

## *Entire Application View*

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# Subgrant Planning Application

**Application Title:** [Anderson County Multi-Jurisdictional Hazard Mitigation Plan Update](#)

**Subgrant Applicant:** [Anderson County Emergency Management Agency](#)

**Application Number:** [PDMC-PL-04-TN-2009-001](#)

**Application Year:** [2009](#)

**Grant Type:** [Planning Application](#)

**Address:** [111 South Charles Seivers Boulevard, Clinton, TN 37716-3927](#)

## Contact Information

## Point of Contact Information

Title Ms.  
First Name Lin  
Middle Initial  
Last Name Chilcoat  
Title Administrative Assistant  
Agency/Organization Anderson County Emergency Management Agency  
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Address 2  
City Clinton  
State TN  
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## Alternate Point of Contact Information

Title Mr.  
First Name Steve  
Middle Initial  
Last Name Payne  
Title Director  
Agency/Organization Anderson County Emergency Management Agency  
Address 1 111 South Charles Seivers Boulevard  
Address 2  
City Clinton  
State TN  
ZIP 37716 - 3927  
Phone 865-457-6765 Ext.  
Fax 865-457-6557  
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## Community Information

Please provide the name of each community that will benefit from this mitigation activity.

State	County Code	Community Name	CID Number	CRS Community	CRS Rating	State Legislative District	US Congressional District
TN	470217_QBM0Z08WK	<a href="#">ANDERSON COUNTY</a>	470217	N		470217	3
TN	470001_QBM0Z08RO	<a href="#">CLINTON, CITY OF</a>	470001	N		470001	3
TN	475436_QBM0Z091A	<a href="#">LAKE CITY, TOWN OF</a>	475436	N		475436	3
TN	470003_QBM0Z08RP	<a href="#">NORRIS, CITY OF</a>	470003	N		470003	3
TN	475441_QBM0Z091F	<a href="#">OAK RIDGE, CITY OF</a>	475441	N		475441	3
TN	470005_QBM0Z08RS	<a href="#">OLIVER SPRINGS, TOWN OF</a>	470005	N		470005	3

Enter Community Profile information below.

[Help](#)

Sixty-eight percent of the county's 345 square miles are rural, unincorporated areas populated by 44% of the county's 71,330 residents. The remaining population resides in the five incorporated areas of Clinton, Lake City, Norris, Oak Ridge, and Oliver Springs, profiled in the comments section below. Residents in Anderson County are above the state average in median age. Both population growth and population density are below the state average. The unemployment rate is typically below state and national averages, with per capita income slightly below the state average. Federal installations play a significant role in the economy of Anderson County. Salaries of many well-compensated DOE, TVA, and private scientific/nuclear support industries inflate the county's median household income, presenting a false picture of income for the majority of Anderson County residents. Each year 45-50% of rural school students are qualified free and reduced poverty level. Amenities within the county include 3 emergency communication centers, 6 law enforcement agencies, 10 fire departments (four career and six volunteer), a volunteer rescue squad, emergency medical service, a hospital, 25 schools, and a community college. Federal installations include Tennessee Valley Authority's Norris Dam and the energy-producing Bull Run Fossil Plant, as well as Department of Energy's 55-square mile Oak Ridge Reservation containing the B&W Y-12 Nuclear Security Complex, Oak Ridge National Laboratory, the Spallation Neutron Source, and East Tennessee Technology Park. Managed by civilian contractors, each of these DOE facilities processes, stores, or transports nuclear materials in some form. The county is served by two U.S. and nine state highways, and four exits from a 17 mile stretch of Interstate 75. CSX and Norfolk Southern rail lines bisect the county from north to south and east to west. The nine-foot channel depth of the Clinch River provides access to the Inland Waterway System.

## Comments

Jurisdictions within the county are:

- Clinton, the county seat and second largest municipality, is located in the central portion of the county with a land area of 10.9 square miles and a population of 9,409 residents. The present economy centers on commercial and service businesses. In the past two years, major commercial expansion has taken place at the 122 mile exit of I-75. Several manufacturing facilities are largely located in four industrial parks.
- Lake City is situated at the northeastern boundary of Anderson County, and the city extends into Campbell County. The smallest municipality, Lake City covers a land area of 1.59 square miles with a population of 1,888. Two exits from I-75 have prompted construction of an industrial park and traveler convenience businesses. Near Norris Dam and Norris Lake, the city enjoys a growing water recreation industry.
- Norris is located in the northeast quadrant of the county and encompasses a land area of 6.86 square miles with a population of 1,446. A planned community built by TVA, Norris is primarily a residential town with a few resident convenience businesses. Some 38% of the city's land area is devoted to natural, unspoiled land for recreational activities. The adjoining Norris Dam and Norris State Park add to the tourist industry.
- Oak Ridge, located in the southwestern quadrant and situated in Anderson and Roane Counties, is the largest city with a population of 27,387. Approximately 60% of the city's 92 square-mile land area is owned by the Department of Energy. Within the city are 4.37 square miles of water area, 1,282 acres of parkland, 1,336 acres of greenbelt, and a 230-acre research and education center, the University of Tennessee Arboretum. Federal offices, 5 industrial parks, a large science and educational museum, a major medical center and approximately 800 private firms are located in Oak Ridge.
- Oliver Springs, located at the county's western boundary, lies in Anderson,

Roane, and Morgan counties. It has a land area of 5.14 square miles and a population of 3,303. Largely a residential town with moderate resident convenience businesses, Oliver Springs has become a tourist destination as thousands of off-road vehicle enthusiasts journey each year to Windrock Mountain to access the remote Windrock Coal Creek Recreation Area. Letters of agreement from each municipality are attached.

## Attachments

[agreements0001.pdf](#)

State	TN	
Community Name	ANDERSON COUNTY *	
County Name	TENNESSEE	
County Code	ANDERSON COUNTY	
City Code	470217	
<a href="#">FIPS Code</a>	001	<a href="#">Help</a>
<a href="#">CID Number</a>	470217	<a href="#">Help</a>
<a href="#">CRS Community</a>	N	
<a href="#">CRS Rating</a>		
State Legislative District	470217	
US Congressional District	3	
<a href="#">FIRM</a> or <a href="#">FHBM</a> available?	Yes	
<a href="#">Community Status</a>	PARTICIPATING	<a href="#">Help</a>
Community participates in <a href="#">NFIP</a> ?	Yes	
Date entered in NFIP	08-05-1975	
Date of most recent <a href="#">Community Assistance Visit (CAV)</a> ?	02-04-1992	<a href="#">Help</a>
State	TN	
Community Name	CLINTON, CITY OF	
County Name	TENNESSEE	
County Code	ANDERSON COUNTY	
City Code	470001	
<a href="#">FIPS Code</a>	001	<a href="#">Help</a>
<a href="#">CID Number</a>	470001	<a href="#">Help</a>
<a href="#">CRS Community</a>	N	
<a href="#">CRS Rating</a>		
State Legislative District	470001	
US Congressional District	3	
<a href="#">FIRM</a> or <a href="#">FHBM</a> available?	Yes	
<a href="#">Community Status</a>	PARTICIPATING	<a href="#">Help</a>
Community participates in <a href="#">NFIP</a> ?	Yes	
Date entered in NFIP	07-28-1972	

Date of most recent <a href="#">Community Assistance Visit (CAV)</a> ?	06-26-1991	<a href="#">Help</a>
State	TN	
Community Name	LAKE CITY, TOWN OF	
County Name	TENNESSEE	
County Code	ANDERSON COUNTY	
City Code	475436	
<a href="#">FIPS Code</a>	001	<a href="#">Help</a>
<a href="#">CID Number</a>	475436	<a href="#">Help</a>
<a href="#">CRS Community</a>	N	
<a href="#">CRS Rating</a>		
State Legislative District	475436	
US Congressional District	3	
<a href="#">FIRM</a> or <a href="#">FHBM</a> available?	Yes	
<a href="#">Community Status</a>	PARTICIPATING	<a href="#">Help</a>
Community participates in <a href="#">NFIP</a> ?	Yes	
Date entered in NFIP	10-23-1970	
Date of most recent <a href="#">Community Assistance Visit (CAV)</a> ?	09-05-1990	<a href="#">Help</a>
State	TN	
Community Name	NORRIS, CITY OF	
County Name	TENNESSEE	
County Code	ANDERSON COUNTY	
City Code	470003	
<a href="#">FIPS Code</a>	001	<a href="#">Help</a>
<a href="#">CID Number</a>	470003	<a href="#">Help</a>
<a href="#">CRS Community</a>	N	
<a href="#">CRS Rating</a>		
State Legislative District	470003	
US Congressional District	3	
<a href="#">FIRM</a> or <a href="#">FHBM</a> available?	Yes	
<a href="#">Community Status</a>	PARTICIPATING	<a href="#">Help</a>
Community participates in <a href="#">NFIP</a> ?	Yes	
Date entered in NFIP	03-11-1975	
Date of most recent <a href="#">Community Assistance Visit (CAV)</a> ?		<a href="#">Help</a>
State	TN	
Community Name	OAK RIDGE, CITY OF	

County Name	TENNESSEE	
County Code	ANDERSON COUNTY	
City Code	475441	
<a href="#">FIPS Code</a>	001	<a href="#">Help</a>
<a href="#">CID Number</a>	475441	<a href="#">Help</a>
<a href="#">CRS Community</a>	N	
<a href="#">CRS Rating</a>		
State Legislative District	475441	
US Congressional District	3	
<a href="#">FIRM</a> or <a href="#">FHBM</a> available?	Yes	
<a href="#">Community Status</a>	PARTICIPATING	<a href="#">Help</a>
Community participates in <a href="#">NFIP</a> ?	Yes	
Date entered in NFIP	12-17-1971	
Date of most recent <a href="#">Community Assistance Visit (CAV)</a> ?	06-02-1987	<a href="#">Help</a>
State	TN	
Community Name	OLIVER SPRINGS, TOWN OF	
County Name	TENNESSEE	
County Code	ANDERSON COUNTY	
City Code	470005	
<a href="#">FIPS Code</a>	001	<a href="#">Help</a>
<a href="#">CID Number</a>	470005	<a href="#">Help</a>
<a href="#">CRS Community</a>	N	
<a href="#">CRS Rating</a>		
State Legislative District	470005	
US Congressional District	3	
<a href="#">FIRM</a> or <a href="#">FHBM</a> available?	Yes	
<a href="#">Community Status</a>	PARTICIPATING	<a href="#">Help</a>
Community participates in <a href="#">NFIP</a> ?	Yes	
Date entered in NFIP	09-19-1974	
Date of most recent <a href="#">Community Assistance Visit (CAV)</a> ?		<a href="#">Help</a>

Mitigation Plan Information

Is the entity that will benefit from the proposed activity covered by a current FEMA-approved multi-hazard mitigation plan in compliance with 44 CFR Part 201? Yes

If Yes, please answer the following:

What is the name of the plan? Anderson County All Hazard Risk Mitigation Plan  
 What is the type of plan? Local MultiJurisdictional Multihazard Mitigation Plan  
 When was the current multihazard mitigation plan approved by FEMA? 09-29-2005

If No or Not Known, please answer the following:

Does the entity have any other mitigation plans adopted? No

If Yes, please provide the following information.

Plan Name	Plan Type	Date Adopted	Attachment
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Please identify all previous FEMA planning grants received:

Type of Grant	Performance Period		Deliverable Activity	Amount
	Beginning Date	Ending Date		
Pre Disaster Mitigation Planning Grant	09-01-2002	09-30-2005	All Hazards Multi-Jurisdictional Hazard Mitigation Plan	\$87,500.00
			Total	\$87,500.00

Does the State/Tribe in which the entity is located have a current FEMA-approved mitigation plan in compliance with 44 CFR Part 201? Yes

If Yes, please answer the following:

What is the name of the plan? Hazard Mitigation Plan for the State of Tennessee  
 What is the type of plan? Standard State Multi-hazard Mitigation Plan  
 When was the current multihazard mitigation plan approved by FEMA? 10-18-2007

Describe how the proposed activity relates to or is consistent with the State/Tribe's FEMA-approved mitigation plan.

Anderson County's present hazard mitigation plan mirrors many of the State's mitigation goals and activities. In completing this planning activity, the State of Tennessee Hazard Mitigation Plan will again serve as the basis for identification and analysis of the natural hazards that could affect Anderson County and its jurisdictions. Technological hazards unique to Anderson County will be addressed. We share the State's philosophy that while we can never expect to eliminate the need for disaster response and recovery, we can take measures now to reduce the scope of future disasters. We join in the State's commitment to minimize adverse effects of natural and technological hazards, improve response capabilities, and reduce recovery time through a realistic, comprehensive hazard mitigation plan for Anderson County.

If you would like to make any comments, please enter them below.

The current approved plan is attached.

To attach documents, click the *Attachments* button below.

[Anderson Co Haz Mit Plan-8-04-05.pdf](#)



## Mitigation Activity Information

What type of activity are you proposing?

[Help](#)

91.1 - Local Multihazard Mitigation Plan

Please select one of the following options to describe the intent of this proposal:

Update an existing plan

If updating an existing Disaster Mitigation Act of 2000 plan, or modifying a plan adopted prior to the Disaster Mitigation Act of 2000, please explain.

This planning activity will meet the five-year mitigation plan update requirement, and bring mapping current to provide more accurate data and reflect recent growth and development trends in commercial and residential construction. One month after Anderson County's 2005 mitigation plan was approved, FEMA notified TEMA that previous crosswalk requirements did not include two specific components of CFR 78.5. The proposed planning activity and updated mapping will address this data deficiency and allow our community to meet planning eligibility requirements for FMA projects.

Title of your proposed activity:

Anderson County Multi-Jurisdictional Hazard Mitigation Plan Update

If you would like to make any comments, please enter them below.

Attachments:

Problem Description

Describe the geographic area(s) to be covered by the plan. Attach geographical/topographical maps as necessary.

Anderson County is situated in East Tennessee at 36 01 N Latitude and 84 14 West Longitude. Almost triangular in shape, it is about 23 miles long and, from tip to tip at the widest point, about 26 miles wide. Partly in the East Tennessee Valley and partly on the Cumberland Tableland, Anderson County's surface is very broken. With elevations ranging from a low of 557 to 3,501 feet, the county is divided into two geologic sections. The northwestern, or mountainous, section constitutes approximately 35% of the county's total land area, presenting steep mountain terrain, three-fourths of which contains slopes greater than 25%, covered by a dense growth of timber. The remainder of the county lies in the East Tennessee Valley and presents more moderate elevations and land suitable for agriculture. Through this valley the Clinch River passes from the extreme northern to the extreme southern points of the county by a winding route through the center, covering 32.5 square miles. River levels are controlled by TVA's Norris Dam with a 1,113,000 acre-feet storage capacity. Enjoying a moderate climate with average lows of 27 degrees and average highs of 85 degrees, the county receives an annual precipitation of 60 inches, including an average five inches of snowfall. The Eastern Tennessee Seismic Zone is an active but deep seismic zone running roughly parallel to Interstate 75 from Chattanooga northward to Oak Ridge in Anderson County. Much of Anderson County is underlain by karst topography, and abandoned coal mine shafts and tunnels exist in the northwestern mountainous section. Maps may be accessed in the attached 2005 Anderson County Multi-Jurisdictional Hazard Mitigation Plan.

Attachments:

Hazard Type

Identify the source(s) of hazards specific to the geographic area to be addressed in the plan.

Hazards	Source of Hazard
Dam/Levee Break,Drought,Fire,Flood,Freezing,Severe Ice Storm,Land Subsidence,Other (Specify in Comments),Earthquake,Mud/Landslide,Snow,Severe Storm(s), Terrorist,Tornado,Windstorms	Sources of hazards affecting Anderson County are: • Severe Weather – This is the single most prevalent hazard in Anderson County. The entire county is at risk of windstorms, freezing, severe ice storms, severe storms, snow, tornadoes, and drought. • Flood – Anderson County's vulnerability to flood is a result of topography and rainfall amounts. Located at the foot of the Cumberland Mountains, approximately 35% of the 345 square-mile area is steep mountain terrain ranging from 15% to 25% slopes. Any intense rainfall in the mountains, even for short periods, presents the potential for flooding of valley streams and low-lying areas throughout the county. • Landslides – Landslides occur during periods of heavy rain, usually along steep slopes created by roadway construction through the mountainous areas of the county. Deforestation from logging, destruction of vegetation by wildfires, and alteration of natural land contours by coal mining activities contribute to landslide risk. • Land Subsidence – Much of Anderson County is underlain by karst topography. In the mountainous sections, abandoned coal mines present the potential for collapse of mine shafts and tunnels. • Earthquake – Anderson County is in close proximity to the Eastern Tennessee Seismic Zone which runs roughly parallel to Interstate 75 from

Chattanooga to Oak Ridge. • Dam Failure – Norris Dam, located at the Anderson County/Campbell border, has a storage capacity of 1,113,000 acre-feet. Failure of this dam would have catastrophic impact throughout the county. • Wildfire – All areas of Anderson County are at risk for wildfires. Trees cover about 63% of the land area. • Hazardous Materials – Anderson County is at risk of hazardous materials release from both transportation and fixed facility incidents. DOE and 50 TIER II facilities store and transport hazardous materials. Some 59 miles of rail line carry 50 to 70 cars of hazardous materials daily through Anderson County. • Terrorism – DOE and TVA have high-visibility, high-risk facilities in Anderson County that are potential target sites for terrorist attack. • Pandemic – With many scientists traveling worldwide to and from local DOE facilities, risk of pandemic is increased for Anderson County.

If you would like to make any comments, please enter them below.

Hazardous materials releases and pandemics are other hazard events to which Anderson County is vulnerable. These are discussed in the section above.

Attachments:

Scope of Work

Describe the plan development process. (If updating an existing plan, please indicate here.)

This planning activity will allow Anderson County to meet the five-year mitigation plan update requirement, address data deficiencies to meet planning eligibility criteria for CFR 78.5, and develop mapping to reflect recent growth and development trends in commercial and residential structures throughout the county. In order to update the Anderson County Multi-Jurisdictional Hazard Mitigation Plan to meet the 44 CFR Part 210 requirements, community resources will be organized to form a planning committee consisting of (1) representatives from each jurisdiction to include mayors/city managers, Anderson County Emergency Management Agency, LEPC, emergency services, utilities, public works, planning/zoning, schools, and businesses; (2) EMA directors from the adjacent counties of Roane, Morgan, and Campbell; (3) state agencies to include TEMA, Division of Forestry, Health Department, and UT Agriculture Extension service; (4) federal agencies of TVA and DOE; (5) environmental consultants with interests in Anderson County; (6) voluntary agencies to include Disaster Animal Response Team, American Red Cross, and Salvation Army, (7) media; and (8) interested citizens. This community-based planning team will interface with Emergency Management’s plan coordinator and contracted mitigation planning consultant to review the county’s present hazard mitigation plan, address data deficiencies, update hazard analysis and risk assessment data, modify the existing mitigation strategy or establish new goals and specific mitigation activities to minimize or manage identified hazard risks, assign each action, and set a proposed schedule for implementation. Mayors/city managers will serve as a steering committee to ensure consistent progress for their jurisdictions toward project completion, provide oversight in the development of jurisdictional goals and activities, and act as ambassadors for mitigation in educating elected officials and constituents in their communities. Public participation in the planning committee will be invited through news releases in both local newspapers, and a public meeting will be held to garner public input regarding unique hazard concerns and possible mitigation actions. The plan coordinator will make available at mayors’ offices and libraries the Mitigation Planning Survey to garner public comments and concerns. Each planning committee member will be tasked to meet with appropriate persons from their agency or jurisdiction to gather required data and types of mitigation activities the jurisdiction should consider for inclusion in the plan. Each jurisdiction will be required to: (1) designate appropriate officials to serve on the planning committee; (2) participate in planning meetings and workshops; (3) provide best available data for the risk assessment portion of the plan; (4) complete the capability assessment survey and provide copies of mitigation or hazard-related documents; (5) support and develop a countywide mitigation strategy with specific activities for each jurisdiction; (6) provide timely review and comments on all draft components of the plan, and (7) adopt the final plan as approved by FEMA.

If you would like to make any comments, please enter them below.

Plans and documents will be reviewed by various members of the committee as pertinent to assigned tasks. These include: • Jurisdictional ordinances, regulations and resolutions • Anderson County Urban Growth Plan • Anderson County and State of Tennessee Hazard Mitigation Plan • Anderson County and State of Tennessee Emergency Operations Plan • Anderson County Health Department Mass Clinic and Pandemic Plans • Tennessee Multi-Jurisdictional Emergency Response Plan for the Oak Ridge Reservation • U.S. Department of Energy Oak Ridge Reservation Emergency Plan, Volumes 1, 2, and 3 • TVA Dam Safety Emergency Action Plan – Norris/Doakes Creek • FEMA National Flood Insurance: Program Description • Industry emergency response plans (One Call, The Pipeline Group, Norfolk Southern, CSX, local Tier II, etc.)

Attachments:

Enter Work Schedule

Description Of Task	Starting Point	Unit Of Time	Duration	Unit Of Time	Work Complete By
Hire planning consultant, invite public participation, establish planning team, roles, responsibilities, collection methodology, strategy, and	7	MONTHS	2	MONTHS	EMA, plan coordinator, and planning consultant

timelines.

Collect and analyze hazard data, update and correct mapping deficiencies	10	MONTHS	3	MONTHS	Mitigation planning team, GIS technician, plan coordinator, planning consultant
Assimilate data to compose plan, develop mission and mitigation goals and activities.	14	MONTHS	3	MONTHS	Planning team, plan coordinator, and planning consultant
Finalize draft plan, hold public meeting for citizen comment, submit draft to TEMA/FEMA for review.	18	MONTHS	3	MONTHS	Planning committee, plan coordinator and planning consultant.
Revise plan per FEMA review, re-submit for FEMA conditional approval.	22	MONTHS	3	MONTHS	Planning committee, plan coordinator, and planning consultant.
Receive conditional approval, hold public hearing regarding plan adoption, jurisdictions adopt plan, receive final approval.	26	MONTHS	2	MONTHS	Plan coordinator, planning consultant
State Contract Process	1	MONTHS	6	MONTHS	Tennessee Emergency Management Agency
Closeout and Final State Contract Process	29	MONTHS	7	MONTHS	Tennessee Emergency Management Agency
Estimate the total duration of the proposed activity:			36	MONTHS	

## 91.1 - Local Multihazard Mitigation Plan

Federal Share: \$ 65,037.75

Item Name	Subgrant Budget Class	Unit Quantity	Unit of Measure	Unit Cost (\$)	Cost Estimate (\$)
In-Kind Labor	Other (In-Kind Labor)	867.00	Hour	\$ 25.00	\$ 21,675.00
Mitigation Planning Consultant	Contractual	1.00	Each	\$ 36,000.00	\$ 36,000.00
GIS Mapping Technician	Contractual	160.00	Hour	\$ 25.00	\$ 4,000.00
GIS Server Time	Contractual	12.00	Hour	\$ 300.00	\$ 3,600.00
Publication of Public Notices	Contractual	3.00	Each	\$ 33.00	\$ 99.00
Color Copies of Final Mitigation Plan	Supplies	14.00	Each	\$ 307.00	\$ 4,298.00
Ring Binders for Plan Copies	Supplies	15.00	Each	\$ 13.00	\$ 195.00
Copies of Mitigation Planning Survey	Supplies	5,000.00	Each	\$ 0.17	\$ 850.00
Plan Coordinator (10 hours per week)	Personnel	640.00	Hour	\$ 25.00	\$ 16,000.00
					Total Cost \$ 86,717.00

**Total Plan Cost Estimate: \$ 86,717.00**

Match Sources

Activity Cost Estimate	\$ 86,717.00	
Federal Share Percentage	75%	
Non-Federal Share Percentage	25%	
	Dollars	Percentage
Proposed Federal Share	\$ 65,037.75	75%
Proposed Non-Federal Share	\$ 21,679.25	25%

Matching Funds

Source Agency	Name of Source Agency	Funding Type	Amount (\$)	Action
Local Agency Funding	Anderson County	Other (In-Kind)	\$ 10,844.25	<a href="#">View Details</a>
Local Agency Funding	City of Clinton	Other (In-Kind)	\$ 2,167.00	<a href="#">View Details</a>
Local Agency Funding	City of Lake City	Other (In-Kind)	\$ 2,167.00	<a href="#">View Details</a>
Local Agency Funding	City of Norris	Other (In-Kind)	\$ 2,167.00	<a href="#">View Details</a>
Local Agency Funding	City of Oak Ridge	Other (In-Kind)	\$ 2,167.00	<a href="#">View Details</a>
Local Agency Funding	City of Oliver Springs	Other (In-Kind)	\$ 2,167.00	<a href="#">View Details</a>
<b>Grand Total</b>			<b>\$ 21,679.25</b>	

If you would like to make any comments, please enter them below.

Details of budget items are: • Based on past experience in developing the present mitigation plan, it is estimated that 25 planning committee members will each contribute 30 to 40 in-kind hours to attend committee and subcommittee meetings, research and record hazard data, establish community capabilities, review plan drafts, and work with their jurisdictional agencies and government. • A mitigation planning consultant will be contracted to meet with the planning committee as required to guide the planning process, ensure all components of the plan requirements are met, and deliver a FEMA-approved multi-jurisdictional mitigation plan.. • A GIS mapping technician will be hired to update mapping of significant changes in land use and to correct mapping deficiencies in the county's present plan to meet planning eligibility for FMA projects. It is estimated that 20 new maps will be required. • Approximately twelve (12) hours GIS server time will be required to update mapping as detailed above. • Public notices will be published to (1) announce the mitigation grant award and invite the public to participate in the planning process, (2) announce a public meeting to elicit public comment on the draft mitigation plan, and (3) to announce a public hearing to elicit public comment on the adoption of the mitigation plan by all jurisdictions. • Color copies of the final plan will be provided to each of the jurisdictional governments (6), to the county's libraries (6), and to Anderson County Emergency Management Agency (2). One EMA copy will be used for display at community events in conjunction with distribution of preparedness literature to citizens. • Copies distributed to the above will be placed in ring binders, with an additional binder for minutes, timelines, committee contact information, etc. • Information dissemination activities will be accomplished through Mitigation Planning Survey forms made available at each jurisdictional mayor's office and all libraries in the county to elicit citizen comment during the planning activity. • A 10-hour per week plan coordinator will serve to interface with the planning consultant and the planning committee, publish news releases and public hearing notices, hold public hearings, meet with and oversee progress of sub-committees, prepare meeting minutes and quarterly reports, contribute to content and organization of the plan, and work with local governments to ensure plan adoption. This position is estimated to begin June 1, 2009 with award of the grant and end September 28, 2010 with final FEMA approval of the plan.

## Attachments

Funding Source Local Agency Funding  
 Name of Funding Source Anderson County  
 Funding Type Other (In-Kind)  
 Amount \$ 10,844.25  
 Date of availability  
 Funds commitment letter date  
 Attachment (funds commitment letter)

Funding Source Local Agency Funding  
 Name of Funding Source City of Clinton  
 Funding Type Other (In-Kind)  
 Amount \$ 2,167.00  
 Date of availability  
 Funds commitment letter date  
 Attachment (funds commitment letter)

Funding Source Local Agency Funding  
 Name of Funding Source City of Lake City  
 Funding Type Other (In-Kind)  
 Amount \$ 2,167.00  
 Date of availability  
 Funds commitment letter date  
 Attachment (funds commitment letter)

Funding Source Local Agency Funding  
 Name of Funding Source City of Norris  
 Funding Type Other (In-Kind)  
 Amount \$ 2,167.00  
 Date of availability  
 Funds commitment letter date  
 Attachment (funds commitment letter)

Funding Source Local Agency Funding  
 Name of Funding Source City of Oak Ridge  
 Funding Type Other (In-Kind)  
 Amount \$ 2,167.00  
 Date of availability  
 Funds commitment letter date

Attachment (funds commitment letter)

Funding Source	Local Agency Funding
Name of Funding Source	City of Oliver Springs
Funding Type	Other (In-Kind)
Amount	\$ 2,167.00
Date of availability	
Funds commitment letter date	
Attachment (funds commitment letter)	

## Cost Effectiveness Information

Amendment Number	0
Community	ANDERSON COUNTY * (470217); CLINTON, CITY OF (470001); LAKE CITY, TOWN OF (475436); NORRIS, CITY OF (470003); OAK RIDGE, CITY OF (475441); OLIVER SPRINGS, TOWN OF (470005)
Net Present Value of Project Benefits (A)	\$ 0
Total Project Cost Estimate (B)	\$ 0
Benefit Cost Ratio (A/B)	
Analysis Type	Exempt
Exempt Type	Plans
Reviewer's Name	
BCA Performed by	
Analysis Date	
Comments	

## Evaluation Information (Part 1 of 4)

Is the recipient participating in the <a href="#">Community Rating System (CRS)</a> ?	No
If yes, what is their <a href="#">CRS rating</a> ?	
Is the recipient a <a href="#">Cooperating Technical Partner (CTP)</a> ?	Yes
Is the recipient a <a href="#">Firewise Community</a> ?	No
If yes, please provide their <a href="#">Firewise Community</a> number.	
Has the recipient adopted building codes consistent with the <a href="#">International Codes</a> ?	Yes
Has the recipient adopted the <a href="#">National Fire Protection Association (NFPA) 5000 Code</a> ?	No
Have the recipient's building codes been assessed on the <a href="#">Building Code Effectiveness Grading Schedule (BCEGS)</a> ?	Yes
If yes, what is their <a href="#">BCEGS</a> rating?	4
Is the recipient a <a href="#">Disaster Resistant University</a> ?	No
Is the recipient a <a href="#">Historically Black College or University or a Tribal College or University</a> ?	No

## Evaluation Information (Part 2 of 4)

Describe how this planning activity will benefit your constituents.

A hazard mitigation plan is the first step in protecting the community from human and economic losses associated with hazards and the effects of disasters. This planning activity will result in the development of a comprehensive, all-hazards, multi-jurisdictional mitigation plan that will benefit the constituency of Anderson County. This plan will: • Bring mapping current to provide more accurate data. • Reflect recent growth and development trends. • Prioritize identified mitigation activities. • Implement cost-effective mitigation activities. • Reduce vulnerability to disasters, overall risk to the population, and damage to structures. • Reduce economic disruption from disasters. • Reduce reliance on federal funding for disaster declarations. • Meet requirements to allow communities to apply for federal funding for pre-disaster mitigation projects. • Allow communities to invest tax dollars in mitigation projects to reduce funding for disaster response and recovery. • Raise community awareness by involving all jurisdictions, state and federal agencies, media, voluntary agencies, and the public in the planning process. • Improve response capabilities to emergencies and disasters. • Enhance rapid recovery from disasters.

Describe the strategy for completing this planning activity, including the review process, adoption, and FEMA's approval.

As outlined in Section V.A 1, this planning activity will be conducted in six major phases. These phases and details of work to be performed in each are: Phase 1: Hire planning consultant, invite public participation, establish planning team, roles, responsibilities, collection methodology, strategy, and timelines. • Receive notice of grant award; • Identify potential consultants, request and receive proposals, obtain contract approval from Commission, execute contract; • Establish date for kickoff meeting; • Issue news release announcing grant award, inviting public participation in the planning process; • Identify and invite individuals from local jurisdictions, state, federal and voluntary agencies, businesses to serve on the planning committee; • Meet with consultant to develop data collection instruments, establish planning strategy, and set task timelines;. • Hold kickoff meeting to present the planning project, form sub-committees for jurisdictional profiles, hazard data, mapping update, and mitigation goals/activities; review collection methodology; and assign tasks and timeline for completion. Phase 2: Collect and analyze hazard data, update and correct mapping. • Monitor sub-committee progress on data collection for: o Jurisdictional profiles and capabilities; o Historical and potential hazard occurrence, extent, impact, probability, frequency, and magnitude;. o Assets, vulnerabilities, human and financial impact of hazard occurrence; o Mapping update and correction of deficiencies. Phase 3: Assimilate data to compose plan, develop mission and mitigation goals/activities. • Assimilate hazard data, maps and documents to: o Compose introduction, overview, community profiles and capabilities; o Compose committee information, plan processes, plan maintenance and measurement process;. o Develop plan mission/vision statement, mitigation goals and activities; o Develop project scoring system, priority, financial impact and implementation schedule. Phase 4: Finalize draft plan, hold public meeting for citizen comment, submit draft to TEMA/FEMA for review. • Provide the full planning committee with draft plan for review and comment; • Provide draft plan to each mayor's office for public inspection and comment; • Hold public meeting to garner citizen comment on draft plan; • Revise plan as recommended by planning committee and public comment;. • Submit draft plan to TEMA/FEMA for review. Phase 5: Revise plan per FEMA review, submit for conditional approval. • Receive, review, and revise plan as recommended by FEMA review; • Provide full planning committee with final plan for review and comment;. • Submit plan to FEMA for conditional approval. Phase 6: Receive conditional approval, hold public hearing regarding adoption, jurisdictions adopt plan, receive FEMA final approval. • Receive conditional approval from FEMA; • Hold public hearing for citizen review and comment of final plan; • Adoption of plan by all jurisdictional governments; • Submit adoption resolutions to FEMA; • Receive FEMA final approval of plan.

Describe how you will manage the costs and schedule, and how you will ensure successful performance.

Costs for this planning activity are as set forth in the proposed budget. In the event of short fall in in-kind hours to meet the federal 25% match, the county mayor will recommend these funds be made available from the Emergency Management budget. The planning consultant and part time plan coordinator will be paid as milestones in the contract are met. The GIS technician will be paid at the conclusion of mapping activities as designated by the planning consultant. Sub-committees will be formed to work in one of four specific areas: (1) jurisdictional profiles and capabilities; (2) hazard data; (3) mapping; and (4) mitigation goals/activities. By focusing on only one aspect of the information required, sub-committees can formulate methodology to ensure collection of comparative data for each jurisdiction or hazard, and reports will be consistent in format. This will simplify the assimilation of data into the plan. A realistic schedule of work detailing expectations and deadlines will be published to all planning committee members. The plan coordinator will have weekly contact with the

planning consultant and sub-committees to track progress of assigned tasks.

Describe the staff and resources needed to implement this mitigation activity and the applicant's ability to provide these resources.

Resources needed to implement the proposed comprehensive mitigation plan update include both paid and "in-kind" participants. Paid resources are: • A contracted mitigation planning consultant to ensure all components of the plan requirements are met. • A part time (10 hours per week) project coordinator to interface with the consultant and the planning committee, publish news releases and public hearing notices, hold public hearings, meet with and oversee progress of sub-committees, prepare meeting minutes and quarterly reports, contribute to content and organization of the plan, and work with local governments to ensure adoption of the plan. • A GIS technician to update and correct mapping deficiencies in the present plan. Funds for these positions have been included in the project budget and will be covered by the grant award. In-kind resources include the many agencies and individuals listed in Section III E who will serve on the planning committee and will contribute to the planning activity at no cost.

If applying for multiple mitigation activities, how do these activities relate?

Not Applicable

## Evaluation Information (Part 3 of 4)

How will this mitigation activity leverage involvement of partners to enhance its outcome?

Community partnerships are an essential component in planning for emergencies and disasters, and Anderson County enjoys a high level of cooperation among county and municipal governments, as well as locally-involved state, federal, private and voluntary agencies. EMA has a regular presence at DOE exercise planning meetings, Health Department mass clinic and pandemic planning meetings, LEPC meetings, Red Cross disaster services meetings, and Anderson County Fire Commission meetings, and conducts DART meetings monthly for this volunteer team. EMA has worked with water utilities to map water lines and hydrant locations, and provided NIMS training to public works and utilities. Regional Director's meetings at TEMA provide contact with EMA Directors in adjacent counties. Cooperation from community partners during work on the initial mitigation plan was excellent. Based on our relationships with these partners, we expect to leverage the same high level of involvement for this proposed activity.

What outreach activities are planned relative to this mitigation activity (e.g., signs, press releases, success stories, developing package to share with other communities, losses avoided analysis) and/or how will this mitigation activity serve as a model for other communities (i.e. Do you intend to mentor other communities, Tribes or States? Do you intend to prepare a description of the process followed in this activity so that others may learn from the example?)?

The mitigation planning process will incorporate the following methods to involve the public: • News releases to announce the planning grant award, encourage the public to review the current plan posted on the county website, and invite interested citizens to participate on the planning committee. • Appearance of plan coordinator and planning committee member(s) at a council meeting in each jurisdiction to alert council and citizens to the planning process and availability of a Mitigation Planning Survey. • Preparation of and news releases to announce the availability of a Mitigation Planning Survey at each jurisdictional mayor's office and public library. • Emergency Management's continued presence at community events with a display copy of the current mitigation plan, copies of the Mitigation Planning Survey, and all-hazards emergency preparedness literature for distribution to citizens. • Continued reference to the mitigation planning process in news releases/articles in local papers announcing citizen training opportunities (NWS Weather Spotter, CPR, FEMA on-line courses, NWS Severe Weather Awareness Week, etc.). • Meeting with Anderson County Fire Commission to solicit input from the county's volunteer fire and rescue departments (approximately 150 citizens). • Distribution of the Mitigation Planning Survey to participants at partnership agency meetings attended regularly by EMA (Red Cross Disaster Services, LEPC, Health Department mass clinic/pandemic planning, etc.). • Public meeting to allow citizen review and comment on the draft mitigation plan. • Public hearing to allow citizen review and comment on the final mitigation plan preceding adoption. Involving the EMA directors of adjacent Roane, Morgan, and Campbell counties as members of the planning committee enhances their abilities to develop effective mitigation plans for their respective counties. After completion of the plan, a final summary of problems, strengths, weaknesses, and suggestions for improvement will be compiled as a guide for our next revision. This summary will be shared with TEMA at both regional and state levels.

## Evaluation Information (Part 4 of 4)

Please provide an assessment of the frequency (high, moderate, low, very low, not applicable) and severity (catastrophic, extensive, serious, minor) of an event for each of the following hazards:

<b>Hazard</b>	<b>Frequency</b>	<b>Severity</b>	<b>Hazard</b>	<b>Frequency</b>	<b>Severity</b>
Coastal storms	Not Applicable		Severe ice storms	Moderate	Serious
Earthquake	Low	Serious	Severe storms	High	Serious
Windstorms	Moderate	Serious	Snow	Moderate	Serious
Fire	Moderate	Serious	Tornado	Moderate	Serious
Flood	High	Serious	Tsunami	Not Applicable	
Freezing	Moderate	Minor	Typhoon	Not Applicable	
Hurricane	Not Applicable		Volcano	Not Applicable	
Mud/landslide	High	Serious			

## Comments:

Additional hazards to be addressed in Anderson County's plan are: (1) Hazardous Materials with a high frequency and serious severity, (2) Terrorism with a moderate frequency and serious severity, (3) Pandemic with a low frequency and serious severity, and (4) Dam Failure with a very low frequency and catastrophic severity.

## Attachments:

Name	Date Attached

Comments and Attachments			
Name of Section	Comment	Attachment	Date Attached
Community Information	<p>Jurisdictions within the county are: • Clinton, the county seat and second largest municipality, is located in the central portion of the county with a land area of 10.9 square miles and a population of 9,409 residents. The present economy centers on commercial and service businesses. In the past two years, major commercial expansion has taken place at the 122 mile exit of I-75. Several manufacturing facilities are largely located in four industrial parks. • Lake City is situated at the northeastern boundary of Anderson County, and the city extends into Campbell County. The smallest municipality, Lake City covers a land area of 1.59 square miles with a population of 1,888. Two exits from I-75 have prompted construction of an industrial park and traveler convenience businesses. Near Norris Dam and Norris Lake, the city enjoys a growing water recreation industry. • Norris is located in the northeast quadrant of the county and encompasses a land area of 6.86 square miles with a population of 1,446. A planned community built by TVA, Norris is primarily a residential town with a few resident convenience businesses. Some 38% of the city's land area is devoted to natural, unspoiled land for recreational activities. The adjoining Norris Dam and Norris State Park add to the tourist industry. • Oak Ridge, located in the southwestern quadrant and situated in Anderson and Roane Counties, is the largest city with a population of 27,387. Approximately 60% of the city's 92 square-mile land area is owned by the Department of Energy. Within the city are 4.37 square miles of water area, 1,282 acres of parkland, 1,336 acres of greenbelt, and a 230-acre research and education center, the University of Tennessee Arboretum. Federal offices, 5 industrial parks, a large science and educational museum, a major medical center and approximately 800 private firms are located in Oak Ridge. • Oliver Springs,</p>	<a href="#">agreements0001.pdf</a>	12-15-2008

located at the county's western boundary, lies in Anderson, Roane, and Morgan counties. It has a land area of 5.14 square miles and a population of 3,303. Largely a residential town with moderate resident convenience businesses, Oliver Springs has become a tourist destination as thousands of off-road vehicle enthusiasts journey each year to Windrock Mountain to access the remote Windrock Coal Creek Recreation Area. Letters of agreement from each municipality are attached.

Mitigation Plan Information

The current approved plan is attached.

[Anderson Co Haz Mit Plan-8-04-05.pdf](#) 12-08-2008

Hazard Information

Hazardous materials releases and pandemics are other hazard events to which Anderson County is vulnerable. These are discussed in the section above.

Scope of Work (Part 1)

Plans and documents will be reviewed by various members of the committee as pertinent to assigned tasks. These include: • Jurisdictional ordinances, regulations and resolutions • Anderson County Urban Growth Plan • Anderson County and State of Tennessee Hazard Mitigation Plan • Anderson County and State of Tennessee Emergency Operations Plan • Anderson County Health Department Mass Clinic and Pandemic Plans • Tennessee Multi-Jurisdictional Emergency Response Plan for the Oak Ridge Reservation • U.S. Department of Energy Oak Ridge Reservation Emergency Plan, Volumes 1, 2, and 3 • TVA Dam Safety Emergency Action Plan – Norris/Doakes Creek • FEMA National Flood Insurance: Program Description • Industry emergency response plans (One Call, The Pipeline Group, Norfolk Southern, CSX, local Tier II, etc.)

Details of budget items are: • Based on past experience in developing the present mitigation plan, it is estimated that 25 planning committee members will each contribute 30 to 40 in-kind hours to attend committee and subcommittee meetings, research and record hazard data, establish community capabilities, review plan drafts, and work with their jurisdictional agencies and government. • A mitigation planning consultant will be

contracted to meet with the planning committee as required to guide the planning process, ensure all components of the plan requirements are met, and deliver a FEMA-approved multi-jurisdictional mitigation plan.. • A GIS mapping technician will be hired to update mapping of significant changes in land use and to correct mapping deficiencies in the county's present plan to meet planning eligibility for FMA projects. It is estimated that 20 new maps will be required. • Approximately twelve (12) hours GIS server time will be required to update mapping as detailed above. • Public notices will be published to (1) announce the mitigation grant award and invite the public to participate in the planning process, (2) announce a public meeting to elicit public comment on the draft mitigation plan, and (3) to announce a public hearing to elicit public comment on the adoption of the mitigation plan by all jurisdictions. • Color copies of the final plan will be provided to each of the jurisdictional governments (6), to the county's libraries (6), and to Anderson County Emergency Management Agency (2). One EMA copy will be used for display at community events in conjunction with distribution of preparedness literature to citizens. • Copies distributed to the above will be placed in ring binders, with an additional binder for minutes, timelines, committee contact information, etc. • Information dissemination activities will be accomplished through Mitigation Planning Survey forms made available at each jurisdictional mayor's office and all libraries in the county to elicit citizen comment during the planning activity. • A 10-hour per week plan coordinator will serve to interface with the planning consultant and the planning committee, publish news releases and public hearing notices, hold public hearings, meet with and oversee progress of sub-committees, prepare meeting minutes and quarterly reports, contribute to content and organization of the plan, and work with local governments to ensure plan adoption. This position is estimated to begin June 1, 2009 with award of the grant and end September 28, 2010 with final FEMA approval of the plan.

## Match Sources

Additional hazards to be addressed in

Evaluation  
Information

Anderson County's plan are: (1) Hazardous Materials with a high frequency and serious severity, (2) Terrorism with a moderate frequency and serious severity, (3) Pandemic with a low frequency and serious severity, and (4) Dam Failure with a very low frequency and catastrophic severity.

## Assurances and Certifications

Please click the link in the status column to view forms.

Forms

Status

Part I: FEMA Form 20-16A, Assurances **Non-Construction** Programs.

[Complete](#)

Part II: FEMA Form 20-16C, Certifications Regarding Lobbying; Debarment, Suspension and Other Responsibilities Matters; and Drug-Free Workplace Requirements.

[Complete](#)

Part III: SF-LLL, Disclosure of Lobbying Activities (Complete only if applying for a grant of more than \$100,000 and have lobbying activities using Non-Federal funds. See Form 20-16C for lobbying activities definition.)

Not Applicable

**APPLICATION FOR  
FEDERAL ASSISTANCE  
(SF 424)**

1. TYPE OF SUBMISSION  
Non-Construction

2. DATE SUBMITTED  
12-17-2008

Applicant Identifier

3. DATE RECEIVED BY  
STATE  
12-17-2008

State Application Identifier

4. DATE RECEIVED BY  
FEDERAL AGENCY

Federal Identifier

5. APPLICANT INFORMATION

Legal Name  
Anderson County Emergency Management Agency

Organizational Unit  
Anderson County Emergency Management Agency

Address  
111 South Charles Seivers Boulevard,  
Clinton, TN 37716-3927

Name and telephone number of the person to be contacted on  
matters involving this application  
Lin Chilcoat, 865-457-6767

6. EMPLOYER IDENTIFICATION NUMBER (EIN)  
62-6000477

6.a. DUNS NUMBER  
074901612

7. TYPE OF APPLICANT  
Local Government

8. TYPE OF APPLICATION  
Planning Application

9. NAME OF FEDERAL AGENCY  
Federal Emergency Management Agency

10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE  
NUMBER 97.047  
CFDA TITLE PDM Competitive

11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT  
Anderson County Multi-Jurisdictional Hazard Mitigation Plan  
Update

12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.)  
ANDERSON COUNTY, ROANE COUNTY, MORGAN COUNTY

13. PROPOSED PROJECT:

Start Date:  
End Date :

14. CONGRESSIONAL DISTRICTS OF:

a. Applicant TN3  
b. Project TN3

15. ESTIMATED FUNDING

a. Federal	\$ 65,037.75
b. Applicant	\$ 0.00
c. State	\$ 0.00
d. Local	\$ 21,679.25
e. Other	\$ 0.00
f. Program Income	\$ 0.00
g. TOTAL	\$ 86,717.00

16. IS APPLICATION SUBJECT TO REVIEW BY STATE  
EXECUTIVE ORDER 12372 PROCESS?  
No, Program is not covered by E.O. 12372

17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL  
DEBT?  
No

18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.

a. Name of Authorized  
Representative  
Steve Payne

b. Title

c. Telephone Number  
8654576765

d. Signature of Authorized Representative  
Steve Payne

e. Date Signed  
12-17-2008

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