

REBUILD AMERICA

WORKING PLAN

CITY OF CUYAHOGA FALLS, OHIO

OCTOBER 1996



Rebuild America Working Plan

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Introduction/Intention

The City of Cuyahoga Falls has committed to the Rebuild America Program. Rebuild America, the multi-year Department of Energy (DOE) Program helps communities toward the goal of more energy efficient buildings. The City of Cuyahoga Falls is taking the lead in forming partnerships within its own municipal structure and with outside agencies to promote and achieve the benefits of energy efficiency.

The City of Cuyahoga Falls joined Rebuild America's collaborative effort with the United States Conference of Mayors initial Energy - Smart Challenge Program. The Energy-Smart Challenge originally encouraged local governments to look at their own buildings for methods to increase energy efficiency. This still remains to be a strong goal of the City of Cuyahoga Falls. Not only does the City of Cuyahoga Falls intend to improve its own buildings, the City also is determined to continue to foster its own community outreach programs promoting energy efficiency.

LOCAL GOVERNEMENT

FACILITIES

CITY OF CUYAHOGA FALLS

Municipal Buildings Rates

The City of Cuyahoga Falls and the COMSE Energy Manager Company partnered to survey the municipal buildings on their energy use. The survey was developed to determine what buildings were the most viable options to concentrate the City's initial efforts.

Upon evaluation of all factors, including energy use, political impact, and public image - the Cuyahoga Falls Municipal Building was determined to be the first local government facility project.

The following page lists the municipally owned buildings and their rankings.

Comse Energy Mangers

**8413 Tower Park Driver
Twinsburg, Ohio 44087**

City of Cuyahoga Falls, Ohio

Building Sorted By... Utility Cost per Square Foot

Building	Location	Annual Electric Cost	Annual Nat. Gas Cost	Annual Energy Cost	Building Sq. Ft.	Energy \$ per Sq. Ft.	Energy/SF Rank	Energy Cost Rank	Activity
Water Treatment Plant	2028 Monroe Falls Ave	\$71,337	\$0	\$71,337	2,066	\$34.53	1	3	
Natatorium	2351 4 th St.	\$170,456	\$46,579	\$217,035	53,000	\$4.10	2	1	E.M. Audit approved
CITY HALL	2310 Second St.	\$104,383	\$28,157	\$132,540	64,908	\$2.04	3	2	
Water Department	2570 E. Bailey Rd	\$3,080	\$1,519	\$4,599	3,060	\$1.50	4	15	
Garage - Sanitation	2560 E. Bailey Rd	\$25,000	\$38,580	\$63,580	44,415	\$1.43	5	4	
FireStation#1	1924 FrontSt.	\$12,678	\$0	\$12,678	10,000	\$1.27	6	7	
Tech Center	2511 E. Bailey Rd	\$1,798	\$6,040	\$7,838	7,526	\$1.04	7	10	
Park & Rec	1900 Monroe Falls Ave	\$5,592	\$4,652	\$10,244	10,360	\$0.99	8	9	
Brookledge Golf	1667 E. Bailey Rd	\$3,200	\$3,658	\$6,858	7,300	\$0.94	9	12	
Fire Station #3	1601 Portage Trail	\$4,066	\$3,538	\$7,604	8,200	\$0.93	10	11	
Fire Station #4	3097 Northampton Rd	\$5,028	\$8,259	\$13,287	14,666	\$0.91	11	6	
Lion Lodge	641 Silver Lake	\$3,080	\$2,306	\$5,386	6,600	\$0.32	12	13	E.M. Audit - recommended
QUIRK CULTURAL CENTER	1201 Grant St.	\$19,232	\$9,880	\$29,112	36,685	\$0.82	13	5	
DownviewGolf	1615E.BaileyRd	\$4,075	\$532	\$4,607	6,488	\$0.71	14	14	
Fire Station #2	2121 High Street	\$3,966	\$0	\$3,966	6,400	\$0.62	15	16	
Electric Department	2550 E. Bailey Rd	\$12,281	\$0	\$12,281	25,979	\$0.47	16	8	
Park & Rec - House	2332 Oakwood Drive	\$143	\$200	\$343	1,050	\$0.33	17	17	
TOTAL		\$449,395	\$153,900	\$603,295	307,703	\$1.96			

Utility cost control feasibility duties were done on City Hall and Quirk Cultural Center (Energy Management Audits recommended for both buildings)

Cuyahoga Falls Municipal Building Energy Conservation Project - HVAC Energy Management System

The HVAC Energy Management System Project consists of the installation of a micro processor based energy management system (EMS) to control all of the City's HVAC systems which operate (24) hours per day, (7) days per week. The HVAC units are not connected, and it is necessary to provide control as well an integrated system for the greatest energy savings opportunity in the building. The project is a complete turn-key installation. According to the Energy Saving Calculations the payback on the HVAC project improvements is 2.57 years.

The Cuyahoga Falls Municipal Building HVAC project was selected for the Ohio Department of Development Cites and Counties Energy Conservation (CCEC) matching grant program. The Project will be part of the City's 1997 budget year.

The following pages detail the HVAC Energy Management System and the related grant.

GOAL	Integrate Cuyahoga Falls Municipal Building HVAC into a controlled system
PARTNERS	City of Cuyahoga Falls, COMSE Energy Managers, Ohio Department of Development
FUNDING	City of Cuyahoga Falls - \$18,627.00 CCEC Grant - \$15,000.00

CCEC Grant

97-09

Cuyahoga Falls HVAC Energy

Management System

OHIO DEPARTMENT OF DEVELOPMENT

George V. Voinovich
Governor

Donald E. Jakeway
Director

October 1, 1996

Mr. Don Robart, Mayor
City of Cuyahoga Falls
2310 Second Street
Cuyahoga Falls, Ohio 44221

Subject CCEC Grant Agreement 97-09

Dear Mr. Robart:

Enclosed is a fully executed copy of **Grant Agreement-97-09** for your files.

If you have any questions relative to this matter, please contact me at 614/466-6797.

Sincerely,

P. Keaton'

Grants Management

Enclosure

77 S. High St., P.O. Box 1001, Columbus, Ohio 43216-1001 (614) 466-2480
PRINTED ON RECYGED PAPER

AGREEMENT

BETWEEN

**STATE OF OHIO
DEPARTMENT OF DEVELOPMENT
COMMUNITY DEVELOPMENT DIVISION
OFFICE OF ENERGY EFFICIENCY
(hereinafter referred to as the GRANTOR)**

AND

**City of Cuyahoga Falls
2310 Second Street
Cuyahoga Falls, OH 44221**

**FED. TAX I.D.: 33-6000818
(hereinafter referred to as the GRANTEE)**

FOR

Cities and Counties Energy Conservation Program

Beginning: September 27, 1996

And

Ending: September 26, 1997

Grant Number: 97-09

GRANT AGREEMENT

This Grant Agreement (the "Agreement") is entered into by and between the State of Ohio, Department of Development (hereinafter variously referred to as the "Grantor"), located at 77 South High Street, Columbus, Ohio, and City of Cuyahoga Falls, (hereinafter variously referred to as the "Grantee"), located at 2310 Second street, Cuyahoga Falls, OH 44221, for the purpose of participating in the C4ties and Counties Energy Conservation Program during the period September 27, 1996 through September 26, 1997.

Grantee Federal Tax ID No. 33-6000818

Grant No. 97-09

STATEMENT OF THE AGREEMENT

In consideration of the mutual promises and covenants herein set forth, the parties hereto mutually agree that:

1. Grant of Funds. The State of Ohio, Department of Development hereby grants Federal funds in the amount of \$15,000.00 for the sole purpose of completing turn-key installations to a digital management system, as more fully set forth herein.
2. Scope of Work. The Grantee shall undertake the project and activities as set forth in the "Scope of Work" which is labeled Exhibit I, attached hereto, made a part hereof and incorporated by reference herein as if fully set forth herein.
3. Compliance. The project and activities authorized by this Agreement shall be performed in accordance with any and all applicable local, state, and federal statutes; regulations; directives; guidelines; approved state plans; or other requirements of the Grantor in effect at the time of the execution of this Agreement or thereafter. Said statutes, regulations, directives, guidelines, plans or other requirements may be waived only upon the express, written consent of the Grantor as allowed by law. No act of forbearance or failure to insist on the prompt performance by the Grantee of its obligations under this Agreement, either express or implied, shall be construed as a waiver by the Grantor of any of its rights hereunder or at law. The Grantee accepts full responsibility for payment of any and all unemployment compensation, insurance premiums, workers' compensation premiums, income tax deductions, social security deductions, and any and all other taxes or payroll deductions required for all employees engaged by Grantee in the performance of the work and activities authorized by this Agreement. The Grantee accepts full responsibility for providing workers with proper safety equipment and taking any and all necessary precautions to guarantee the safety of workers or persons otherwise affected.
4. Reports, Records and Evaluations. The Grantor shall evaluate, and provide guidance to -the Grantee in preparing all required reports, records, and evaluations to be submitted under the terms of this Agreement. Grantee staff and Board members shall cooperate with authorized personnel of the Grantor in their program monitoring and shall maintain, and make available all programmatic and performance records necessary for said monitoring. The Grantee shall submit to the Grantor reports detailing the expenditures of the moneys granted pursuant to this Agreement and such other reports as may be required by the Grantor, including the reports listed, and according to the schedule set forth, in Exhibit II, which is attached hereto, made a part hereof and incorporated by reference herein as if fully set forth herein. As directed by the Grantor, all activities associated with this Agreement will be subject to fiscal and compliance audits with respect to Generally Accepted Auditing Standards as

promulgated by OMB Circulars A-110, A-128, or A-133 (whichever applicable), United States General Accounting Office Guidelines for Financial and Compliance Audits of Federally Assisted Programs. Using generally accepted accounting principles, the Grantee shall prepare, retain, and permit the Grantor and/or its agents, including but not limited to the Auditor of the State of Ohio, to inspect, during normal business hours, any books and records necessary to ensure compliance with the terms and conditions of this Agreement as set forth in Exhibit II. Failure to submit any one of the reports listed in Exhibit II or submission of erroneous information in said reports; or failure to maintain any one of the records listed in Exhibit II; or failure to correct any discrepancies or weaknesses identified by the Grantor as a result of examination of any reports or records, may be considered grounds for suspension of financial assistance and termination of this Agreement.

The Grantee further warrants by executing this Agreement its understanding that rights of inspection (i) extend to agents of the Grantor's federal agency, including but not limited to the Inspector General's Office, the Government Accounting Office, and the Comptroller General; (ii) include the rights to examine the Grantee's corporate accounts or other accounts and/or funding sources within the control and/or name of the Grantee when there is evidence (e.g., vouchers, invoices, canceled checks, descriptions, etc.) that these books contain original or substantial source documentation of the federal funds granted herein; and (iii) contain the Grantee's covenant to make all fiscal records available for inspection to authorized audit personnel of the Grantor and its federal agencies.

The Grantee shall further permit the Grantor to perform monitoring, evaluation, and audit activities as determined to be necessary at the sole discretion of the Grantor. All required records as set forth in Exhibit II shall be maintained by the Grantee for a period of three (3) years from the date the final report is submitted, except in cases where unresolved audit questions may require retention of some or all of said records for a longer period as determined by Grantor.

5. Instructions from Grantor. The Grantor may, from time to time as it deems appropriate and necessary, communicate specific instructions and requests to the Grantee concerning the performance of the work described in this Agreement. Upon such notice and within a reasonable time, the Grantee shall comply with such instructions and fulfill such requests to the satisfaction of the Grantor. It is expressly understood by the parties that these instructions and requests are for the sole purpose of performing the specific tasks requested to ensure the satisfactory completion of the work described in this Agreement and are not intended to amend or alter this Agreement or any part thereof.
6. Covenant Against Contingency Fees. The Grantee covenants that no person or selling agency or other organization has been employed or retained to solicit or secure this Agreement upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee. For breach or violation of this covenant the Grantor shall have the right to rescind this Agreement without liability or, in its discretion, to deduct from the Agreement or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee, or to seek such other remedies as may be legally available.
7. Management of Moneys. The funds granted herein shall be made to the Grantee on a reimbursement basis and are to be requested with supporting financial documentation as set forth in Exhibit II. The Grantee shall record all moneys received under this Agreement in a separate account on the books and records of the Grantee. All moneys granted to the Grantee under this Agreement are to be used solely for the express purpose set forth in Exhibit I. All requests for payment must be completed on forms B.1 and form B.2. The Grantee shall not pledge said moneys as security for any other loan or debt of any kind other than that described in this Agreement. If said money is not so used, it shall be

returned to the Grantor. In the event that the total amount of the grant exceeds the cost of the project during the term of this Agreement, the remaining moneys shall be returned to the Grantor within sixty (60) days of the expiration or termination of this Agreement.

8. Termination. The Grantor may terminate this Agreement in any one of the following instances: (i) the Grantor determines that the governing board of the Grantee cannot or will not take the necessary action to bring the Grantee into compliance with applicable requirements of 10 C.F.R. 600, with the requirements of any applicable program statute or rule, or with any other term or condition of this Agreement within the time allowed by the Grantor; (ii) the Grantor determines that the nature or extent of noncompliance is extreme and warrants immediate termination of this Agreement; (iii) the Grantee ceases to exist or becomes legally incapable of performing its responsibilities under this Agreement; and (iv) the Grantee fails to comply with provisions of this Agreement.
 - a.) Notice of Termination. The Grantor shall provide written notification of intent to terminate to the governing board of the Grantee. The notification shall include the charges for such proposed action; sections of the statutes, rules, regulations or contractual obligations that the Grantee is charged with violating; and a statement of the Grantee's right to request a public hearing on the proposed termination by making a written request within thirty days of the time of mailing of the notice. The notice shall also inform the Grantee that the Grantee may be represented by an attorney or by such other representative as designated by a majority of the governing board of the Grantee.
 - b.) Failure of Notice Process. When any notice of intent to terminate sent by certified mail is returned because of inability to deliver, the notice required shall be sent by ordinary mail evidenced by a certificate of mailing to the chairperson of the Grantee.
 - c.) Force Majeure. Neither party hereto shall be considered in default in the performance of its obligations hereunder, or be liable in damages or otherwise except as expressly set forth in this Agreement for any failure or delay in performance which is due to strike, lockout, concerted act of workers or other industrial disturbance, riot or armed conflict whether declared or undeclared, curtailment, shortage, rationing or allocation of normal sources of supply of labor, materials, transportation, energy, or utilities, accident, Act of God, delay of Grantee's subcontractors or vendors, sufferance of or voluntary compliance with acts of government and government regulations (whether or not valid), embargo, machinery or equipment breakdown, or due to any other cause whether similar or dissimilar to any of the causes or categories of causes above and which is beyond the reasonable control of the party claiming excuse hereinunder.
9. Effects of Termination. In the event of termination, all property and finished or unfinished documents, data, studies and reports purchased or prepared by the Grantee under this Agreement shall be disposed of according to Grantor directives, and the Grantee shall be entitled to compensation for any unreimbursed expenses reasonably and necessarily incurred in the satisfactory performance of this Agreement.

The Grantee shall incur no new obligations after the date of the termination of this Agreement, and shall cancel as many outstanding obligations as possible. In the case of a partial termination, the Grantee shall incur no obligations other than those specifically identified in the contract governing the partial termination. Notwithstanding any of the provisions of this section, the Grantee shall not be relieved of its responsibility for damages sustained by the Grantor by virtue of any breach of contract

by the Grantee, and the Grantor may withhold any reimbursement to the Grantee for the purpose of set-off until such time as the exact amount of damages due the Grantor from the Grantee is agreed upon or otherwise determined.

10. Request to Terminate by Grantee. Notwithstanding any of the provisions of this section, if the Grantee is unable or unwilling to comply with such additional conditions as may be lawfully applied by the Grantor, the Grantee may request to terminate this Agreement by giving reasonable written notice to the Grantor, signifying the effective date thereof; the reasons for requesting the termination; and an appropriate budget revision. In such event, the Grantor shall terminate the Agreement only if both parties agree to the termination and to the conditions under which it shall occur.
11. Limitation on Expenditure of Funds. Expenses charged against the funds granted herein shall not be incurred by the Grantee except during the period of this Agreement as set forth above, and may be incurred only as necessary to the performance of the work and activities as set forth in Exhibit I. All expenses incurred or obligated for the approved program must be supported by approved signed contracts, purchase orders, requisitions, bills, or other evidence of liability consistent with the Grantee's established procurement procedures. The Grantee shall require delivery before payment is made for purchased goods, equipment, or services, unless the Grantee obtains satisfactory security from the vendor for payment made. The Grantee and Grantor shall act in accordance with the provisions of 10 CFR 600.134 in relationship to the use and disposition of any and all equipment purchased with the funds granted to the Grantee hereunder.
12. Equal Employment Opportunity. No person shall on the basis of race, color, national origin, or sex be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity funded in whole or in part with funds made available under this Agreement. The Grantee will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, handicap, or age. The Grantee will take affirmative action to ensure that employment without regard to their race, religion, color, sex, national origin, handicap, or age. Such action shall include, but not be limited to, the following: Employment Upgrading, Demotion, Termination, Rates of Pay or other Forms of Compensation, and Selection for Training, including Apprenticeship. The Grantee agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause. The Grantee will, in all solicitations or advertisements for employees placed by or on consideration for employment without regard to race, religion, color, sex, national origin, handicap, or age. The Grantee will incorporate the foregoing requirements of this section in all of its contracts for any of the work described herein and will require all of its subcontractors for any part of such work to incorporate such requirements in all subcontracts for such work.
13. Age Discrimination. Any prohibition against discrimination on the basis of age under the Age Discrimination Act of 1975 or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973 shall also apply to any program or activity funded in whole or in part with funds made available under this Agreement.
14. Indemnification. The Grantee agrees to hold the Grantor harmless from any and all liabilities or claims caused by or resulting from Grantee's performance of the obligations or activities in furtherance of work described herein. The Grantee will reimburse the Grantor for any judgments which may be obtained against the Grantor resulting from the work hereunder or the use of any work product of the Grantee, including judgments for infringement of patents or copyrights. The Grantee agrees to defend

against any such claims or legal actions if called upon by the Grantor to do so. The Grantee acknowledges that this Agreement involves the use of federal funds and as such is subject to audit by the agency of the United States government granting funds to the Grantor for purposes of performing the work and activities as set forth in Exhibit I. The Grantee shall fully indemnify the Grantor for any costs of the Grantee which are disallowed by said federal agency and which must be refunded thereto by the Grantor.

15. Political Activity of Grantee. No employee of the Grantee may (i) use his official authority or influence for the purpose of interfering with or affecting the result of an election or a nomination for office; (ii) directly or indirectly coerce, attempt to coerce, command or advise a state or local officer or employee of the Grantee to pay, lend, or contribute anything of value to a party, committee, organization, agency, or person for political purposes; or (iii) be a candidate for elective office unless such individual is the mayor of a city, a duly elected head of an executive department of a state or municipality who is not classified under a state or municipal civil service system, or an individual holding elective office.
16. Certification of Funds. None of the rights, duties and obligations described in this Agreement shall be binding on either party until all statutory provisions of the Ohio Revised Code, including but not limited to Section 126.07, have been complied with and until such time as all necessary funds are made available and forthcoming from the appropriate state or federal agencies.

Miscellaneous.

- a.) Governing Law. This Agreement shall be governed by the laws of the State of Ohio as to all matters, including but not limited to matters of validity, construction, effect and performance.
- b.) Forum and Venue. All actions regarding this Agreement shall be formed and venued in a court of competent subject matter jurisdiction in Franklin County, Ohio
- c.) Entire Agreement. This Agreement and its exhibits and any documents referred to herein constitute the complete understanding of the parties and merge and supersede any and all other discussions, agreements and understandings, either oral or written, between the parties with respect to the subject matter hereof.
- d.) Severability. Whenever possible each provision of this Agreement shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this Agreement is held to be prohibited by or invalid under applicable law, such provision shall be ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of such provisions of this Agreement.
- e.) Notices. All notices, consents, demands, requests and other communications which may or are required to be given hereunder shall be in writing and shall be deemed duly given if personally delivered or sent by United States mail, prepaid, to the addresses set forth hereunder or to such other address as the other party hereto may designate in written notice transmitted in accordance with the provision.

1. In case of the Grantor to:

Office of Energy Efficiency
Ohio Department of Development
P. O. Box 1001
Columbus, Ohio 43216-1001
Attention: John Greenway
(614) 466-6797

2. In case of the Grantee to:

City of Cuyahoga Falls
2310 Second Street
Cuyahoga Falls, OH 44221
Attention: Valerie Wax Carr
Phone No. 330/971-8240

- f.) Amendments or Modifications. Either party may at any time during the term of this Agreement request amendments or modifications. Requests for amendment or modification of this Agreement shall be in writing and shall specify the requested changes and the justification of such changes. The parties shall review the request for modification in terms of the regulations and goals relating to the Project. Should the parties consent to modification of the Agreement, then an amendment shall be drawn, approved, and executed in the same manner as the original Agreement.
- g.) Pronouns. The use of any gender pronoun shall be deemed to include all the other genders, and the use of any singular noun or verb shall be deemed to include the plural, and vice versa, whenever the context so requires.
- h.) Headings. Section headings contained in this Agreement are inserted for convenience only and shall not be deemed to be a part of this Agreement.
- i.) Assignment. Neither this Agreement nor any rights, duties, or obligations described herein shall be assigned or subcontracted by the Grantee without the prior express written consent of the Grantor
- j.) Travel Expenses. If contemplated under this Agreement, the Grantee, its employees or agents, shall be reimbursed for travel expenses pursuant to the requirements listed in Ohio Administrative Code Section 126-1-02.
- k.) Outstanding Liabilities. The Grantee affirmatively covenants that it does not owe: (1) any delinquent taxes to the State of Ohio (the "State") or a political subdivision of the State; (2) any monies to the State or a state agency for the administration or enforcement of any environmental laws of the State; and (3) any other moneys to the State, a state agency or a political subdivision of the State that are past due, whether the amounts owed are being contested in a court of law or not.

- 1.) Falsification of Information. The Grantee affirmatively covenants that it has made no false statements to the Grantor in the process of obtaining this grant of Funds. If the Grantee has knowingly made a false statement to the Grantor to obtain this grant of Funds, the Grantee shall be required to return all Funds immediately pursuant to Ohio Revised Code Section 9.66(C)(2) and shall be ineligible for any future economic development assistance from the State, any state agency or a political subdivision pursuant to O.R.C. Section 9.66(C)(1). Any person who provides a false statement to secure economic development assistance may be guilty of falsification, a misdemeanor of the first degree, pursuant to O.R.C. 2921.13(D)(1), which is punishable by a fine of not more than \$1,000.00 and/or a term of imprisonment of not more than six months.

IN WITNESS WHEREOF, the parties hereto have executed this Grant Agreement as of the day and year set forth below.

GRANTEE:
City of Cuyahoga Falls

GRANTOR:
State of Ohio
Department of Development

By: _____
By: _____
Don L Robart

Vincent J Lombardi
Assistant Director
Director, Housing and Community
Development Program

Title: _____

Date: _____

Date: _____

EXHIBIT I

City of Cuyahoga Falls

Office of The Service Director
2310 Second Street
Cuyahoga Falls, Ohio 44221-2583

BARBARA L. SCULLEY
Director of Public Service

Phone: (330) 971-8240
Fax: (330) 971-8168

August 21, 1996

Mr. John Greenway
Ohio Department of Development
Office of Energy Efficiency
77 S. High street, 26th Floor
P. O. Box 1001
Columbus, OH 43266-041

Dear Mr. Greenway:

The City of Cuyahoga Falls is fully committed to improving the energy efficiency of our facilities. Cuyahoga Falls is enrolled in the Rebuild America Program through the Department of Energy. It is our intention to use this matching grant to fund the City Municipal Building, our first targeted facility for efficiency upgrades.

The City's energy efficiency program is planned as part of the formal 1997 budget process. The City's 1997 budget is currently being prepared, and will be passed in the December 1996 time frame.

Our Cuyahoga Falls Resolution and documented budgetary confirmation will immediately be forwarded upon our Council return from their annual recess on September 9th.

Thank you for your consideration.

Sincerely,

Barbara L. Sculley
Director of Public Service

bls/lc
cc: Valerie Wax Carr, Deputy Service Director

Cities and Counties Energy Conservation Program

Cuyahoga Falls, OH

Application Package
Deadline – August 23, 1996

Ohio Department of Development
Community Development Division
Office of Energy Efficiency
77 South High Street, 26th floor
P.O. Box 1001
Columbus, OH 43266-1001

Contact: John Greenway
Telephone: (614) 466-6797
Fax: (614) 466-1864

City of Cuyahoga Falls, Ohio - Municipal Building Proposed Project (ECM 1) Description

The proposed Project (ECW1) consists of the installation of a Networked, Micro-Processor based Energy Management System (EMS) to provide control of all HVAC systems within the building. Currently, all HVAC systems in the building are allowed to operate (24) hours per day, (7) days per week. There is no integration of the existing HVAC units, and it is not unusual for heating and cooling from separate systems to be operating at the same time in the same area! The necessity to provide Time-of-Day control as well as logical System Integration is the greatest apparent Energy Savings opportunity available in the building.

The Proposed EMS includes the complete Turn-Key Installation of the following components:

- * State-of-the Art Digital/Analog, Peer to Peer, Unitary controllers operating on an optically isolated RS-485 3-Wire network at 9600 baud
- * Maximum of (4032) I/O Points per Network
- * Readily available control relays (Fail Safe Design)
- * Complete Project Design and Management
- * Program Writing and Modifications (First Year)
- * Monthly Savings Reports (First Year)

The proposed ECW-1 will provide energy savings in several areas. The primary savings feature will be Electrical energy saved thru Time-of-Day control (I.E. - Placing an HVAC unit in an "un-occupied" state when the area served by that unit is "un-occupied". The "un-occupied" state of an HVAC unit would be OFF unless the space temperature in that particular unit area fell or rose outside of an acceptable range.)

All areas of the building are heated by either steam radiation or HW heating coils/radiation generated by a central steam boiler plant. Since the Police Dept and Jail areas are occupied 24 hours per day, 7 days per week and the area accounts for approximately 35% of the Municipal Building square footage, no control of the boiler plant (other than seasonal shut-down) is planned at this time. THEREFOR no Natural Gas Savings have been calculated or included as part of this Project. (Future expansion of this Project will include addition. Valving, etc. and will result in additional Energy Savings)

City of Cuyahoga Falls, Ohio - Municipal Building
Current Energy Consumption and Estimated Energy Savings

Fuel Type	Current Annual Energy Consumption		Estimated Annual Energy Savings	
	MMBTU	Dollars (\$)	MMBTU	Dollars (\$)
Electricity	5637.36	\$117,970.47	545.68	\$13,094.42
Natural Gas	5785.92	\$27,742.22	0 *	\$0.00
Total	11423.28	\$145,712.69	545.68	\$13,094.42

Note - See Electric and Natural Gas Actual Annual Consumption and Billing Summaries following this sheet

* See Proposed Project Description for Explanation

**City of Cuyahoga Falls, Ohio - Municipal Building
Natural Gas Billing History**

Account # 84006 Tariff Rate – GTS2 Customer # 07712

Billing Period	Billing Days	Total MCF	Tariff MCF	\$ per Tariff MCF	Transport MCF	\$ per Transport MCF	Total \$ Cost
Aug 1995	30	14.4	0.0	\$4.932	14.4	\$1.399	\$134.91
Sept 1995	30	14.8	0.0	\$4.934	14.8	\$1.399	\$135.53
Oct 1995	31	366.7	40.9	\$4.910	325.8	\$1.219	\$770.45
Nov 1995	30	664.8	482.6	\$4.910	182.2	\$1.282	\$2976.15
Dec 1995	30	915.8	811.8	\$4.910	104.0	\$1.389	\$4,656.18
Jan 1996	32	856.4	766.4	\$4.659	90.0	\$1.399	\$4,178.97
Feb 1996	31	890.6	890.6	\$4.659	0.0	\$1.399	\$4,178.97
Mar 1996	31	890.5	890.5	\$4.513	0.0	\$1.399	\$4,533.46
Apr 1996	31	588.1	588.1	\$4.793	0.0	\$1.399	\$3,213.39
May 1996	30	398.2	398.2	\$4.798	0.0	\$1.399	\$2,214.37
Jun 1996	33	3.6	0.0	\$4.798	3.6	\$1.399	\$118.29
Jul 1996	26	13.5	0.0	\$5.604	13.5	\$1.399	\$133.53
Total		5617.4	4869.1	\$4.868 Average	748.3	\$1.373 Average	\$27,742.22

Given: (1) CF (Natural Gas) = 1030 BTU (from ODOE Guidelines)

(1) MCF (Natural Gas) = 1000 CF (Natural Gas)

Total Annual MCF consumption = 5,617.4 MCF (See Summary Above)

Therefore: Total Annual Natural Gas BTU = 5617.4 MCF X (1030 x 1000)
5617.4 MCF X 1030000
5,785,922,000 BTU

5,785,922,000 BTU
1,000,000
5,785.92 MMBTU

City of Cuyahoga Falls, Ohio - Municipal Building

Proposed Project Payback Calculation:

Payback Calculations		
(a) Total Cost of Project		\$33,627.00
(b) Projected \$ Savings/Year		\$13,094.42
(c) Payback		2.57 years

Note - See Energy Savings Calculations following this sheet

Annual Cooling Season BTU Saved from ECM-1 Implementation	286,214,180	BTU	286.21	MMBTU
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Annual Heating Season BTU Saved from ECIU-1 Implementation	178,141,535	BTU	178.14	MMBTU
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Annual Sp/Fall Season BTU Saved from ECU-1 Implementation	81,324,964	BTU	81.32	MMBTU
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Total Annual BTU Saved from ECM-1 Implementation	545,680,679	BTU	545.68	MMBTU
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Average Actual Cost per Electric BTU

Actual Cost per kWh of Electricity	\$0.0819 / 3413	BTU per kWh	\$0.000024000	per BTU
			\$24.00	per MMBTU

Total Annual \$ Saved from ECM-1 Implementation	545,680,679	BTU	545.68	MMBTU
	X			
	\$0.000024000		\$13,094.42	

Note: The Savings Amount Shown Above Represents 11.1% of The Total Annual Electric Billing for the past {12} Mo

ECM 1 Cooling Season Energy Savings Calculations

Unit	Cooling Amps	Usage Factor	Adjusted Cooling Amps	Cooling kVA	Power Factor	Cooling kW		Current Run Hours	=	Current kWh	Cooling kW		Projected ECM-1 Run Hours	=	Projected kWh
HPDD-1	78.2	95%	74.3	15.5	85%	13.2	X	720	=	9486	13.2	X	608	=	
HPDD-2	78.2	95%	74.3	15.5	85%	13.2	X	720	=	9486	13.2	X	386	=	
CHILL-1	359.0	67%	240.5	50.0	85%	42.5	X	482	=	20486	42.5	X	407	=	
	32.2	95%	30.6	6.4	85%	5.4	X	720	=	3917	5.4	X	608	=	
	32.2	95%	30.6	6.4	85%	5.4	X	720	=	3917	5.4	X	608	=	
	11.0	67%	7.4	1.5	85%	1.3	X	482	=	615	1.3	X	407	=	
	11.0	67%	7.4	1.5	85%	1.3	X	482	=	615	1.3	X	407	=	
BOILR-1															
DPAC-1	11.0	95%	10.5	2.2	85%	1.9	X	720	=	1346	1.9	X	608	=	
	27.0	67%	18.1	3.8	85%	3.2	X	482	=	1557	3.2	X	407	=	
	27.0	33%	8.9	1.9	85%	1.6	X	238	=	384	1.6	X	201	=	
	4.8	67%	3.2	0.7	85%	0.6	X	482	=	287	0.6	X	407	=	
PDAC-1	48.3	95%	45.9	9.5	85%	8.1	X	720	=	5814	8.1	X	720	=	
	115.0	67%	77.1	16.0	85%	13.6	X	482	=	6555	13.6	X	482	=	
PDAC-2	32.2	95%	30.6	6.4	85%	5.4	X	720	=	3917	5.4	X	720	=	
	115.0	67%	77.1	16.0	85%	13.6	X	482	=	6555	13.6	X	482	=	
CCAHU-1	11.0	90%	9.9	2.1	85%	1.8	X	720	=	1285	1.8	X	608	=	
	19.0	67%	12.7	2.6	85%	2.2	X	482	=	1065	2.2	X	407	=	
	19.0	33%	6.3	1.3	85%	1.1	X	238	=	263	1.1	X	201	=	
	5.0	67%	3.4	0.7	85%	0.6	X	482	=	287	0.6	X	407	=	
	5.0	33%	1.7	0.3	85%	0.3	X	238	=	61	0.3	X	201	=	

ECM 1 Cooling Season Energy Savings Calculations

Unit													
LDAH-1	6.0	90%	5.4	1.1	85%	0.9	X	720	=	673	0.9	X	260
	26.6	67%	17.8	3.7	85%	3.1	X	482	=	1516	3.1	X	174
LDAH-2	6.0	90%	5.4	1.1	85%	0.9	X	720	=	673	0.9	X	260
	26.6	67%	17.8	3.7	85%	3.1	X	482	=	1516	3.1	X	174
MAYHP-1	2.2	90%	2.0	0.4	85%	0.3	X	720	=	245	0.3	X	260
	7.6	67%	5.1	1.1	85%	0.9	X	482	=	451	0.9	X	174
MDAH-1	4.1	90%	3.7	0.8	85%	0.7	X	720	=	490	0.7	X	260
	12.0	67%	8.0	1.7	85%	1.4	X	482	=	696	1.4	X	174
	5.0	67%	3.4	0.7	85%	0.6	X	482	=	287	0.6	X	174
WCHP-2	2.2	90%	2.0	0.4	85%	0.3	X	720	=	245	0.3	X	260
	7.6	67%	5.1	1.1	85%	0.9	X	482	=	451	0.9	X	174
CDHP-3	3.2	90%	2.9	0.6	85%	0.5	X	720	=	367	0.5	X	260
	11.6	67%	7.8	1.6	85%	1.4	X	482	=	656	1.4	X	174
Total	1161.8		856.5	178.3		151.6	X		=	86163	151.6	X	=

Current Monthly Cooling kWh

Current Monthly Clg kWh = 86163.0x 3413.0 BTU per kWh = 294,074,319 BTU = 294.07 MMBTU

Proposed Monthly Clg kWh= 69391.0x 3413.0 BTU per kWh = 236,831,483 BTU = 236.83 MMBTU

BTU saved per cooling Month from implementation of ECM-1 = 57,242,836 BTU = 57.24 MMBTU

Average # of Cooing months per year (this location) = 5
ANNUAL Cooling BTU saved from implementation of ECS-1 = 286,214,180 BTU = 286.21 MMBTU

Column Title Explanations

- Cooling Amps See Nameplate Data
- Usage Factor Percentage of Nameplate Data Actually Used
- Adjusted Cooling Amps Equal Cooing Amps - multiplied by - Usage Factor
- Cooling kVA Equals Adjusted Cooling Amps • multiplied by Nameplate Voltage
- Power Factor Equals Average Motor Power Factor- This Bldg
- Cooling kW Equals Cooling kVA- multiplied by Power Factor
- Current Run Hours Actual Average Monthly Runtime - Current

Current kWh

Equals Cooling kW - multiplied by - Current Run Hours

Projected ECW-1 Run Hours

Actual OCCUPIED Run Hours - Setup Hours

ECM-1 Heating Season Energy Savings Calculations

Unit	Heating Amps	Usage Factor	Adjusted Heating Amps	Heating kVA	Power Factor	Heating kW		Current Run Hours	=	Current kWh	Heating kW		Projected ECM-1 Run Hours	=	Projected kWh
HPDD-1	178.2	95%	74.3	15.5	85%	13.2	x	720	=	9486	13.2	x	608	=	80
HPDD-2	78.2	95%	74.3	15.5	85%	13.2		720		9486	13.2		386		
CHILL-1	25.3	95%	24.0	5.0	85%	4.3		720		3060	4.3		720		
BOILR-1	25.3	95%	24.0	5.0	85%	4.3		720		3060	4.3		720		
	11.0	95%	10.5	2.2	85%	1.9		720		1346	1.9		720		
	11.0	95%	10.5	2.2	85%	1.9		720		1346	1.9		720		
	11.0	95%	10.5	2.2	85%	1.9		720		1346	1.9		720		
	3.2	95%	3.1	0.6	85%	0.5		720		367	0.5		720		
DPAS1	11.0	95%	10.5	2.2	85%	1.9		720		1346	1.9		608		
	27.7	45%	12.5	2.6	100%	2.6		482		1253	2.6		407		
	17.7	30%	5.3	1.1	100%	1.1		216		238	1.1		182		
PDAS1	48.3	95%	45.9	9.5	85%	8.1		720		5814	8.1		720		
	7.2	67%	4.8	1.0	100%	1.0		482		482	1.0		482		
	8.3	48%	4.0	0.8	100%	0.8		482		386	0.8		482		
	24.9	48%	12.0	2.5	100%	2.5		482		1205	2.5		482		
	19.4	48%	9.3	1.9	100%	1.9		482		916	1.9		482		
	19.4	48%	9.3	1.9	100%	1.9		482		916	1.9		482		
PDAS2	32.2	95%	30.6	6.4	85%	5.4		720		3917	5.4		720		
	7.2	67%	4.8	1.0	100%	1.0		482		482	1.0		482		
	8.3	48%	4.0	0.8	100%	0.8		482		386	0.8		482		
	8.3	48%	4.0	0.8	100%	0.8		482		386	0.8		482		
	8.3	48%	4.0	0.8	100%	0.8		482		386	0.8		482		
	24.9	48%	12.0	2.5	100%	2.5		482		1205	2.5		482		
	19.4	48%	9.3	1.9	100%	1.9		482		916	1.9		482		
CCAHU1	11.0	90%	9.9	2.1	85%	1.8		720		1285	1.8		608		
	33.2	50%	16.6	3.5	100%	3.5		482		1687	3.5		407		

Unit														
LDAH-1	6.0	90%	5.4	1.1	85%	0.9	x	720	=	673	0.9	x	260	=
	26.6	67%	17.8	3.7	85%	3.1		482		1516	3.1		174	
LDAH-2	6.0	90%	5.4	1.1	85%	0.9		720		673	0.9		260	
	26.6	67%	17.8	3.7	85%	3.1		482		1516	3.1		174	
MAYHP1	2.2	90%	2.0	0.4	85%	0.3		720		245	0.3		260	
MDAH1	4.1	90%	3.7	0.8	85%	0.7		720		490	0.7		260	
WCHP2	2.2	90%	2.0	0.4	85%	0.3		720		245	0.3		260	
CDHP3	3.2	90%	2.9	0.6	85%	0.5		720		367	0.5		260	
Total	657.0		496.8	103.3		91.3				58428	91.3			

Current
Monthly
Heating
kWh

Current Monthly Htg kWh = 58428.0x 3413.0 BTU per kWh = 199,414,764 BTU
 = 199.41 MMBTU
 Proposed Monthly Hb kWh = 47989.0x 3413.0 BTU per kWh = 163,786,457 BTU
 = 163.79 MMBTU
 BTU saved per Heating Month from implementation of ECM 1 = 35,628,307 BTU
 = 35.63 MMBTU

Average # of Heating Months per year Ohio location) = 5

ANNUAL Heating BTU saved from implementation of ECb1 ,141,535
 BTU
 178.14 MMBTU

Column Title Explanations

- Heating Amps See Nameplate Data
- Usage Factor Percentage of Nameplate Data Actually Used
- Adjusted Heating Amps Equals Heating Amps multiplied by Usage Factor "
- Heating kVA Equals Adjusted Heating Amps multiplied by Nameplate Voltage
- Power Factor Equals Average Motor Power Factor - This Bldg
- Heating kW * Equals Heating kVA multiplied by Power Factor
- Currant Run Hours Actual Average Monthly Runtime - Current
- Current kWh Equals Heating kW multiplied by Current Run Hours
- Projected ECM-1 Run Hours Actual OCCUPIED Run Hours + Setback Hours

ECM 1 Spring/Fall Season Energy Savings Calculations

Unit	Sp/Fall Amps	Usage Factor	Adjusted Sp/Fall Amps	Sp/Fall kVA	Power Factor	Sp/Fall kW		Current Run Hours	=	Current kWh	Sp/Fall kW		Projected ECM-1 Run Hours	=
HPDD-1	78.2	95%	74.3	15.5	85%	13.2	X	720	=	9486	13.2	X	608	=
HPDD-2	78.2	95%	74.3	15.5	85%	13.2		720		9486	13.2		386	
CHILL-1	359.0	67%	240.5	50.0	85%	42.5		720		30600	42.5		608	
	32.2	95%	30.6	6.4	85%	5.4		720		3917	5.4		608	
	32.2	95%	30.6	6.4	85%	5.4		720		3917	5.4		608	
	11.0	67%	7.4	1.5	85%	1.3		482		615	1.3		386	
	11.0	33%	3.6	0.8	85%	0.7		238		162	0.7		200	
BOILR-1	25.3	95%	24.0	5.0	85%	4.3		720		3060	4.3		720	
	25.3	95%	24.0	5.0	85%	4.3		720		3060	4.3		720	
	11.0	95%	10.5	2.2	85%	1.9		720		1346	1.9		720	
	11.0	95%	10.5	2.2	85%	1.9		720		1346	1.9		720	
	11.0	95%	10.5	2.2	85%	1.9		720		1346	1.9		720	
	3.2	95%	3.1	0.6	85%	0.5		720		367	0.5		720	
DPAS1	11.0	95%	10.5	2.2	85%	1.9		720		1346	1.9		608	
	27.7	33%	9.1	1.9	100%	1.9		238		452	1.9		200	
	17.7	20%	3.5	0.7	100%	0.7		120		84	0.7		182	
	27.0	67%	18.1	3.8	85%	3.2		238		769	3.2		200	
	27.0	67%	18.1	3.8	85%	3.2		120		388	3.2		100	
	4.8	67%	3.2	0.7	85%	0.6		238		142	0.6		200	
PDAC1	48.3	95%	45.9	9.5	85%	8.1		720		5814	8.1		720	
	115.0	67%	77.1	16.0	85%	13.6		482		6555	13.6		720	
	7.2	67%	4.8	1.0	100%	1.0		238		238	1.0		238	
	8.3	48%	4.0	0.8	100%	0.8		238		190	0.8		238	
	24.9	48%	12.0	2.5	100%	2.5		238		595	2.5		238	
	19.4	48%	9.3	1.9	100%	1.9		238		452	1.9		238	
	19.4	48%	9.3	1.9	100%	1.9		238		452	1.9		238	
PDAS2	32.2	95%	30.6	6.4	85%	5.4		720		3917	5.4		720	
	115.0	67%	77.1	16.0	85%	13.6		482		6555	13.6		720	
	7.2	67%	4.8	1.0	100%	1.0		238		238	1.0		238	
	8.3	48%	4.0	0.8	100%	0.8		238		190	0.8		238	
	8.3	48%	4.0	0.8	100%	0.8		238		190	0.8		238	
	8.3	48%	4.0	0.8	100%	0.8		238		190	0.8		238	
	24.9	48%	12.0	2.5	100%	2.5		238		595	2.5		238	
	19.4	48%	9.3	1.9	100%	1.9		238		452	1.9		238	
CCAHU1	11.0	90%	9.9	2.1	85%	1.8		720		1285	1.8		608	
	33.2	50%	16.6	3.5	100%	3.5		238		833	3.5		200	
	19.0	67%	12.7	2.6	85%	2.2		482		1065	2.2		386	
	19.0	33%	6.3	1.3	85%	1.1		238		263	1.1		200	
	5.0	67%	3.4	0.7	85%	0.6		482		287	0.6		386	
	5.0	33%	1.7	0.3	85%	0.3		238		61	0.3		200	

ECM-1 Spring/Fall Season Energy Savings Calculations

Unit														
LDAH-1	6.0	90%	5.4	1.1	85%	0.9	X	720	=	673	0.9	X	260	=
	26.6	67%	17.8	3.7	85%	3.1		482		1516	3.1		174	
LDAH-2	6.0	90%	5.4	1.1	85%	0.9		720		673	0.9		260	
	26.6	67%	17.8	3.7	85%	3.1		482		1516	3.1		174	
MAYHP1	2.2	90%	2.0	0.4	85%	0.3		720		245	0.3		260	
	7.6	67%	5.1	1.1	85%	0.9		482		451	0.9		174	
MDAH1	4.1	90%	3.7	0.8	85%	0.7		720		490	0.7		260	
	12.0	67%	8.0	1.7	85%	1.4		482		696	1.4		174	
	5.0	67%	3.4	0.7	85%	0.6		482		287	0.6		174	
WCHP2	2.2	90%	2.0	0.4	85%	0.3		720		245	0.3		260	
	7.6	67%	5.1	1.1	85%	0.9		482		451	0.9		174	
CDHP3	3.2	90%	2.9	0.6	85%	0.5		720		367	0.5		260	
	11.6	67%	7.8	1.6	85%	1.4		482		656	1.4		174	

Total	1483.0		1051.2	218.7		189.2				110572	189.2			
										Current Monthl y Sp/Fall kWh				
Current Monthly Sp/Fall kWh	110572.0						x	3413.0 BTU per kWh	=	377 382 236			BTU	
									=	377.38			MMBTU	
Proposed Monthly Sp/Fall kWh	98658.0						x	3413.0 BTU per kWh	=	336 719 754			BTU	
									=	336.72			MMBTU	
BTU saved per Sp/Fall Month from implementation of ECM 1									=	40 662 482			BTU	
									=				40.06 MMBTU	
Average # of Sp/Fall Months per year this location)									=	2				
ANNUAL Sp/Fall BTU saved from implementation of EC1F													81,324,964	
BTU													81.32	MMBTU

Column Title Explanations

Sp/Fall Amps	See Nameplate Data
Usage Factor	Percentage of Nameplate Data Actually Used
Adjusted Sp/Fall Amps	Equals Sp/Fall Amps multiplied by Usage Factor
Sp/Fall kVA "	Equals Adjusted Sp/Fall Amps multiplied by Nameplate Voltage
Power Factor	Equals Average Motor Power Factor - This bldg
Sp/Fall kW	Equals Sp/Fall kVA multiplied by Power Factor
Current Run Hours	Actual Average Monthly Runtime - Current

Current kWh

Equals Sp/Fall kW multiplied by Current Run Hours

Projected ECW1 Run Hours

Actual OCCUPIED Run Hours + Setback & Setup Hours

City of Cuyahoga Falls, Ohio - Municipal Building Steps Leading to Decision to Complete this Project

The first phase of an in-depth Energy Study at this location has been completed. This phase has covered the Mechanical Equipment in the building. Steps taken in the completion of this phase include the following:

- ◆ Walk thru survey building
- ◆ Gathering of nameplate data of all Mechanical Equipment
- ◆ Identification of areas served by individual mechanical systems
- ◆ Observation of maintenance procedures
- ◆ Interviews with City Engineering Dept
- ◆ Interviews with City Maintenance Dept
- ◆ Gathering of Utility Billings for last (12) months

The Energy Study will eventually include other areas including Lighting, Building Envelope, System Improvement recommendation, etc.

The Energy Study is being completed by Comse Energy Managers, a consulting firm providing Energy Savings to clients for over thirteen (13) years.

All calculations included in this report have been completed by George J. Locher, Jr., Project Engineer for Comse Energy Managers. George has been qualified to conduct Energy Audits as defined by NECPA Title III and The Ohio Department of Energy since February 1980. He also assisted in the preparation of numerous successful TA reports and projects, as well as acted as a Reviewer of TA reports sited to the ODOE for two (2) years.

Note - See Energy Study Mechanical System Survey results following this sheet

**City of Cuyahoga Falls - Municipal Building
Heating/Cooling Equipment Field Survey
Prepared August 1996 by Comse Energy Managers**

Unit	System Type	Location	Heat Source	Cool Source		Nameplate Data				kW
						Volts	Ph	HP	Amps	
HPDD-1	Hi-Vel Dual Duct	Bsmt Boiler Room	BOILR-1	CHILL-1	Fan:	208	3	25	78.2	
HPDD-2	Hi-Vel Dual Duct	Bsmt Boiler Room	BOILR-1	CHILL-1	Fan:	208	3	25	78.2	
CHILL-1	Central Chiller Plant	Bsmt Boiler Room	N/A	N/A	(3) Stg Comp	208	3	125	359.0	
	Central Chiller Plant	Bsmt Boiler Room	N/A	N/A	Cond Pump	208	3	10	32.2	
	Central Chiller Plant	Bsmt Boiler Room	N/A	N/A	CHW Purnp	208	3	10	32.2	
	Central Chiller Plant	Roof	N/A	N/A	Twr Fan #1	208	3	3	11.0	
	Central Chiller Plant	Roof	N/A	N/A	Twr Fan #2:	208	3	3	11.0	
BOILR-1	Central Chiller Plant	Bsmt Boiler Room	N/A	N/A	Stm Boiler #1	2,500,000 BTU				
	Central Chiller Plant	Bsmt Boiler Room	N/A	N/A	Slm Boler #2	2,500,000 BTU				
	Central Chiller Plant	Bsmt Boiler Room	N/A	N/A	HW Pump #1:	208	3	7.5	25.3	
	Central Chiller Plant	Bsmt Boiler Room	N/A	N/A	HW Pump #2	208	3	7.5	25.3	
	Central Chiller Plant	Bsmt Boiler Room	N/A	N/A	Vac Ret Purnp	208	3	3	11.0	
	Police Bldg	Bsmt Boiler Room	N/A	N/A	Strn/HW Exch-1					
	Police Bldg (One is Back-up)	Bsmt Boiler Room	N/A	N/A	Exchl Pump #1	208	3	3	11.0	
DPAC-1	Snow Melt	Bsmt Boiler Room	N/A	N/A	Exch1Pump#2	208	3	3	11.0	
	Snow Melt	Bsmt Boiler Room	N/A	N/A	Stm/HW Exch2					
	Liebert Unit	Data Processing	N/A	N/A	Exch2Pump#1	208	3	0.75	3.2	
	Liebert Unit	Data Processing	N/A	N/A	Fan	208	3	3	11.0	10.0
	Liebert Unit	Data Processing	Electric - (3) stage	N/A	(3) Stg Ele Heat:	208	3		27.7	6.4
	Liebert Unit	Data Processing	N/A	N/A	Humidifier:	208	3		17.7	
	Liebert Unit	Data Processing	N/A	N/A	Dx, Split System Comp #1	208	3		27.0	
PDAC-1	Liebert Unit	Data Processing	N/A	N/A	Dx, Split System Comp #2	208	3		27.0	
	Liebert Unit	Data Processing	N/A	N/A	Dx, Split System Condenser	208	1		4.8	
	Packaged RT VAV	Police Building	N/A	N/A	Fan:	208	3	15	48.3	
		Roof	N/A	Econ, Dx	Cond Unit	208	3		115.0	
	Electric Reheat	Police Building	(1) Stage	N/A	W-A Ele RH	208	3		7.2	1.5
	Electric Reheat	Police Building	(3) Stage	N/A	WE Ele RH	208	3		8.3	3.0
	Electric Reheat	Police Building	(3) Stage	N/A	W-C Ele RH	208	3		24.9	9.0
	Electric Reheat	Police Building	(2) Stage	N/A	W-D-1 Ele RH	208	3		19.4	7.0
	Electric Reheat	Police Building	(2) Stage	N/A	W-D-2 Ele RH	208	3		19.4	7.0
	PDAC-2	Packaged RT VAV	Police Building	N/A	N/A	Fan:	208	3	10	32.2
		Roof	N/A	Econ, Dx	Cond Unit:	208	3		115.0	
Electric Reheat		Police Building	(1) Stage	N/A	W-A Ele RH	208	1		7.2	1.5

	Electric Reheat	Roof Police Building	(3) Stage	N/A	WS1 Ele RH	208	3	8.3	3.0
	Electric Reheat	Roof Police Building	(3) Stage	N/A	WS2 Ele RH	208	3	8.3	3.0
	Electric Reheat	Roof Police Building	(3) Stage	N/A	W-B-3 Eb RH	208	3	8.3	3.0
	Electric Reheat	Roof Police Building	(3) Stage	N/A	W-C Qe RH	208	3	24.9	9.0
	Electric Reheat	Roof Police Building	(2) Stage	N/A	W-D Ele RH	208	3	19.4	7.0
CCAHU1	Const Vol, Split Sys	Council Chamber Attic	N/A	N/A	Fan:	208	3	3	11.0
		Council Chamber Attic	Electric Reheat	N/A	(3) Stage	208	3	33.2	12.0
		Pad Mtd Cond Unit	N/A	Dx, Split System	Compressor #1	208	3	19.0	
		Pad Mtd Cond Unit	N/A	Dx, Split System	Compressor #2	208	3	19.0	
		Pad Mtd Cond Unit	N/A	Dx, Split System	Compressor #1	208	1	5.0	
		Pad Mtd Cond Unit	N/A	Dx, Split System	Compressor #2	208	1	5.0	

**City of Cuyahoga Falls Municipal Building
 Heating/Cooling Equipment Field Survey
 Prepared August 1996 by Comse Energy Managers**

Unit	System Type	Location	Heat Source	Cool Source		Volts	Nameplate Data			
							Ph	HP	Amps	kW
LDAH-1	Const Vol, Split Sys	Print Shop Mech Rm	Cooling Only	N/A	Fan	208	1	0.75	6.0	
		Roof	N/A	Dx, Split System	Cond IJnit#1	208	3		26.6	
LDAH-2	Const Vol, Split Sys	Print Shop Mech Rm	Cooling Only	N/A	Fan	208	1	0.75	6.0	
		Roof	N/A	Dx, Split System	Cond IJnit#1	208	3		26.6	
MAYHP1	Heat Pump	Mayor's Closet	Cooling Only	N/A	Fan	208	1	0.17	2.2	
		Mayor's Closet	N/A	City Water Cooled	Compressor:	208	3		7.6	
MDAH1	Const. Vol. Split Sys	Maint. Office Mech. Rm	N/A	N/A	Fan	208	3	0.5	4.1	
		Maint. Office Mech. Rm	N/A	Dx. Split System	Compressor	208	3		12.0	
		Roof	N/A	Dx. Split System	Condenser	208	1		5.0	
WCHP2	Heat Pump	2 nd Floor Ceiling	Cooling Only	N/A	Fan	208	1	0.17	2.2	
			N/A	City Water Cooled	Compressor	208	3		7.6	
CDHP3	Heat Pump	Com Develop	Cooling Only	N/A	Fan	208	3	0.5	3.2	
			N/A	City Water Cooled	Compressor	208	3		11.6	

City of Cuyahoga Falls, Ohio - Municipal Building Project Staff

Don L. Robart	Mayor	City of Cuyahoga Falls, Ohio
Barbara L. Sculley	Service Director	City of Cuyahoga Falls, Ohio
Valerie Wax Carr	Deputy Service Director	City of Cuyahoga Falls, Ohio
Jeff Arburn	Operations	City of Cuyahoga Falls, Ohio
Doug Nissel	Engineering	City of Cuyahoga Falls, Ohio
Dan Henry	Maintenance	City of Cuyahoga Falls, Ohio
George J. Locher, Jr.	Comse Energy Managers	Consultant
Richard Lulbincki	Comse Energy Managers	Consultant

City of Cuyahoga Falls, Ohio - Municipal Building Additional Benefits of Project (ECM-1) Completion

- 1) It will be much easier for Maintenance to troubleshoot problems when the ability to check individual system Load Status, Space Temperatures and Supply Air Temperature are all available from a central location.
- 2) Reduced runtimes will result in longer equipment life.
- 3) Runtime activated logs can be used to alert Maintenance to perform Preventative Maintenance tasks.
- 4) Forty-eight hour history provided for each load and sensor allows the troubleshooting of problems that occur outside of normal maintenance hours.
- 5) Control of all HVAC units will result in building-wide temperature ranges which will result in even temperatures throughout the building and improved overall employee comfort.

City of Cuyahoga Falls, Ohio - Municipal Building Energy Conservation Program History

The City of Cuyahoga Falls owns a number of properties throughout the city. Unlike an owner of one or two properties, the City must complete a much larger scope, and therefore must develop a plan that will allow the completion of a program in an organized manner.

The first step in this process is to recognize the types of mechanical and electrical equipment in City owned buildings. The City Engineering Dept has, over the past three years, developed CAD generated floor plans for each of the City buildings. These plans also identify the location of various mechanical and electrical systems.

The Mayor of Cuyahoga Falls, Ohio, Don Robart, recognizes the importance of increasing energy efficiency City-wide; not just in City buildings. To show their commitment, the City has joined the REBUILD AMERICA program as a Partner in the Planning Phase. This commitment was made through a collaborative effort with the United States Conference of Mayors.

City of Cuyahoga Falls, Ohio - Municipal Building Energy Conservation Program Future Plans

The next logical step for the City to take in their Energy Conservation Program is to complete Energy Studies in each of the City owned properties. (The Municipal Building was selected as the starting point of the program to provide a good example and to insure city-wide cooperation on future projects.

As stated elsewhere in this report, the Proposed Project (ECW1) will be expanded in this building as funds become available.

Future plans include the installation (based on feasibility) of Energy Management Systems and other energy saving measures throughout all City owned buildings. The fact that the City Engineering Dept and the City Maintenance Dept will be familiar with various energy savings projects will insure the creative use of such measures in future renovations and new construction projects.

City of Cuyahoga Falls, Ohio - Municipal Building Regularly Scheduled O & M Procedures

- * Annual boiler flue gas analysis and adjustments
- * Leaks repaired as soon as they occur
- * Boiler and heat exchanger blowdowns occur on regular scheduled basis
- * Boiler and heat exchangers torn down and inspected/cleaned annually
- * Valves inspected on regular basis
- * Strainers, floats and filters cleaned / replaced on regular basis

The Building shows signs of attentive maintenance and is in good overall condition

**City of Cuyahoga Falls, Ohio - Municipal Building
Completion Schedule for Proposed Project (ECM-1)**

ADMINISTRATION	<	>																
DESIGN			<	-	>													
MAT'E ORDER/DELNER						<	.	>										
PREFABRICATION									<	-	>							
INSTALLATION											<	.	.	>				
CHECK-OUT																<	>	
	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

NOTE - WEEK 1 THRU 18 INDICATE WEEKDAYS (NORMAL 8 HOUR WORKDAYS) & DO NOT INWUDE WEEKENDS

**City of Cuyahoga Falls, Ohio - Municipal Building
 Cities and Counties Energy Conservation Program - Budget Detail**

Budget Categories	CCEC Funds Requested	Amount of Other Funds	Total Line Item Costs
Energy Conservation Measure Costs (Reimbursable UD to 50%: Max. \$15,000)			
Contractual Services	\$0.00	\$0.00	\$0.00
Material & Supplies	\$10,842.59	\$0.00	\$10,842.59
Labor*	\$4,157.41	\$13,080.22	\$17,243.63
Design	\$0.00	\$5,540.78	\$5,540.78
Other**	\$0.00	\$0.00	\$0.00
<u>Total Project Costs</u>	\$15,000.00	\$18,627.00	\$33,627.00

* See Salary I Fringe Identification by Position following this sheet

City of Cuyahoga Falls, Ohio - Municipal Building Salary and Fringe Identification by Position

Position:	Journeyman Electrician	(Foreman) Journeyman Electrician
Base Rate	\$22.55	\$24.70
Welfare Fund (per dock hour)	\$2.40	\$2.40
Retiree Benefit Fund (per dock hour)	\$0.26	\$0.26
United Fund (per paid hour)	\$0.02	\$0.02
Pension Annuity (per paid hour)	\$3.04	\$3.04
General Liability Insurance (per hour)	\$0.26	\$0.26
NEBF (34b)	\$0.68	\$0.68
NECA Dues (1%)	\$0.23	\$0.23
Apprentice Fund (.5%)	\$0.11	\$0.11
FICA (7.65%)	\$1.73	\$1.73
FUI (.8%)	\$0.18	\$0.18
SUI (4.9%)	\$1.11	\$1.11
Workmen Comp (8.37%)	\$1.89	\$1.89
Overhead	\$34.46	\$36.61
	\$5.10	\$5.10
Rounding	\$39.56	\$41.71
	\$0.14	\$0.14
Profit (10%)	\$39.70	\$41.85
	\$3.97	\$4.19
	\$43.67	\$46.04

EXHIBIT II

EXHIBIT II

Reporting Procedures

1. Program Reports

All grant recipients are required to submit programmatic reports. One report is to be submitted at the 4-month point, showing that the project is ready to be implemented.

A final report is to be submitted within 30 days after the end of the grant period. This report should be a narrative on the entire grant period detailing final annual energy savings projections and any other significant developments which may have occurred during the grant period.

Request for payment will be held if current financial and programmatic reports are not on file with the Ohio Department of Development, Office of Energy Efficiency.

2. Financial Reports

A financial report (Exhibit B.1) is due at the end of the project. Copies of purchase orders, invoices, and receipts for all expenditures must be maintained by the grantee for verification with the program report.

This report should be itemized by each energy conservation measure (if applicable).

3. Request for Payment

Requests for Payment (Exhibit B.2) may be made on a reimbursement basis upon completion of the project and are to be submitted with the financial report (Exhibit B.1). Failure to submit Exhibit B.1 with Exhibit B.2 will result in a delay in payment of grant funds.

**EXHIBIT B.1
FINANCIAL STATEMENT**

PLEASE PRINT ALL INFORMATION

GRANTEE	Date
ADDRESS	Grant No
AGREEMENT TITLE	Federal Tax #

1 EXPENDITURES

BUDGET CATAGORIES	TOTAL ACREEMENT BUDGET	EXPENDITURES THIS PERIOD FROM TO	EXPEND TURES TO DATE FROM TO	BALANCE	NON-ODOD PROJECT FUNDS EXPENDED (IF APPLICABLE)
TOTAL EXPENDITURES					

11 EARNINGS THIS PERIOD TO DATE

INTEREST EARNED		AUTHORIZED SIGNATURE
INTEREST SPENT		PRINT NAME DATE~
INTEREST EARNINGS MAY NOT BE SPENT WITHOUT PRIOR WRITTEN APPROVAL FROM OHIO DEPAFT MENT OF DEVELOPMENT		TITLE

FOR STATE USE ONLY

MONITOR SIGNATURE

PANT NAME

DATE

**EXHIBIT B.2
REQUEST FOR PAYMENT I**

PLEASE TYPE ALL INFORMATION

REQUEST #

GRANTEE.

DATE

ADDRESS

GRANT NO.

FEDERAL TAX #

				TOTAL
A. TOTAL OF APPROVED AGREEMENT	\$	\$	\$	\$
B. FUNDS RECEIVED TO DATE	\$	\$	\$	\$
C. FUNDS REQUESTED BUT NOT RECEIVED (INCLUDING THIS REQUEST)	\$	\$	\$	\$
D. TOAL FUNDS RECEIVED AND REQUESTED	\$	\$	\$	\$
E. AGREEMENT BALANCE (A-D)	\$	\$	\$	\$
F. TOTAL CASH REQUESTED TO DATE (LINE D)	\$	\$	\$	\$
G. EXPENDITURES TO DATE (FROM MONTHLY FINANCIAL STATEMENTS)	\$	\$	\$	\$
H. BALANCE (F-G)	\$	\$	\$	\$
I. FUNDS REQUESTED THIS REPORT PERIOD	\$	\$	\$	\$
_____ ADVANCE _____ REINBURSMENT				

ALL REQUESTS FOR PAYMENTS MUST INCLUDE SUPPORTING DOCUMENTATION FOR ALL EXPENDITURES

CERTIFICATION

I hereby certify that the above amounts are true and accurate to the best of my knowledge and that all expenditures are solely for the purpose set forth in the Agreement.

PLEASE RETURN TO:

OHIO Department OF DEVELOPMENT

DATE: _____

OFFICE OF ENERGY CONSERVATION

AUTHORIZED

SIGNATURE _____

P.O. BOX 1001

PRINTED

NAME _____

COLUMBUS . OHIO 43266—0101

TITLE _____

STATE USE ONLY BELOW THIS LINE

FISCAL APPROVAL

Approval of complete appropriate fiscal documentation and availability of money In

encumbrance is hereby certified to merit payment in accordance with conditions of the Agreement
Authorized Signature

Printed Name

Date:

MONITOR APPROVAL

Performance of Grantee to date is hereby certified to merit payment and all reports have been submitted in accordance with conditions of the Agreement

Authorized Signature

Printed Name

Date:

EXHIBIT III

**OFFICE OF ENERGY EFFICIENCY (OEE)
AUDIT POLICY**

The Office of Energy Efficiency will follow Federal standards set forth in the U.S. Office of Management and Budget issued Circular No. A-133, Audits of Institutions of Higher Education and Other Nonprofit Organizations, March 16, 1990 and OMB Circular No. A-128, Audits of State and local Governments, April 12, 1985.

State and local governments, institutions of higher education, hospitals and other nonprofit organizations are required to arrange for an audit of their financial operations, including compliance with all Federal laws and regulations every year. Upon receipt of the annual audit performed by an independent auditor, grantees will be required to submit a copy of the audit report to the OEE at the end of the current grant period. These audit reports will be reviewed by the Ohio Department of Development Audit office and, to the extent possible, will rely on the results of these grantee arranged audits.

The OEE will employ the following guidelines in determining the audit requirements for non-profit agencies. These are highlights of the Audit Policy (in some instances, the policy set forth by the OEE is more stringent than that set forth in A-133 and A-128).

- * Single audits are generally required when an agency covered by OMB Circular A-133 receives more than \$5,000 in Federal financial assistance. For State and local governments the limit of Federal financial assistance for a mandatory single audit is \$525,000. The grantees are required to send the OEE a copy of the annual agency-wide audit report for each of the agency's fiscal years in which the grant was open. The independent auditor shall provide reports on the grantee's financial statements on legal compliance with significant terms of the grant agreement, and on the grantee's internal accounting and administrative controls.
- * Agencies not covered by the Single Audit Act and receiving Federal financial assistance under \$5,000, need not obtain an audit, but will continue to be monitored by the OEE and are required to perform an audit if one is requested. The same restrictions apply to State and local governments receiving less than \$25,000.
- * Federal financial assistance is defined as any assistance provided by a Federal agency to a recipient or sub-recipient to carry out a program. Such assistance may be in the form of: Grants, Contracts, Cooperative Agreements, Loans, Loan Guarantees, Property Interest Subsidies, Insurance, Direct Appropriations, and Other Non-cash Assistance. Such assistance does not include direct Federal cash assistance to individuals. Such assistance includes awards received

APPLICATION FOR
FEDERAL ASSISTANCE

City of Cuyahoga Falls~ Ohio
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Internal Government
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2310 Second Street
Cuyahoga Falls OH 44221
Name and telephone number of the person to whom
the application should be sent
Valerie Wax Carr
(330) 971-8240

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When the Commission on Revision
of the Ohio Revised Code is in session
the Commission shall be held in
Columbus, Ohio at the Ohio Statehouse
Room 1000, 1000 East Ohio Statehouse
Bldg., Columbus, Ohio 43212

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Cities X, Counties Energy Conservation Prog.

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CitY - Municipal Building

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City of Cuyahoga Falls

Municipal Building Energy Conservation Pro

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Don L. Robart, Mayor

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**CERTIFICATIONS REGARDING LOBBYING; DEPARTMENT, SUSPENSION AND OTHER
RESPONSIBILITY MATTERS; AND DRUG-FREE WORKPLACE REQUIREMENTS**

Applicants should refer to the regulations cited below to determine the certification to which they are required to attest. Applicants should also review the instructions for certification included in the regulations before completing this form. Signature of this form provides for compliance with certification requirements under 34 CFR Part 32. -New Restrictions on Lobbying." and 34 CFR Part 85. Government-wide Department and Suspension (Non-procurement) and Government-wide Requirements for Drug-Free Workplace (Grants) The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Energy determines to award the covered transaction. grant. cooperative agreement.

1. LOBBYING

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loans, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.
 - (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL Disclosure Form to Report Lobbying, in accordance with its instructions.
 - (3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.
- (b) Have not within a three-year period preceding this proposal been convicted of or had civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction or contract under a public transaction: violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification and
 - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal

3. DRUG-FREE WORKPLACE

This certification is required by the Drug Free Workplace Act of 1988 (Pub. L.100-690, Title V Subtitle D) and is implemented through additions to the Department and Suspension regulations, published in the Federal Register on January 31, 1989, and May 25, 1990.

**ALTERNATE 1
(GRANTEES OTHER THAN INDIVIDUALS)**

- (1) This grantee certifies that it will or will continue to provide a drug-free workplace by:
 - (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
 - (b) Establishing an ongoing drug-free awareness program to inform employees about:
 - (1) The dangers of drug abuse in the workplace
 - (2) The grantee's policy of maintaining a drug-free workplace;

2. DEPARTMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

- (3) Any available drug counseling, rehabilitation and employee assistance program and
- (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace

- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a):
- (d) Notifying the employee in the statement required by paragraph (a) that as a condition of employment under the grant, the employee will:

ASSURANCES—NON-CONSTRUCTION PROGRAMS

Note: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant I certify that the applicant:

- 1) Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
- 2) Will give the awarding agency, the Comptroller General of the United States, and if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives
- 3) Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
- 4) Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
- 5) Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§ 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the nineteen statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R.900, Subpart F).
- 6) Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. ii 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§ 6101-6107), which prohibits discrimination on the basis of age; the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (e) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (f) §§ 523 and 527 of the Public Health & Service Act of 1912 (42 U.S.C. 290 td-3 and 290 ee3), as amended, relating to confidentiality- of alcohol and drug abuse patient records; (g) the Title VIII of the Civil Rights Act of 1968 (42 U.S.C. § 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (h) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (i) the requirements of any other nondiscrimination statute(s) which may apply to the application.
- 7) Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
- 8) Will comply with the provisions of the Hatch Act (5 U.S.C. i- 1601-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
- 9) Will comply, as applicable, with the provisions of the Davis -Bacon Act (40 U.S.C. §§ 276a to 276a7), the Copeland Act (40 U.S.C. 5 276c and 18 U.S.C. §§ 874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. ii 327-333). regarding labor standards for federally assisted construction sub-agreements.

U.S. Department of Energy
Assurance of Compliance
Nondiscrimination in Federally Assisted Programs
OMB Burden Disclosure Statement

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of Management and Budget, Paperwork Reduction Project (1910-0400), Washington, DC 20503.

City of Cuyahoga Falls, Ohio (Hereinafter called the Applicant) HEREBY AGREES to comply with Title VI of the Civil Rights Act of 1964 (Pub. L. 88-352), Section 16 of the Federal Energy Administration Act of 1974 (Pub. L. 93-275), Section 401 of the Energy Reorganization Act of 1974 (Pub. L. 93-438), Title IX of the Education Amendments of 1972, as amended, (Pub. L. 92-318, Pub. L. 93-568, and Pub. L. 94-482), Section 504 of the Rehabilitation Act of 1973 (Pub. L. 90-112), the Age Discrimination Act of 1975 (Pub. L. 94-135), Title VIII of the Civil Rights Act of 1968 (Pub. L. 90-284), the Department of Energy Organization Act of 1977 (Pub. L. 95-91), the Energy Conservation and Production Act of 1976, as amended, (Pub. L. 94-385) and Title 10, Code of Federal Regulations, Part 1040. In accordance with the above laws and regulations issued pursuant thereto, the Applicant agrees to assure that no person in the United States shall, on the ground of race, color, national origin, sex, age, or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity in which the Applicant receives Federal assistance from the Department of Energy.

Applicability and Period Of Obligation

In the case of any service, financial aid, covered employment, equipment, property, or structure provided, leased, or improved with Federal assistance extended to the Applicant by the Department of Energy, this assurance obligates the Applicant for the period during which Federal assistance is extended. In the case of any transfer of such service, financial aid, equipment, property, or structure, this assurance obligates the transferee for the period during which Federal assistance is extended. If any personal property is so provided, this assurance obligates the Applicant for the period during which it retains ownership or possession of the property. In all other cases, this assurance obligates the Applicant for the period during which the Federal assistance is extended to the Applicant by the Department of Energy.

Employment Practices

Where a primary objective of the Federal assistance is to provide employment or where the Applicant's employment practices affect the delivery of services in programs or activities resulting from Federal assistance extended by the Department, the Applicant agrees not to discriminate on the ground of race, color, national origin, sex, age, or disability, in its employment practices. Such employment practices may include but are not limited to, recruitment, advertising, hiring, layoff or termination, promotion, demotion, transfer, rates of pay, training and participation in upward mobility programs; or other forms of compensation and use of facilities.

Subrecipient Assurance

The Applicant shall require any individual, organization, or other entity with whom it subcontracts, subgrants, or subleases for the purpose of providing any service, financial aid, equipment, property, or structure to comply with laws and regulations cited above. To that end, the Subrecipient shall be required to sign a written assurance form; however, the obligation of both recipient and Subrecipient to ensure compliance is not relieved by the collection or submission of written assurance forms.

Data Collection and Access to Records

The Applicant agrees to compile and maintain information pertaining to programs or activities developed as a result of the Applicant's receipt of Federal assistance from the Department of Energy. Such information shall include, but is not limited to the following: (1) the manner in which services are or will be provided and related data necessary for determining whether any persons are or will be denied such services on the basis of prohibited discrimination; (2) the population eligible to be served by race, color, national origin, sex, age and disability; (3) data regarding covered employment including use or planned use of bilingual public contact employees serving beneficiaries of the program where necessary to permit effective participation by beneficiaries unable to speak or understand English.

(4) the location of existing or proposed facilities connected with the program and related information adequate for determining whether the location has or will have the effect of unnecessarily denying access to any person on the basis of prohibited discrimination; (5) the present or proposed membership by race, color, national origin, sex, age and disability in any planning or advisory body which is an integral part of the program; and (6) any additions written data determined by the Department of Energy to be relevant to the obligation to assure compliance by recipients with laws cited in the first paragraph of this assurance

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CUYOHOGA FALLS MUNICIPAL BUILDING LIGHTING UPGRADES

COMSE performed an analysis of the Cuyahoga Falls Municipal Building lighting sources. Potential lighting upgrades have been proposed. These upgrades include replacing existing T12 Lamps with energy saving magnetic ballasts as a turn-key program. In addition, replacing existing 75 watt incandescent bulbs with 20 watt Electronic Biax Reflector Lamps.

The lighting upgrade project would produce an annual savings of \$8,996.96. According to the Energy Savings Calculations the payback on the lighting upgrade is 5 years.

GOAL:	Increase Municipal Building Lighting Sources to more efficient energy methods.
PARTNERS:	City of Cuyahoga Falls, COMSE Energy Managers
FUNDING:	City of Cuyahoga Falls - potential cost \$45,242.36

City of Cuyahoga Falls, Ohio - Municipal Building
Lighting Energy Conservation Measure ECM-2

Prepared by Comse Energy Managers - October 1996 GJLJ

ECM - 2 Description

Replace Existing T12 Lamps and Energy Saving Magnetic Ballasts with T8 Lamps and Electronic Ballasts (Low THD, High PF) . City to contract with outside contractor to provide a turn key implementation of this ECM. ECM - 2 implementation to take place as a single, complete relamping done at the same approximate time.

City of Cuyahoga Falls, Ohio - Municipal Building
Lighting Energy Conservation Measure ECW2
Prepared by Comse Energy Managers - GJLJ
September 1996

Existing Fixture Type A 1 4' 41amp fixture w/ 35 watt T12 lamps and (2) ES Magnetic ballasts]
Proposed Fixture Type A 1 4' 41amp fixture w/ 32 watt T8 lamps and (2) High Frequency Electronic Ballasts]

Existing 187 Type A

Proposed	187 Type A		
144 watts ea =	26928 watts total		26.928 kW
116 waHs ea =	21652 waHs total		21.692 kW
	5236 waHs saved		5.236 kW saved
	per hour		

Existing Fixture Type B 1 4' 31amp fixture w/ 35 watt T12 lamps and (1) ES Magnetic ballast]
Proposed Fixture Type B 1 4' 31amp fixture w/ 32 waH T8 lamps and (1) High Frequency Electronic Ballast]

Existing 210 Type B @

Proposed	210 TVDe B f		
100 watts ea =	21000 watts total		21 kW
88 waffs ea =	18480 watts total		18.0 kW
	2520 watts saved		2.52 kW saved
	per hour		

Existing Fixture Type C 1 4' 21amp fixture w/ 35 watt T12 lamps and (1) ES Magnetic ballast]
Proposed Fixture Type C 1 4' 21amp fixture w/ 32 waH T8 lamps and (1) High Frequency Electronic Ballast]

Existing 334 Type C @ 72 watts ea = 24048 watt total 24048 kW

Proposed 334 Type C @ 58 waHs ea = 19372 waHs total 19.372 kW

4876 waHs saved 4.676 kW saved per hour

Existing Fixture Type D [4' 11amp fixture w/ 35 watt T12 lamp and (1) ES Magnetic ballast]

Proposed Fixture Type D 1 4' 11amp fixture w/ 32 waH T8 lamp and (1) High Frequency Electronic Ballast]

Existing 29 Type D @

Proposed	29 Type D @		
43 watts ea =	1247 watts total		1.247 kW
32 waffs ea =	28 waffs total		0.28 kW saved
	319 waHs saved		
	per hour		

Existing Fixture Type E 1 8' 21amp fixture w/ 60 watt T12 lamps and (1) ES Magnetic ballast]

Proposed Fixture Type E 1 8' 21amp fixture w/ 59 watt T8 lamp and (1) High Frequency Electronic Ballast]

Existing 56 Type E

Proposed	56 Type E		
123 watts ea =	6888 watts total		6.888 kW
110 waHs ea =	6160 waHs total		1.16 kW

728 watts saved	0.728 kW saved
per hour	

Existing Fixture Type F 1 8'11amp frxture wl 60 watt T12 lamp and (1) ES Magnetic ballast]

Proposed Fixture Type F 1 8'11amp fixture wl 59 watt T8 lamp and (1) High Frequency Electronic Ballast

Existing 9 Type F@ 83 wattsea= 747 wattstotal 0.747 kW

Proposed 9 Type F @ 70 watts ea = ~0 watts total 0.63 kW

117 waHs saved 0.117 kW saved per hour

Page 2 of 5

City of Cuyahoga Falls Ohio - Municipal Building
 Lighting Energy Conservation Measure EC1*2
 Prepared by Comse Energy Managers - GJLJ
 September 1996

Fixture Type A 14 41amp fixturel

Existing 33 Type A @ 144 watts ea = 4752 watts x 608 hrs = 2889 kWh per month
 Existing 154 Type A @ 144 watts ea = 22176 watts x 260 hrs = 5766 kWh per month

Existing 26928 8655 kWh Der month Existing 8655

Proposed 33 Type A @ 116 watts ea = 3828 waHs x 608 hrs r 2327 kWh per **month**
 Proposed 154 Type A @ 116 watts ea = 17864 watts x 260 hrs = 4645 kWh per

month

Proposed 21692 1972 kWh per month Proposed 3972

5.2 kW saved Der month

Page 3 of 5

1883 kWh saved ner month

Fixture Type D [4 31amp fixturel

Existing 163 Type B @ 100 watts ea = 16300 watts x 608 hrs = 9910 kWh per month
 Existing 47 Type B @ 100 watts ea = 4700 watts x 260 hrs = 1222 kWh per month
 Existing 21000 11132 kWh per month Existing 11132

2.5 kW saved per month

Proposed 163 Type B @ 88 watts ea = 14344 watts x 608 hrs = 8721 kWh per month Proposed 47 Type
 Be 88watts ea= 4136 watts x 260 hrs = 1075 kWhpermonth

Proposed 18480 9737 kWh per month Proposed 9797

1336 kWh saved per month

Fixture Type C [4 21amp fixturel

Existing 131 Type C @ 72 watts ea= 9432 watts x 608 hrs = 5735 kWhpermonth
 Existing 203 Type C @ 72 watts ea = 14616 watts x 260 hrs = 3800 kWh per month

Existing 24048 9535 kWh per month Existing 9535

Proposed 131TypeC@ 58wattsea= 7598wattsx608hrs = 4820kWhpermonth
 Proposed 203 Type C @ 58 waHs ea = 11774 waHs x 260 hrs = 3061 kWh per month
 Proposed 19372 7681 kWhpermonth Proposed 7681

4.7 kW saved ner month

1854 kWh saved Per month

0.3 kW saved per month

Fixture Type D { 4 11amp fixturel

Existing 8 Type D @ 43 watts ea = 344 watts x 608 hrs = 209 kWh per month
 Existing 21 Type D @ 43 watts ea = 903 watts x 260 hrs = 235 kWh per month

Existing 1247 444 kWh per month Existing 444

Proposed 8 Type D @ 32 waHs ea = 256 watts x 608 hrs = 156 kWh per month

Proposed **21 Type D@ 32watts ea- 672 waHs x 280 hrs • 175 kWhpermonth**

.....

.....

Proposed **928 330 kWh per month Proposed 330**

114 kWh saved per month

City of Cuyahoga Falls, Ohio - Municipal Building
 Lighting Energy Conservation Measure ECW2
 Prepared by Comse Energy Managers - GJLJ
 September 1996

Fixture Type E | t 21amp titturel

Existing	56 Type E @ 123 watts ea =	6888 watts x 260 hrs =	1791 kWh per month
Existing	6888	1791 kWh per month	Existing 1791
Proposed	56 Type E qg 110 watts ea =	6160 watts x 260 hrs ~	1602 kWh per month
Proposed	6160	11102 kWh per month	Proposed 1602

0.7 kW saved Der month

Total kW saved per month through ECM-2 Implementation = 13.8

Total kWh saved per month through ECM 2 Implementation 5206

Page 4 of 5

189 kWh saved Der month

Fixture Type F 1 8'11amp firturel

Existing 9 Type F @ 83 waHs ea = 747 waHs x 260 hrs = 194 kWh per month

Existing	747	194 kWh per month	Existing 194
Proposed	0 T,YPe F @	70 watts ea =	630 watts x 260 hrs s	1~ kWh per month

Proposed

1 30	11 4 kWh nermonth	Prowsed	1t4
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0.1 kW saved per month

30 kWh saved per month

Ce of Cuyahoga Falls, Ohio - Municipal Building
 Lbhling Energy Conse vation Measure ECM-2 Irrnplementation Estimate
 Prepaed by Comse Energy Managers - October 1996 GJLJ

MATERIAL
LABOR

ITEM	QTY	S per					
ADVANCE # RCN-2P32 (CENTIUM) BALUST	710		x	\$20.69	=		
S14,689.90							
ADVANCE # RCN-3P32 {CENTIUM) BALLAST	210		x	\$23.46	=		
S4,926.60							
ADVANCE # RCN-1P32 (CENTIUM) BALLAST	29		x	\$20.69	=	\$600.01	
ADVANCE # REL-2P5iS-RH-TP 8ALLAST	65		x	\$31.25	=		
S2,031.25							
4 T8 32 WATT LAMPS	2100		x	\$2.35	=	\$4,935.00	
8' T8 60 WATT LAMPS	125		x	\$6.56	=	\$820.00	

.....
 TOTAL MATERIAL COST = \$28,002.76

Page 5 of 5

TASK

REPLACE EXISTING (2) LAMP 4 FOOT FIXTURE BALLAST AND LAMPS WITH NEW ELECTRONIC BALLAST AND 32 WATT TB LAMPS REPLACE EXISTING (3) LAMP 4 FOOT FIXTURE BALLAST AND LAMPS WITH NEW ELECTRONIC BALLAST AND 32 WATT T8 LAMPS REPLACE EXISTING (1) LAMP 4 FOOT FIXTURE BALLAST AND LAMPS WITH NEW ELECTRONIC BALLAST AND 32 WATT T8 LAMP REPLACE EXISTING (2) LAMP 8 FOOT FIXTURE BALLAST AND LAMPS WITH NEW ELECTRONIC BALLAST AND 59WATTT8LAMPS	65	x	20 =	1300	MINUTES	=	21.7	HOUF
--	----	---	------	------	---------	---	------	------

.....
 338.1 HOUR;

710	x	20 =	14200	MINUTES =	236.7	HOURC
210	x	20 =	4200	MINUTES	=	70.0 HOU>t
29	x	20 =	580	MINUTES =	9.7	HOURS
TOTAL LABOR COST 2 338.1 X \$45.00 PER HR 12 \$15,214.50						

TOTAL MATERIAL COST 2 \$28,002.7t

TOTAL LABOR COST = \$15,214.50

TOTAL COST (L&M) = \$43,217.2t

TOTAL ANNUAL kWh SAVED THROUGH ECM-2 IMPLEMENTATION =
62,472 kWh

ACTUAL 'LOW END' COST PER kWh (@ CURRENT RATE SCHEDULE - GSS) =
\$0.082 / kWh

.....
TOTAL ANNUAL ENERGY SAVINGS (@ CURRENT RATE SCHEDULE - GSS) =
\$5,110.40

TOTAL COST (LUD) = \$43,217.26 - TOTAL ANNUAL SAVINGS = \$5,110.40
SIMPLE PAYBACK = 8.4 YEARS

City of Cuyahoga Falls, Ohio • Municipal Building
Lighting Energy Conservation Measure ECM-3
Prepared by Comse Energy Managers - October 1996 GJLJ

ECM - 3 Description

Replace (77) Existing 76 Watt incandescent Recessed Can Fixture Lamps with (77) New 20 Watt Electronic Biax Reflector Lamps (GE # FLE20TBX / HPF / RFL / SW). City to purchase replacement lamps directly from lamp supplier. City maintenance personnel provide lamp replacement labor. Initial lamp replacement to take place as a single, complete relamping done at the same approximate time.

City of Cuyhoga Falls Ohio - Municipal Building
Lighting Energy Conservation Measure ECM-3 Implementation Estimate
Prepared by Comse Energy Managers - October 1996 GtJ

Lighting System

Lamp Type

A Lamp Life

P Lamp Price

C Lamp Watts

D Annual Operating Hours

E Labor per Relamp

F Average Cost per kWh

G Total Quantity

#1

Present Condition

incandescent

750 hours

\$2.50

75 watts

4632 hours

\$5.00

\$0.082

n

Annual System Operating Costs

H $(B \times D / A) \times G$ Lamps \$1188.88

I $(E \times D / A) \times G$ Labor \$2377.76

J $(C \times D \times F \times G) / 1000$ Electric \$2,193.48

K $H + I + J$

Estimated Savings From New Lamps

L $(K1 - K2)$

N $(B2 - B1) \times GIM$

Total

Annual Savings

Simple Payback

\$5,760.12

Page 2 of 2

#2

ECM-3 Condition

Triple Biac

10000 hrs \$21.30

20 watts

4632 hours \$15.00 \$0.082

77

\$3,880.50

0.37 years

\$759.69

\$535.00

\$584.93

S1.879 62

City of Cuyahoga Falls, Ohio Municipal Building
Lighting Energy Conservation Measure ECM4
Prepared by Comse Energy Managers - October 1996 GJLJ

ECM - 4 Description

This ECM shows the interaction of the implementation of both Lighting ECM - 2 and ECM - 3. The City would contract with an outside contractor to provide a turn-key implementation of ECM - 2. The City Maintenance Dept would provide a turn-key implementation of ECM - 3. The implementation of ECM - 2 and ECM - 3 should be coordinated to take place as a single, complete relamping done at the same approximate time.

City of Cuyahoga Falls, Ohio - Municipal Building

Ughting Energy Conservation Measure ECM4 Implementation Estimate

PreDared bY Comse Enerw Manaasers - October 1996 GJLJ

MATEBL

L~BOR

ITEM

Total ECM - 2 Material Cost = { Provided by Outside Contractor) S28,002.76

Total ECM - 3 Matenal Cost = (Provided by City Maintenance) S1,640.10

.....

TOTAL MATEBL COST =

S2@

TASK

Total ECM - 2 Labor Cost = (Provided by Outside Contractor) S15,214.50

Total ECM - 3 Labor Cost = (Provided by City Maintenance) S385.00

TOTAL LABOR COST .

TOTAL MATERAL COST s S29,~2.86

TOTAL LABOR COST = S15,5~.50

TOTAL COST {LSwM) = S45,242.36

Total Annual ECM-2 Energy Savings (@ Current Rate Schedule - GSS) =

Total Annual ECW3 Energy Sa9ings (@ Current Rate Schedule - GSS) =

S15,599.58

\$.116.46

S3,880 50

.....
TOTAL ANNUAL ENERGY SAVINGS (@ CURRENT RATE SCHEDULE - GSS) =

S8,996.96

ai

TOTAL COST (L&M) = S45,242.36

TOTAL ANNUAL SAVINGS = S8,996.98

SIMPLE PAYBACK =S.0 YEARS

COMMUNITY

OUTREACH

Tree Power Program

The Tree Power Program, established in 1992 is a favorable citizen program. The program developed as a cooperative effort with American Public Power Association to improve the environment and promote energy conservation.

The Tree Power Program is a pledge to plant one tree for every meter on the Cuyahoga Falls Electric System. To date approximately 300 have been planted through this program. It is expected that an additional 55 trees will be planted in 1997

Approximately \$10,000.00 is budgeted per year for this program.

In addition, as a special 1994 project the City of Cuyahoga Falls purchased and gave citizens 2,000 Maple and Dogwood whips, approximately 18 inches high, to be planted on private property.

GOAL	Cooperative effort to improve the environment and promote energy conservation.
PARTNERS	Cuyahoga Falls Electric System, Cuyahoga Falls Citizens, American Public Power Association (APPA)
FUNDING	City of Cuyahoga Falls - \$10,000 per year Electric Fund

Light Bulb Give - Away Program

The Light Bulb Give - Away Program, started in 1990 as a method to encourage the use of energy efficient lighting. Each customer of the Cuyahoga Falls Electric System has the opportunity to help the environment while saving money. During the month of December, citizens can receive two (2) free energy efficient compact fluorescent bulbs. The compact fluorescent light bulbs produce the same amount of light as their incandescent counterparts, but cost about 1/4 as much to operate.

Environmentally, this results in burning less coal, reducing CO2 emissions and other acid rain producing emissions. In addition, another benefit of using the new, high - efficiency bulbs is that it reduces trash and helps conserve scarce landfill capacity.

GOAL	Encourage use of Energy efficient lighting sources among the Cuyahoga Falls Electric customers.
PARTNERS	Cuyahoga Falls Electric System, Cuyahoga Falls Electric (Customers)
FUNDING	City of Cuyahoga Falls Electric Fund - varies per year

Community Development Block Grant (CDBG) Projects

The Cuyahoga Falls Housing Rehabilitation Program has provided energy conservancy furnaces, hot water heaters, home insulation materials, weather-stripping, windows, and doors. The CDBG funding assists low income residents in upgrading their homes to more energy efficient methods.

Additionally, Cuyahoga Falls refers many households to the Summit County Home Weatherization Program. The Cuyahoga Falls program in conjunction with the Summit County Program, work to increase the energy efficiency of its local residents. The Cuyahoga Falls program has helped many of its residents. The Cuyahoga Falls program has served 2,000 residents, since its inception in 1978.

GOAL	To assist low income residents in upgrading their homes to more energy efficient methods.
PARTNERS	Cuyahoga Falls Community Development Department, Local Contractors Summit County, Cuyahoga Falls Citizens, various area assistance agencies
FUNDING	Community Development Block Grants - Federal Government

COMMERCIAL

Commercial

A creation of a City of Cuyahoga Falls commercial outreach program is currently under consideration. Since the City of Cuyahoga Falls is an electric power distributor, the Cuyahoga Falls Electric Department and Community Development Department are joining together to develop an approach to the City's commercial customers.

Cuyahoga Falls realizes that the commercial element of Rebuild America is important for a complete community approach to energy efficiency. It is the goal of Cuyahoga Falls to use its municipal facilities as an example in the community. Therefore, the plan's first concentration is on municipal facilities, and secondly the commercial arena.

In addition, the City of Cuyahoga Falls wants to take a close examination of the near future retail wheeling and deregulation impact on the power industry and the relationship to commercial customers.

Details of the commercial program elements are in development, but on the horizon.

Future/Conclusion

The City of Cuyahoga Falls continues to move forward in efforts toward an energy efficient community. The development of a concrete action plan is also continuing through the creation of the City's "Working Plan." The goal of the City continues to be three pronged: (1) Improve its Municipal Government Facilities (2) Continue its Energy Efficient Community Outreach Programs and (3) Make an Effort to Develop a Commercial Outreach Program. As Cuyahoga Falls' "Working Plan" continues to improve and develop it will move towards the ultimate goal as an energy efficient community.

Valerie Wax Carr, Deputy Service Director of Cuyahoga Falls, may be contacted at (330) 971-8240 for further questions or concerns regarding the Cuyahoga Falls Rebuild America Contract.