

**STATE OF NORTH DAKOTA
WEATHERIZATION ASSISTANCE PLAN
FOR THE UNITED STATES
DEPARTMENT OF ENERGY**

**July 1, 2019 – June 30, 2020
FY 2019**

**ND Department of Commerce
Division of Community Services
1600 East Century Avenue, Suite 2
PO Box 2057
Bismarck, ND 58502-2057
Phone: (701) 328-5300
Fax: (701) 328-2308**

**Michelle Kommer, Commissioner
Bonnie Malo, Division Director
Bruce Hagen, Program Manager**

APPLICATION FOR FEDERAL ASSISTANCE SF-424

Version 02

9. Type of Applicant:

A State Government

10. Name of Federal Agency:

U. S. Department of Energy

11. Catalog of Federal Domestic Assistance Number:

81.042

CFDA Title:

Weatherization Assistance Program

12. Funding Opportunity Number:

DE-WAP-0002019

Title:

2019 Weatherization Assistance Program

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

North Dakota

15. Descriptive Title of Applicant's Project:

North Dakota Low Income Home Weatherization Program

BUDGET INFORMATION - Non-Construction Programs

1. Program/Project Identification No. EE0007940		2. Program/Project Title Weatherization Assistance Program	
3. Name and Address North Dakota Dept of Commerce 1600 East Century Avenue, Suite 2 Bismarck, ND 585030000	4. Program/Project Start Date		07/01/2019
	5. Completion Date		06/30/2020

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		\$ 2,782,844.00		\$ 2,782,844.00
2.						
3.						
4.						
5. TOTAL		\$ 0.00	\$ 0.00	\$ 2,782,844.00	\$ 0.00	\$ 2,782,844.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DOE	(2) GRANTEE ADMINISTRA TION	(3) SUBGRANTE E ADMINISTRA	(4) GRANTEE T&TA	
a. Personnel	\$ 0.00	\$ 17,498.00	\$ 0.00	\$ 41,902.00	\$ 59,400.00
b. Fringe Benefits	\$ 0.00	\$ 5,042.00	\$ 0.00	\$ 12,076.00	\$ 17,118.00
c. Travel	\$ 0.00	\$ 5,179.00	\$ 0.00	\$ 25,285.00	\$ 30,464.00
d. Equipment	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
e. Supplies	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
f. Contract	\$ 0.00	\$ 0.00	\$ 184,396.00	\$ 45,000.00	\$ 2,622,447.00
g. Construction	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
h. Other Direct Costs	\$ 0.00	\$ 13,495.00	\$ 0.00	\$ 23,336.00	\$ 36,831.00
i. Total Direct Charges	\$ 0.00	\$ 41,214.00	\$ 184,396.00	\$ 147,599.00	\$ 2,766,260.00
j. Indirect Costs	\$ 0.00	\$ 4,885.00	\$ 0.00	\$ 11,699.00	\$ 16,584.00
k. Totals	\$ 0.00	\$ 46,099.00	\$ 184,396.00	\$ 159,298.00	\$ 2,782,844.00
7. Program Income	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

BUDGET INFORMATION - Non-Construction Programs

1. Program/Project Identification No. EE0007940		2. Program/Project Title Weatherization Assistance Program	
3. Name and Address North Dakota Dept of Commerce 1600 East Century Avenue, Suite 2 Bismarck, ND 585030000	4. Program/Project Start Date 07/01/2019		
	5. Completion Date 06/30/2020		

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	\$ 2,782,844.00	\$ 0.00	\$ 2,782,844.00

SECTION B - BUDGET CATEGORIES					
6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) SUBGRANTEE T&TA	(2) PROGRAM OPERATIONS	(3) HEALTH AND SAFETY	(4)	
a. Personnel	\$ 0.00	\$ 0.00	\$ 0.00		\$ 59,400.00
b. Fringe Benefits	\$ 0.00	\$ 0.00	\$ 0.00		\$ 17,118.00
c. Travel	\$ 0.00	\$ 0.00	\$ 0.00		\$ 30,464.00
d. Equipment	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
e. Supplies	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
f. Contract	\$ 318,597.00	\$ 1,814,272.00	\$ 260,182.00		\$ 2,622,447.00
g. Construction	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
h. Other Direct Costs	\$ 0.00	\$ 0.00	\$ 0.00		\$ 36,831.00
i. Total Direct Charges	\$ 318,597.00	\$ 1,814,272.00	\$ 260,182.00		\$ 2,766,260.00
j. Indirect Costs	\$ 0.00	\$ 0.00	\$ 0.00		\$ 16,584.00
k. Totals	\$ 318,597.00	\$ 1,814,272.00	\$ 260,182.00		\$ 2,782,844.00
7. Program Income	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00

U.S. DEPARTMENT OF ENERGY



BUDGET JUSTIFICATION FOR FORMULA GRANTS

Applicant: North Dakota Dept of Commerce
 Award number: EE0007940

Budget period: 07/01/2019 - 06/30/2020

1. PERSONNEL - Prime Applicant only (all other participant costs are listed in 6 below and form SF-242A, Section B. Line 6.f. Contracts and Sub-Grants).

Positions to be supported under the proposed award and brief description of the duties of professionals:

<u>Position</u>	<u>Description of Duties of Professionals</u>
Program Manager	Weatherization Program Administration. Manages the weatherization program, completes the budgets and reports to DOE and the state. Helps monitor, train, and inspect the agencies. Oversees the online reporting and auditing software. Also manages several other programs which pay for time not spent on DOE WAP.
Prog. Admin	Monitors and trains the agencies and oversees multi-family audits. Also in charge of the ND State Weatherization Technical Committee. Also works in other programs which pay for time not spent on DOE WAP.

Direct Personnel Compensation:

<u>Position</u>	<u>Salary/Rate</u>	<u>Time</u>	<u>Direct Pay</u>
Program Manager	\$70,000.00	45.0000 % FT	\$31,500.00
Prog. Admin	\$62,000.00	45.0000 % FT	\$27,900.00
		Direct Pay Total	\$59,400.00

2. FRINGE BENEFITS

a. Are the fringe cost rates approved by a Federal Agency? If so, identify the agency and date of latest rate agreement or audit below, and attach a copy of the rate agreement to the application.

b. If a. above does not apply, please use this box (or an attachment) to further explain how your total fringe benefits costs were calculated. Your calculations should identify all rates used, along with the base they were applied to (and how the base was derived), and a total for each (along with grand total). If there is an established computation methodology approved for state-wide use, please provide a copy. Also, please fill out the table below with the Fringe Benefits Calculations.

The Fringe Benefit rate was calculated by taking the figures paid through our most recent grants. There have been no changes in the past year because of no employee raises or added benefits.

The Fringe Benefits rate of 28.82% includes the following:

Health Insurance - 14.6%

Social Security - 5.4%

State Retirement - 8.7%

Employee Assistance Plan, Basic Life Insurance, Section 125 Admin Fee - .12%

Fringe Benefits Calculations

<u>Position</u>	<u>Direct Pay</u>	<u>Rate</u>	<u>Benefits</u>
Program Manager	\$31,500.00	28.8183 %	\$9,077.76
Prog. Admin	\$27,900.00	28.8181 %	\$8,040.25
		Fringe Benefits Total	\$17,118.01

3. TRAVEL

- a. Please provide the purpose of travel, such as professional conference(s), DOE sponsored meeting(s), project management meeting, etc. If there is any foreign travel, please identify.

<u>Purpose of Trip</u>	<u>Number of Trips</u>	<u>Cost Per Trip</u>	<u>Total</u>
CAPND Weatherization Training Conference	2	\$2,500.00	\$5,000.00
Monitoring Visits	8	\$650.00	\$5,200.00
Agency Specific Training-On Site	8	\$650.00	\$5,200.00
Home Performance Conference	2	\$3,000.00	\$6,000.00
Energy OutWest Board Meeting and Peer Exchange	2	\$1,590.00	\$3,180.00
Weatherization Coordinators Meetings	2	\$652.00	\$1,304.00
NASCSP	2	\$1,600.00	\$3,200.00
State Technical Committee meetings	2	\$690.00	\$1,380.00
		Travel Total	\$30,464.00

- b. Please provide the basis for estimating the costs, such as past trips, current quotations, Federal Travel Regulations, etc. All listed travel must be necessary for the performance of the award objectives.

All estimated trip costs are based on past trips of a similar nature using State and Federal government rates. These training and trips will take place in the 2018 grant year.

4. EQUIPMENT - Equipment is generally defined as an item with an acquisition cost greater than \$5,000 and a useful life expectancy of more than one year.

- a. List all proposed equipment below and briefly justify its need as it applies to the objectives of the award.

<u>Equipment</u>	<u>Unit Cost</u>	<u>Number</u>	<u>Total Cost</u>	<u>Justification of Need</u>
------------------	------------------	---------------	-------------------	------------------------------

- b. Please provide a basis of cost such as vendor quotes, catalog prices, prior invoices, etc. and justify need. If the Equipment is being proposed as Cost Share and was previously acquired, please provide the source and value of its contribution to the project and logical support for the estimated value shown. If it is new equipment which will retain a useful life upon completion of the project, provide logical support for the estimated value shown. Also, please indicate whether the Equipment is being used for other projects or is 100% dedicated to the DOE project.

We are not budgeting equipment under this award.

5. SUPPLIES - Supplies are generally defined as an item with an acquisition cost of \$5,000 or less and a useful life expectancy of less than one year. Supplies are generally consumed during the project performance.

- a. List all proposed supplies below, the estimated cost, and briefly justify the need for the supplies as they apply to the objectives of the award. Note that all direct costs, including Supply items, may not be duplicative of supply costs included in the indirect pool that is the basis of the indirect rate applied for this project.

<u>General Category</u>	<u>Cost</u>	<u>Justification of Need</u>
-------------------------	-------------	------------------------------

- b. Please provide a basis of cost for each item listed above and justify need. Examples include vendor quotes, prior purchases of similar or like items, published price list, etc.

We are not budgeting supplies under this award.

6. CONTRACTS AND SUBGRANTS - Provide the following information for New proposed subrecipients and subcontractors. For ongoing subcontractors and subrecipients, this information does not have to be restated here, if it is provided elsewhere in the application; under Name of Proposed Sub, indicate purpose of work and where additional information can be found (i.e weatherization subgrants, Annual File section IV.1).

<u>Name of Proposed Sub</u>	<u>Total Cost</u>	<u>Basis of Cost*</u>
7 Weatherization Subgrantees	\$2,577,447.00	Agency T & TA, Admin, Audit, H&S, Insurance, Program Operations
KAT Communications	\$1,000.00	The video we produced last year will be played in Tribal Health offices across the state
Standards and Field Guide Update	\$10,000.00	Contracting out work on the new standards and field guide updates, variance forms, software forms, audit approval
Technical Committee Activities	\$34,000.00	Amount charged to DOE for Technical Committee costs and State Conference Costs through CAPND
Contracts and Subgrants Total	\$2,622,447.00	

*For example, Competitive, Historical, Quote, Catalog

7. OTHER DIRECT COSTS - Other direct costs are direct cost items required for the project which do not fit clearly into other categories. These direct costs may not be duplicative of costs included in the indirect pool that is the basis of the indirect rate applied for this project. Examples are: conference fees, subscription costs, printing costs, etc.

a. Please provide a General Description, Cost and Justification of Need.

<u>General Description</u>	<u>Cost</u>	<u>Justification of Need</u>
Office Rent	\$3,800.00	Actual Cost
Data Processing	\$3,382.00	Storage of data on server. Cost of Filenet database for document storage.
Professional Development	\$285.00	Continued OMB rules training.
Software	\$20,000.00	Updates and Maintenance to WxPro Reporting and Audit software. Adding ability to track deferrals.
Printing, Postage, Phone, Advertising, Subscriptions	\$9,364.00	Historical Costs, new Health and Safety Brochures
Other Direct Costs Total	\$36,831.00	

b. Please provide a basis of cost for each item listed above. Examples include vendor quotes, prior purchases of similar or like items, published price list, etc.

Office Rent is based on actual costs

Printing, Postage, Phone, Advertising, Subscriptions are based on historical costs. Added Health and Safety brochures for client ed.

Software includes updates and maintenance to the WxPro software, adding new features to keep up with new DOE rules, and additional reporting to track deferrals.

Data Processing is contract cost of storage on the server. We are also using a document storage system called Filenet..

Costs included in Other Direct Costs are not being charged to Indirect Costs or any other budget category and all costs proposed are only being used to support the Weatherization Assistance Program and are properly segregated from other federal and/or non-federal projects.

8. INDIRECT COSTS

a. Are the indirect cost rates approved by a Federal agency? If so, identify the agency and date of latest rate agreement or audit and provide a copy of the rate agreement.

b. If the above does not apply, indicate the basis for computation of rates, including the types of benefits to be provided, the rate(s) used, and the cost base for each rate. You may provide the information below or provide the calculations separately.

See Indirect Rate Cost Proposal attached

The name and phone number of the individual responsible for negotiating the State's indirect cost rates.

Name: Bonnie Malo

Phone Number: 7013285300

Indirect costs calculations:

<u>Indirect Cost Account</u>	<u>Direct Total</u>	<u>Indirect Rate</u>	<u>Total Indirect</u>
Personnel	\$60,725.75	27.3100 %	\$16,584.20
		Indirect Costs Total	\$16,584.20

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

IV.1 Subgrantees

Subgrantee (City)	Planned Funds/Units
Community Action Partnership - Minot Region (Minot)	\$354,446.00 33
Community Action Partnership; Inc (Dickinson)	\$418,480.00 43
Community Action Program Region VII (Bismarck)	\$402,652.00 38
Community Action Region VI (Jamestown)	\$265,277.00 24
Dakota Prairie Community Action Agency (Devils Lake)	\$374,491.00 35
Red River Valley Community Action (Grand Forks)	\$312,838.00 30
Southeastern ND Community Action Agency (Fargo)	\$449,263.00 43
Total:	\$2,577,447.00 246

IV.2 WAP Production Schedule

Weatherization Plans	Units
Total Units (excluding reweatherized)	236
Reweatherized Units	10

Note: Planned units by quarter or category are no longer required, no information required for persons.

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	236
C	Total Units Reweatherized	10
D	Total Dwelling Units to be Weatherized and Reweatherized (B + C)	246
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	\$1,814,272.00
G	Total Dwelling Units to be Weatherized and Reweatherized (from line D)	246
H	Average Program Operations Costs per Unit (F divided by G)	\$7,375.09
I	Average Vehicles & Equipment Acquisition Cost per Unit (from line E)	\$0.00
J	Total Average Cost per Dwelling (H plus I)	\$7,375.09

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	246	N/A	5711 *
Prior Year Estimate	248	N/A	5711 *

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

Prior Year Actual	247	N/A	0	*
* Energy Savings values were manually entered.				

Method used to calculate savings description:

Projected Energy Savings

Projected Energy Savings

A 1992 study of single family dwellings weatherized in program years 1989 through 1991 has served as the basis of projecting energy savings resulting from North Dakota's Weatherization Assistance Program. The estimated energy savings for the 182 natural gas-heated homes in the sample averaged 13.3% for conventional homes and 14% for mobile homes, when adjusted for seasonal variations. It is estimated that program improvements since the evaluation, especially in the area of increasing furnace efficiency, conservatively adds an additional 10% energy savings on average.

Low income housing varies widely in condition and energy efficiency. It is, therefore, difficult to confidently project energy savings to result for the 2016 Weatherization program. Average post-weatherization energy consumption (BTU's/HDD) for the sample listed above, serves as a basis for projecting energy savings among the homes to be weatherized during the 2016 program year. Table I, below, lists annual energy savings projections for conventional and mobile homes.

TABLE I					
Projected Energy Savings For Weatherization Assistance Program North Dakota					
	Consumption before Weatherization	Consumption After Wx*	Annual Savings*	Number FY15 Units	Total Projected Annual savings*
Conventional	116.09	89.42	26.66	153	4079
Mobile Home	105.12	80	25.12	66	1658
*BTU's x 10 ⁶	TOTAL			393	5737

IV.4 DOE-Funded Leveraging Activities

Leveraging :

\$2000 will be allowed per agency from program operations to leverage funds for weatherization. T&Ta funds may be used with prior approval from the state.

IV.5 Policy Advisory Council Members

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

CAP 7	Type of organization: Non-profit (not a financial institution) Contact Name: Lloyd Winterberg Phone: 7012582240 Email: Lloydw@cap7.com
Community Action Partnership	Type of organization: Non-profit (not a financial institution) Contact Name: Raymond Sand Phone: 7012270131 Email: raymonds@dickinsoncap.org
Community Action Partnership - Minot Region	Type of organization: Local agency Contact Name: Willy Soderholm Phone: 7018397221 Email: willy@capminotregion.org
Community Action Partnership, Inc.	Type of organization: Local agency Contact Name: Erv Bren Phone: 7012270131

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

Dakota Prairie Community Action Agency	Email: administration@dickinsoncap.org Type of organization: Non-profit (not a financial institution) Contact Name: Norris Elshaug Phone: 7016626500 Email: norriselshaug@yahoo.com
Dakota Prairie Community Action Agency	Type of organization: Non-profit (not a financial institution) Contact Name: Jenny Horn Phone: 7016626500 Email: Jenny@dpcaa.org
Department of Commerce, Bruce Hagen	Type of organization: Unit of State Government Contact Name: Bruce Hagen Phone: 7013904806 Email: bahagen@nd.gov
Montana Dakota Utilities	Type of organization: Utility Contact Name: Karen Collins Phone: 7012227229 Email: Karen.collins@mdu.com
ND Department of Commerce	Type of organization: Unit of State Government Contact Name: Bonnie Malo Phone: 7013282476 Email: bmalo@nd.gov
ND Department of Commerce	Type of organization: Unit of State Government Contact Name: Rory Hoffmann Phone: 7014863330 Email: rjhoffmann@nd.gov
North Dakota State University	Type of organization: Other Contact Name: Ken Hellevang Phone: 7012317243 Email: kenneth.hellevang@ndsu.edu
Red River Valley Community Action Agency	Type of organization: Non-profit (not a financial institution) Contact Name: Kathie Johnson Phone: 7017465431 Email: kjohnson@rrvca.com
Southeastern ND Community Action Agency	Type of organization: Local agency Contact Name: Brandon Kjelden Phone: 7012322452 Email: brandonk@sendcaa.org

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
04/20/2018	Transcript and notice attached.

IV.7 Miscellaneous

Recipient Business Officer:

Megan Reis
mreis@nd.gov
701-328-7255

Principle Investigator:

Bruce Hagen
bahagen@nd.gov
701-390-4806

Communication was one of the items that the ACSI survey indicated we need to address. In the past year we worked with a committee from

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

CAPND to develop this year's state plan in the hope we could increase transparency in this process. We appreciated their input and had good comments on the process from the members and CAPND. We have also met with some of the Directors and will meet with the rest in the near future. We have started putting out technical bulletins when questions come up about rules or what to do in situations that the agencies are unclear about. They can keep these in a binder for future reference.

We are giving the agencies the option to blend LIHEAP funds on DOE jobs starting with this program year. All jobs with any DOE funds used will follow all DOE rules. This will help avoid some deferrals and should lower the cost per unit as some of the agencies are struggling to maintain a low cost per unit and buy needed equipment.

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

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

Verifications:

1. A LIHEAP referral from the DCS or the County Social Services Office for the current program year identifying the client and the client's current address.
2. Verification documentation generally available from the client consists of: pay stubs, Employee W-2 forms, income tax returns (State or Federal), self-employment IRS form 1040, Schedule C or F.
3. Other sources which may be used for income verification are: employer statements of at least three months wage records, statements from employers, state income tax records.
4. Social Security Benefit verification include: Social Security benefit checks, SSA/SSI Award Letters, correspondence from Social Security regarding benefits, requests from the agency for information from local SSA offices.
5. Pension and other benefits verification generally available from applicants: unemployment compensation award or determination letter, pension award notice, Veterans Administration Award letter, income tax records, railroad retirement award letter.
6. Other income must generally be obtained from clients and include: rental agreements or leases, receipts from services provided, statements from Dept. of Labor for unemployment benefits, statements from insurance carriers for Workmen Compensation Claims.
7. Documentation is required, to the most reasonable extent possible, for applicants who report zero incomes. A signed statement by the applicant is acceptable, provided information has been obtained regarding basic living costs including food, shelter, utilities, medical expenses, etc, for the months of zero income reported.
8. A Community Action Agency (CAA) authorized representative's signature on the application for weatherization assistance certifies that the agency representative has verified the client's eligibility.

Definition of income is as described in WPN 19-3.

Applications more than a year old that have not been served must be re-evaluated for income eligibility.

**2019 POVERTY INCOME GUIDELINES CONTIGUOUS STATES U.S. GRANTEES
EFFECTIVE January 11th, 2019**

Size of Family Unit	Threshold	200%
1	\$12,490	\$24,980
2	\$16,910	\$33,820
3	\$21,330	\$42,660
4	\$25,570	\$51,500
5	\$30,170	\$60,340
6	\$34,590	\$69,180
7	\$39,010	\$78,020
8	\$43,430	\$86,860

For families with more than 8 persons, 100% of poverty level increases \$4,420 for each additional person. Therefore, for weatherization at 200% of poverty level, add \$8,840 for each additional person.

LIHEAP Eligibility Determination will follow section 415-25 of the attached 2017 ND LIHEAP State Plan.

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

Describe what household eligibility basis will be used in the Program

LIHEAP Income Eligibility Criteria

The maximum income eligibility limit for heating assistance is 60% of the state median income as updated annually in the Federal Register by the U.S. Department of Health and Human Services, under authority of section 673(2) of the Omnibus Budget Reconciliation Act of 1981, that are in effect at the beginning of this federal fiscal year and subsequent federal fiscal years.

Income Eligibility Levels 415-25-05-10

The income eligibility limits for heating assistance are based on 60% of the North Dakota median income. The monthly income eligibility levels are determined by dividing the annual amount by 12 months and rounding off to the nearest dollar (indicated by *). Therefore, the adjusted gross income eligibility limits for FY2019 are as follows:

Household Size Annual Eligibility Limit Monthly Eligibility Limit

1	\$28,831	\$2,403
2	\$37,702	\$3,142
3	\$46,573	\$3,881
4	\$55,444	\$4,620
5	\$64,315	\$5,360
6	\$73,186	\$6,099
7	\$74,849	\$6,237
8	\$76,513	\$6,376
9	\$78,176	\$6,515
10	\$79,839	\$6,653
11	\$81,503	\$6,792
12	\$83,166	\$6,931

If an applicant is not eligible for LIHEAP or chooses to not apply for LIHEAP assistance, their income is verified and checked against the DOE income guidelines to make sure service is provided where eligibility exists.

DOE Income Eligibility

New 2019 Guidelines

Size of Family Unit	Maximum Family Income
1	\$24,980
2	\$33,820
3	\$42,660

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

4 \$51,500

5 \$60,340

6 \$69,180

7 \$78,020

8 \$86,860

For each additional household member add \$8,860

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

Grantees are directed to review guidance provided by Health and Human Services (HHS) under the Low Income Home Energy Assistance Program (LIHEAP).

V.1.2 Approach to Determining Building Eligibility

Procedures to determine that units weatherized have eligibility documentation

See Monitoring Section, ND QCI inspection form, and File Review checklist attachments.

The ND Weatherization Assistance Program follows the State Historic Preservation Office Agreement signed with the ND Historic Preservation Office on 3/25/10. (Agreement attached)

Describe Reweathering compliance

All homes weatherized with DOE funds since September 30, 1994 are ineligible for additional weatherization assistance. However, DOE allows weatherization funds to be used to re-weatherize units which were partially weatherized with DOE funds prior to September 30, 1994. Regulations also permit re-weatherization in the event that previously applied weatherization materials are damaged by fire, flood or act of God and the needed repairs to weatherization materials are not covered by insurance. Therefore, the State will allow the re-weatherization of qualified units during the 2016 Plan Year.

To qualify a unit for re-weatherization, the occupant must reapply and be determined eligible for assistance. A new energy audit must be completed to determine which measures and materials should be installed on the basis of current standards.

There are no computerized records from the period prior to 7-1-2009. The software used by the sub-grantees was discontinued and could not be transferred to new computers. Some agencies have access to older paper files but since they are not required to keep files that old there are no records available for most of that time period. In cases where an auditor gets to a home that has been previously weatherized, efforts are made to determine when the weatherization was done. If it is questionable, LIHEAP funds will be used for the weatherization of the home. There is no requirement on reweatherization with those funds.

Describe what structures are eligible for weatherization

Single family site built homes, manufactured homes, multi-family buildings

Any non-traditional housing such as shelters will need Grantee approval after consulting the DOE Project Officer.

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

The weatherization of non-stationary campers and trailers is not allowed. Manufactured houses must meet HUD requirements.

Describe how Rental Units/Multifamily Buildings will be addressed

North Dakota Weatherization Program Rental/Multi-Family Building Procedures

It is a goal of the North Dakota Weatherization Program to provide assistance in a manner that treats persons eligible for weatherization services living in rental housing equally with persons who are homeowners. However, because the unit to be weatherized is owned by a person who may not be eligible to receive program benefits, sub-grantees must comply with the following before the weatherization process is completed.

1. The sub-grantee has obtained the written permission of the owner or his agent to weatherize the property.
 1. If 66 percent (50 percent for 2 to 4 unit buildings), and certain eligible types of large multi-family buildings as determined by consulting with the DOE Project Officer) of the dwelling units in the building are eligible dwelling units, or will become eligible dwelling units within 180 days under a Federal, State, or local government program for rehabilitating the building or making similar improvements to the building:
 1. The entire building must be weatherized.
 2. All units weatherized will be counted as completions.
 2. If less than 66 percent (50 percent for 2 to 4 unit buildings), and certain eligible types of large multi-family buildings as determined by consulting with the DOE Project Officer) of the dwelling units in the building are eligible dwelling units or will become eligible dwelling units within 180 days under a Federal, State, or local government program for rehabilitating the building or making similar improvements to the building:
 1. Only the qualifying units can be weatherized.
 1. Only the qualifying units can be counted as completions.
 2. The unit is self-contained, without sharing an attic or basement with adjacent units, and has its own individual heating and cooling systems,
 3. The unit has been audited with a current, approved energy audit tool and protocol that is able to adequately address a single unit within a larger structure,
 4. The scope of work is specific to allowable measures within the eligible units.
 5. The units would be considered on a case by case basis with approval from the DOE Project Officer.
2. The sub-grantee has established procedures for dwellings which consist of a rental unit or rental units to ensure that:
 1. The benefits of weatherization assistance in connection 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 of time 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. Procedures must be established by the Sub-grantee 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; and
 1. No undue or excessive enhancement shall occur to the value of the dwelling units. One specific application of this policy is to limit expenditures for furnace or boiler replacements for Health and Safety reasons in rental property. As stated above, landlords are responsible for maintaining safe, operable heating systems in rental units.
 4. Weatherization funds may, however, be used to upgrade the efficiency of heating systems in rental property by retrofitting or replacing existing equipment that meets the SIR requirement. The agency will pay no more than \$100 per unit for repair costs.
3. The North Dakota Weatherization staff has made it a policy to require that each multifamily project that is to be weatherized have at least one major task performed.
 1. Once we determine there is a major task needed on a project, and the project is deemed eligible, the following steps are taken.
 1. A state weatherization staff member, accompanied by the local Community Action auditor, visits the property for data collection.
 1. A Health and Safety assessment is done. If needed Health and Safety tasks are estimated to be too costly or Health and Safety requirements can not be met the project will be deferred.
 2. If the project passes the Health and Safety assessment the following areas are inspected:
 1. Attic insulation levels
 2. Wall insulation levels
 3. Basement and/or crawl space insulation levels
 4. Refrigerator make and model

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

5. Existing light bulb wattage
 6. Heating systems
 7. Cooling systems
 8. Hot water distribution system
 9. Primary and storm window condition
 10. Primary door condition
 11. Air infiltration points and chase ways
 12. Integrity of roof and building envelope
 13. Any other area(s) that affect the building's thermal performance
 14. The utility bills from the previous year are collected.
2. The local Community Action runs the tasks through the WxPro energy audit to get a cost for the task.
 1. This gives us a local cost that is used for the TREAT energy audit.
 3. The state staff member models the building using the TREAT energy audit software with all of the data collected from the site and inputs the utility bills.
 1. All tasks or improvements are run through TREAT to get the Savings to Investment Ratio (SIR) for each task.
 2. All improvement SIRs must meet the levels as set forth in the North Dakota Weatherization Field Standards and State Policy before they can be performed.
 3. The project documentation is sent to the DOE Project Officer for approval before any work is started.
 4. The eligible improvements, as recommended by TREAT, are sent to the local Community Action agency for the weatherization process.
 5. All the improvements must be installed in accordance with the North Dakota Standard Work Specifications and Field Guide.
 4. All multi-family projects must have a final inspection done by a certified multi-family inspector before the state does a final inspection.

2.05.1 Landlord Obligations

1. Under North Dakota law, landlords have the following obligations to the renter and rental units:
 1. Comply with the requirements of building and housing codes relating to health and safety.
 2. Arrange for or make all repairs and do whatever is necessary to put and keep the premises in a fit and habitable condition. The tenant must give the landlord reason-able notice and a reasonable amount of time in which to make repairs. (The definition of reasonable very often depends on the needed repair.)
 3. Keep all common areas in a clean and safe condition.
 4. Maintain in good, safe working order and condition all electrical, plumbing, sanitary, heating, ventilating, air conditioning systems, other facilities, and appliances, including elevators, supplied or required to be supplied by the landlord.
 5. Provide and maintain appropriate receptacles and conveniences for the removal of ashes, garbage, rubbish, and other waste incidental to the occupancy of the dwelling unit and arrange for their removal.
 6. Provide smoke detectors in each unit.
 7. Provide running water and reasonable amounts of hot water and heat.
2. Sub-grantees must assure that a landlord has met his/her obligation under North Dakota law before weatherizing rental property which they own.

2.05.2 North Dakota Weatherization Assistance Program Rental Agreement

Before a rental unit can be weatherized, the landlord and the eligible tenant must agree to and sign the North Dakota Weatherization Assistance Program Rental Agreement (see attachment).

At the time the agreement is executed, sub-grantees must inform the eligible tenant that in the event the landlord violates the weatherization agreement, they should notify the sub-grantees office so the appropriate action can be taken against the landlord.

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

Describe the deferral Process

Refer to the ND 2018 DOE Policies and Procedures Manual - Section 500.70

V.1.3 Definition of Children

Definition of children (below age): **18**

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.

Tribal Allocation

-

DOE funded weatherization activities will also be made available to all eligible Native American households residing on reservations within the State. The CAAs will be allowed to weatherize any eligible residence located within the boundaries of the Spirit Lake Sioux, Standing Rock, Turtle Mountain and Fort Berthold (Three Affiliated Tribes) Reservations. Grant agreements with the sub-grantees specify the minimum amount of WAP funds to be available for expenditure for the weatherization of Native American households within the boundaries of each tribal jurisdiction served by North Dakota's WAP program.

Minimum WAP funding levels allocated for tribal weatherization services on each reservation and to be distributed to North Dakota's sub-grantee agencies are as follows:

Percent of ND WAP: 7.2%

Distribution of Tribal Weatherization Funds to Sub-grantees:

Sub-grantee Tribal Jurisdiction Percent of Tribal WAP/PVE

Community Action (Region II) Ft. Berthold 20.63

Dakota Prairie CAA (Region III) Spirit Lake 21.78

Turtle Mountain 39.05

Community Action (Region VII) Standing Rock 18.54

Although tribal households represent a small percentage of the state's low income population, a large proportion of tribal residents qualify for weatherization and many of the housing units within these tribal jurisdictions are in poor condition. Should the need arise, the State of North Dakota will permit sub-grantees to exceed the minimum allocation levels for each tribal jurisdiction, as specified above, in order to have a greater impact on energy use and housing conditions on the reservations.

However, if after soliciting weatherization applications, the sub-grantee finds that there are insufficient applications to fully utilize the tribal allocation, the sub-grantee may utilize the funds to serve clients off the reservation.

During the program year, the majority of labor for installing weatherization materials will be supplied by CAA weatherization crews. Contract labor will be used the event of furnace retrofit or replacement and to a limited extent for other weatherization labor.

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

V.2 Selection of Areas to Be Served

Sub-grantee Service Areas

North Dakota's fifty-three counties are grouped into eight regions for the purposes of the Weatherization Assistance Program. The regions correspond with the jurisdictions of the seven (7) community action agencies (CAAs), which conduct weatherization activities on the local level (See attachment). Weatherization services for Regions I and VIII are provided by the Regional VIII CAA.

The Weatherization Assistance Program has been conducted by North Dakota's CAAs since 1977. Each of the seven agencies has demonstrated its ability to complete the work assigned in a timely and effective manner. The crew members, estimators, and coordinators currently in place possess considerable experience and training in the theory and methods of effective home weatherization. The agencies are checked for debarment before the start of each grant. The State also checks the latest audit to see if there are concerns or findings to be aware of.

DOE funded weatherization activities will also be made available to all eligible Native American households residing on reservations within the State. The CAAs will be allowed to weatherize any eligible residence located within the boundaries of the Spirit Lake Sioux, Standing Rock, Turtle Mountain and Fort Berthold (Three Affiliated Tribes) Reservations. Grant agreements with the sub-grantees specify the minimum amount of WAP funds to be available for expenditure for the weatherization of Native American households within the boundaries of each tribal jurisdiction served by North Dakota's WAP program. The minimum amount allocated for all reservations in the State is determined based upon the percentage of the State's low income households residing within the reservation boundaries (8.39% according to the 2010 Census data).

Minimum WAP funding levels allocated for tribal weatherization services on each reservation and to be distributed to North Dakota's sub-grantee agencies are as follows:

Percent of ND WAP/PVE: 7.2%		
Distribution of Tribal Weatherization Funds to Sub-grantees:		
Sub-grantee	Tribal Jurisdiction	Percent of Tribal WAP/PVE
Community Action (Region II)	Ft. Berthold	20.63
	Spirit Lake	21.78
Dakota Prairie CAA (Region III)	Turtle Mountain	39.05
	Standing Rock	18.54

Although tribal households represent a small percentage of the state's low income population, a large proportion of tribal residents qualify for weatherization and many of the housing units within these tribal jurisdictions are in poor condition. The State of North Dakota will permit sub-grantees to exceed the minimum service levels for each tribal jurisdiction, as specified above, in order to have a greater impact on energy use and housing conditions on the reservations. Should an agency be unable to expend the amount allocated for tribal weatherization, they may request permission from DOC to utilize the funds for non-tribal weatherization purposes.

During the program year, the majority of labor for installing weatherization materials will be supplied by CAA weatherization crews. Contract labor will be used the event of furnace retrofit or replacement and to a limited extent for other weatherization labor.

The Grantee reserves the right to change the regional boundaries and the funding to go with the change in the event of changes in eligible population and available applications.

North Dakota has added new language in the agreements and contracts to reflect the requirements of WPN 15-4 Section 2. We have also developed a system for verifying receipt of any new information that is given to the sub-grantees.

The Grantee may use a Request For Proposal to administer the Weatherization Assistance Program in certain regions now served by a Community Action Agency. This may be to consolidate services in case of a change in funding or if it is determined through monitoring and risk analysis that an agency is not serving the population of the region as required by the Grantee and the funding source. Existing ND Community Action Agencies who have demonstrated the ability to administer the program will be given preference in the process.

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

V.3 Priorities

Client Prioritization

From the 2019 ND DOE Weatherization Policies and Procedures Manual

SUBJECT: Client Prioritization

DATE: April 2017

POLICY/GUIDANCE NUMBER: 500.12

PROGRAM: DOE

Priority for Providing Weatherization Services

POLICY: In accordance with 10 CFR 440.16, priority must be given in identifying and providing weatherization assistance to households where one or more of the following exist:

1. High energy usage
2. High energy burden
3. Elderly household member(s) (60 years or over)
4. Disabled household member(s)
5. Household member(s) under the age of 18

Households who do not meet at least one of the priority categories may only be served if all eligible priority households in the Service Provider's territory have been served.

Within the above listed priority, Service Providers may choose the order in which households are served. Priority systems must be applied equally to both renter and owner occupied dwellings and applied equitably to all areas of the Service Provider's territory.

Service Providers may choose to consider using the oldest application approval date for positioning applicants with priority points. An application with at least one priority point may be moved up on the list when working in the same area to save travel time.

V.4 Type of Weatherization Work to Be Done

V.4.1 Technical Guides and Materials

Typical Weatherization Services Provided

Each household is visited by an energy auditor who after conducting an energy audit determines which conservation measures will be most effective for this specific unit. There are 10 general categories of energy conservation measures from which the auditor may choose based upon their ability to save energy. The actual conservation measures installed on a specific unit is dependent upon the potential energy savings, the cost of material, the life of the measure, and the labor needed to install the measure. All measures must have a target savings to investment ratio of 1 or greater (\$1.00 return for each \$1.00 invested). Energy auditors are given the flexibility on a case by case basis to allow the installation of a conservation measure having a SIR below the target of 1.5 but above a minimum SIR of 1.

All work is being performed in accordance to the DOE-approved energy audit procedures and 10 CFR 440 Appendix A.

Residential site built, mobile homes and multi-family structures will be addressed.

Typical weatherization measures are:

1. General Heat Waste: Measures that reduce air infiltration and heat loss in the home. This typically includes caulking and weather stripping which in recent

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

years has been guided by the use of advanced blower door guided air sealing and the use of infrared cameras.

2. Attic Insulation: Insulation is installed to bring the attic up to an R-60 for electrically heated homes and R-50 for all other fuels.
3. Wall Insulation: Wall insulation is installed where needed by a variety of methods to access wall cavities.
4. Floor Insulation: Floor insulation is installed in floors over unheated basements or crawlspace and in mobile home bellies.
5. Perimeter Insulation: The insulation of the interior or exterior of the foundation depending upon existing conditions.
6. Windows: The installation replacement windows or a series of window treatments that prevent or mitigate heat loss. These include the installation of window films and storm windows.
7. Doors: The installation of a series of door treatments to reduce heat loss including repair and replacement.
8. Furnace Efficiency Measures: Includes testing of heating systems for efficiency and safety purposes. Repair and/or replacement is allowed based on energy efficiency and savings to an investment ratio.
9. Electric Baseload Measures: Includes replacement of existing lighting with energy efficient lighting and replacement of high usage refrigerators with new energy efficient models.
10. Building Repair: This measure includes a variety of repairs to the house structure which are necessary to protect the integrity of eligible weatherization measures.

The Standard Work Specifications (SWS) and Field Guide documents (Single family and Manufactured Home) have been approved by DOE along with several variance requests that have been incorporated into the document. The SWS will also be incorporated into all work orders. Here is a link to our webpage that contains the documents <https://www.communityservices.nd.gov/lowincomeprograms/weatherizationassistance/CAPInformationandForms/>.

All work will be meet the guidelines set forth in the ND Standard Work Specifications and Field Guide documents and the ND 2019 DOE Policies and Procedures Manual. All contracts with the sub-grantees will contain language requiring them to follow these guidelines and to require any of their contractors to follow the guidelines.. The documents are available at all times through our online audit and reporting software (WxPro). A copy of the terms and conditions that the sub-grantees sign is attached.

We will be submitting our multi-family SWS and Field Guide for approval within the next couple months. The state staff and several agency QCI inspectors have passed a multi-family inspection course.

Field guide types approval dates

Single-Family:
Manufactured Housing:
Multi-Family:

V.4.2 Energy Audit Procedures

Audit Procedures and Dates Most Recently Approved by DOE

Audit Procedure: Single-Family
Audit Name: WxPRO (North Dakota & Nevada)
Approval Date:

Audit Procedure: Manufactured Housing
Audit Name: WxPRO (North Dakota & Nevada)
Approval Date:

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

Comments

Energy Audit Procedures
North Dakota's weatherization program emphasizes cost effectiveness in selecting measures to reduce general heat waste, conductive heat loss, electric

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

baseload and mechanical systems inefficiencies.

Each weatherization measure to be installed must have a savings to investment ratio (SIR) equal to or greater than 1 in order to be included as a priority. Energy auditors are given the flexibility on a case by case basis to exclude the installation of a conservation measure having a SIR below 1.5. All measures having a 1.5 or greater are required. Repair materials will only be allowed, if when included in the calculation of the SIR for all weatherization measures installed (to include repairs materials), is greater than one for the unit as a whole.

General heat waste and air infiltration are addressed in every weatherized dwelling. Blower door tests will be conducted on each weatherized home, unless weather conditions or health and safety concerns, such as extreme cold or high wind preclude safe and accurate testing. The blower door tests will be conducted by weatherization crews using the "North Dakota's Standard Blower Door Procedures." This is determined by using the Cost Effective Guideline procedure as outlined in the Field Standards.

The weatherization crews employ a top down approach to sealing air leaks. The crews first work within the attic, sealing chase ways and bypasses around chimneys, soil pipe, soffits and other openings into the attic space. Attention is then focused on interior caulking of infiltration through doors, windows, attic hatches, and around the rim joist. Occasionally, inside storm windows, composed of rigid acrylic or plastic film, are applied as an economical means of combating infiltration through unusually leaky windows.

Conductive, electric baseload, and mechanical measures are prioritized using the state approved computerized audit package. The state approved audit is an integrated estimation program which prioritizes weatherization materials to be installed on either site built or mobile homes based on the calculated cost effectiveness (discounted SIR > 1) of those materials when installed on that specific unit. The program is completely self contained and requires no additional manual computations. The State of North Dakota submitted the WXEOR Program to the DOE Support Office and it was approved as a waiver audit for use in the Weatherization Assistance Program in 2008. In 2012 the audit was combined with the state reporting system and is now called WxPro.

The equation utilized to calculate the savings to investment ratio for a conductive heatloss measure is:

$$(1 \times ((1 - \text{discount rate})^{\# \text{years}})) \times ((\text{HDD} \times 16 \times (\text{Unit Price} \times \text{Esc. Rate})) \div (\text{BTUs} \times \text{AFUE}) \times (\text{Area} \times \text{Delta U}) \times \text{Buffer})$$

Where:

Discount Rate = 3% per year and updated yearly to current rate

years = Number of years for measure to payback

2DD = Heating degree days for specific Region of the State

16 = Correction factor to allow for internal heat gain from occupants, solar, etc.

Unit Price = Cost per unit of heating fuel

Esc. Rate = Fuel cost escalation rate as provided by DOE – updated yearly.

BTUs = 100% efficient BTU content of fuel

AFUE = Annual fuel utilization efficiency

Area = Net area affected by measure in square feet

Delta U = (1/Pre R-Value)-(1/Post R-Value)

Buffer = Buffer correction factor to account for differences in exposure as provided by ASHRAE

The equation utilized to calculate the savings to investment ratio for a refrigerator replacement is:

$$((((\text{KWH Per Year of existing model} \times (1 + ((\text{Average Ambient Temperature} - \text{Present Ambient Temperature}) \times 0.025)))) - (\text{KWH Per Year of new model} \times (1 + ((\text{Average Ambient Temperature} - 70) \times 0.025)))) \times (\text{Cost Per KWH} \times \text{Esc. Rate})) \times (\text{Lifetime} \times \text{Discount Rate})) / \text{Total Cost}$$

The equation utilized to calculate the savings to investment ratio for lighting replacement is:

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

$$(((\text{Existing Watts} - \text{Replacement Watts}) * \text{Qty of Bulbs} * \text{Hrs on per day} * 365 / 1000 * (\text{Cost per KWH} * \text{Esc. Rate}))) * (\text{Lifetime} * \text{Discount Rate}) / \text{Total Cost}$$

The equations yield a dollar amount saved during the first year after each measure is in-stalled. The first year savings is then discounted at a rate of 3% per year over the life of the measure to yield the total savings to be realized for that measure. The amount saved is further adjusted through the application of a fuel escalation cost factor applied over the life of the measure to account future price increases in the cost of the heating fuel use by that particular unit.

Once the adjusted savings is calculated, the savings to investment ratio is then generated by dividing the adjusted savings by the cost of materials and labor to install the measure. (the state approved audit figures labor on a square foot installed cost and adds this to the material cost for purposes of this calculation). Each sub-grantee is allowed the flexibility to input their own agency costs for materials and labor and heating degree days so that the calculations are customized to their specific agency.

After the savings to investment ratio is calculated for each measure they are then ranked in order by the state approved audit (highest SIR to lowest SIR). The Weatherization crews will install measures based on their ranking (prioritization) and may only deviate from the ranking with prior approval of the State Weatherization Program Manager.

WxPro also accounts for the interaction of mechanical and conductive weatherization measures and is able to produce a SIR on a heating system replacement or retrofit. The SIR for mechanical measures can be calculated with or without conductive heat loss measures installed and estimate future heating costs when historical fuel usage data is supplied.

In addition to the calculation of the SIR, WxPro also generates the number of BTUs saved per heating degree day for use in future evaluations of the Weatherization Program.

The replacement of furnaces in conventional homes will be permitted based upon a determination that:

1. The existing furnace will not last at least five years;
2. That the existing system cannot be retrofitted for \$500 or less; and
3. The SIR for the replacement system and associated costs is 1 or greater.

The documentation to support furnace replacement must include fuel consumption records for the prior year, existing furnace efficiency test results (if the system is operable) and an analysis of the potential savings and payback associated with the replacement.

The WxPro audit was approved by DOE in November of 2014. The approval letter is attached.

TREAT (Targeted Retrofit Energy Analysis Tool) is an innovative software designed to provide support for weatherization programs, building performance contractors and energy auditors. It is a comprehensive energy analysis tool that allows weatherization programs to provide new sources of value to their customers, with increased program efficiency.

TREAT's analysis tools allow Contractors and Home Energy Auditors to:

1. Obtain quick and accurate results
2. Calculate energy savings for individual improvements or assemble improvements in interactive packages
3. Create models quickly and easily with building component libraries
4. Select Improvements from Libraries
5. Aggregate improvements into packages
6. Automatically calculates payback and SIR

The New York State Energy Research and Development Authority has funded the TREAT software project as part of their Building Performance Market Enhancement Initiative. It integrates fuel bill analysis, weather data and building modeling information into a database environment. It allows energy efficiency programs to cost-effectively track the savings of buildings they "treat," relative to the savings that they predict for those buildings, and is designed to support the use of Total Quality Management techniques.

It is the first to integrate room-by-room heat loss analysis with a state-of-the-art hourly energy model (developed by the United States Department of Energy National Renewable Energy Lab, NREL). By combining these two tools, the ability of contractors to provide customers with "whole house" energy savings packages is increased. It is also approved by US DOE for use in Weatherization Assistance Programs.

TREAT addresses health and safety issues that impact the quality of life of customers and can therefore be significant sales motivators for contractors. TREAT software includes an extensive built-in library of building components for quick selection of existing and improved building components.

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

TREAT also allows users to calculate existing electrical energy consumption resulting from appliances and lighting and select replacements. ENERGY STAR® lighting and appliances are highlighted in the component libraries.

North Dakota will be submitting the required materials for the audit approval by April 1st, 2019 to meet the requirement of the approval every 5 years.

V.4.3 Final Inspection

See the attached ND 2019 DOE Policies and Procedures Manual - Section 600.60 - 600.62

At this time ND has 15 agency people QCI certified. The state staff is QCI certified. We have one contractor available to contract with any agencies that need it. The Grand Forks agency has 2 people certified and they have a for-profit business that will contract with any agencies needing the service. We will continue to have people take the training and testing to get as many people certified as possible.

We are asking to use the third option in the Quality Work Plan that allows a different method for using the Quality Control Inspector. We feel this plan will continue to assure quality work while reducing expenses and reducing time required for turning in completed jobs. Our sub-grantees have large regions with a lot of travel involved. By allowing a Quality Control Inspector to do the final inspection even when that Inspector worked on the job, we will save extra travel and expenses. We would still require at least one third of the jobs be inspected by someone who did not work on the job. All jobs would be inspected by a certified Quality Control Inspector. We have used this method in our LIHEAP Weatherization for years and have seen no reduction in quality. We would increase the monitoring by the State to 30% of jobs in those cases where this method is approved. We also would reserve the right to require a different method if we find problems when we monitor.

V.5 Weatherization Analysis of Effectiveness

Analysis of Effectiveness

In 1993, the State of North Dakota completed an evaluation of its weatherization efforts, focusing on energy savings and program delivery during the years 1989-1991. North Dakota's evaluation analyzed energy consumption and energy savings in terms of housing type, household type and measures applied. The analysis provided insights into the effectiveness of the program in targeting clients and selecting weatherization measures.

The personnel of the Grantee are constantly looking for ways to improve the program by attending trainings and making upgrades to the state's online software to better track efficiency and production in the local agencies. We are also in contact with other Grantees to see what is working well in other states and offering advice on what is working well in North Dakota.

North Dakota's weatherization program is subjected to regular monitoring by the State and its sub-grantees. Sub-grantees are required to inspect 100% of the work completed and maintain control over expenditures in accordance with federal financial management guidelines and generally accepted accounting procedures. Sub-grantees also submit monthly reports providing detailed information on production and expenditures. The sub-grantee reports are consolidated into a monthly program summary which includes:

1. A production summary that breaks out the number of dwelling units weatherized, and the number of persons served among major ethnic groups, elderly and the handicapped; and
2. A breakdown of expenditures for administration, materials, program support, labor, financial audit and general liability insurance.

The monthly summary tables permit direct comparison of planned versus actual performance for each sub-grantee and comparison between agencies on production. We use this comparison to determine if more oversight or training is needed. This comparison has recently shown one agency not reaching production goals and not performing as well as most of the others. We developed a plan that included training and has resulted in better performance at the agency. See more on this in section V.8.3 Monitoring.

Because of the size differences in the sub-grantees staff and the large differences in types of housing encountered, we do not try to track energy savings between the sub-grantees. If they are meeting production goals, it is assumed they are doing the best job possible to save energy for the clients. We can assume this because they all follow the same set of guidelines and because of the rigorous final inspection and monitoring process. We will look at the evaluations that are set to come out later this year to see if any changes need to be addressed.

Monitoring visits provide a second level of weatherization program analysis. Each sub-grantee is monitored at least once annually by DOC staff or a contract monitor. The monitoring effort focuses on accountability and technical proficiency. Sub-grantee records, client files, and invoices are checked for consistency and compliance. At least five percent of the housing units completed under the DOE Weatherization Assistance Program are physically inspected by the State's Residential Energy Technical Specialist. Job orders and invoices are cross-checked with the measures that have been applied to the client's home. The inspector evaluates the workmanship and techniques employed by weatherization crews; focusing on compliance with weatherization priorities and the quality of work. Previous performance reviews are looked at before monitoring to make sure problems encountered before have been addressed. Any finding in a review must be checked on in the next monitoring visit.

We have had no Sub-grantees that have had a significant number of failed inspections because of the rigorous final inspection process we require. During the monitoring visits we always stress the importance of the inspection process at the home and the value of a thorough desk monitoring process. Since beginning this process, we generally have very few

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

findings during our monitoring visits. When we do see something we make sure it is discussed at length with the Sub-grantee to prevent reoccurrence.

We have seen very few issues with the management, financial, and technical systems during monitoring. When problems have occurred the Sub-grantees have been quick to put any recommendations or requirements we have made in place. We are sponsoring on-going training for all our fiscal staff and local agency staff on the new OMB requirements that will go into effect later this year.

We have not done specific market analysis on measure costs, but our software and audit use real time costs for the materials and labor. These costs are checked during monitoring. Sub-grantees are required to use fair procurement practices and document efforts to get the best prices available for the material they are using. Labor costs are updated in the program anytime someone's rate of pay changes or when new employees are added. The labor allowed in the measures comes from a two year long labor study on how long each measure should normally take. The Sub-grantees are given a range to use in the audit that was determined by the study (see Final Condensed Labor Study attachment). This information is checked on the work orders for the jobs we monitor.

V.6 Health and Safety

See 2019 Health and Safety Policy attachment.

North Dakota does not allow air conditioning repair or replacement with DOE funds. The LIHEAP Emergency Furnace Repair and Replacement grant has funds for cooling repair or replacement for at risk clients. These clients simply have to be income eligible and do not have to be LIHEAP clients. If under age 60, doctor's recommendation is required.

V.7 Program Management

V.7.1 Overview and Organization

Program Management

2.06.1 Overview - Organization

The following is a description of the background, structure, functions and programs of the Division of Community Services (DOC). Following these descriptions is a brief discussion of issues surrounding the programs administered by the office.

2.06.1.1 Background

The Department of Commerce's Division of Community Services has evolved since 1979 when it was first established as the Federal Aid Coordinator's Office. While the office has existed as part of a number of State agencies during this time, the functions of the office have remained relatively constant. They are:

1. Administration consisting of fiscal and clerical support;
1. Energy Conservation Programs;
1. Low Income Assistance Programs;
1. Community Development consisting of the CDBG Program; and
1. Governmental Assistance which provides assistance and analysis services to the Governor's Office; performs some of the remaining functions of the Planning Division; and provides administrative support to the Director of the DOC.

The attached organizational chart shows the current structure of the DOC. The fifty-second Legislative Assembly approved the additional function within the Office of Building Code/Americans with Disabilities Act Implementation.

Eighty-two percent of the office's 2017-2019 budget is Federal and other funds subject to Federal and other judicially imposed regulations. It is necessary that, in addition to the programmatic functions, the office maintain a fiscal support function to track and account for the numerous grants and sources of funds.

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

Exhibit 2

North Dakota Community Action Agencies

-
-

REGION II

Willy Soderholm

Community Action Partnership - Minot Region.

2020 8th Ave SE

Minot, ND 58701

REGION III

Perry Lundon

Dakota Prairie Community Action Agency

223 4th St. NE

Devils Lake, ND 58301

REGION IV

Kent Keys

Red River Valley Community Action

1013 North 5th Street

Grand Forks, ND 58203

REGION V

James Kappel

Southeastern ND Community Action Agency

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

3233 South University

PO Box 2683

Fargo, ND 58108

REGION VI

Kathy Williams

Community Action Region VI, Inc.

1311 12th Ave. NE

PO Box 507

Jamestown, ND 58402

REGION VII

Andrea Werner

Community Action Program Region VII, Inc.

2105 Lee Avenue

Bismarck, ND 58504

REGION VIII

Erv Bren

Community Action Partnership

202 East Villard

Dickinson, ND 58601

BRANCH OFFICE

Community Action & Development Program

316 2nd Avenue West

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

Williston, ND 58801

Name

Type of Organization

Typical

Allocation

Average Annual # Units Completed

Congressional District

REGION II

Private Non-Profit

10 -15.%

102

1

REGION III

Private Non-Profit

5 - 10%

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

	110
	1
REGION IV	
Private Non-Profit	
	10 – 15%
	97
	1
REGION V	
Private Non-Profit	
	15 -20.0%
	114
	1
REGION VI	
Private Non-Profit	
	10 – 15%

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

103

1

REGION VII

Private Non-Profit

15 – 20%

121

1

REGION VIII

Private Non-Profit

15 – 20%

104

1

2.06.1.2 Programmatic Functional Areas

The current activities of the DOC focus upon the functional areas of Community Development, Energy Conservation, Low Income Assistance, and Governmental Assistance. The following are brief summaries of the activities associated with each area:

Community Development: The Federal Community Development Block Grant (CDBG) Program is the focus of DOC's community development activities. The CDBG program provides financial assistance to eligible cities and counties in the form of grants and loans for Public Facility projects, Housing Rehabilitation

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

projects, and Economic Development projects. These projects must be of benefit to low and moderate income households.

Energy Conservation: The energy conservation activities of DOC encompass the federally funded State Energy Program (SEP), the North Dakota State University Extension Service, the Energy Conservation Grant for Public Buildings, and Oil Overcharge Restitution programs. Within these programs, energy conservation assistance is provided in the form of workshops, publications, and information to the general public; grants to schools, hospitals, nursing homes, local governments, small businesses, and state institutions for energy conservation improvements; and outreach programs to residential consumers and small businesses.

Low Income Assistance: The low income assistance activities within DOC center around the Federal Weatherization Assistance and the Community Services Block Grant (CSBG) programs. The Weatherization Program provides low income households with assistance through the purchase and installation of weatherization measures such as insulation, caulking, weather-stripping, and furnace repairs. The CSBG program provides, through the state's seven Community Action Agencies (CAAs), emergency assistance, outreach, and budget and housing counseling to low income households. Clients can also participate in the Self Reliance Program to increase social and economic self sufficiency.

Governmental Assistance: Governmental Assistance services consist of research and analysis services to the Governors' office and the Director of the Office of Management and Budget; the collection and maintenance of statewide Energy Supply and Consumption Data; the Census Data Center Program; the review and comment on federal funding and development applications; and technical assistance to units of local government.

-

Building Code/Americans with Disabilities Act (ADA): The Building Code/ADA activities within DOC include planning, directing, and managing the implementation, education and compliance of all State and Local Government Facilities, and public accommodations with the Handicapped Accessibility requirements of the Americans with Disabilities Act. This section is also charged with the administration of the State Building Code and with the preparation and maintenance of a Comprehensive Housing Affordability Strategy (CHAS) which governs the use of eleven (11) major Federal Housing Programs administered within DOC and other state and local agencies statewide.

See DCS Organizational Chart attachment.

V.7.2 Administrative Expenditure Limits

Administrative Expenditure Limits

The State of North Dakota and its sub-grantees will not use more than 10% of any Weatherization Assistance grant for administrative purposes. Eight percent of the available administrative funds will be allocated between sub-grantees based on their prorated share of the grant. The remaining two percent will be used by the state.

V.7.3 Monitoring Activities

Monitoring Approach

2.06.3.1 Overview

The Department of Commerce Division of Community Services continually monitors Weatherization Program sub-grantees both in-house and onsite. Monitoring is under-taken to evaluate sub-grantee compliance with required fiscal procedures, performance goals, and weatherization priorities and to observe the quality of work performed by weatherization crews, identify specific problems and instigate corrective action. The monitoring of Weatherization Sub-grantees is the principal method by which DCS identifies areas for potential improvement in the areas of program operation and administration. The monitoring approach is viewed as an occasion for providing assistance to Weatherization Agencies to assist them in becoming more efficient and effective when delivering services. Up

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

to 25% of T & TA funds will be used for monitoring activities.

Program monitoring focuses primarily upon sub-grantee management procedures such as records management, reporting methods, inspection, procurement and production. The Sub-grantees monitoring program is comprised of three elements: fiscal control, program review, and technical inspection. See section 600.60 - 600.62 of the ND 2019 DOE Policies and Procedures Manual for more information on the monitoring process and the use of Quality Control Inspectors.

Fiscal control is accomplished through the analysis of the monthly reports submitted by each sub-grantee. The monthly reports are consolidated into a monthly weatherization program summary, which provides monthly and cumulative financial and production data for each sub-grantee. In addition, financial personnel from the DCS will conduct on-site fiscal reviews of each sub-grantee during the program year. The fiscal review focuses upon compliance with federal financial management guidelines and agency fiscal policies and procedures.

Technical inspections will consist of the State Program Manager or Program Administrator visiting at least 5% of the weatherized units at each agency for the purpose of monitoring compliance with the North Dakota Standard Work Specifications and Field Guide. But while their first priority is to insure compliance with the Standards, their observations of current techniques being utilized in the field is viewed as an opportunity to train and educate crews on alternative approaches to weatherization. Where common deficiencies are noted at a number of Agencies, statewide trainings are planned.

The Program Manager also reviews the administration and record keeping in the same manner; first reviewing for program compliance while always looking for areas where the Agency may reduce the time and cost of program administration. As a result client files have become more complete, many forms have been standardized, bulk purchasing has been implemented and the quality continues to improve.

The state has incorporated all aspects of "*Grantee Monitoring of Subgrantees*" section of WPN 12-05" in its monitoring forms. These forms have been designed by incorporating the DOE State review form and WPN 12-05 information and can be found in the attachments under the SF-424. These forms include the following

1. 2019 North Dakota Agency Monitoring Instrument
2. ND QCI Final Inspection Form
3. 2019 Financial Monitoring Form
4. CAA Risk Assessment Form
5. North Dakota Desk review form

2.06.3.2 Monitoring Areas

- a. **Audit** - An annual audit, as required by contract agreement, shall be monitored by DCS to verify information received on quarterly reports and clarify questions raised by DCS, the sub-grantee and/or the auditor.
- b. **In-House** - All quarterly reports shall be monitored by DCS to determine compliance with program requirements, monitor spending patterns and chart program progress. Any irregularities or questions raised by the in-house review will be sufficient reasons to schedule an on-site review.
- c. **On-Site Review** - DCS will conduct an on-site review on an annual basis and when deemed necessary. The on-site review shall consist of programmatic and technical staff from DCS. The following items at a minimum shall be reviewed.
 - **Financial Records** - Fiscal control is accomplished through the analysis of the monthly reports submitted by each sub-grantee. The monthly reports are consolidated into a monthly weatherization program summary, which provides monthly and cumulative financial and production data for each of sub-grantee. In addition, financial personnel from the DOC will conduct on-site fiscal reviews of each sub-grantee during the program year. The fiscal review focuses upon compliance with federal financial management guidelines and agency fiscal policies and procedures to include but not limited to: general ledger, bank statements, checks, audit reports, financial statements and other records necessary for their view of the financial records.
 - **Inventory System** - Including but not limited to purchasing system, controls, perpetual inventory, financial records and other records deemed necessary by the reviewer.
 - **Client Files** - For accuracy, completeness, demographic information and proper reflections of work needed/work completed, client eligibility and inspection of work.
 - **Work Completed** - Homes shall be reviewed to determine: quality of work, completeness of work, conservation measures installed follow a computerized methodology to determine cost effectiveness, geographic distribution, and proper documentation in client files, client satisfaction and other information deemed necessary by the reviewer.
- d. **Sub-grantee Post-Installation Inspection** - Each weatherized unit must be inspected by the sub-grantee to ensure that the work is in compliance with required specifications before the unit is reported to DCS as completed. A complete inspection, signed by the sub-grantee's inspector shall be placed in each

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

job file.

e. **Sub-grantee Review** - A copy of individual sub-grantee reviews shall be sent to each sub-grantee upon the completion of the review. If deficiencies in agency program operations indicate non-compliance with the North Dakota Weatherization Program Policies and Procedures, the North Dakota Standard Work Specifications and Field Guide or the federal rules and regulations, DCS will respond by working with the deficient sub-grantee to correct deficiencies and taking the action deemed necessary to insure future compliance.

f. **Provide Training and Technical Assistance** - T&TA activities are intended to maintain or increase the efficiency, quality, and effectiveness of the Weatherization Assistance Program at all levels. Such activities should be designed to maximize energy savings, minimize production cost, improve program management, and/or reduce the potential for waste, fraud and abuse.

-

2.06.3.3 Monitoring Goals and Procedures

1. At least 5% of the dwelling units completed during immediate preceding program year will be inspected by the Division of Community Services personnel or a contract monitor. 10% of homes that were inspected by the auditor will be monitored and 30% of the homes inspected by someone who worked on the job will be monitored. At the time of the annual program review, a random sample of recent completions will be selected for inspection by the DOC monitor. This will consist of both file review and physical inspection.
- b. The physical inspection will address the quality of materials and their installation. The inspector will obtain information on the type of materials used on homes subject to inspection, and compare specifications with those listed in CFR 440, Appendix A.
- c. The program and fiscal monitoring process will include an analysis of materials and contractor procurement procedures. Material costs for commonly used items will be obtained from the agency and compared with the prices paid by other sub-grantees. Procurement records will be reviewed to determine if materials were purchased in reasonable quantities and if free and open competition was permitted in the procurement of materials and services.
- d. The State Program Manager or Program Administrator will compare work orders with audit priority lists to determine if the lists are used and, where deviations from the priorities were observed, there is adequate written justification. The final inspections performed by sub-grantees will be cross checked by the State Program Manager or Program Administrator. Oversights will be noted in the inspection report and appropriate follow-up actions will be required.

The inspection procedure for each home will evaluate compliance with the North Dakota Weatherization Standard Work Specifications and Field Guide, the computerized audit priority list and quality of work. The State Program Manager or Program Administrator will review each client file for content of required documentation, including an approved application, job order, inspection form and purchase orders or warehouse slips for the materials applied. A physical inspection of the unit is then conducted. The inspection will follow an inspection checklist. Discrepancies or deficiencies will be recorded on the checklist. The physical inspection consists of visual examination of the exterior and interior of each dwelling to confirm the presence of materials as listed on the job order and assess the quality of workmanship. The inspector will determine if compatible caulking and weather-stripping is used and if all materials conform to the field standard requirements. Normally the State Program Manager or Program Administrator will be accompanied at on-site visits by a representative of the sub-grantee, usually the weatherization coordinator or an estimator. Any findings and recommendations for improvement will be discussed with the sub-grantee on site, during a meeting with the weatherization employees, during an exit interview with the agency director and in writing as part of the monitoring report. Fiscal or programmatic deficiencies identified in the monitoring process will be address in the following manner:

1. The Grantee will issue a report within 30 days to the sub-grantee in which the sub-grantee will be informed of any deficiencies. If there are deficiencies, the monitoring report will contain specific recommendations for improvement.
1. A written response will be required from the sub-grantee within 30 days of receiving the monitoring report. The response must include a Corrective Action Plan to address any findings documented in the monitoring report.
- c. A follow-up of the sub-grantee's effort to implement recommendations will be conducted within a prescribed period of time.
- d. Training sessions will be conducted to resolve shortcomings that are apparently widespread among sub-grantees.
- e. Ineligible expenditures of material, program support or administrative funds will be disallowed. The sub-grantee will be required to reimburse disallowed costs from non-federal funds.
- f. If remedial measures fail to eliminate significant fiscal or programmatic problems, the Division of Community Services has several options. Please refer to Section 600.60-600.62 of the 2019 Policies and Procedures attachment.

Currently, we have one agency on High Risk. They were previously on probation. The recent file, field, and admin monitoring showed improvement however

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

there are some findings in the fiscal monitoring. Those findings have finally been addressed. There had also been improvement in production numbers but several staff have left the program. They have also been findings by HHS that are still under investigation. We are monitoring the situation closely. They are on reimbursement status for cash requests. We will continue to keep the DOE Project Officer and Program Manager informed.

V.7.4 Training and Technical Assistance Approach and Activities

Training and Technical Assistance Approach

The sub-grantees will be required to submit new T&Ta budget plans for their T&Ta allocation. Up to 25% of Grantee T&TA funds can be used for monitoring the Sub-Grantees.

Training needs are determined by a review of program monitoring reports and by observations made by the Program Manager, Program Administrator, recommendations from the State Weatherization Technical Committee as well as from input from local coordinators, estimators and crew members. Training needs will also be determined by DOE program requirements. North Dakota weatherization program sub-grantees are currently monitored for compliance to the North Dakota Standard Work Specifications and Field Guide and will continue to direct the bulk of their training activities towards the implementation and perfection of these standards.

In addition, the State Program Manager or Program Administrator will assist and visit agencies to deliver individualized training, depending on the needs of that agency. The needs will be determined by the monitoring process and requests from the coordinators, estimators and crews.

There will be continuing training on the ND SWS and Field Guide at the agency levels and with the State Weatherization Technical Committee.

The State does not require any certifications or training prior to hiring but may recommend trainings after hiring on a case by case basis.

Credentials are monitored by the State at the time of Administrative monitoring.

There will be a State Weatherization Training Conference in October at the CAPND conference. This will be a required training for all Wx staff. We are just beginning to put the conference together so there are no specifics at this time. Topics will include BPI 1200, radon, ASHRAE 62.2, financial management and other topics to be decided.

Sub-grantees will be authorized to use T&TA funds for the following activities:

1. Attendance at state and national training seminars.
2. Purchase of equipment needed for associated training approved by the DCS.
3. Continuing refinement of state and local weatherization data management systems.
4. Periodic meetings with DCS personnel.
5. Interagency visits and joint training exercises.
6. Trial application of new weatherization techniques or measures and the correction of any problems that may result during the trial of new weatherization techniques.
7. Dissemination of client education materials and website page references, as provided by DCS.
8. **Allowable training during the 2019 program year will cover:**
 1. Agency specific individualized training based on monitoring findings. The State Energy Specialist will visit each agency and spend time with the crew to give needed training and observe weatherization practices. Each agency will be visited at least once. Additional visits are possible if required.
 2. Training on changes to the North Dakota Weatherization Program Field Standards to align with the SWS.
 3. Software expenses are shared between Administration and T&TA. The energy audit software (WxPro) that calculates the SIR, develops a work order, and stores reporting information has been purchased by the state to be used in developing a comprehensive software package that will be used by both the state and local agencies. The state will have access to the data on-line and the agencies will have a fully operating package that will include inventory, SIR, Job Costing and reporting capabilities. We are in the process of updating the online software to a web-based program.
 4. Furnace training
 5. Injury prevention training – agency level.
 6. OSHA 10 hour courses - required for all crew members or foremen.

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

(Grant Number: EE0007940, State: ND, Program Year: 2019)

- 7. EPA RR&P certified renovator training -required for all crew members and foremen.
- 8. Hazard identification training.
 - 1. This would include, but not be limited to:
 - 1. Mold & moisture evaluation;
 - 2. Building structure conditions;
 - 3. Recognition of biological and unsanitary conditions;
 - 4. Recognition of vermiculite and asbestos;
 - 5. Indoor air pollutants, such as formaldehyde, radon, VOC's, etc.;
 - 6. Fire hazards;
 - 7. Electrical hazards;
- 9. Code compliance issues.
- 10. Occupant preexisting health conditions
- 11. Obtain/develop client education materials and program.
- 12. Trial application of new weatherization techniques or measures and the correction of any problems that may result during the trial of new weatherization techniques.
- 13. Weatherization Cost Effective Guideline air sealing and infiltration training.
- 14. Quality Control Inspector training and certification.
- 15. OSHA Confined space training
- 16. Multi-family inspection certification

Not all training outlined will be paid with DOE funds. We will be using LIHEAP funding to cover some of the training.

Comprehensive trainings will be done by IREC accredited trainers. Since we have no training center located within the state, North Dakota will work with training centers located out of state to provide comprehensive training tailored to the JTA for each position. Program year 2019 will be the third year of a three year plan in which every person in weatherization will receive comprehensive training. This training can consist of traveling to the training center, having trainers come to North Dakota from the training centers and distance learning programs. We have utilized the Montana Weatherization Training Center, the Building Performance Center in Washington, and New York State Weatherization Directors Association Energy Efficiency Training Center. We are also looking at online training from CHP or the Santa Fe Weatherization Training Center.

The Grantee will continue to attend trainings at national conferences and meetings (NASCS, Energy Outwest,) for training to ensure effectiveness in managing the program.

Client Education is covered by the subgrantees by the auditor at the time of the audit and during and at the completion of the work by the crews and final inspector. This includes distributing documents that are required to be given out and discussion of the work to be done and maintenance after the job is complete.

We will continue working with a communications firm to play a video we developed last year in the Tribal Health offices across the state to educate tribal members about weatherization. Applications from the tribes are down and we are hoping to get this information out in an attempt to reach more tribal clients.

Percent of overall trainings are Tier 1 trainings:

Percent of overall trainings are Tier 2 trainings:

Breakdown of funds spent

Percent of budget spent on auditor/QCI trainings:

Percent of budget spent on crew/installer trainings:

Percent of budget spent on management/financial trainings:

V.8 Energy Crisis and Disaster Plan

None

2019 Sub-grantee allocations

2019 DOE 2x Mileage - Regular 1/22/2019

Weatherization Subgrantee Allocation

	Region I	Region II	Region III	Region IV	Region V	Region VI	Region VII	Region VIII	Total
Base	\$134,674	\$143,402	\$135,982	\$132,164	\$135,443	\$143,815	\$150,458	\$142,436	\$1,118,374
T & TA	\$14,266	\$52,307	\$47,552	\$38,041	\$52,307	\$42,796	\$52,307	\$19,021	\$318,597
Administration	\$15,341	\$24,664	\$26,689	\$22,432	\$32,405	\$18,162	\$28,600	\$16,103	\$184,396
Tribal Allocation	\$0	\$30,813	\$90,856	\$0	\$0	\$0	\$27,691	\$0	\$149,360
Low Income	\$37,916	\$103,260	\$73,412	\$120,201	\$229,108	\$60,504	\$143,596	\$38,723	\$806,720
Total	\$202,197	\$354,446	\$374,491	\$312,838	\$449,263	\$265,277	\$402,652	\$216,283	\$2,577,447
Units	21	33	35	30	43	24	38	22	246
	Region 1 & 8								
Base	\$277,110								
T & TA	\$33,287								
Administration	\$31,444								
Tribal Allocation	\$0								
Low Income	\$76,639								
Total	\$418,480								
Production	\$172,590	\$277,475	\$300,250	\$252,365	\$364,551	\$204,319	\$321,745	\$181,159	\$2,074,454
Operations	\$150,943	\$242,674	\$262,592	\$220,713	\$318,828	\$178,693	\$281,391	\$158,438	\$1,814,272
Health and Safety	\$21,647	\$34,801	\$37,658	\$31,652	\$45,723	\$25,626	\$40,354	\$22,721	\$260,182
Total Allocation	\$2,782,844	State Admin	\$46,099	Subgrantee Admin		\$184,396			
T & TA	\$477,895	State T & A	\$159,298	Subgrantee T & TA		\$318,597			
Admin	\$230,495			Production		\$1,925,094			
				Tribal Production		\$149,360			
				Agencies		\$2,577,447			