efficiency testing, mold/moisture assessment form, NEAT or MHEA audit/work order, NEAT or MHEA economic analysis report, permits, photo documentation, pre and post blower door tests, radon informed consent language/form, radon pamphlet received by client and landlord if renter, refrigerator replacement form, state waivers, subgrantee waivers, suspected asbestos material inspection form, utility data consent forms, ventilation calculation form)
4. Renovate Right Procedures (RRP) (i.e. certified renovator certificate, lead safe pamphlet)
5. State Historic Preservation Office (SHPO) (i.e. historical documentation, historical property, required SHPO review)
6. Landlord Contribution (i.e. contribution amount, date of landlord payment)
7. Rooftop PV (i.e. cost records and invoices, DOE project officer approval email, rooftop PV final inspection form, rooftop PV owner agreement, solar assist grant form, solar site assessment, solar workbook printout)

Included in the Administrative Monitoring Report are details regarding deficient areas of client files. Subgrantees are required to develop action plans based on deficiencies and are required to regain compliance prior to the end of the program year. CEO WAP staff check to ensure that any issues that occur with client file documentation are corrected by the subgrantee in accordance with the severity of the violation.

ANTICIPATED PY22-PY26 ADMINISTRATIVE MONITORING SCHEDULE

Due to costs associated with administrative monitoring, CEO WAP typically conducts the administrative monitoring and client file review during the same visit, however, due to unit production schedules and when units are reported as closed, this can sometimes pose a challenge. As a result, CEO WAP may or may not be able to complete both portions of the review at the same time. The schedule, which is subject to change, for

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

PY22-PY26 is:

R7: Arapahoe, December

R2: Pueblo, January

R8: ERC, February

R5: NWCCOG, March

R4: HRWC, May

Additionally, CEO WAP will perform an annual review of subgrantee Financial Audits.

TECHNICAL MONITORING

Technical monitoring of subgrantees allows CEO WAP Quality Management Team to assess subgrantee work in regards to the quality installation of weatherization materials, incidental repair measures and health and safety measures. The technical monitoring schedule typically begins in late August and runs through the end of June and is dependent upon when subgrantees report closed units for BIL jobs. When the subgrantee reports an adequate number of BIL jobs as being closed, members of CEO WAP Technical team inspect the work to ensure the work is being completed in accordance with BIL, CEO WAP, and SWS standards, policies, rules, and regulations.

The quality of the field work and client service is assessed by conducting onsite visits of homes served at various stages in the production process (during initial audits, while work is in progress, accompanying the subgrantee inspector, or after the home has been reported to the state as a completed unit). A minimum of 5% of completed units receive an onsite inspection by the CEO WAP Quality Management Team. This approach provides the greatest possible insights into the subgrantee's processes and how these processes might be affecting quality. Also, the opportunity to have a positive impact upon local performance is increased by interacting with the local field staff during the work, thus providing immediate feedback, rather than just communicating feedback to them indirectly via reports which are addressed to management staff. This will allow both state and subgrantee staff to ascertain the overall quality of measures and to recognize trends, both within the subgrantees' organization and throughout the state. Statewide or region-wide problems will be addressed in group training and seminars. The specific needs of an individual subgrantee will be addressed through T&TA visits. Work quality is assessed and recorded via Technical Monitoring Reports that are issued to each subgrantee by CEO WAP staff within 30 days of the visit, following a QA monitoring. These reports are used to identify areas of strength and weakness found during the QA visits, and identify quality issues related to the installation of weatherization materials. CEO WAP Quality Management Team classify inspected work into one of the following categories:

1. **No Corrective Action Deficiencies** – No deficiencies constituting substantial noncompliance with CEO WAP Program Guidance or the SWS.
2. **Corrective Action Deficiencies** – Deficiencies constituting substantial noncompliance with CEO WAP Program Guidance or the SWS.
3. **Recommendation** – Conditions observed that do not constitute substantial noncompliance with CEO WAP Program Guidance or the SWS.
4. **Best Practice** – Work installed or weatherization processes completed that are exemplary in nature.

Once the QA report has been completed, CEO WAP Quality Management Team forward the report to the appropriate subgrantee's designated point of contact, and request a signature indicating that the subgrantee has read the QA report in its entirety. The subgrantee has 30 days from receipt of the report to return a signed copy indicating the subgrantee has read the report, and, in the case of corrective action deficiencies, have developed an action plan for remedying all corrective action deficiencies.

VIRTUAL TECHNICAL MONITORING PLANS

The virtual technical monitoring plan will only be used in the event of pandemic level shut downs as in the case of COVID-19.

Technical Monitoring (Final Inspection by Grantee):

Virtual Technical Monitoring would consist of receiving the contents of the client file before the virtual site visit. The file review would be completed, and any questions or comments noted so the grantee monitor could respond during the virtual site visit. For the actual site visit, we would have the subgrantee conduct a live streaming application so the grantee monitor could observe the completed work and all diagnostic testing. We would be using all the same forms, checklists, and procedures we do when on site. This virtual technical monitoring will be conducted

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

to satisfy the grantee final inspection requirement (5%) of completed units.

Step Process:

1. A completed unit that needs a final inspection is selected and the client file is sent to grantee staff electronically.
2. The monitors view the contents of the file and view the home via Google Earth if available. Notes are made in preparation.
3. The subgrantee is present for the final inspection and will video call the grantee monitor from the vehicle when they arrive on site.
4. The subgrantee conducts the inspection, and holds the device for very clear and focused zooming on the inspection that is being done. The subgrantee may have more than one device on hand as a backup if the first one battery life is not long enough to support the entire final inspection. The subgrantee describes each activity like they would during a proctored field exam.
5. Everything that the subgrantee would normally do is completed and video streamed with the grantee monitor. The grantee will ask the team of inspectors to slow down, stop, explain, or show a closer shot of certain measures as needed.
6. The diagnostic testing is highly important, and the camera must be angled to clearly see the meters, gauges, location of testing, and appliance operation. It is assumed this will take the most time of the inspection.
7. As the final inspection is ending, the grantee monitor gives the inspectors an opportunity to address anything they might have missed.
8. If it appears the home is being left in an unsafe manner, the grantee monitor alerts the inspectors so that it can be corrected, and notations are made for the monitoring letter. Observations are made about how the inspectors addressed problems with the work or missed opportunities.
9. The final inspection visit is compared to the client file, and is a technical tool for consistency as the final inspection procedures are concluded.

Technical Monitoring (Work-In-Progress):

The virtual Technical Monitoring for work-in-progress jobs would consist of subgrantee staff conducting a live streaming application where the grantee monitor could observe the work being performed and view any diagnostic testing. We would be using all the same forms, checklists, and procedures we do when on site.

Step Process:

1. A client is selected from homes that have been assessed with materials and supplies on hand. If possible, select a home with multiple measures being installed to gain a wide understanding of the subgrantee's overall field practices. The client name and address are sent to grantee staff prior to the virtual monitoring visit.
2. Once the subgrantee's staff has unloaded their equipment and started work, they will contact the grantee monitor for a group video call. This occurs from the vehicle to obtain street view.
3. The grantee monitor will observe the staff working from the street view and approach the person operating the device and tour the job site. The person operating the device should be familiar with that home's scope of work to know what areas of the home to view. It will be requested that the tour is slowed with closer zooms on areas the grantee monitors need to see with more detail.
4. Each worker starting with the crew leader is asked what they are working on and how they are doing it.
5. The grantee monitor views the condition of the vehicles and tools and views safety equipment, location of Personal Protective Equipment (PPE), and Field Guides.
6. Specific areas of work in progress are compared against the grantee Field Guides and general OSHA compliance and safety practices are observed.
7. Safety violations or concerns are immediately brought up and communicated to the crew leader.
8. If it appears something is being missed, or not addressed properly, the team is given a chance to explain the reasoning.

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

9. The notes and video are later reviewed and compared to the technical tool for conclusion of the work-in-progress monitoring.

Client File Review:

The grantee will review all client files and documents at the subgrantees' office. Documents will be scanned and sent to the grantee staff prior to the meeting. The grantee staff would review the documents before the site visit. The subgrantee will redact confidential client information and/or utilize a secure file transfer protocol (FTP) so confidential information can be safely shared between the local subgrantee and the grantee staff. The following steps will be followed:

Step Process:

1. Grantee staff will choose the required number of client files to review from the list of recently completed jobs. They will provide the request to the local subgrantee.
2. Grantee staff will review the files and note any questions or concerns.
3. The interview is scheduled with the subgrantee involving key staff.
4. When the interview is complete, the information will be organized with any issues noted for follow-up during the virtual field visits.
5. If there are major deficiencies based on the subgrantee's answers and provided information, that will also be documented in the monitoring report.

BIL ONSITE MONITORING

Per WPN 20-4, CEO WAP will provide all requested documents to the DOE Project Officer pertaining to the following areas during any BIL monitoring of CEO WAP or subgrantees:

Grantee Program Materials

1. Grantee and subgrantee most recent amended agreement
2. Completed subgrantee monitoring reports
3. Monitoring tool/instrument
4. Procedures manuals for program implementation (with technical reports)
5. Most recent grantee support contract/training entities or other contracted activities
6. Procurement documentation related to agreements
7. Inventory tracking and records

Subgrantee Program Materials

1. Current grantee State Plan & BIL Plan
2. Most recently amended award with the grantee
3. Grantee Weatherization Policies and Procedures
4. Copies of files of homes to be reviewed and/or visited
5. Inventory tracking materials (if applicable)
6. Subcontractor Contracts
7. Procurement documents to verify competition

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

8. Most recent documentation of grantee monitoring visit
9. Costs and fixed price list (materials, services, audits, inspections, etc.)
10. CEO WAP shall confirm receipt of these requests and shall provide all documentation within the time period designated by the DOE Project Officer in all instances.

Detailed monitoring schedules for Administrative, Fiscal, and Technical Monitorings for the span of the grant period can be found in the BIL Planning Workbook.

V.8.4 Training and Technical Assistance Approach and Activities

CEO WAP places a high priority on training and technical assistance (T&TA) to ensure the delivery of high quality, safe, cost-effective, and consistent energy efficiency and health and safety services throughout the State of Colorado. To support this goal, CEO WAP training programs focusing on providing specific training and technical assistance to all subgrantees while maintaining strong and consistent program administration of BIL funds. Comprehensive training is provided by IREC entities and are typically related to certifications. The following sections provide a detailed outline of the comprehensive and specific technical training, as well as the administrative training that all occur under the umbrella of the CEO WAP T&TA program. CEO WAP complies with all training and technical assistance requirements outlined in WPN 22-4.

WORKFORCE EFFORTS

The Workforce Advisory Group working to further address Equity, Diversity and Inclusion throughout Colorado WAP will also be working on growing administrative and technical trainings to fortify our current staff capacity and engage more with potential employees throughout the state. A collaboration with the National Association of State Energy Officials (NASEO) and the Markle Foundation is underway, currently working to identify representatives from relevant unions, education or training institutions, and private sector employers specific to the clean energy workforce in Colorado. The outcome of the collaboration will be a report detailing recommendations for how to grow Colorado's efficient and clean energy workforce.

ADMINISTRATIVE TRAINING

CEO WAP staff conduct administrative training up to three times a year. The first annual administrative training is the Winter Meeting in which CEO WAP staff and subgrantees meet for two days to discuss CEO WAP program guidance, regulatory issues, and other administrative topics and changes that will be applicable to subgrantees in the upcoming program year. The second administrative training performed by CEO WAP staff on a regular basis is the 2 CFR 200 training which all subgrantees are invited to attend. The 2 CFR 200 training is conducted by an outside contractor who provides CEO WAP staff and subgrantees with information regarding Federal fiscal policies, processes and changes that will be applicable for CEO WAP staff and subgrantees in the upcoming program year. The final administrative training occurs in the summer/fall, usually within a few months of the beginning of the new program year. This CEO WAP Summer Meeting provides subgrantees and CEO WAP staff the opportunity to discuss changes in CEO WAP policy, understand program goals, and provide greater information as to the structure and process of the new program year. Training occurs on CEO WAP processes and procedures, reporting dates, database training, allowable and unallowable costs, and other administrative-based information.

In addition to these planned training events, a CEO WAP Senior Program Manager conducts subgrantee specific administrative training as needed. Administrative training is focused on providing, single issue, short term training to subgrantees on CEO WAP policies, procedures, database, forms, fiscals, and other administrative elements as needed.

COMPREHENSIVE TECHNICAL TRAINING

Per WPN 22-4 CEO WAP has developed and implemented a comprehensive, statewide subgrantee Technical Training Plan for PY22-PY26 that meets the requirements for comprehensive training as found in the National Renewable Energy Laboratory (NREL) Job Task Analysis (JTA) for QCI, Crew Leaders, Retrofit Installers, and Energy Auditors.

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

Per DOE standards, all subgrantee Inspectors, retrofit installers, crew leaders, and Energy Auditors are required to receive comprehensive training from an Interstate Renewable Energy Council (IREC) accredited program whose curriculum is aligned with the Job Task Analysis (JTA) for that occupation as identified by NREL. In order to ease the training burden, each subgrantee may select the training delivery method (i.e. in person, via distance learning, or a hybrid approach) that best meets the needs and capabilities of each subgrantee.

In order to maintain program continuity from a production and certification standpoint, subgrantees will be required to use the following timeline for certification of all subgrantee and subcontractor employees whose primary and secondary responsibilities fall within each of the associated JTA's.

CEO maintains workforce credentials through a partnership with the EnergySmart Academy (ESA) at Santa Fe Community College, which is a nationally recognized weatherization and energy efficiency training center that offers in-person and online training to its WAP subgrantees.

For the upcoming program year 2022, CEO will cover the cost of tuition for field and administrative staff that wish to take the following online courses offered by ESA as follows: Energy Auditor, Building Science Principles, Quality Control Inspector, Multifamily Quality Control Inspector, Retrofit Installer Technician, Crew Leader, Advanced Retrofits- Smart Thermostats, Energy Auditing Software, Cold-Climate Heat Pumps, Healthy Home Evaluator- The Essentials of Healthy Home, and other available classes offered.

The courses offered by ESA qualify for Continuing Education Units (CEU) from BPI, and can therefore be applied to the required CEUs needed for recertification of existing credentials.

SUBGRANTEE EMPLOYEES

QUALITY CONTROL INSPECTORS:

CEO WAP subgrantees are required to have all individuals that are either full-time or part-time Inspectors complete comprehensive training and be certified as a BPI QCI. Inspectors that are hired must receive their QCI certification prior to conducting any final inspections for a subgrantee. In order to maintain program transparency, subgrantees are required to identify all Quality Control Inspectors on staff, as well as the date that each QCI certification expires, on the subgrantee Training Plan that is submitted annually to CEO WAP. Subgrantees will be responsible for ensuring certifications of all QCI are maintained and valid at all times and are responsible for recertification in all instances. In addition to QCI certifications, all inspectors must receive an OSHA 30 and Lead Safe Renovator certifications. Additionally, a minimum of one subgrantee employee, not necessarily an inspector, must be a Colorado Certified Asbestos Inspector. Subgrantee QCI are required to receive comprehensive training only when they are renewing existing certifications. Certifications will be renewed and updated prior to expiration.

RETROFIT INSTALLERS, CREW LEADERS, AND ENERGY AUDITORS:

Subgrantee employees whose primary and secondary duties fall under the JTA's for Retrofit Installers, Crew Leaders, and Energy Auditors are required to undergo comprehensive training and certification after the employees' existing Building Performance Institute (BPI) certifications have expired.

In order to maintain program transparency, subgrantees are required to identify all retrofit installers, crew leaders, and Energy Auditors that are on staff, as well as the date that each certification expires on the Training Plan that is submitted annually to CEO WAP. Subgrantees will be responsible for ensuring certifications of all retrofit installers, crew leaders, and Energy Auditors are maintained and current at all times and are responsible for recertification in all instances. OSHA 30 or CPR/ First Aid certification is required for crew leaders. Additionally, a minimum of one subgrantee employee, must have a Colorado Department of Public Health and Environment (CDPHE) Certified Asbestos Building Inspector on staff.

SUBCONTRACTORS

QUALITY CONTROL INSPECTORS:

Subgrantees are allowed to hire subcontractors to perform final inspections of BIL funded units provided that the inspector is QCI certified. Subgrantees are required to verify that all subcontractors hired to conduct a final inspection are QCI certified at all times, and that the QCI has not had any prior contact with the unit per the independent QCI model that has been adapted for the program.

SUBCONTRACTOR RETROFIT INSTALLERS, CREW LEADER, AND ENERGY AUDITOR

Subcontractors hired by subgrantees are not required to have retrofit installers, crew leaders, and Energy Auditor certifications, however all work performed by subcontractors must meet the standards and practices found in the SWS and SWS. Subgrantees are responsible for distributing applicable SWS guidelines to all subcontractors and are also responsible for ensuring all work performed by subcontractors meets

U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET

(Grant Number: EE0009976, State: CO, Program Year: 2022)

the standards as found in the SWS at all times. Work performed that does not have an associated SWS standard, must comply with all DOE SWS & Field Guide standards, if applicable. Work performed by subcontractors that do not have an associated SWS or DOE SWS must be compliant with CEO WAP Policies.

Agency Trainers may invite subcontractors to participate in local field training or provide on-the-job training to subcontractors on the job-site. Subcontractors are encouraged to enroll in subgrantee training courses, such as the BPI certification courses or field internships. T&TA funds may be used to train contractors, provided that the subcontractor is participating in the program during the program year. In making the determination for contractor participation in training with grant funds, subgrantees must secure a retention agreement in exchange for the training. The contract agreement must stipulate that contractors will work in the program, at a minimum, for a specific amount of time that aligns with the cost of the T&TA provided. Subgrantees must obtain approval to enter into such agreements by CEO prior to engaging with the contractor. After the approval process, proof of agreement in the form of a contract must be provided to CEO before contractors can receive scholarship compensation. CEO will only compensate for tuition costs. Travel, per diem, and other ancillary costs associated with training will not be approved.

SPECIFIC TECHNICAL TRAINING

Specific Trainings consist of single issue, short-term training designed to address acute deficiencies in the field or in day-to-day program management, or based on Quality Assurance Inspection deficiencies. The primary objective of Specific training is to review the work flow process, identify inefficiencies, and to discuss ways to improve the overall processes of subgrantees. Specific training is conducted by CEO WAP Quality Management Team and other approved training entities. All subgrantees will receive specific training during PY22-PY26. specific training consists of training in all elements of CEO WAP, and SWS Policies, including, but not limited to: combustion appliance testing, pressure diagnostics, NEAT/MHEA, work order development, SWS, ASHRAE 62.2.2016, manufactured homes, measures installation, and other trainings as requested. Training typically includes classroom training and hands-on training out in the field. In addition, a general review of the training objectives and an overview of the Weatherization Assistance Program from a national and state perspective will be conducted at each subgrantee training. Additionally, general work processes including job set up, safety, and good or best practices will be covered in the initial training review and throughout the training process.

Other, more specific Specific training needs are assessed by CEO WAP Quality Management Team via four methods, they are:

1. Site Visits provide an opportunity for the CEO WAP Quality Management Team to assess subgrantee work quality and compliance with the SWS and CEO WAP Policies and Procedures. Site visits consist of evaluating completed and in-progress work for adherence to the SWS standards, review of client files to ensure adherence to CEO WAP policies, and to identify subgrantee specific issues that require additional training. Onsite visits help the CEO WAP Quality Management Team to identify specific subgrantee training needs as well as best practices that one subgrantee may have developed that could be used by other subgrantees. All site visits performed by the CEO WAP Quality Management Team have an associated Quality Assurance (QA) Report for that visit that provides detailed analysis of the work performed by the subgrantee on completed BIL units. Once the QA Report for a subgrantee has been completed, the CEO WAP Quality Management Team meets to discuss the subgrantee's overall performance, outstanding issues and concerns to be aware of during future visits. During these meetings, subgrantee specific training needs are identified and discussed. If subgrantee specific training is deemed necessary, the technical team will create a training plan that will address these deficiencies. If corrective action item deficiencies are identified during the visit, specific action items are discussed and responses are required by the subgrantee. These reports, including their corrective action item deficiencies, are stored on the CEO WAP database and reviewed before the subgrantee's next QA visit to ensure the problem has been resolved and the subgrantee complies moving forward.
2. All information relating to installed measures are collected through the CEO WAP database, and can be sorted, compared and evaluated in real time. This data provides insights regarding costs per unit, costs related to field functions or office functions, types of energy efficiency and health/safety measures being performed and their relative frequencies, and beginning and ending air leakage rates. Each month, reports including subgrantee specific production analysis (including all installed measures and their costs) and fiscal analysis (including budget to actual reports) are completed and posted on the CEO WAP database. CEO WAP monitors this data to determine if agencies are underperforming or lacking proficiency in any one particular area. Outliers are determined and necessary Specific training activities are developed by the technical team. This data, along with the site visit information, provides a starting point for empirical and qualitative assessment of the effectiveness of the work being performed.
3. External QA reports that are reviewed include, but are not limited to: DOE Project Officer monitoring reports, internal state audits, and IG reports. CEO WAP examines ALL quality assurance monitoring reports to identify recurring quality deficiencies within specific measures and/or processes.

**U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET**

(Grant Number: EE0009976, State: CO, Program Year: 2022)

- CEO WAP maintains copies of all standards and policies, including the SWS, CEO WAP Policies and Procedures, and all other technical requirements on the CEO WAP database, to which all subgrantees have access to. Upon updating the rules, regulations, or standards of any documents, CEO WAP emails a copy of the changed requirements to the Program Director of each subgrantee and requests that each Director send back an email stating that they have received the updated requirements. In addition, CEO WAP staff update the control copy on CEO WAP database with the updated information so that all subgrantees have access to the most recent standards.

CLIENT EDUCATION

Per CEO WAP Policies and Procedures all clients are provided with education about the materials being used in their homes. Educational pamphlets are discussed and provided to the clients about materials already present in the home that may be detrimental to the health of the client, such as asbestos, lead, and radon. Upon receipt of these documents all clients are required to sign and date that they have been notified of the potential dangers of having these substances in their home. Materials created and provided to clients for educational purposes also include, but are not limited to, information on solar photovoltaic systems, insulation, appliances in the home, thermostats, etc. All grantee and subgrantee staff assist in client education on an as-needed basis.

It is the responsibility of the Energy Auditor and crew lead, to review the measures to be completed in the home before work commences, as well as educate clients about the potentials for energy savings and operating any appliances which may be added or replaced.

EO WAP Quality Management Team

TRAINING:

CEO WAP Quality Management Team maintains the highest levels of training in DOE and industry standards in order to ensure quality and consistency in reviewing subgrantee work. CEO WAP Quality Management Team are required to hold a QCI, Asbestos Building Inspector (ABI), and Renovation, Repair, and Painting (RRP) certification from the Environmental Protection Agency (EPA), and an OSHA 30 certification. In addition, CEO WAP Quality Management Team may have other certifications that assist in their ability to perform QA inspections of subgrantee work. CEO WAP Quality Management Team members doing Quality Assurance inspections meet the certification requirements as outlined above.

ENERGY DATA STUDY:

CEO WAP will solicit a partnership with a vendor to conduct a thorough data analysis on the energy usage and costs associated with the transition to beneficial electrification; such as evaluation of the air source heat pump pilot project currently underway throughout Colorado. Using T&TA BIL Funds, CEO WAP estimates the cost for this project to be \$50,000.

Percent of overall trainings

Comprehensive Trainings:	13.0
Specific Trainings:	87.0

Breakdown of T&TA training budget

Percent of budget allocated to Auditor/QCI trainings:	16.0
Percent of budget allocated to Crew/Installer trainings:	41.0
Percent of budget allocated to Management/Financial trainings:	43.0

V.9 Energy Crisis and Disaster Plan

The purpose of the CEO WAP Disaster Relief Plan is to provide weatherization emergency services to low-income individuals and families affected by a disaster as determined by a Presidential or Gubernatorial order declaring either a Federal or State Emergency. The disaster generally involves the following phases: the crisis itself, cleanup, and repair or rebuilding of the area. It is not uncommon for weatherization work to be suspended during the crisis and early cleanup period until such time as community services including electricity, water and other infrastructure can be restored. The plan will be in effect dependent upon the anticipated recovery period.

Disaster relief services are only available to qualified low-income residential households directly affected by the declared disaster. Local agencies are required to identify and provide weatherization assistance to elderly persons, persons with disabilities, and families with children five and under. However, in the case of a declared disaster, households located in the disaster area can take top priority as long as the

U.S. Department of Energy
WEATHERIZATION ASSISTANCE PROGRAM (WAP)
STATE PLAN/MASTER FILE WORKSHEET

(Grant Number: EE0009976, State: CO, Program Year: 2022)

households are income eligible and meet one of the priorities established in regulation and are free and clear of any insurance claim or other form of compensation resulting from damage incurred from the disaster. Local authorities must deem the dwelling unit salvageable as well as habitable and if the damage to the materials is not covered by insurance or other form of compensation. For qualified households, the unit allowance will be a maximum of \$6,500 as permitted by DOE WPN 19-5.

The use of BIL funds to pay for weatherization personnel to perform relief work in the community as a result of a disaster are not allowable. Allowable expenditures under WAP include:

1. The cost of incidental repairs to an eligible dwelling unit if such repairs are necessary to make the installation of weatherization materials effective.
2. The cost of eliminating health and safety hazards, elimination of which is necessary before the installation of weatherization materials. To the extent that services are in support of eligible weatherization (or permissible re-weatherization) work, such expenditure would be allowable. For example, debris removal at a dwelling unit so that the unit can be weatherized would be an allowable cost. Debris removal from a dwelling unit that is not to be weatherized would not be an allowable cost.
3. Guidance under WPN 22-7 will determine the allowability of installed Health and Safety Measures for affected homes in the disaster area.
4. Applications will be taken to determine and verify eligibility for potential.
5. Low-income individuals affected by the disaster. Reporting will be the same as normal requirements with notes indicating in the comment section that the unit was weatherized as a result of the disaster. All measures must be cost justified using the DOE approved energy audits, i.e. NEAT/MHEA with a SIR of 1.0 or greater. Incidental repairs can be made to preserve or protect a measure and should be cost justified within the measure(s) identified in the assessment per DOE guidance WPN 19-5. Any unusual circumstances will require the pre-approval of CEO WAP staff and possibly pre-approval of DOE.
6. Any low-income qualified home damaged by disaster such as flooding can be re-weatherized without regard to the date of weatherization, if the damage to materials is not covered by insurance.
7. All remaining measures are to be installed in order of priority in accordance with CEO WAP Policies and Procedures for managing the Low-Income Weatherization Assistance Program.
8. Local agencies may use Weatherization vehicles and/or equipment to help assist in disaster relief provided WAP is reimbursed according to 2 CFR 200 rules. Weatherization personnel can be paid from BIL funds to perform functions related to protecting the BIL investment. Such activities include: securing weatherization materials, tools, equipment, weatherization vehicles, or protection of local subgrantee weatherization files, records and the like during the initial phase of the disaster response.