

SHELBY COUNTY 2013 DISASTER RECOVERY ACTION PLAN

**Utilizing Supplemental Community Development Block Grant
Disaster Recovery Funding from the Disaster Relief
Appropriations Act (Public Law 113-2), January 29, 2013**

Through the U.S. Department of Housing and Urban Development

**Docket No. FR-5696-N-03
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Table of Contents

Executive Summary	Page 4
Section 1 Introduction	Page 7
Section 2 Impact and Unmet Needs Assessment	Page 23
Background.....	Page 23
Summary of Impact and Unmet Needs	Page 25
Housing.....	Page 25
Economic Development.....	Page 27
Infrastructure/Community Facilities.....	Page 33
Section 3 Shelby County’s Priority, Goals, Activity Recommendations and Objectives for Long-term Recovery	Page 43
Section 4 Method of Distribution	Page 50
Section 5 Performance Schedule	Page 51
Section 6 Other Criteria	Page 53
Promotion of High Quality, Durable, Energy Efficient, and Mold Resistant Construction Methods	Page 53
Steps Shelby County Will Take to Encourage Adequate Flood- Resistant Housing for all Income Groups.....	Page 53
Green Building	Page 53
Anti-Displacement and Relocation	Page 53
Program Income	Page 54
Monitoring Standards and Procedures.....	Page 54
Substantial Amendments to the Action Plan	Page 54
Section 7 Citizen Participation	Page 56

List of Tables

Table 1 Summary of Proposed Disaster Recovery Expenditures	Page 5
Table 2 Unmet Need – Recovery/Reconstruction of Raleigh Millington Bridge over the Loosahatchie River	Page 36
Table 3 Unmet Need – Memphis Light Gas & Water Electrical Distribution System Restoration.....	Page 40
Table 4 Unmet Need – Town of Bartlett Restoration and Recovery Projects	Page 42

List of Maps

Map 1 FEMA-1974-DR.....	Page 8
Map 2 FEMA-1978-DR.....	Page 16
Map 3 FEMA-1979-DR.....	Page 19
Map 4 Memphis Light Gas and Water Damage and LMI Area (April 4, 2011).....	Page 38
Map 5 Memphis Light Gas and Water Damage and LMI Area (April 19, 2011).....	Page 39
Map 6 Memphis Light Gas and Water Damage and LMI Area (April 26, 2011).....	Page 40

List of Figures

Fig. 1	CDBG-DR Stakeholder Meeting Sign-In Sheet.....	Page 24
Fig. 2	Solid Waste Public Meeting Sign-In Sheet.....	Page 29
Fig. 3	Industrial Crane Services, Inc. Letter	Page 31
Fig. 4	Plant Maintenance Service Corporation Letter.....	Page 32
Fig. 5	Capture of Action Plan Link on Shelby County Website	Page 56
Fig. 6	Public Notice in the <i>Commercial Appeal</i> (August 12, 2013)	Page 57
Fig. 7	Public Notice in <i>La Prensa</i> (August 18, 2013).....	Page 58

List of Appendices

Appendix A	Standard Form 424 (SF-424)	Page 60
Appendix B	Certifications	Page 68
Appendix B	HUD Checklist (SCDH Internal Review).....	Page 69

Executive Summary

A series of three storm systems in April 2011 caused significant damage in Shelby County, Tennessee as well as other Tennessee Counties. These three events resulted in the Presidentially Declared Disasters numbered by the Federal Emergency Management Agency (FEMA) as follows: FEMA-1974-DR, FEMA-1978-DR, and FEMA-1979-DR and is referred to in this 2013 Community Development Block Grant Disaster Recovery Action Plan as the April 2011 storms. Subsequently, Shelby County was identified by the U.S. Department of Housing and Urban Development (HUD) as Tennessee's most impacted area as a result of these three disasters.

The breadth of the impact across Shelby County from the April 2011 storms impact emphasizes the need for a thoughtful and comprehensive long-term recovery process. This Action Plan is a part of that process, quantifying the level of damage known thus far based on current data and describing Shelby County's plan for spending the \$7,464,000 in Community Disaster Block Grant Disaster Recovery (CDBG-DR) funds allocated by HUD to Shelby County as part of an initial \$16,000,000,000 fund allocation for disaster recovery.

CDBG-DR funds must be used to satisfy "unmet needs," that is, financial needs not satisfied by other public or private funding sources such as Federal Emergency Management Agency (FEMA) Individual Assistance funds, Small Business Administration (SBA) disaster loans or private insurance. HUD also requires that CDBG-DR activities focus predominantly, but not exclusively, on the County's low- and moderate- income (LMI) populations.

Gauging the impact of the April 2011 storms on Shelby County must begin with an analysis of the County's housing sector. In late April 2011, a survey was conducted by Shelby County Construction Code Enforcement staff to assess damage to property from floods as a result of the April 2011 storms. The survey found that overall damage to residential dwellings was minimal and these findings were consistent with data since provided to Shelby County by FEMA, SBA, and local emergency management officials. Displacement of households as a result of the storm was not found to be significant either, and also seems consistent with the survey as well as FEMA and SBA data made available to Shelby County, as well as information provided by local emergency management officials.

The assessment of impacts from the April 2011 Storms revealed barriers to recovery upon Shelby County's business sector, notably businesses and industry served by infrastructure impacted by the disasters. In connection to this, the County's infrastructure experienced significant damage as a result of the April 2011 storms. Much of the damage from the disasters impacted the electrical

distribution system of the public utility, Memphis Light Gas & Water (MLGW). As a result of the April 2011 storms, more than 345,000 gross customers experienced electrical disruptions. Costs to restore electrical service as a result of these storms exceeded \$7,000,000. Additional impact from the storms included severe damage to an important bridge connecting a low-income area in Memphis to the low-income City of Millington in Shelby County, as well as causing negative economic impact on industrial employers and other businesses located between the two areas by restricting bridge traffic in this portion of Northern Shelby County.

Finally, clean-up costs associated with debris removal impacted the City of Bartlett in Shelby County, as the disasters resulted in damage to key infrastructure and threatened wastewater treatment facilities.

As a result of the impact and unmet needs assessment, Shelby County has established the Infrastructure sector as the highest priority for long term recovery from the April 2011 storms and has set the following goals with respect to this priority:

1. Restoration of Key Infrastructure and Public Facilities
2. Electrical Distribution System Restoration

Table 1 below identifies expenditures proposed in this disaster recovery plan for the entire CDBG-DR allocation in the amount of \$7,464,000.00.

**Table 1.
Summary of Proposed
2010 Disaster Recovery Funds Expenditures**

TOTAL AVAILABLE FUNDS	\$7,464,000.00
Project Name	Total Funds
Engineering - Raleigh Millington/Loosahatchie River Bridge	\$800,000.00
Phase I Construction - Raleigh Millington/Loosahatchie River Bridge	\$3,961,719.51
Electrical Distribution System Restoration (FEMA-1978-DR)	\$911,248.45
Electrical Distribution System Restoration (FEMA-1979-DR)	\$785,596.62
Electrical Distribution System Restoration (FEMA-1974-DR)	\$579,070.27
Bartlett Emergency Protective Measures	\$3,598.60
Bartlett Restoration of Traffic Signals and Cabinets	\$1,066.69
Bartlett Sewer Lift Station Repairs	\$192.27
Bartlett Wastewater Overflow Control	\$610.37
Bartlett Debris Removal to Protect Wastewater Treatment Facilities	\$1,522.22
Bartlett Boulevard Bridge Approach Repair	\$46,175.00
Administration	\$ 373,200.00
TOTAL PROPOSED BUDGET	\$7,464,000.00

This Action Plan merely begins to address Shelby County's substantial unmet needs after the April 2011 storms. As damage and impact assessment continues and if additional allocations of CDBG-DR funding are provided by either the State of Tennessee or HUD, the County expects to continue to prioritize programs that focus on remaining unmet needs and barriers to recovery impacting Shelby County.

Section 1 Introduction

On April 4, 2011 the first of three weather systems during April 2011 producing severe storms, flooding, tornadoes, and straight-line winds brought disaster to numerous counties in Tennessee and the Midsouth due to these storm events. In response, Presidential Disaster Area Declarations were issued on May 5 and May 9, 2011 (numbered by FEMA as follows: FEMA-1974-DR, FEMA-1978-DR, and FEMA-1979-DR). The following describes the circumstances surrounding these disaster declarations.

FEMA-1974-DR

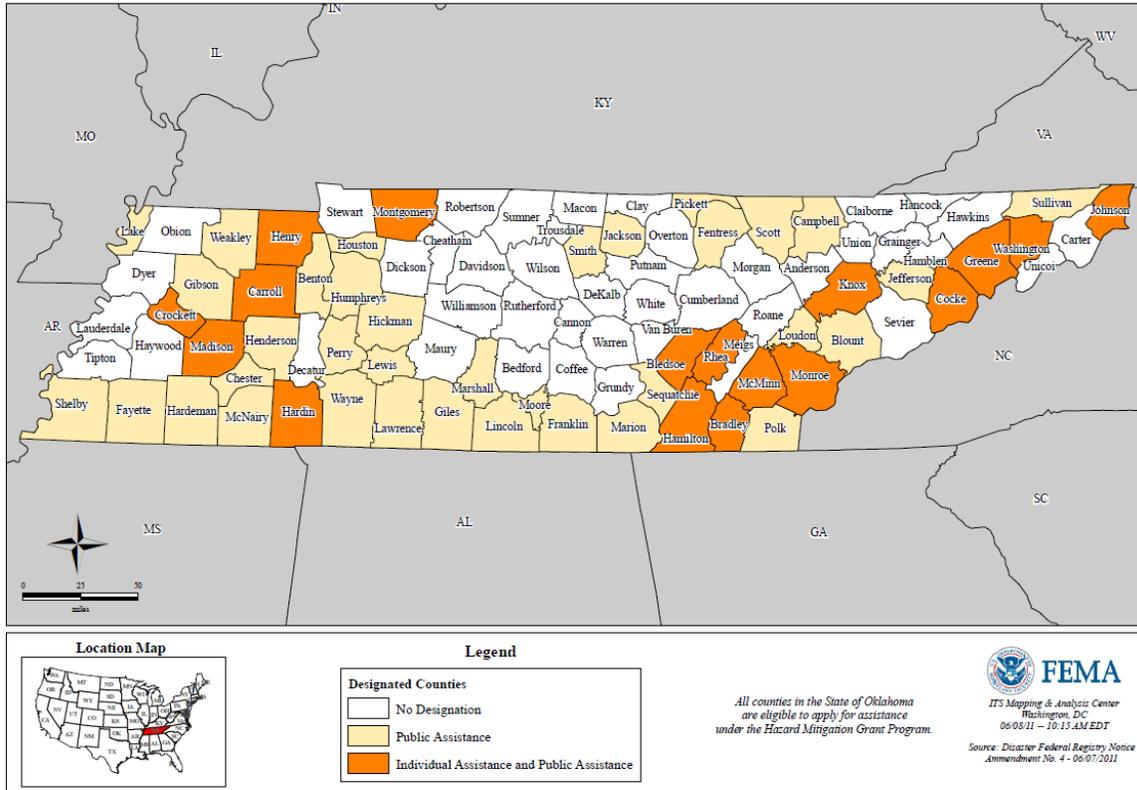
On April 29, 2011, Governor Bill Haslam requested an expedited major disaster declaration due to severe storms, tornadoes, straight-line winds, and associated flooding during the period of April 25-28, 2011. The Governor requested a declaration for Individual Assistance and Public Assistance for four counties and Hazard Mitigation statewide. The Governor further requested 100 percent Federal funding Public Assistance (Categories A and B) for the first 72 hours. This event was of the severity and magnitude that the need for supplemental Federal assistance was determined to be necessary prior to the completion of joint Federal, State, and local Preliminary Damage Assessments (PDAs). Counties in Tennessee included in this disaster declaration are shown below in Map 1.

This event was part of a widespread severe weather outbreak described by the National Weather Service (NWS) as follows:

The United States experienced a record-breaking tornado outbreak from the morning of April 25th through the early morning hours of April 28th. Preliminarily, survey teams from the National Weather Service Field Offices across the region have confirmed up to 305 tornadoes. For a quick comparison, the super outbreak of April 3-4, 1974 produced 148 tornadoes. Tragically, multiple killer tornadoes occurred during this outbreak. Approximately 24 tornadoes, possibly more, caused an estimated 326 fatalities during this tornado outbreak. From 8 a.m. April 27th through 8 a.m. on April 28th, tornadoes took the lives of 309 people alone. This is the deadliest tornado outbreak since the April 3-4, 1974 super outbreak.

The first tornado producing storms to move across the Midsouth developed in Southwestern Arkansas during the late afternoon hours of April 25th. These storms developed ahead of a cold front and surface low pressure. The storms formed into a bow echo, similar to the squall line that moved across the Midsouth on April 4, 2011. The bow echo raced

Map 1
FEMA-1974-DR, Tennessee
Disaster Declaration as of 06/07/2011



across central and eastern Arkansas and crossed the Mississippi river at around 10 pm on the 25th. These storms produced wind damage throughout its path. The first tornadoes were produced by this bow echo in Henderson, Carroll, and Weakley Counties at around 12 am. This bow echo continued its fast eastward movement and exited the Midsouth by 1 am on the 26th. Heavy rain lingered across the Midsouth through most of the early morning hours.

Conditions cleared up across the Midsouth during the late morning hours on the 26th. This allowed the atmosphere to recharge and become unstable again. Wind shear was also strong, so the threat for supercells was high. The first supercells developed across eastern and southern Arkansas at around 3 pm ahead of the same cold front that the previous night's storms formed on. One storm moved across Crittenden and Shelby Counties between 5 and 7 pm. These storms produced wind damage and large hail. This storm later produced tornadoes in Hardeman and Chester counties. 3 additional supercells produced tornadoes, very large hail, and wind damage across Phillips, Coahoma, and Tunica Counties during this same time frame.

Additional storms formed across southern Arkansas and Northern Louisiana during the overnight hours and crossed the Mississippi River by midnight. These storms produced a few tornadoes across Tallahatchie, Tishomingo, and Chickasaw, and Monroe Counties during the early morning hours on the 27th. Heavy rain again lingered through most of the early to mid morning hours.

By noon on April 27th, all the elements began to come together for an extreme severe weather outbreak. First, a new surface low pressure developed overnight across Western Arkansas and was heading towards the Midsouth. Second, a cold front was moving across Central Arkansas. Third, a dry line, or a dividing line between moist air and dry air, developed across eastern Arkansas ahead of the cold front. Supercell thunderstorms began to form along this dry line by noon. Additional supercell thunderstorms formed well ahead of the dry line in the warm, very moist, unstable, and highly sheared environment present across Mississippi and Alabama. The supercell thunderstorms marched across northern Mississippi and clipped Hardin County, Tennessee, producing a preliminary total of 8 tornadoes. The worst storm moved over Calhoun, Chickasaw, Monroe, and Itawamba Counties, producing two tornadoes that killed 22 people. One of these two tornadoes was the EF-5 tornado that struck Smithville, Mississippi. One other supercell thunderstorm developed along the cold front in Northeastern Arkansas. This storm produced 4 tornadoes over Craighead County. The worst storms finally pushed out of the Midsouth by 5:30 pm on April 27th. In all, a total of 22 tornadoes have been confirmed across the Midsouth over this 3 day outbreak.

(Source: [NWS April 2011 Outbreak Summary](#))

Tornados, flash flooding, widespread hail, flooding homes, and heavy winds damaged businesses and infrastructure. Key observations as shown in local storm report information issued by the National Weather Service (available at [NWS Storm Reports](#) included the following (as excerpted from the Storm Reports):

3 Se Bartlett

Time: 2011-04-25 17:30 UTC

Event: 0 TSTM WND DMG

Source: public

Remark: large tree limbs down in the Belle Trees Neighborhood.

Collierville

Time: 2011-04-25 17:40 UTC

Event: 0 TORNADO

Source: emergency mngr
Remark: tornado reported to ema by law enforcement

Bartlett
Time: 2011-04-25 17:41 UTC
Event: 0 TORNADO
Source: emergency mngr
Remark: tornado reported to ema by law enforcement.

1 N Collierville
Time: 2011-04-25 17:46 UTC
Event: 0 FUNNEL CLOUD
Source: public
Remark: winds estimated at 55 mph. low lying funnel cloud at Houston Levee and Wolf River.

5 W Germantown
Time: 2011-04-26 03:35 UTC
Event: 0 TSTM WND DMG
Source: public
Remark: fence blown over at the corner of raines and Kirby across from Kirby High School, winds estimated at 60mph.

1 N Collierville
Time: 2011-04-26 03:45 UTC
Event: 0.75 HAIL
Source: public
Remark: winds also estimated at 50mph.

Whitehaven
Time: 2011-04-26 12:17 UTC
Event: 58 TSTM WND GST
Source: Automated Surface Observing System
Remark: Memphis International Airport reported 58 mph gust.

Ellendale
Time: 2011-04-26 23:00 UTC
Event: 0.75 HAIL
Source: trained spotter
Remark:

Bartlett
Time: 2011-04-26 23:03 UTC
Event: 1 HAIL

Source: public
Remark: quarter size hail reported by public in downtown Bartlett

Arlington
Time: 2011-04-26 23:19 UTC
Event: 0.75 HAIL
Source: trained spotter
Remark

Arlington
Time: 2011-04-26 23:20 UTC
Event: 1 HAIL
Source: amateur radio
Remark: quarter hail reported at Airline and Wilson rd

2 S Arlington
Time: 2011-04-26 23:21 UTC
Event: 1.25 HAIL
Source: trained spotter
Remark: pea to half dollar size hail

Arlington
Time: 2011-04-26 23:23 UTC
Event: 0.88 HAIL
Source: trained spotter
Remark:

5 Nw Millington
Time: 2011-04-26 23:24 UTC
Event: 1 HAIL
Source: public
Remark:

Arlington
Time: 2011-04-26 23:28 UTC
Event: 1.75 HAIL
Source: public
Remark:

2 N Bartlett
Time: 2011-04-26 23:43 UTC
Event: 0 FUNNEL CLOUD
Source: emergency mngr
Remark:

Germantown

Time: 2011-04-26 23:45 UTC

Event: 60 TSTM WND GST

Source: unknown

Remark: a tree was down greater than 12 inches in diameter.

7 E Cordova

Time: 2011-04-27 01:00 UTC

Event: 0 FLASH FLOOD

Source: public

Remark: 6 to 8 inches on roads at Pisgah and Houston Levee

Time: 2011-04-27 02:30 UTC

Event: 0 TSTM WND DMG

Source: public

Remark: power lines down and flooding on Highway 205 South and Raleigh Lagrange road.

2 S Millington

Time: 2011-04-27 05:20 UTC

Event: 0 FLASH FLOOD

Source: trained spotter

Remark: flooded roadway East of Raleigh - Millington Road. car stranded in flood waters

Downtown Memphis

Time: 2011-04-27 15:23 UTC

Event: 0.75 HAIL

Source: trained spotter

Remark:

Downtown Memphis

Time: 2011-04-27 15:23 UTC

Event: 1 HAIL

Source: trained spotter

Remark: quarter size hail at Jackson and Pope street

Downtown Memphis

Time: 2011-04-27 15:24 UTC

Event: 1.75 HAIL

Source: broadcast media

Remark: hail cracked a windshield in Downtown Memphis Area

Midtown Memphis
Time: 2011-04-27 15:25 UTC
Event: 0.75 HAIL
Source: public
Remark: penny size hail at Cooper and Young

Midtown Memphis
Time: 2011-04-27 15:27 UTC
Event: 0.88 HAIL
Source: trained spotter
Remark: nickel size hail at Cleveland and Goodbar

2 W Bartlett
Time: 2011-04-27 15:30 UTC
Event: 1 HAIL
Source: trained spotter
Remark:

Ellendale
Time: 2011-04-27 15:38 UTC
Event: 0.75 HAIL
Source: nws employee
Remark: penny size hail fell for about two minutes in westbrook subdivision

Bartlett
Time: 2011-04-27 15:40 UTC
Event: 1 HAIL
Source: trained spotter
Remark: penny to quarter size hail covered the ground.

4 Sw Millington
Time: 2011-04-27 17:23 UTC
Event: 0.75 HAIL
Source: trained spotter
Remark:

Cordova
Time: 2011-04-27 18:24 UTC
Event: 0 FLASH FLOOD
Source: public
Remark: flooding across Jenkins Rd and Macon Rd

6 E Germantown
Time: 2011-04-28 12:55 UTC
Event: 0 FLASH FLOOD
Source: emergency mngr
Remark: Collierville Arlington Road between Shelton and Raleigh
Lagrange is flooded. 2 cars had to be pulled to safety.

3 Ssw Cordova
Time: 2011-04-28 22:00 UTC
Event: 0 FLOOD
Source: nws employee
Remark: Agricenter RV park is flooding

5 Ssw Cordova
Time: 2011-04-28 22:30 UTC
Event: 0 FLOOD
Source: emergency mngr
Remark: Farm Road is flooded

5 Wsw Cordova
Time: 2011-04-29 00:45 UTC
Event: 0 FLOOD
Source: nws employee
Remark: flood waters from the wolf river have spilled out across adjacent fields near the Agricenter International. water from the river has inundated portions of Humphreys BLVD near the Walnut Grove Road intersection. water covers two lanes of Humphreys BLVD . in addition...6 inches of water now covers Walnut Bend Road just east of germantown parkway in cordova. flood waters are also approaching homes in this area

5 Wsw Cordova
Time: 2011-04-29 04:05 UTC
Event: 0 FLOOD
Source: nws employee
Remark: flood waters from the wolf river have spilled out across adjacent feilds near the agricenter international. water from the river has inundated portions of Humphreys BLVD near the Walnut Grove Road intersection.Humphreys BLVD has been closed. in addition...6 inches of water now covers Walnut Bend Road just east of Germantown Parkway in Cordova. flood waters are also approaching homes in this area

3 Ssw Cordova
Time: 2011-04-29 04:40 UTC
Event: 0 FLOOD
Source: nws employee

Remark: flood water was entering businesses along walnut bend road just east of Germantown Road.

5 Wsw Cordova

Time: 2011-04-29 04:40 UTC

Event: 0 FLOOD

Source: emergency mngr

Remark: flood waters have inundated businesses immediately east of Baptist Memorial Hospital along Humphreys BLVD and Walnut Grove Road. Humphreys BLVD remains closed to traffic.

5 Wsw Cordova

Time: 2011-04-29 04:40 UTC

Event: 0 FLOOD

Source: emergency mngr

Remark: flood waters have closed wolf river boulevard between Germantown Parkway and Riverdale Road.

FEMA-1978-DR

On April 30, 2011, Governor Bill Haslam requested a major disaster declaration due to severe storms, flooding, tornadoes, and straight-line winds on April 4, 2011. The governor requested a declaration for Public Assistance for nine counties and Hazard Mitigation statewide. During the period of April 25-29, 2011, joint Federal, State, and local Preliminary Damage Assessments (PDAs) were conducted in the requested counties. Counties in Tennessee included in this disaster declaration are shown below in Map 2.

According to the National Weather Service's Event Overview:

A powerful mid and upper level trough of low pressure originating over the Intermountain West on the evening of Sunday, April 3, 2011, quickly ejected east across the Great Plains and into the Lower and Middle Mississippi Valley on the morning of Monday, April 4, 2011. A very warm and moist airmass was in place across the Mid South prior to the arrival of the upper level trough and associated strong surface cold front. This allowed the atmosphere to become moderately unstable and wind fields to strengthen significantly."

Numerous thunderstorms developed across western portions of the Mid South early Monday morning, with line segments and embedded supercell thunderstorms the predominant storm mode. These storms quickly become severe in the presence of the moderate instability and strong wind shear in place. As stronger forcing aloft associated with the upper trough moved into the region by late morning, storms organized into a powerful squall line along the Mississippi river. Many thunderstorms within the

were also more isolated reports of penny to quarter size hail from storms within the squall line. All together there were 88 reports of wind damage or large hail in the Mid South and over 1300 across the country. There was one fatality reported in Shelby County, Tennessee, as a result of fallen power lines. This event marks the largest severe weather outbreak to date during the 2011 spring severe weather season across the Mid South and one of the largest overall severe weather outbreaks to impact the southern United States.

(Source: [NWS Storm Event](#))

Hurricane force winds during the storm caused damage to homes, commercial structures, and infrastructure. Key observations as shown in local storm report information issued by the National Weather Service (available at [NWS Storm Reports](#)) included the following (as excerpted from the Storm Reports):

3 WGermantown

Time: 2011-04-04 16:45 UTC

Event: 0 TSTM WND DMG

Source: public

Remark: large trees down on homes...automobiles...and across roads. tree limbs are through rooves. many homes damaged with many trees down.

2 WGermantown

Time: 2011-04-04 16:50 UTC

Event: 0 TSTM WND DMG

Source: public

Remark: windows blown out at St Francis Hospital on Park Avenue. also building damage...with shredded insulation.

3 W Germantown

Time: 2011-04-04 16:50 UTC

Event: 0 TSTM WND DMG

Source: public

Remark: windows blown out in Clark Tower.

5 Nne Southaven

Time: 2011-04-04 16:53 UTC

Event: 65 TSTM WND GST

Source: Automated Surface Observing System

Remark: 56 knot gust at the Memphis International Airport.

2 S Lakeland

Time: 2011-04-04 17:00 UTC

Event: 65 TSTM WND GST

Source: nws employee
Remark: (none)

Germantown
Time: 2011-04-04 17:00 UTC
Event: 0 TSTM WND DMG
Source: nws employee
Remark: trees down throughout Germantown...stoplight damaged at Germantown Parkway and Wolf River BLVD...and a tree is down on a house near Allenby Road.

Time: 2011-04-04 17:00 UTC
Event: 80 TSTM WND GST
Source: nws employee
Remark: hurricane force winds estimated with about 1/16 mile vis in heavy rain. widespread power outages resulted with many traffic lights inoperable.

Time: 2011-04-04 17:00 UTC
Event: 80 TSTM WND GST
Source: nws employee
Remark: hurricane force winds estimated with about 1/16 mile vis in heavy rain. Widespread power outages resulted with many traffic lights inoperable.

FEMA-1979-DR

On May 5, 2011, Governor Bill Haslam requested a major disaster declaration due to severe storms, tornadoes, straight-line winds, and flooding beginning on April 19, 2011, and continuing. The Governor requested a declaration for Individual Assistance for five counties, Public Assistance for 15 counties, and Hazard Mitigation statewide. The Governor further requested direct Federal assistance. During the period of May 4-6, 2011, joint Federal, State, and local Preliminary Damage Assessments (PDAs) were conducted in the requested. Counties in Tennessee included in this disaster declaration are shown below in Map 3.

Severe thunderstorm winds during the storm caused damage to homes, commercial structures, and infrastructure. Key observations as shown in local storm report information issued by the National Weather Service (available at [NWS Storm Reports](#)) included the following (as excerpted from the Storm Reports):

2 Sw Arlington
Time: 2011-04-20 04:04 UTC
Event: 70 TSTM WND GST
Source: storm chaser
Remark: minor damage to fences

2 W Millington
Time: 2011-04-20 04:10 UTC
Event: 0 TSTM WND DMG
Source: law enforcement
Remark: power lines down across Cuba Millington Road. traffic being diverted

1 Ne Germantown
Time: 2011-04-20 04:41 UTC
Event: 0 TSTM WND DMG
Source: trained spotter
Remark: trees down on house...trapping occupant

In the immediate aftermath of each of these storms, electrical service to over 345,000 gross MLGW customers was disrupted at a cost exceeding \$7,000,000. Debris clearance and removal, as well as damage to infrastructure, cost the City of Bartlett over \$50,000. Erosion from flooding damaged a key bridge over the Loosahatchie River in Shelby County necessitating an estimated \$9,800,000 to return the bridge to full service.

Congress passed the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) on January 29, 2013, which appropriated \$16,000,000,000.00 in CDBG funds for necessary expenses related to disaster relief, long-term recovery, restoration of infrastructure and housing, and economic revitalization in the most impacted and distressed areas resulting from a major disaster declared pursuant to the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1974 (42U.S.C. 5121 *et seq.*) (Stafford Act), due to Hurricane Sandy and other eligible events in calendar years 2011, 2012, and 2013. On March 1, 2013, the President issued a sequestration order pursuant to section 251A of the Balanced Budget and Emergency Deficit Control Act, as amended (2 U.S.C. 901a), and reduced funding for CDBG Disaster Recovery grants under the Appropriations Act to \$15.18 billion. Through the March 5, 2013, Notice, HUD allocated \$5.4 billion for the areas most impacted by Hurricane Sandy (see 78 FR 14329). Of the remaining \$9.78 billion, the May 29, 2013 Notice allocated \$514,012,000 for the purpose of assisting recovery in the most impacted and distressed areas declared a major disaster in 2011 or 2012. Shelby County, Tennessee was allocated \$7,464,000 of the CDBG Disaster Recovery funds for recovery from the impacts of the April 2011 storms. Additionally, the State of Tennessee was allocated \$13,810,000. The May 29, 2013 Notice designated Shelby County as

the most impacted and distressed county in Tennessee. As a result, a minimum of \$9,555,200.00 of the State's \$13,810,000 allocation must be spent in Shelby County according to the Notice. This CDBG Disaster Recovery Plan covers the entire allocation amount of \$7,464,000.00.

Shelby County Action Plan

Shelby County Mayor Mark H. Luttrell, Jr. has designated the Shelby County Department of Housing (SCDH) as the entity responsible to HUD for administering the distribution of CDBG-DR funds for Shelby County. This Action Plan was developed after having received considerable input from other State and local governments, departments and agencies, affected communities and stakeholder groups and with support from federal government partners.

Since Shelby County is designated as the most impacted and distressed county in Tennessee, and the State of Tennessee must spend a minimum of \$9,555,200.00 of the State's \$13,810,000 allocation in Shelby County, the priorities and recommendations included in this plan were developed in consultation with the State's preparation of its Action Plan, particularly with respect to the minimum amount it is required to spend in Shelby County.

Section 2 of this Action Plan provides an impact and unmet needs assessment that details many of the impacts of the April 2011 storms and identifies Shelby County's current projection of unmet need. The unmet needs assessment is based on currently available data and the County will continue to refine its unmet needs assessment if more data become available.

Section 3 of this Action Plan outlines priority disaster relief and long-term recovery recommendations based on the impact and unmet needs assessment. Through these recommendations, the County will focus on meeting the needs of low- and moderate-income populations impacted by the disasters. This section sets forth Shelby County's proposed activities under this Plan. These activities relate to infrastructure recovery as the leading priority that will be addressed with this allocation of CDBG-DR funds from HUD.

Section 4 of this Plan addresses Shelby County's anticipated method of distribution of funds for the proposed activities funded under this Plan.

Section 5 of this Plan describes Shelby County's anticipated performance schedule for accomplishing the activities identified in this Plan.

Section 6 of this Plan describes other criteria pertaining to Shelby County's use of CDBG-DR funds based on HUD guidance.

Section 7 of this Plan describes Citizen Participation measures taken to prepare this Plan, including a summary of citizen comments and responses to those comments.

As required by and within 30 days of the effective date of the Notice, Shelby County submitted to HUD evidence that it has in place proficient financial controls and procurement processes and has established adequate procedures to prevent any duplication of benefits as defined by section 312 of the Stafford Act, ensure timely expenditure of funds, maintain comprehensive Web sites regarding all disaster recovery activities assisted with these funds, and detect and prevent waste, fraud, and abuse of funds.

Amendments to this Action Plan may be necessary at different points throughout the long-term recovery. As additional needs are identified and prioritized and as additional CDBG-DR funds may be allocated to Shelby County by HUD, new programs or activities may be added or existing programs or activities may be altered in a manner necessitating amendment to the Action Plan.

As part of this Action Plan, HUD requires SCDH to define the terms “demonstrable hardship” and “not suitable for rehabilitation”. For the purposes of this Action Plan, demonstrable hardship is defined as an economic impact which is burdensome or very difficult to bear, causing economic distress well beyond mere inconvenience and is proven or shown, by objective evidence (not subjective feelings). Additionally, for purposes of this Action plan, SCDH considers a structure to be not suitable for rehabilitation if it is deteriorated beyond repair and/or if the costs of rehabilitation would exceed 50% of the estimated appraised value of the property.

Section 2 Impact and Unmet Needs Assessment

BACKGROUND

HUD requires Shelby County to complete an unmet needs assessment that quantifies the funding needed for disaster recovery. The assessment is used to determine the extent of unmet needs and to help prioritize among those needs, with a focus on low- and moderate-income households. The assessment must evaluate three core recovery sectors: (1) housing; (2) the economy; and (3) infrastructure.

This assessment was prepared with data, information, and/or consultation from the following sources:

- Federal State and Local Emergency Management Agencies
- National Weather Service
- Small Business Administration (SBA) data
- State of Tennessee Department of Economic and Community Development
- Local municipal governments
- Memphis and Shelby County Office of Construction Code Enforcement
- Shelby County Department of Roads, Bridges, and Engineering
- Memphis Light, Gas, & Water (MLGW)
- City of Memphis Division of Housing and Community Development
- Memphis Housing Authority
- Millington Housing Authority
- Shelby Farms Park Conservancy
- Agricenter International

The U.S. Small Business Administration provided approved loan amounts to recipients in Shelby County by zip code for the three disaster declarations and FEMA provided report number FIDA 21699.

On June 13, 2013, Shelby County Mark H. Luttrell, Jr. convened a meeting of local stakeholders including officials and staff of municipalities in Shelby County as well as organizations and agencies that might face unmet needs and barriers to recovery as a result of the storm. A copy of the sign-in sheet from this meeting is shown below in Figure 1. Over 21 people attended this meeting, where an overview of the relevant disasters were provided as well as a discussion of eligible activities for utilizing CDBG-Dr funds as well as CDBG National Objectives that must be met in utilizing the funds for disaster recovery. Attendees were asked to assess potential unmet needs in their communities or

Figure 1 CDBG-DR Stakeholder Meeting Sign-In Sheet (June 13, 2013)

CDBG DR Meeting June 13, 2013			
Name	Address	Phone	E-mail
Scott WALKUP	Shelby County Gov	222-7610	scott.walkup@shelbycountytg.gov
Tom Needham	Shelby County	222-2026	Tom.Needham@shelbycountytg.gov
Roland McElrath	220 S. Main	528-4376	rmcelrath@mlgpa.org
DAREK DASKIN	4836 N. W. 38055	901-572-3400	ddaskin@mlgpa.org
FINDLEY FRAZER	5170 SANDERLIN AVE SUITE 205 MEMPHIS	417-1058	findley.frazer@gmnetwork.com
MICHAEL MOYER	P.O. Box of Memphis	901-248-4422	mmoyer@partyofmemphis.com
LINDA BRASHEAR	500 N. Purchase Shelby Farms Park	767-7275 ext 305	lbrashear@shelbyfarmspark.com
John Selberg	7766 Farmington Germantown, TN	757-7279	jselberg@germantown-tn.gov
RICK McCLANNAN	6382 STONE PORTLAND, TN 38135	361-6499	rmcclannan@cityofbartlett-tn.org
MICHAEL E. STOLL	1930 S. GERMANTOWN GERMANTOWN, TN 38138	757-7222	mstoll@germantown-tn.gov
JAMES LEWELLEN	500 POPLAR VIEW COLLIERVILLE, TN 38017	457-2200	jlewellen@ci.collierville.tn.us
Stan Joyner	500 Poplar View Collierville 38017	457-2200	sjoyner@ci.collierville.tn.us
Charles Perkins	284 E. Main - OK Collierville, TN 38017	901-522-9811	PerkinsLaw@PerkinsLaw.com
John Charles Wilson	11117 Walnut Grove Rd Memphis, TN 38120	901-757-7777 Ext. 7100	jewilson@agricenter.org

CDBG DR Meeting June 13, 2013			
Name	Address	Phone	E-mail
ROBERT LEHKOPF	7805 FAUN DRIVE MEMPHIS, TN 38166	901-382-7400	LEHKOPFLEL@GMAIL.COM
Hugh Teaford	12 S.W. MAIN ST Memphis TN 38105	901-576-6946	Hugh.Teaford@memphistn.gov
ROBERT KNECHT	115 N. Main Box 672 Memphis TN 38167	901-576-6762	Robert.Knecht@memphistn.gov
Terry Wiggins	City of Bartlett Fire 2939 Altruria, Bartlett TN 38135	901-385-5536	twiggins@cityofbartlett.org
Patricia Chambers	1075 Mullins Station Rd Memphis, TN 38134	901-222-1070	patricia.chambers@shelbycountytg.gov
DAVID EDWARDS	MEMPHIS, TN	901-528-4139	DEDWARDS@MLGPA.ORG
Ron Powell	664 St Jude Place Memphis, TN	636-8113	ron.powell@memphistn.gov

areas of service as a result of the April 2011 storms and submit project recommendations to Shelby County for consideration by July 1, 2013.

SUMMARY OF IMPACTS AND UNMET NEEDS

According to HUD, “unmet needs” are financial resources necessary to recover from a disaster that are not satisfied by other public or private funding sources such as FEMA Individual Assistance, SBA Disaster Loans, or private insurance. Per HUD’s guidelines that an unmet needs analysis focus on the housing, economic and infrastructure sectors, Shelby County has determined that the infrastructure sector has suffered major damage as a result of the April 2011 storms. This damage to the infrastructure also extends into the economic sector, as damage to infrastructure presents a barrier to recovery for businesses, their employees, and their customers as a result of compromised infrastructure.

SCDH requested data from FEMA, including Individual Assistance data, as well as from SBA and local emergency management officials. The data received did not identify unmet needs with respect to the housing or business sectors.

This assessment takes into account the various forms of assistance available to, or likely to be available to, affected communities and individuals to identify needs not addressed by other sources, particularly reimbursement from FEMA for disaster impacts.

HOUSING

SCDH requested data from FEMA and SBA, as well as local emergency management officials, regarding individuals likely to need recovery assistance and to assist Shelby County with its assessment of unmet need. Nothing provided by either federal agencies or local emergency management officials revealed any significant remaining unmet need with respect to the April 2011 storms.

SCDH coordinated with the City of Memphis Division of Housing and Community Development, the Memphis Housing Authority, and the Millington Housing Authority regarding unmet need with respect to the April 2011 storms. None of these agencies were aware of any remaining unmet needs with respect to public housing, special needs housing, transitional housing, or housing for the homeless resulting from the storms (including emergency shelters; interim and permanent; owner and rental; single family and multifamily; public, HUD-assisted, affordable, and market rate housing).

Impact of Flooding on Housing Stock

The Shelby County Office of Construction Code Enforcement conducted a survey of areas impacted by floodwaters from the April 2011 storms in an effort to assess damages. Properties were surveyed to identify those that had extensive flood damage to structures and were unsafe to occupy, those that had some damage to structures but were safe to occupy, those that had floodwaters reaching but not entering structures, and those where flood waters did not reach the structure. The following describes the flooding impacts on single-family, duplex, triplex, multifamily, and mobile home housing as documented in the survey.

Single-Family Housing: The survey conducted by the Shelby County Office of Construction Code Enforcement included examination of 1,170 single-family properties. Of these, less than 4 percent (44 units) were found to have extensive damage from floodwaters and were considered unsafe to occupy. Another 24 units were determined to have some damage but were not determined to be unsafe to occupy.

Duplex Housing: The survey conducted by the Shelby County Office of Construction Code Enforcement, included examination of 86 duplexes. Of these, none were found to have extensive damage from floodwaters and thusly unsafe to occupy. Only one unit was determined to have some damage but was not determined to be unsafe to occupy.

Multifamily Housing: The survey conducted by the Shelby County Office of Construction Code Enforcement, included examination of 26 multifamily properties. Of these, none were found to have any flood damage including extensive damage from floodwaters.

Mobile Homes: Nine mobile home properties were surveyed and 5 of those were determined to have extensive damage from floodwaters and thusly unsafe to occupy. These flooded mobile home properties were not returned to residential use as they are located in areas prone to flooding.

Racial, Ethnic, and Low-income Concentrations

The Notice requires grantees to assess how planning decisions may affect racial, ethnic, and low-income concentrations, and ways to promote the availability of affordable housing in low-poverty, non-minority areas where appropriate and in response to disaster related impacts. Given the limited long-term impact of the 2011 storms on housing in Shelby County, it does not appear that planning decisions made in response to the unmet needs assessment will negatively affect racial, ethnic, and low-income concentration nor would it impact the availability of affordable housing in low-poverty, non-minority areas.

ECONOMIC DEVELOPMENT

SCDH requested data from FEMA and SBA, as well as local emergency management officials, regarding individuals likely to need recovery assistance and to assist Shelby County with its assessment of unmet need. Nothing provided by either federal agencies or local emergency management officials revealed any significant remaining unmet need with respect to the April 2011 storms.

Some two years after the April 2011, Shelby County has identified one key economic development barrier to recovery resulting from the April 2011 storms. This barrier is tied directly to a key unmet infrastructure need, particularly damage to the Raleigh-Millington Road Bridge over the Loosahatchie River. The impact and unmet need with respect to this bridge, including the impact of the storms upon the bridge structure, are described in additional detail below under the heading entitled "Infrastructure/Community Facilities".

In summary, the Raleigh-Millington Bridge was constructed in 1953, with a design life of 50 years. Flooding from the April 2011 storms stressed the bridge substructure and weight restrictions were placed on the bridge by the Tennessee Department of Transportation (TDOT) as a result. These restrictions increased the shipping costs for industry located near the bridge and limited the use of the bridge by emergency vehicles. There are 115 parcels in the immediate vicinity of the bridge, and many of these businesses are serviced by truck traffic which had used the bridge as a primary route before the weight limit was imposed by TDOT after the April 2011 storms. The following is a sampling of the industry in the area around the bridge including their US Industrial Classification (SIC) Code:

INDUSTRIAL CLASSIFICATION CODE	OWNER
1799	INDUSTRIAL CRANE SERVICE INC
2821	E I DUPONT DE NEMOURS AND COMPANY
8322	WOODSTOCK BAPTIST CHURCH
8322	GREENLEAF METH EPISCOPAL CH TR
4831	CITY OF MEMPHIS LG&W DIVISION
7359	DAKOTA RENTALS LLC
752	DUPONT FEEDSTOCKS CO
3399	TIMMINCO PROPERTIES INC
7699	B & J MACHINE WORKS
1541	PLANT MAINTENANCE SERVICE CORPORATION
2816	MIDWEST ZINC CORP
2899	OSMOSE INC
8999	POLLUTION CONTROL INDUS OF TENN LLC

8999	LIDLAW ENVIRONMENTAL SERVICES INC
4522	MEMPHIS SHELBY COUNTY AIRPORT AUTHORITY
4313	ILLINOIS CENTRAL RR CO

On September 18, 2012, Shelby County Department of Roads, Bridges, and Engineering held a public meeting regarding solid waste in the Woodstock Community. At the meeting, the restrictions on the Loosahatchie Bridge resulting from the storm damage were raised as subject of concern by members of the public in attendance at this meeting. At least 125 members of the public attended this meeting. A copy of the sign-in sheet from this meeting is shown in Figure 2 below.

The Shelby County Department of Roads, Bridges, and Engineering has also received letters regarding the restrictions placed on the Raleigh-Millington Road Bridge over the Loosahatchie River due to the damage from the storms, and the adverse impact these restrictions have on their business operations. For example, in a letter dated April 13, 2012 and shown in Figure 3 sent to the Department of Roads, Bridges, and Engineering from Terry Kirby, the President of Industrial Crane Service located at 2670 Fite Road, expressed the following concern regarding the bridge damage and weight restrictions:

Our Cranes and equipment sometimes travel twelve (12) miles out of the way going to and returning from job sites in the Memphis area. As you know with the recent astronomical fuel price increases, this additional travel can be very expensive, not only for added fuel costs but for maintenance and labor costs required because of this further travel on our equipment. Beginning the bridge replacement immediately would be very beneficial to our company as well as saving multiple costs to us and our customers.

In another letter dated April 16, 2012 and shown in Figure 4 sent to the Department of Roads, Bridges, and Engineering from Harold H. Perry, a co-owner of Plant Maintenance Service Corporation located at 3000 Fite Road, expressed the following concern about the bridge:

I, as well as many of my employees, travel Raleigh Millington Road in our drive to work, crossing the Loosahatchie Bridge almost twice every day. . . (The bridge's) condition is of grave concern to those of us who have few choices but to travel over the bridge and no choices that do not cause us to drive many miles out of the way. With the high price of fuel the cost of this additional travel causes undue hardship on

September 18, 2012

**Figure 2
Solid Waste Public Meeting
Sign In Sheet
Woodstock School**

	NAME	ADDRESS	E-MAIL ADDRESS (optional)
24	Beverly Ann Hamblin	1940 St Paul Millington, 38053	8764268
25	Charles Marchese	5075 Greater Wood P 38127	
26	Lee Smith	9580 New Bethel Road, Millington 38053	876-4393
27	Leslie Smith	" Same as above "	" " " "
28	Myrna A. Whitt	5756 Rust Rd, Memphis 38127	357-2216
29	David L. Adams	7369 Benjestown Rd, M. Millington 38053	876-5014
30	Marie G. Purdy	7982 Abston Rd. Millington 38053	876-5711
31	John Purdy	8010 Abston Rd. Millington - 38053	
32	Muldon Atteys	9260 Herring Hill Rd Millington 38053	876 3028
33	Jean Pettap	9260 Herring Hill Rd Millington 38053	8763028
34	Don't Peggy Wolf	7365 Benjamin Rd Millington 38053	5765561
35	Mary L. Carroll	3000 Riverview Blvd of Millington 38053	876-4445
36	William Ray	5990 Woodstock Plum Rd 38053	352-6715
37	Beth Flege	5757 Rust Rd 38127	357-4651
38	Jim & Lois Henderson	1688 Locke Cuba Rd. 38053	876-3308 Cell
39	Kevin McVey	1594 Walsh Cove 38053	901-876-6489 - (233-8819)
40	Jan S. Wingard	3675 Charles Bartlett Rd. 38053	
41	Lynne Pierotti	10007 Island 40 Rd. 38127	901 358-4337
42	Sarabeca Pierotti	6007 Island 40 Rd. 38127	901 358-4337
43	Louis Comprezzi	5923 Island 40 Rd. 38127	901-357-2261
44	Howard Willett	2545 Cuba-Millington Rd 38053	901-876-5343
45	Willie M. Jones	5756 Rust Rd, Memphis, TN 38127	
46	Darlene Morrow	6354 Old Millington Rd 38053	876-1132 (Morrow) 9 Big River, Net

September 18, 2012

**Solid Waste Public Meeting
Sign In Sheet
Woodstock School**

	NAME	ADDRESS	E-MAIL ADDRESS (optional)
47	Dea Maclean	1455 St. Paul Rd. 38053	dea99@bigriver.net
48	Joe McDaniel	9137 New Bethel 38053	Joeiginny@bigriver.net
49	Sue Cutchfield	4546 Walsh 38053	
50	Stephanie Morgan	7091 Woodstock Cuba Rd " "	
51	Lynda Darrell	6045 Woodstock Cuba Rd " "	
52	FANNIE MONA HECTOR	1163 SYLVAN RD " "	
53	Dan Johnson	7689 Woodstock Cuba	
54	Myra Johnson	7689 Woodstock Cuba " "	
55	Bobrah Craig	7985 Abston Road " "	Harry B. Craig@gmail.com
56	Ron Miller	2079 Russell Bond Rd 38053	
57	Frank Smith	6251 Millington Rd " "	
58	Charlie Smith	6273 Millington 38053	
59	Jay Almond	2989 Hittley Ln 38053	
60	Scott Johnson	7698 Woodstock Cuba 38053	
61	Bob Mitchell	2309 Fitz Rd Myra 38127	
62	Gill Johnson	7682 Woodstock-Cuba 38053	Margy57@bigriver.com
63	Mary Johnson	" " " "	
64	Winnette Bopko	5336 Braden Dr. 38127	winnettebopko@yahoo.com
65	John E Carson	638 Chasler Rd 38053	
66	Billie Parks Carter	2568 Rust Ave 38127	
67	Beverly Reen	2734 Rust, Armond 38053	
68	Quanita Detry	756 Rust Ave 38053	
69	Regina Ford	5331 Braden Rd 38127	

Para mas información en Español, por favor llame al 901-222-4289
Shelby County 2013 Disaster Recovery Plan

September 18, 2012

Figure 2 (continued)
Solid Waste Public Meeting
Sign In Sheet
Woodstock School

	NAME	ADDRESS	E-MAIL ADDRESS (optional)
70	C. T. Smith	6092 Woodstock-Cuba Rd. 38053	
71	Becky & Ken Musky	715 Chasen 38053	Dadaticlam9@aol.com
72	Bobby Johnson	2311 Cuba-Millington 38053	
73	Sadie Deaton	6545 Austin Perry-Arlington 38002	
74	Larry J. Daniel	3905 Old Cuba-Dangerfield	Bud Hill 1@aol.com
75	Jonas Swigg	3024 Javicha Cove Millington	JSMITH41651940@yahoo.com
76	Charles Pack	1160 Fite Rd. Millington 38003	
77	Barry Davis	3009 Jericho RD 71 "	
78	Harry Craig	7985 Abston Rd. Millington, TN	Harry.C.Craig@gmail.com
79	Cherianne Harris	6752 Camp John Millington 38053	
80	Klavis Holquin	2450 Garnet Rd Millington 38053	holq517@yahoo.com
81	Austin G. Bradley	1967 Campbell Rd Millington 38052	native boy 77@yahoo.com
82	Janine Jordan	6727 Walnut Rd, Millington, TN 38053	
83	Stephan Road	7000 Benjestown Millington TN	
84	Jim East	9570 Herring Hill Rd Mill TN	
85	Charles Smith	2562 Rust Ave. City 38127	
86	BRENDA HOLT	7924 WOODSTOCK CUBA RD, MILLINGTON	MOLNBRENSAOL.COM
87	B. Morgan	5912 Rust Road	aggies9110@yahoo.com
88	Willie Bridgesforth, Jr.	2734 Russell Bond Rd Mill, TN	wbrdg4perthj@msn
89	Brent Pugh	8027 Herover Rd Millington, TN 38053	
90	John Carson	638 Chaser Rd Millington, TN 38053	
91	Charlotte Carson	638 Chaser Rd Millington, TN 38053	
92			

Roy J. McNamee 2565 Rust Ave 38127
 Barbara G. McNamee 2565 Rust Ave 38127
 Ethel E. Mabry 2566 Russell Bond Rd Mill
 Emma E. Montgomery 8448⁸⁴⁴⁸ Kautin Branch, Millington.
 Melman E. Oglesby 2999 Cuba-Millington, Mill, TN
 Ann Smith 6090 Woodstock Cuba Rd. Millington
 WILLIAM GOLDEN 766 FITE RD. MAPS, TN 38127
 JOYCE GOLDEN
 DALE GOODMAN 6520 N. WATKINS 38053 Mill TN
 KENNETH W. RAINES 6135 BOSKEY DR 38053 Mill TN,
 LARRY M. WORKMAN 6081 BOSKEY JR. 38053 Mill, TN
 LARRY ROGERS 3535 HOMETACKES MILLINGTON
 W. H. Fisher Jr 5920 Hamlett Rd Millington TN 38053

Robert D. Bennington 3545 Home Acres Rd.
 Jane & Warren Donaldson 577 S. Circle Rd.
 Billie Sreed 6351 Hwy. 57 North
 Kim H. Shaw 5735 Northland Dr, Millington, TN 38053

91
 34
 125

Figure 3 Industrial Crane Service, Inc. Letter



Phone (901) 358-4801
Fax (901) 358-4809
Email: indcrase@aol.com

2670 Fite Road
Memphis, TN 38127-1938

Friday, April 13, 2012

Shelby County Roads and Bridges Engineer
Att: Darren Sanders
6449 Haley Drive
Memphis, TN 38136

In RE: Damaged bridge, located on Raleigh-Millington Road, between Fite Road and New Allen Road

Dear Mr. Sanders:

We are writing this letter to ask that construction begin immediately to replace the bridge on Raleigh-Millington Road. Our cranes and equipment cannot cross over the bridge due to the current weight limit and as a result of the bridge being unstable and/or damaged overall. Our equipment sometimes travels twelve (12) miles **out of the way** going to and returning from job sites in the Memphis area. As you know with the recent astronomical fuel price increases, this additional travel can be very expensive, not only for added fuel costs but for maintenance and labor costs required because of this further travel on our equipment. Beginning the bridge replacement immediately would be very beneficial to our company as well as saving multiple costs to us and to our customers.

Thank you for your time and patience in consideration of our request for a new bridge on Raleigh-Millington Road.

Sincerely,



Terry Kirby
President
INDUSTRIAL CRANE SERVICE, INC.

Figure 4 Plant Maintenance Service Corporation Letter



April 16, 2012

Darren Sanders
 Shelby County Roads and Bridges Engineer
 6449 Haley Drive
 Memphis, TN 38136

Regarding: Raleigh Millington Road Bridge over the Loosahatchie River

Mr. Sanders,

I am co-owner of Plant Maintenance Service Corporation, a business with two locations on Fite Road and one on Old Millington Road. I, as well as many of my employees, travel Raleigh Millington Road in our drive to work, crossing the Loosahatchie River Bridge at least twice almost every day.

Very high, swift running water during the last 2 year's flood seasons caused a weight limit to be placed on the bridge and it seems to be growing increasingly unstable. Its condition is of grave concern to those of us who have few choices but to travel over the bridge and no choices that do not cause us to drive many miles out of the way. With the high price of fuel the cost of this additional travel causes undue hardship on the employees as some are no longer comfortable traversing the bridge.

On behalf of my employees, I join with other business owners in this area in asking you to consider replacing of this old, worn out bridge as soon as possible.

Thank you for your consideration.

Sincerely,

Harold H Perry
 Owner/Vice President

barrier to recovery from the April 2011 storms for employers served by the bridge as well as their customers and employees.

INFRASTRUCTURE/COMMUNITY FACILITIES

the employees as some are no longer comfortable traversing the bridge.

As the letters described above suggest, the condition and use restriction with regard to the Raleigh-Millington Road Bridge over the Loosahatchie River is a

In consultation with local agencies and officials the most notable impacts to infrastructure and community facilities occurred in three key areas:

1. Damage to Raleigh-Millington Road Bridge over the Loosahatchie River
2. Damage MLGW's Electrical Distribution System
3. Damage to Infrastructure and Facilities in the Town of Bartlett

The following describes the impact of the April 2011 storms in these key areas and quantifies remaining unmet need for disaster recovery.

Raleigh Millington Road Bridge over the Loosahatchie River

Impact

The Raleigh-Millington Bridge serves as a primary connection between the northern parts of Shelby County, including the City of Millington, the Naval Activities Command and the City of Memphis. With the Memphis city limits located at the center of the Loosahatchie River; the City of Memphis and Shelby County are sharing the cost to reconstruct this bridge with a three phase project approach.

The Raleigh-Millington Bridge was constructed in 1953, with a design life of 50 years. The structural evaluation performed in 2007 by the Tennessee Department of Transportation resulted in rating the bridge as poor. This rating was due to scour from the Loosahatchie River and a superstructure with excessive wear in several bridge members. As a result, a weight restriction prohibiting large trucks had to be instituted until bridge repairs could be made. After restoring the existing bridge to full use in 2007, flooding from April 2011 caused additional stress on the substructure. TDOT inspected the bridge immediately after the flood and on June 10, 2011 set weight restrictions on the bridge of 10 tons for dual axle, and 18 tons for three or more axles. This restriction to tractor trailers has increased the shipping cost of industry located on Fite Road and restricted the use of the bridge by emergency vehicles.

The existing bridge is approximately 925 feet long, and consists of 26 spans with five beams, spaced 6'-6" on center, per span supporting a 9-

inch thick concrete deck. Typically these beams are W24 shapes spanning 31 feet between supports with W12 diaphragm beams at each end and at mid span. The exception to this typical situation occurs over the Loosahatchie River where W36 beams were used to cover three spans of 60 feet, 85 feet, and 65 feet.

Both the North and South bridge abutments have been undermined from seepage of water from the road/bridge above. This erosion of base material has caused the road bed to sink at each approach. Additional asphalt has been added to compensate. The concrete channel which lines the tributary at the North end of the bridge has been undermined, and a portion of the slab has broken away. A significant build-up of debris has occurred around the center bridge pier at the Loosahatchie River.

The Raleigh-Millington Road Bridge project is a phased project consisting of three phases. Phase I will be the engineering and Right of Way phase for the new road and bridge structure over the Loosahatchie River in Shelby County, Tennessee. The completed design documentation will be used to obtain bids for the two phases of construction. The project is located approximately ten (10) miles northeast from downtown Memphis, Tennessee on Raleigh-Millington Road between New Allen Road to the south and Fite Road to the north. The bridge serves as a connection for the Waverly Farms area and the City of Memphis. The bridge also serves the industrial area along Fite Road.

The second phase of project will be the construction of a new two lane bridge to the East of the existing bridge. The new two lane bridge will be 37'-0" out-to-out providing two 12'-0" travel lanes and a 12'-0" shoulder/pedestrian multiuse path. The existing bridge will remain in service during this Phase of the construction.

The third and final phase of the project will be the demolition of the existing bridge and construction of an additional 37'-0" section of the bridge. The final project and the completion of the third phase will be 74'-0" out-to-out providing a total of four 12'-0" travel lanes. Also, a 12'-0" shoulder/pedestrian multi-use path will be provided in both directions. The proposed bridge railing is the Tennessee Department of Transportation standard STD-1-SS concrete parapet (modified to be 12-inches at the top) with attached 18-inch wrought iron railing. The structure will be designed with sufficient opening and height to convey the 100-year flow with a minimum of freeboard of one foot. Span arrangements were chosen to maximize the span over the river and minimize the number of required piers.

The bridge design consists of seven continuous spans using pre-cast bulb-tee concrete girders. All spans are designed continuous for live load in a single unit with integral abutments, and as such there are no expansion joints on the bridge. The superstructure is composed of nine (9) precast concrete bulb-tee girders with 6-inch webs and with a center-to-center spacing of 8'-6". The beams are composite with an 8 ¼" thick concrete deck. An additional dead load allowance of 15 pounds per square foot for stay-in-place metal forms is assumed for design.

The following key design elements of the bridge project take into account the costs of incorporating mitigation and resiliency measures to protect against future hazards:

1. The proposed bridge low chord was raised to lie just above the 500-yr flood elevation;
2. The proposed 7-span bridge (reduced from the existing 24-span bridge) reduces the likelihood of debris snagging, thereby lowering the possibility of structure damage as well as maintenance costs;
3. The proposed span arrangement eliminates mid river pier placement, thereby reducing the obstruction of primary flow;
4. Concrete collars will be added to piling nearest the river to resist adverse effects of debris impacts;
5. The proposed bridge is seismically designed for a 1000 year return period; and
6. Improvements have been designed for the unnamed tributary, i.e. adding a grade control structure which will stop upstream head cutting and realigning the tributary beneath the proposed bridge, thereby mitigating the scour potential near the bridge piling.

On April 1, 2012 the Director of Roads, Bridges, and Engineering, Tom Needham, made a presentation to the members of the Woodstock Community Association. The Woodstock Community is West of U.S. Highway 51. The citizens of that community regular use the Raleigh Millington Road Bridge to access emergency services. Mr. Needham updated the group on paving projects in their area, extension of Fite Road over the Railroad and plans on the replacement of the Raleigh Millington Road Bridge. The 30 members of the association at the meeting expressed support for all projects, especially the Bridge replacement, since any long term loss of that bridge would have a detrimental effect on them reaching Methodist Hospital in Memphis (the nearest area hospital).

On June 18, 2013 Mayor Luttrell and Mr. Needham attended a meeting of the Forest Drive Civic Club. Mr. Needham gave the group an update on paving in their area, Fire Road extension and the replacement of the Raleigh Millington Road Bridge. They expressed concern that the Fite Road project had been postponed for over 10 years since it was promised to be completed and they did not want the Raleigh Millington Road Bridge to suffer the same fate. The 50 members of the community express strong support for the Raleigh Millington Road Bridge project.

Unmet Need

Table 2 below details the unmet need for recovery and reconstruction of the Raleigh Millington Road Bridge over the Loosahatchie River.

Table 2 Unmet Need Recovery/Reconstruction of the Raleigh Millington Road Bridge over Loosahatchie River			
Description	Recovery Cost	FEMA Funds Disbursed	Unmet Need
Phase I Engineering	\$800,000	\$0.00	\$800,000
Phase II Phase 1 Construction	\$4,300,000	\$0.00	\$4,300,000
Phase III Phase 2 Construction	\$4,700,000	\$0.00	\$4,700,000
Total	\$9,800,000.00	\$0.00	\$9,800,000.00

Source: Shelby County Department of Roads, Bridges, and Engineering

The total unmet need for all phases of disaster recovery and reconstruction of the Raleigh Millington Road Bridge at the Loosahatchie River project is estimated to total \$9,800,000.

MLGW’s Electrical Distribution System

Impact

Impacts from each of the three disasters are detailed below.

FEMA-1974-DR

As a direct result of the April 2011 storms, MLGW used force account labor, equipment, material and contracted crews to restore utilities to 92,000 customers after the April 4, 2011 severe storm produced heavy wind and thunderstorms that

hit the Memphis and Shelby County area inflicting widespread damage to MLGW's Electric Distribution System. Map 4 depicts damage from the April 4, 2011 storm system the damage as well as impacted low- and moderate-income census tracts.

Restoration work consisted of repair or replacement of 177 damaged wooden poles, 357 broken or damaged cross arms, 62 overhead distribution line transformers, 8 pad mounted distribution transformers, 1 large 2500kva transformer, 4400 ft. of primary and 30,000 ft. of secondary line and associated system components and hardware.

MLGW established an Emergency Operations Center (EOC) located at Netters Building at 1665 Whitten Road, Memphis TN to answer outage calls, dispatch crews, direct emergency switching, deliver food and materials and arrange for food and lodging for out of town crews.

MLGW used 1,055 force account labor hours to staff the EOC answering 66,505 calls and performing Emergency protective duties.

The April 4, 2011 storm caused (2) 2500 KVA transformers to fail at MLGW's Lichterman Pumping Station facility. MLGW sent out crews to unhook the equipment and replace them temporarily with (1) 5000KVA transformer and associated system hardware and components. This project is still in progress and is expected to be complete by December 2013.

FEMA-1978-DR

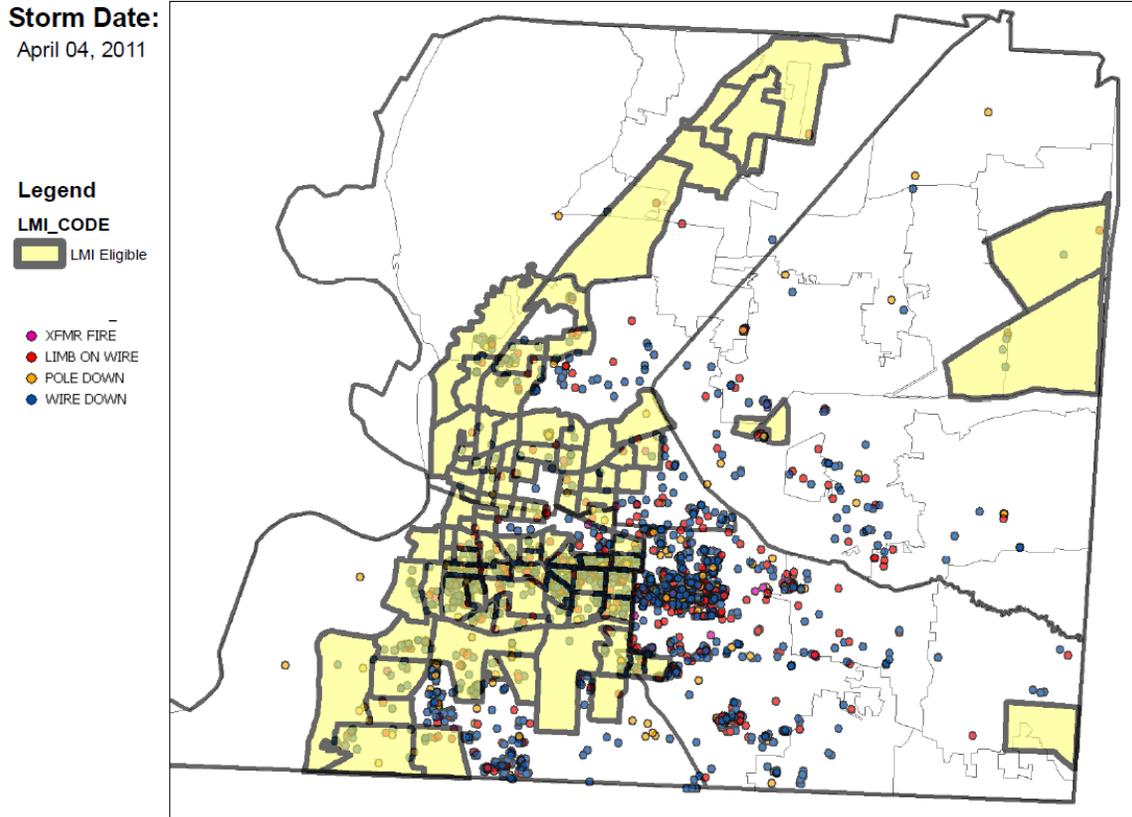
MLGW used force account labor, equipment, material and contracted crews to restore utilities to 140,054 customers after the April 19, 2011 severe line of thunderstorms containing heavy rain, lightning and wind gusts up to 56 mph inflicted heavy damage to the Town of Arlington and to MLGW's Electric Distribution System. The system sustained the following damage: 119 incidents involving primary conductor down and 79 circuits off. Map 5 depicts damage from the April 4, 2011 storm system the damage as well as impacted low- and moderate-income census tracts.

Restoration work consisted of repair or replacement of 154 Primary or Neutral lines, 62 Wooden Poles, 67 Refuse lines, 62 transformers, 8 jumper, 27 other primary lines, replaced 23 other transformers, 3 refuse risers, Underground Fault and put up service in Section 119.

MLGW established an Emergency Operations Center (EOC) located at Netters Building at 1665 Whitten Road, Memphis TN to answer outage calls, dispatch crews, direct emergency switching, deliver food and materials and arrange for food and lodging for out of town crews. MLGW also used 2,864.5 force account

labor hours to staff the EOC to answer 61,374 calls and perform Emergency protective duties.

Map 4
MLGW 2011 Shelby County, TN Damage and LMI Areas



FEMA-1979-DR

MLGW used force account labor, equipment, material, contracted crews to restore utilities to 113,198 customers after the April 26, 2011 severe line of thunderstorms, and associated flooding moved into Shelby County creating heavy rain, lightning and straight-line wind gusts up to 44 mph and producing damage to MLGW's Electric Distribution System. Map 6 depicts damage from the April 26, 2011 storm system the damage as well as impacted low- and moderate-income census tracts.

Restoration work consisted of repair and replacement of 127 Primary or Neutral lines, 51 Wooden Poles, 109 Refuse Lines, 83 transformers, 15 jumper, 13 other primary lines, replacement of 46 transformers, refuse riser 10, Underground Fault 10 (cable) and put up service in Section 101. In anticipation of the predicted flooding MLGW constructed four sandbag beams to protect adjacent properties from flooding as well. MLGW established an Emergency Operations Center (EOC) located at Netters Building at 1665 Whitten Road, Memphis TN to answer

Map 5
MLGW 2011 Shelby County, TN Damage and LMI Areas

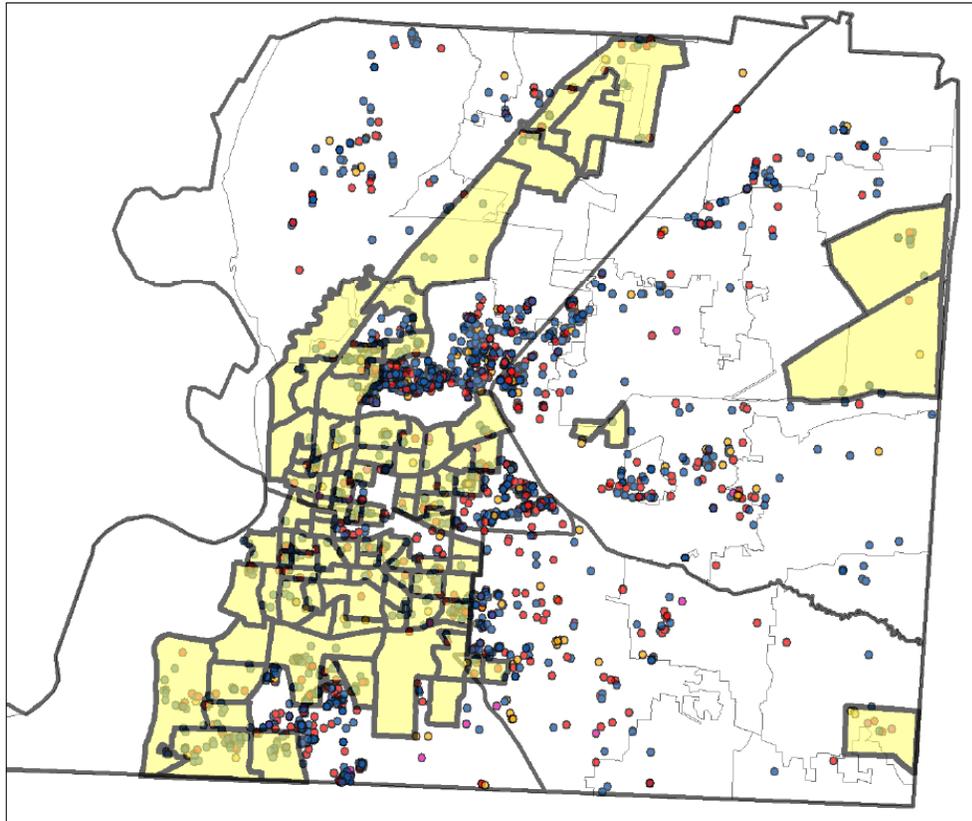
Storm Date:
April 19, 2011

Legend

LMI_CODE

■ LMI Eligible

- XFMR FIRE
- LIMB ON WIRE
- POLE DOWN
- WIRE DOWN



outage calls, dispatch crews, direct emergency switching, deliver food and materials and arrange for food and lodging for out of town crews. MLGW also used 1,290.5 force account labor hours to staff the EOC to answering 46,488 calls and perform Emergency protective duties.

Unmet Need

After reimbursement from FEMA for restoration of the Electrical Distribution System, an unmet disaster recovery need of \$ \$2,275,915.34 remains. Table 3 below details MLGW's unmet need for restoration of the Electrical Distribution System.

Map 6
MLGW 2011 Shelby County, TN Damage and LMI Areas

Storm Date:
 April 26, 2011

- Legend**
- LMI_CODE**
- LMI Eligible
 - XFMR FIRE
 - LIMB ON WIRE
 - POLE DOWN
 - WIRE DOWN

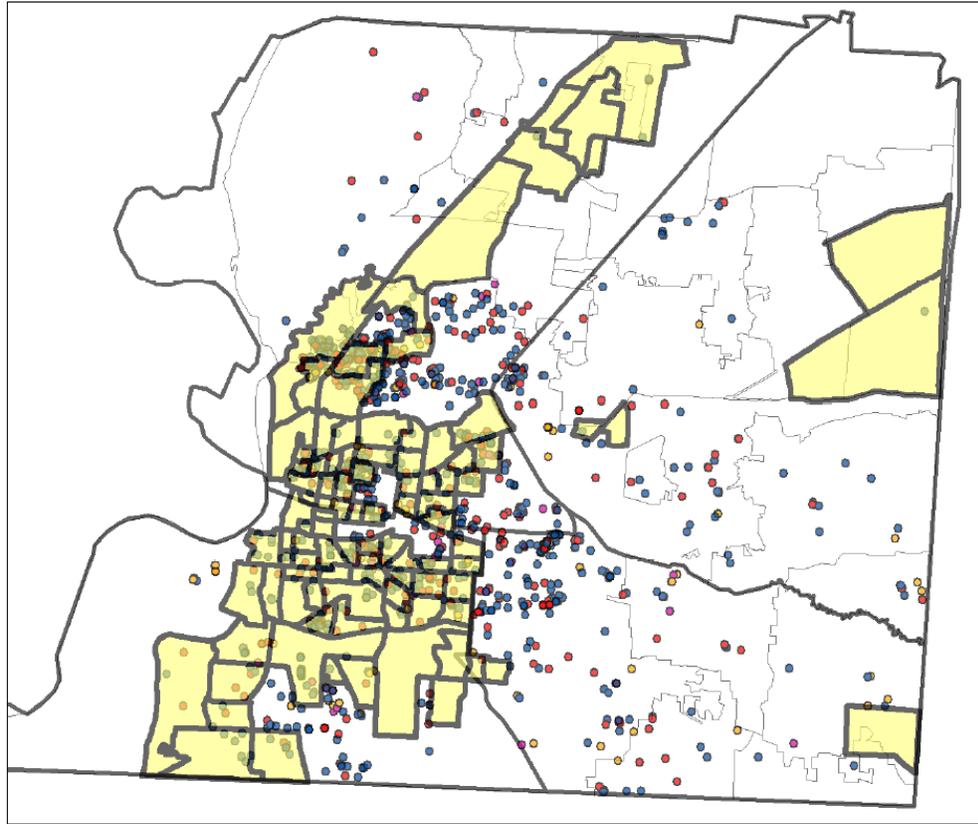


Table 3 Unmet Need MLGW Electrical Distribution System Restoration			
Disaster	Recovery Cost	FEMA Funds Disbursed	Unmet Need
FEMA-1978-DR	\$2,761,591.88	\$1,850,343.43	\$911,248.45
FEMA-1979-DR	\$1,767,592.39	\$1,767,592.39	\$785,596.62.
FEMA-1974-DR	\$2,015,639.02	\$1,436,568.75	\$579,070.27
Total	\$7,330,419.91	\$5,054,504.57	\$2,275,915.34

Source: Memphis Light, Gas, & Water

Infrastructure and Facilities in the Town of Bartlett

The following describes impact to infrastructure and facilities in the Town of Bartlett and resulting unmet need from the April 2011 storms.

Impact

As a direct result of the April 2011 storms, the Town of Bartlett used force account labor and materials to restore key infrastructure and services that were damaged or not functioning as designed in the aftermath of the storms. These expenses included emergency protective measures. Police personnel conducted extra security (Shelter) and traffic control due to power outages in residential areas and traffic signals, control of entry onto hazardous roadways from flood conditions. Public Works personnel conducted emergency clearance of roads due to downed trees, placed barricades on approximately 15 city roads and sand bagged areas to contain waters. Fire department used qualified paramedics to staff shelters and to perform medical evaluation of people before sending them to the shelter. In addition, three generators were used throughout the water/waste water system due to electrical outages. Restoration of traffic signals and controls, sewer lift stations, control of waste water overflow, and debris removal to protect wastewater treatment facilities were all part of recovery efforts in the immediate wake of the storms. The Town of Bartlett has identified barriers to recovery from these storms which also include slope repair needed for a bridge approach in the 3100 block of Bartlett Boulevard due to failure caused by the storms.

Unmet Need

After reimbursement from FEMA for some recovery costs, an unmet disaster recovery need of \$53,165.15 remains. Table 4 below details the Town of Bartlett's unmet need for various disaster recovery costs.

Table 4 Unmet Need Bartlett Restoration and Recovery Projects			
Description	Recovery Cost	FEMA Funds Anticipated/Disbursed	Unmet Need
Emergency Protective Measures	\$28,788.78	\$25,190.18	\$3,598.60
Restoration of Traffic Signals/Cabinets	\$8,533.52	\$7,466.83	\$1,066.69
Sewer Lift Station Repairs	\$1,530.14	\$1,337.87	\$192.27
Wastewater Overflow Control	\$4,882.93	\$4,272.56	\$610.37
Debris Removal to Protect Wastewater Treatment Facilities	\$9,429.84	\$7,907.62	\$1,522.22
Bridge Approach Repair (3100 Block of Bartlett Blvd.)	\$415,575.00	\$369,400.00	\$46,175.00
Total	\$468,740.21	\$415,575.06	\$53,165.15

Source: City of Bartlett

Section 3 Shelby County's Priority, Goals, Activity Recommendations and Objectives for Long Term Recovery

The identified unmet needs revealed that direct impacts to the infrastructure sector yielded significant unmet need in contrast to the housing and economic development sectors, served to inform the allocation of resources in this Action Plan, and accordingly demonstrates a proportionate allocation of resources to direct infrastructure impacts.

Based upon the results of the assessment of impact and unmet needs, Shelby County has established the Infrastructure sector as the highest priority for long term recovery from the April 2011 storms and has established the following goals with respect to this priority:

1. Restoration of Key Infrastructure and Public Facilities
2. Electrical Distribution System Restoration

LONG-TERM RECOVERY RECCOMENDATIONS AND OBJECTIVES

Shelby County has taken, and continues to take, steps toward implementing and executing a sustainable and resilient long-term recovery. In accordance with HUD regulations, the County also continues to examine its long-term recovery goals and objectives, which include designing, implementing and administering policies, programs, strategies and streamlined implementation methods informed by post-disaster evaluations and input from citizens, local communities, and other stakeholders. Moreover, consistent with HUD guidance, the County will undertake and promote hazard recovery techniques and programs and seek to utilize green technologies and practices where when doing so it is feasible and cost-effective. In addition, the County remains committed to assisting local municipalities by providing resources, technical assistance and targeted programs to support their efforts to recover and rebuild efficiently, effectively and expediently.

Based on the assessment of impact and unmet needs resulting from the April 2011 storms and based upon the CDBG-DR allocation amount, Shelby County is recommending the infrastructure and community development activities identified below for CDBG-DR funding for disaster relief and long-term recovery in areas affected impacted by the April 2011 storms.

Activity 1 Phase I Engineering For Restoration And Recovery Of The Raleigh Millington Road Bridge Over The Loosahatchie River

- (1) Disaster Plan Goal: Restoration of Key Infrastructure and Public Facilities
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Public Facilities and Improvements (General)(570.201(c))
- (5) Budgeted Amount: \$800,000.00
- (6) Proposed Accomplishment/Outcome: Reimbursement for Engineering and design work necessary for bridge restoration and recovery
- (7) Location: City of Memphis and unincorporated Shelby County (over the Loosahatchie River on Raleigh Millington Road east of Fite Road)
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 2 Phase II Construction (Phase 1) For Restoration and Recovery Of The Raleigh Millington Road Bridge Over The Loosahatchie River

- (1) Disaster Plan Goal: Restoration of Key Infrastructure and Public Facilities
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Public Facilities and Improvements (General)(570.201(c))
- (5) Budgeted Amount: \$3,961,719.51
- (6) Proposed Accomplishment/Outcome: Engineering and design necessary for bridge restoration and recovery
- (7) Location: City of Memphis and unincorporated Shelby County (over the Loosahatchie River on Raleigh Millington Road east of Fite Road)
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Note: Total estimated cost for this activity is 4,300,000. Shelby County will be leveraging \$338,280.49 in local resources to fully fund this activity.

Activity 3 Electrical Distribution System Restoration Resulting From Disaster
Number FEMA-1978-DR

- (1) Disaster Plan Goal: Restoration of the Electrical Distribution System
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Public Facilities and Improvements
(General)(570.201(c))
- (5) Budgeted Amount: \$911,248.45.
- (6) Proposed Accomplishment/Outcome: Reimbursement for costs associated with restoration and recovery of the electrical distribution system in the aftermath of the disaster identified by FEMA as FEMA-1978-DR.
- (7) Location: Shelby County
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 4 Electrical Distribution System Restoration Resulting From Disaster
Number FEMA-1979-DR

- (1) Disaster Plan Goal: Restoration of the Electrical Distribution System
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Public facilities and Improvements
(General)(570.201(c))
- (5) Budgeted Amount: \$785,596.62.
- (6) Proposed Accomplishment/Outcome: Reimbursement for costs associated with restoration and recovery of the electrical distribution system in the aftermath of the disaster identified by FEMA as FEMA-1979-DR.
- (7) Location: Shelby County
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 5 Electrical Distribution System Restoration Resulting From Disaster Number FEMA-1974-DR

- (1) Disaster Plan Goal: Restoration of the Electrical Distribution System
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Public Facilities and Improvements (General)(570.201(c))
- (5) Budgeted Amount: \$579,070.27.
- (6) Proposed Accomplishment/Outcome: Reimbursement for costs associated with restoration and recovery of the electrical distribution system in the aftermath of the disaster identified by FEMA as FEMA-1979-DR.
- (7) Location: Shelby County
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 6 Emergency Protective Measures

- (1) Disaster Plan Goal: Restoration of Key Infrastructure and Public Facilities
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Public Facilities and Improvements (General)(570.201(c))
- (5) Budgeted Amount: \$3,598.60
- (6) Proposed Accomplishment/Outcome: Reimbursement for costs associated with restoration and recovery in the aftermath of the April 2011 storms.
- (7) Location: Bartlett
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 7 Restoration of Traffic Signals And Cabinets

- (1) Disaster Plan Goal: Restoration of Key Infrastructure and Public Facilities
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Street Improvements (General)(570.201(c))
- (5) Budgeted Amount: \$1,066.69
- (6) Proposed Accomplishment/Outcome: Reimbursement for costs associated with restoration and recovery in the aftermath of the April 2011 storms.
- (7) Location: Bartlett
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 8 Sewer Lift Station Repairs

- (1) Disaster Plan Goal: Restoration of Key Infrastructure and Public Facilities
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Water/Sewer Improvements (General)(570.201(c))
- (5) Budgeted Amount: \$192.27
- (6) Proposed Accomplishment/Outcome: Reimbursement for costs associated with restoration of sewer lift stations in the aftermath of the April 2011 storms.
- (7) Location: Bartlett (Raner Creek at Billy Maher Road Lift Station and Shadowlawn Lift Station)
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 9 Wastewater Overflow Control

- (1) Disaster Plan Goal: Restoration of Key Infrastructure and Public Facilities
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Water/Sewer Improvements (General)(570.201(c))
- (5) Budgeted Amount: \$610.37
- (6) Proposed Accomplishment/Outcome: Reimbursement for costs associated with control of wastewater overflow in the aftermath of the April 2011 storms.
- (7) Location: Bartlett (Quail Ridge sewer lagoon. 5215 Sawyer Hollow, Tract 020642, Block 1003)
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 10 Debris Removal to Protect Wastewater Treatment Facilities

- (1) Disaster Plan Goal: Restoration of Key Infrastructure and Public Facilities
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Water/Sewer Improvements (General)(570.201(c))
- (5) Budgeted Amount: \$1,522.22
- (6) Proposed Accomplishment/Outcome: Reimbursement for costs associated with debris removal to protect wastewater treatment facilities in the aftermath of the April 2011 storms.
- (7) Location: Bartlett
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 11 Bridge Approach Repair

- (1) Disaster Plan Goal: Restoration of Key Infrastructure and Public Facilities
- (2) Objective: Suitable Living Environment
- (3) Outcome: Sustainability
- (4) Disaster Plan Priority: Street Improvements (General)(570.201(c))
- (5) Budgeted Amount: \$46,175.00
- (6) Proposed Accomplishment/Outcome: Restoration of a bridge approach damaged in the aftermath of the April 2011 storms.
- (7) Location: Bartlett (3100 block of Bartlett Boulevard)
- (8) CDBG National Objective: Activities benefitting low- and moderate-income persons (570.201(a)(1)).

Activity 12 Administration

- (1) Disaster Plan Goal: Not Applicable
- (2) Objective: Not Applicable
- (3) Outcome: Not Applicable
- (4) Disaster Plan Priority: Program Administration (General)(570.206)
- (5) Budgeted Amount: \$373,200.00
- (6) Proposed Accomplishment/Outcome: Not Applicable
- (7) Location: Not Applicable
- (8) CDBG National Objective Not Applicable

LEVERAGING OF RESOURCES

SCDH anticipates leveraging \$338,280.49 in local funds for completion of Phase I Construction for restoration of the Raleigh-Millington Road Bridge over the Loosahatchie River. Additional leverage includes \$5,054,504.57 in FEMA funds for the MLG&W and Bartlett infrastructure restoration and recovery projects for total leverage in the amount of **\$5,808,360.12**. This leverage investment will generate a more effective and comprehensive recovery by providing a safe crossing for industry as well as low- and moderate-income area communities served by the Raleigh-Millington Road Bridge over the Loosahatchie River; protecting MLG&W ratepayers – especially vulnerable low-, very low- and extremely low-income customers; and relieving the City of Bartlett from costs associated with disaster restoration and recovery.

Furthermore, up to \$4,700,000 in local funds may additionally be leveraged if CDBG-DR funds (i.e. funds award to the State of Tennessee) are not allocated for Phase II restoration of the Raleigh-Millington Road Bridge over the Loosahatchie River.

Section 4 Method of Distribution

Shelby County will contract directly with the City of Bartlett and MLGW for reimbursement of eligible expenses described in this plan. For the Raleigh Millington Road Bridge Reconstruction, Shelby County will contract directly for design and construction work necessary to complete the project.

Reimbursement for activities already completed prior to approval of this Action Plan will be made by Shelby County upon satisfaction that all applicable CDBG-DR, CDBG, and other federal requirements have been satisfied including Release of Funds.

For work to commence after approval of this Action Plan, Shelby County will monitor performance to ensure that all applicable CDBG-DR, CDBG, and other federal requirements have been satisfied including Release of Funds, and funds will be reimbursed on a reimbursement basis, in a form and manner acceptable to Shelby County and the entity performing the work, on a reimbursement basis.

Section 5 Performance Schedule

The performance schedule for each activity in this Action Plan is described below.

Activity 1 Engineering For Restoration And Recovery Of The Raleigh Millington Road Bridge Over The Loosahatchie River

This activity has been completed and drawdown of funds from HUD for this activity is expected to be completed by January 31, 2014.

Activity 2 Construction (Phase I) For Restoration And Recovery Of The Raleigh Millington Road Bridge Over The Loosahatchie River

This activity is underway and is expected to be completed by June 30, 2014 with drawdown of funds from HUD to be completed by August 15, 2014.

Activity 3 Electrical Distribution System Restoration Resulting From Disaster Number FEMA-1978-DR

This activity is underway and is expected to be completed by December 30, 2014 with drawdown of funds from HUD to be completed by March 31, 2014.

Activity 4 Electrical Distribution System Restoration Resulting From Disaster Number FEMA-1979-DR

This activity has been completed and drawdown of funds from HUD for this activity is expected to be completed by March 31, 2014.

Activity 5 Electrical Distribution System Restoration Resulting From Disaster Number FEMA-1974-DR

This activity has been completed and drawdown of funds from HUD for this activity is expected to be completed by March 31, 2014.

Activity 6 Emergency Protective Measures

This activity has been completed and drawdown of funds from HUD for this activity is expected to be completed by March 31, 2014.

Activity 7 Restoration of Traffic Signals and Cabinets

This activity has been completed and drawdown of funds from HUD for this activity is expected to be completed by March 31, 2014.

Activity 8 Sewer Lift Station Repairs

This activity has been completed and drawdown of funds from HUD for this activity is expected to be completed by March 31, 2014.

Activity 9 Wastewater Overflow Control

This activity has been completed and drawdown of funds from HUD for this activity is expected to be completed by March 31, 2014.

Activity 10 Debris Removal to Protect Wastewater Treatment Facilities

This activity has been completed and drawdown of funds from HUD for this activity is expected to be completed by March 31, 2014.

Activity 11 Bridge Approach Repair

This activity is not underway but is projected to be completed by June 30, 2014 with drawdown of funds from HUD to be completed by August 15, 2014.

Activity 12 Administration

This activity will be on-going throughout the term of the CDBG-DR grant.

Section 6 Other Criteria

PROMOTION OF HIGH QUALITY, DURABLE, ENERGY EFFICIENT AND MOLD RESISTANT CONSTRUCTION METHODS

To the extent that Shelby County is not proposing housing rehabilitation or construction, or other building construction activities, this is not applicable to the activities proposed in this Action Plan. However any amendments to the Action Plan will address the promotion of high quality, durable, energy efficient and mold resistant construction methods if building programs or activities arise as a priority.

STEPS SHELBY COUNTY WILL TAKE TO ENCOURAGE ADEQUATE FLOOD-RESISTANT HOUSING FOR ALL INCOME GROUPS

To the extent that Shelby County is not proposing housing rehabilitation or construction, or other housing programs or activities, this is not applicable to the activities proposed in this Action Plan. However any amendments to the Action Plan will address steps Shelby County will take to encourage adequate flood resistant housing for all if housing programs or activities arise as a priority.

GREEN BUILDING

To the extent that Shelby County is not proposing housing rehabilitation or construction, or other building construction activities, this is not applicable to the activities proposed in this Action Plan. However any amendments to the Action Plan will address the incorporation of green building activity into its building activities if building programs or activities arise as a priority.

ANTI-DISPLACEMENT AND RELOCATION

Shelby County will seek to minimize displacement as a result of activities assisted with CDBG Disaster Recovery Funds under this plan. SCDH does not anticipate any activities proposed in this plan will cause displacement, however SCDH will comply with the acquisition and relocation requirements of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended, and implementing regulations at 49 CFR 24; and has in effect and will follow its residential antidisplacement and relocation assistance plan required under section 104(d) of the Housing and Community Development Act of 1974, as amended, in connection with any activity assisted with funding under the CDBG or HOME programs, including those activities assisted with CDBG Disaster Recovery Funds.

PROGRAM INCOME

SCDH does not anticipate any activities proposed in this plan will generate program income.

MONITORING STANDARDS AND PROCEDURES

The Shelby County Department of Housing (SCDH) has been designated by Shelby County Mayor Mark H. Luttrell, Jr. as the administrator of Shelby County's allocation of Community Development Block Grant Disaster Recovery Funding. Further, SCDH will provide technical assistance to local government grant recipients and undertake administrative and monitoring activities to ensure compliance with applicable federal requirements.

The Department of Housing has been working with these local governments since 1992 when Shelby County became an Urban County and began receiving CDBG funding. During the implementation of previous CDBG Action Plans and the execution of eligible CDBG activities and projects, the Department of Housing has provided training on the requirements of CDBG regulations and worked closely to insure that all program requirements were/are met. The Department will continue these activities during the expenditure of this special allocation. Finally, the Department of Housing will be directly involved in the monitoring of each activity and will provide direct assistance to those involved as it pertains to Environmental Reviews, Davis-Bacon Regulations, and project implementation.

As required by federal regulation, Shelby County will monitor costs and expenses for the proposed projects, and will work with the recipients of the disaster funds to ensure that program requirements, including non-duplication of benefits, are met and that continual quality assurance is achieved. In the event that accusations of fraud or abuse are alleged, Shelby County will conduct investigations into those cases of fraud and abuse by utilizing its standard monitoring procedures and financial review of those instances where suspect. Upon review of findings and after working with recipients to establish the validity of questioned costs and subsequent disallowance, Shelby County will request repayment from the recipient(s).

SUBSTANTIAL AMENDMENTS TO THE ACTION PLAN

The following events would require a substantial amendment to the 2013 Disaster Recovery Action Plan:

1. Addition or deletion of any eligible activity described in the Plan which is in excess of \$20,000.00; and

2. A 20 percent increase in an activity when the allocated budget for the activity is in excess of \$100,000.00, the funds for the increase come from a different eligible activity, and the transfer of funds alters the reduced project in scope or service level.

SCDH does not regard the following as a substantial amendment:

The increase and/or decrease in the funding level of one or more activity or projects among activities within the 2013 Disaster Recovery Action Plan, provided that the transfer of funds between activities/projects does not result in the cancellation of an activity nor does the transfer of funds result in alteration of an activity or activities in a manner that conflicts with the activities outlined in the Disaster Recovery Action Plan. This provision is not to be construed as allowing the general administrative budget to exceed the allowable limit.

Proposed Substantial Amendments to the 2013 Disaster Recovery Action Plan, if any, will be published on the Shelby County Government website (www.shelbycountyttn.gov), emailed to Urban County Consortium representatives from all affected communities, and will provide for a seven day public comment period. All comments will be considered and responded to in writing within ten business days of receipt.

Section 7 Citizen Participation

HUD requires that CDBG-DR grantees publish their Action Plan for Disaster Recovery on the grantee's official Web site for no less than seven calendar days to solicit public comment. SCDH published the Action Plan to submit public comment (via email or in writing) on Friday, March 9, 2013 for public review through Wednesday, August 21, 2013 for a total of twelve calendar days. A screen capture of the link to the Action Plan as it appeared on SCDH's official website is shown in Figure 5 below.

During the twelve day public review period, no comments on the proposed Action Plan were received by SCDH.

Figure 5 Screen Capture of Action Plan Publication on Shelby County Website



A Public Notice was published on Monday, August 12, 2013 in the *Commercial Appeal*, the predominant daily newspaper serving the Memphis area, to notify the public of the availability of the Action Plan for review to submit public comment. A copy of this notice as it appeared in the *Commercial Appeal* on page F3 appears in Figure 6 below.

Figure 6 Public Notice in the *Commercial Appeal* (August 12, 2013)

Legal Notices: 526
General

Shelby County Department of Housing Community Development Block Grant Recovery Program Disaster Recovery Action Plan

Shelby County Government is being awarded \$7,454,000 through the Supplemental Community Development Block Grant Disaster Recovery Funding from the Disaster Relief Appropriations Act (Public Law 112-1, January 25, 2012) for disaster relief of unmet needs resulting from severe storms and flooding that impacted Shelby County during April 2011 and includes the following three disasters: FEMA-1874-DR, FEMA-1578-DR, and FEMA-1879-DR. In accordance with the Act, Shelby County Government has prepared a Disaster Recovery Action Plan for the use of this award and proposes funding the following activities:

- Engineering - Raleigh Millington/Loosahatchie River Bridge \$800,000.00
- Phase I Construction - Raleigh Millington/Loosahatchie River Bridge \$1,961,715.51
- Electrical Distribution System Restoration (FEMA-1874-DR) \$711,348.45
- Electrical Distribution System Restoration (FEMA-1879-DR) \$785,596.63
- Electrical Distribution System Restoration (FEMA-1874-DR) \$279,070.37
- Bartlett Emergency Protective Measures \$2,598.60
- Bartlett Restoration of Traffic Signals and Cabinets \$1,866.69
- Bartlett Sewer Lift Station Repairs \$192.37
- Bartlett Wastewater Overflow Control \$610.37
- Bartlett Debris Removal to Protect Wastewater Treatment Facilities \$1,523.22
- Bartlett Boulevard Bridge Approach Repairs \$46,175.00
- Administration \$373,006.00

These are eligible CDBG activities under 24 C.F.R. 570.201(c) Public facilities and improvements and 570.206 General Program Administration meeting the national objective criteria found at 24 C.F.R. 570.208(a)(1) Activities benefiting low- and moderate-income persons and 570.208(c) Activities designed to meet community development needs having a particular urgency.

Prior to submission of the Disaster Recovery Action Plan to the U.S. Department of Housing and Urban Development, Shelby County is making the plan available for public review and comment for a 10 day period. This 10 day period will occur from Monday, August 12, 2013 through Wednesday, August 21, 2013 where the plan will be available for review to all interested parties on the Shelby County Government website at the following address: <http://shelbycountytn.gov/index.aspx?high=123> and the plan may also be viewed between the hours of 9:00 a.m. through 4:30 p.m. (except Saturdays and Sundays) at Shelby County Department of Housing, 1825 Milling Station Road, Memphis, Tennessee 38134.

Written comments should be e-mailed to Mr. Scott Walkup at the following e-mail address: scott.walkup@shelbycountytn.gov or can be mailed to Mr. Walkup at Shelby County Department of Housing, 1825 Milling Station Road, Memphis, Tennessee 38134. For more information, please call Mr. Jim Vazquez or Mr. Scott Walkup with the Shelby County Department of Housing at (901) 222-4289. TTY Number (901) 222-2300.

Para más información en Español, por favor llame al (901) 222-2300.

Para mas información en Español, por favor llame al 901-222-4289
 Shelby County 2013 Disaster Recovery Plan

A Spanish language version of the Public Notice was also published on Sunday, August 18, 2013 in *La Prensa*, a weekly newspaper providing weekly bilingual newspaper service in the Memphis area, to notify the public of the availability of the Action Plan for review to submit public comment. A copy of this notice as it appeared in *La Prensa* on page A9 appears in Figure 7 below.

Figure 7 Public Notice in *La Prensa* (August 18, 2013)

La Prensa Latina • Semana del 18 al 24 de Agosto del 2013 • www.laprensalatina.com • 901.751.2100 A9

Noticias del Norte de Mississippi • Northern Mississippi News

Olive Branch busca ayuda estatal para iluminación

Olive Branch Seeks State Help On Lighting

OLIVE BRANCH, MS (LPL / AP) --- Funcionarios de la ciudad de Olive Branch planean solicitar al Departamento de Transporte del Estado iluminación para hasta tres intersecciones, entre ellas una que servirá a un hospital nuevo y que abrirá muy pronto.

Según reporta el Commercial Appeal, la Junta de Concejales votó la semana pasada para enviarle una resolución a MTDOT (por sus siglas en inglés, para el Dept. de Transporte de Mississippi), pidiendo "iluminación de alto mástil" para los dos puntos de entrada y salida de la U.S. 78.

Pero la ciudad quiere algo más que la aprobación. Las autoridades quieren que el Estado de Mississippi pague por la instalación. Cada intersección costaría de \$400,000 a \$500,000.

Un funcionario de MDOT indicó que es poco probable que el Estado pague por la instalación. En los últimos años, dijo Mitch Turner, Ingeniero de Distrito de MDOT, el Estado ha decidido no financiar la iluminación de

alto mástil.

ENGLISH

OLIVE BRANCH, MS (AP) --- Olive Branch city officials plan to ask the state Department of Transportation to light up three intersections, including one that will serve the soon-to-be-open hospital.

The Commercial Appeal reports the Board of Aldermen voted last week to send a resolution to MDOT asking for "high mast lighting" at two entry and exit points on U.S. 78.

The city is going further than just wanting approval, however. Officials want the state to pay for installation. Each intersection would cost \$400,000 to \$500,000.

An MDOT official indicated that it is unlikely the state will pay for the installation. The past few years, said Mitch Turner, MDOT district engineer, the state has chosen not to fund high mast lighting.

Compañía automotriz no ha podido materializar grandes planes

Car Company's Big Plans Haven't Materialized

TÚNICA, MS (LPL / AP) --- Hace cuatro años, una empresa automotriz anunció grandes planes para el delta del Mississippi. Con el dinero de los inversionistas extranjeros y de otras fuentes, GreenTech Automotive Inc. construiría una planta masiva de autos de bajo consumo de combustible, trayendo miles de puestos de trabajo a la zona.

Parecía una victoria segura para todos. Los inversionistas extranjeros tendrían la oportunidad de permanecer en los EE.UU. Un área empobrecida se vería beneficiada por tener más plazas de trabajo. Mississippi generaría ingresos fiscales. Los políticos podrían promocionar la creación de más empleos.

Pero hoy en día, el lugar destinado para dicha planta sigue estando vacante. La Comisión de Bolsa y Valores está investigando a GreenTech, y el sondeo está pasando las fronteras de Mississippi. Ahora el candidato gubernamental de Virginia, Terry McAuliffe, y la empresa dirigida por Tony Rodham, el hermano de la ex-secretaria de Estado Hillary Clinton Rodham, están bajo escrutinio.

ENGLISH

TUNICA, MS (AP) --- Four years ago, a startup car company announced big plans for the Mississippi Delta. With money from foreign investors and other sources, GreenTech Automotive Inc. would build a massive plant for energy-efficient cars, bringing thousands of jobs to the area.

It seemed like a win for everyone. Foreign investors would get the opportunity to stay in the U.S. An impoverished area would get jobs. Mississippi would generate tax revenues. Politicians could tout job creation.

But today, the place where the plant was to be remains mostly vacant. The Securities and Exchange Commission is investigating GreenTech, and the probe is reverberating well beyond Mississippi's borders. It's brought scrutiny to Virginia gubernatorial candidate Terry McAuliffe and to the company run by Tony Rodham, former Secretary of State Hillary Rodham Clinton's brother.

Departamento de Vivienda del Condado de Shelby
Programa de Recuperación y Desarrollo Comunitario
(Community Development Block Grant Recovery Program)
Plan de Acción para la Recuperación de Desastres

El Gobierno del Condado de Shelby ha recibido \$7,464,000 gracias a un financiamiento suplementario a través del Programa de Desarrollo Comunitario y Recuperación de Desastres de la Ley de Asignaciones de Ayuda para Desastres (Disaster Relief Appropriations Act (Public Law 113-2, January 29, 2013)) (Ley Pública 113-2, 29 de enero del 2013) para las operaciones de socorro ante las necesidades insatisfechas derivadas de las fuertes tormentas e inundaciones que afectaron al Condado de Shelby en abril del 2011, y comprende los siguientes tres desastres: FEMA-1974-DR, FEMA-1978-DR y FEMA-1979-DR. De acuerdo con la Ley, el Gobierno del Condado de Shelby ha preparado un Plan de Acción para la Recuperación de Desastres para el uso de esta subvención y propone financiar las siguientes actividades:

Ingeniería - Raleigh Millington / Loosahatchie River Bridge	\$800,000.00
Fase I de Construcción - Raleigh Millington / Loosahatchie River Bridge	\$3,961,719.51
Restauración del Sistema de Distribución Eléctrica (FEMA-1978-DR)	\$911,248.45
Restauración del Sistema de Distribución Eléctrica (FEMA-1979-DR)	\$785,596.62
Restauración del Sistema de Distribución Eléctrica (FEMA-1974-DR)	\$579,070.27
Medidas de Protección para Emergencias en Bartlett	\$3,598.60
Restauración de Señales de Tráfico y Gabinetes en Bartlett	\$1,066.69
Reparación de la Estación de Bombeo de Alcantarillado en Bartlett	\$192.27
Control del Desbordamiento de Aguas Residuales en Bartlett	\$610.37
Remoción de Escombros para la Protección de los	
Centros de Tratamiento de Aguas Residuales en Bartlett	\$1,522.22
Reparación del Puente en Bartlett Blvd.	\$46,175.00
Administración	\$373,200.00

Éstas son las actividades elegibles de CDBG bajo el 24 CFR 570.201 (c) de las Instalaciones y Mejoras Públicas y el 570.206 de la Administración General del Programa que satisfacen los criterios y objetivos nacionales que se encuentran en el 24 CFR 570.208 (a) (1) de las Actividades en Favor de las Personas de Bajos y Moderados Ingresos y el 570.208 (c) de las Actividades destinadas a satisfacer las necesidades de desarrollo de la comunidad que tiene una urgencia en particular.

Antes de la presentación del Plan de Acción para la Recuperación de Desastres del Departamento de Vivienda y Desarrollo Urbano de EE.UU., el Condado de Shelby se ha encargado de que el plan esté disponible para su revisión y comentarios públicos por un periodo de 10 días, desde el lunes, 12 de agosto del 2013, hasta el miércoles, 21 de agosto del 2013. Este plan está disponible para que todos los interesados puedan leerlo en la página web del Gobierno del Condado de Shelby en la siguiente dirección: <http://shelbycountyttn.gov/index.aspx?nid=1375>. El plan también puede ser visto de 8:00 am a 4:30 pm (excepto sábados y domingos) en el Departamento de Vivienda del Condado de Shelby, 1075 Mullins Station Road, Memphis, Tennessee 38134.

Los comentarios escritos deben ser enviados por correo electrónico al Sr. Scott Walkup en la siguiente dirección de correo electrónico: scott.walkup@shelbycountyttn.gov o pueden ser enviados al Sr. Walkup en el Departamento del Condado de Shelby de Vivienda, 1075 Mullins Station Road, Memphis, Tennessee 38134. Para obtener más información, por favor llamar al Sr. Jim Vázquez o al Sr. Scott Walkup, con el Departamento de Vivienda del Condado de Shelby, en el (901) 222-4289. **Número de TTY (901) 222-2300**

Para más información en español, favor de llamar al (901) 545-4265.

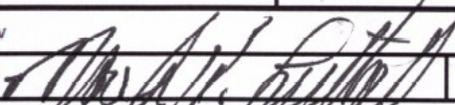
In coordination with the Shelby County Department of Purchasing, SCDH intended to publish a copy of the notice in the *Tri-State Defender*, a weekly newspaper serving the African-American community in the Memphis area, to notify the public of the availability of the Action Plan for review to submit public comment. For reasons that could not be determined at the time this Action Plan was completed, the notice failed to be published in the *Tri-State Defender* during the public review period.

Appendix A

Standard Form 424 (SF-424)

Application for Federal Assistance SF-424		Version 02
*1. Type of Submission:		*2. Type of Application * If Revision, select appropriate letter(s)
<input type="checkbox"/> Preapplication <input type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application		<input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision *Other (Specify) _____
3. Date Received:		4. Applicant Identifier:
5a. Federal Entity Identifier:		*5b. Federal Award Identifier:
State Use Only:		
6. Date Received by State:		7. State Application Identifier:
8. APPLICANT INFORMATION:		
*a. Legal Name: Shelby County Government		
*b. Employer/Taxpayer Identification Number (EIN/TIN): 62-000841		*c. Organizational DUNS: 041174889
d. Address:		
*Street 1: <u>1075 Mullins Station Road</u>		
Street 2: _____		
*City: <u>Memphis</u>		
County: <u>Shelby</u>		
*State: <u>Tennessee</u>		
Province: _____		
*Country: <u>USA</u>		
*Zip / Postal Code <u>38104</u>		
e. Organizational Unit:		
Department Name: Housing		Division Name: Planning & Development
f. Name and contact information of person to be contacted on matters involving this application:		
Prefix: <u>Mr.</u>		*First Name: <u>Jim</u>
Middle Name: <u>C.</u>		
*Last Name: <u>Vazquez</u>		
Suffix: _____		
Title: <u>Administrator</u>		
Organizational Affiliation:		
*Telephone Number: (901) 379-7100 Fax Number: (901) 379-7129		
*Email: <u>jim.vazquez@shelbycountyttn.gov</u>		

Application for Federal Assistance SF-424	Version 02
*9. Type of Applicant 1: Select Applicant Type: B.County Government Type of Applicant 2: Select Applicant Type: Type of Applicant 3: Select Applicant Type: *Other (Specify)	
*10 Name of Federal Agency: Department of Housing & Urban Development	
11. Catalog of Federal Domestic Assistance Number: 14.218 CFDA Title: CDBG/ Entitlement Grants	
*12 Funding Opportunity Number: 14.218 *Title: CDBG/ Entitlement Grants	
13. Competition Identification Number: Title: CDBG Disaster Recovery Program	
14. Areas Affected by Project (Cities, Counties, States, etc.): Shelby County, Tennessee	
*15. Descriptive Title of Applicant's Project: 2011 Storms and Flooding Disaster Recovery	

Application for Federal Assistance SF-424		Version 02
16. Congressional Districts Of:		
*a. Applicant: 7, 8, & 9		*b. Program/Project: 7, 8, and 9
17. Proposed Project:		
*a. Start Date: October 1, 2013		*b. End Date: September 30, 2015
18. Estimated Funding (\$):		
*a. Federal	\$7,464,000	
*b. Applicant	0.00	
*c. State	0.00	
*d. Local	0.00	
*e. Other	0.00	
*f. Program Income	0.00	
*g. TOTAL	\$7,464,000	
*19. Is Application Subject to Review By State Under Executive Order 12372 Process?		
<input type="checkbox"/> a. This application was made available to the State under the Executive Order 12372 Process for review on _____ <input type="checkbox"/> b. Program is subject to E.O. 12372 but has not been selected by the State for review. <input checked="" type="checkbox"/> c. Program is not covered by E. O. 12372		
*20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U. S. Code, Title 218, Section 1001) <input checked="" type="checkbox"/> ** I AGREE ** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions		
Authorized Representative:		
Prefix: Mr.		*First Name: Mark
Middle Name: H.		
*Last Name: Luttrell		
Suffix: Jr.		
*Title: Mayor of Shelby County, Tennessee		
*Telephone Number: (901) 222-2000		Fax Number: (901) 222-2005
* Email: mark.luttrell@shelbycountyttn.gov		
*Signature of Authorized Representative: 		*Date Signed: 8-26-13

Authorized for Local Reproduction

Standard Form 424 (Revised 10/2005)
 Prescribed by OMB Circular A-102

Application for Federal Assistance SF-424

Version 02

***Applicant Federal Debt Delinquency Explanation**

The following should contain an explanation if the Applicant organization is delinquent of any Federal Debt.
Applicant organization is not delinquent of any Federal Debt.

Appendix B Certifications

CERTIFICATIONS

1. The grantee certifies that it will affirmatively further fair housing, which means that it will conduct an analysis to identify impediments to fair housing choice within its jurisdiction and take appropriate actions to overcome the effects of any impediments identified through that analysis, and maintain records reflecting the analysis and actions in this regard (see 24 CFR 570.487(b)(2) and 570.601(a)(2)). In addition, the grantee certifies that agreements with subrecipients will meet all civil rights related requirements pursuant to 24 CFR 570.503(b)(5).
2. The grantee certifies that it has in effect and is following a residential antidisplacement and relocation assistance plan in connection with any activity assisted with funding under the CDBG program.
3. The grantee certifies its compliance with restrictions on lobbying required by 24 CFR part 87, together with disclosure forms, if required by part 87.
4. The grantee certifies that the Action Plan for Disaster Recovery is authorized under State and local law (as applicable) and that the grantee, and any contractor, subrecipient, or designated public agency carrying out an activity with CDBG–DR funds, possess(es) the legal authority to carry out the program for which it is seeking funding, in accordance with applicable HUD regulations and this Notice.
5. The grantee certifies that activities to be administered with funds under this Notice are consistent with its Action Plan.
6. The grantee certifies that it will comply with the acquisition and relocation requirements of the URA, as amended, and implementing regulations at 49 CFR part 24, except where waivers or alternative requirements are provided for in this Notice.
7. The grantee certifies that it will comply with section 3 of the Housing and Urban Development Act of 1968 (12 U.S.C. 1701u), and implementing regulations at 24 CFR part 135.
8. The grantee certifies that it is following a detailed citizen participation plan that satisfies the requirements of 24 CFR 91.105 or 91.115, as applicable (except as provided for in notices providing waivers and alternative requirements for this grant).
9. The grantee certifies that it is complying with each of the following criteria:

(1) Funds will be used solely for necessary expenses related to disaster relief, long-term recovery, restoration of infrastructure and housing, and economic revitalization in the most impacted and distressed areas for which the President declared a major disaster in the aftermath of disasters numbered by FEMA as 1974, 1978, and 1979, pursuant to the Stafford Act.

(2) With respect to activities expected to be assisted with CDBG–DR funds, the Action Plan has been developed so as to give the maximum feasible priority to activities that will benefit low- and moderate-income families.

(3) The aggregate use of CDBG–DR funds shall principally benefit low- and moderate-income families in a manner that ensures that at least 50 percent of the grant amount is expended for activities that benefit such persons.

(4) The grantee will not attempt to recover any capital costs of public improvements assisted with CDBG–DR grant funds, by assessing any amount against properties owned and occupied by persons of low- and moderate-income, including any fee charged or assessment made as a condition of obtaining access to such public improvements, unless:

(a) disaster recovery grant funds are used to pay the proportion of such fee or assessment that relates to the capital costs of such public improvements that are financed from revenue sources other than under this title; or

(b) for purposes of assessing any amount against properties owned and occupied by persons of moderate income, the grantee certifies to the Secretary that it lacks sufficient CDBG funds (in any form) to comply with the requirements of clause (a).

10. The grantee certifies that it (and any subrecipient or recipient)) will conduct and carry out the grant in conformity with title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d) and the Fair Housing Act (42 U.S.C. 3601–3619) and implementing regulations.

11. The grantee certifies that it has adopted and is enforcing the following policies:

(1) A policy prohibiting the use of excessive force by law enforcement agencies within its jurisdiction against any individuals engaged in nonviolent civil rights demonstrations; and

(2) A policy of enforcing applicable State and local laws against physically barring entrance to or exit from a facility or location that is the subject of such nonviolent civil rights demonstrations within its jurisdiction.

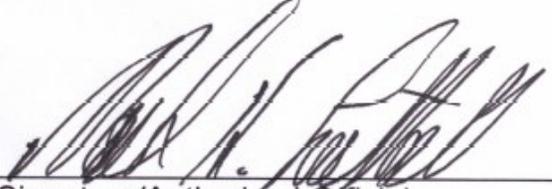
12. The grantee certifies that it (and any subrecipient or recipient) has the capacity to carry out disaster recovery activities in a timely manner.

13. The grantee will not use grant funds for any activity in an area delineated as a special flood hazard area or equivalent in FEMA's most recent and current data source unless it also ensures that the action is designed or modified to minimize harm to or within the floodplain in accordance with Executive Order 11988 and 24 CFR part 55.

14. The grantee certifies that its activities concerning lead-based paint will comply with the requirements of 24 CFR part 35, subparts A, B, J, K, and R.

15. The grantee certifies that it will comply with applicable laws.

16. The grantee certifies that it has reviewed the requirements of this Notice and requirements of Public Law 113-2 applicable to funds allocated by this Notice, and that it has in place proficient financial controls and procurement processes and has established adequate procedures to prevent any duplication of benefits as defined by section 312 of the Stafford Act, to ensure timely expenditure of funds, to maintain comprehensive Web sites regarding all disaster recovery activities assisted with these funds, and to detect and prevent waste, fraud, and abuse of funds.



Signature/Authorized Official

8-26-13
Date

Mayor of Shelby County, Tennessee
Title

Appendix C

HUD Checklist (SCDH Internal Review)

Action Plan Checklist for Funds under Public Law 113-2

**Community Development Block Grant (CDBG) Disaster Recovery
Disaster Relief Appropriations Act, 2013**

Grantee: Shelby County, Tennessee
 Entity Designated to Administer the Funds: Shelby County Department of Housing
 Amount of Funds Allocated in Plan: \$7,464,000
 Full or Partial Action Plan: Full
 Reviewer/Title: Scott Walkup (Internal Review)

Date Plan Submitted: Not Applicable
 Date Plan Reviewed: n/a
 Submitted within 90 days of Federal Register Notice? n/a

Criteria:		Yes <i>(provide page #)</i>	No <i>(provide justification)</i>
A. General Action Plan Requirements (FR14332-FR14334)			
Does the Action Plan for disaster recovery identify the proposed use(s) of grantee's allocation, including criteria for eligibility, how the uses address long-term recovery needs? Specifically:			
(1) Needs Assessment	An impact and unmet needs assessment, as described in the Notice:		
	(a) Does the assessment evaluate the three core aspects of recovery – housing, infrastructure, and economic development?	25	
	(b) Does the assessment of emergency shelters and housing needs address interim and permanent; owner and rental; single family and multifamily; public, HUD-assisted, affordable, and market rate?	25	
	(c) Does the assessment take into account the various forms of assistance available to, or likely to be available to, affected communities and individuals to identify needs not addressed by other sources?	25	
	(d) Did the grantee produce an estimate of unmet need by estimating the portion of need likely to be addressed by insurance proceeds, other federal assistance, or any other funding source by using the most recent available data? Did the grantee cite data sources?	36, 40, and 42	
	(e) Are impacts described by type at the lowest geographical level practicable (e.g., county level or lower if available)?	33-39 and 41	
	(f) Does the assessment pay special attention to neighborhoods with high percentages of damaged homes and provide a demographic analysis (e.g., race, income) in those neighborhoods to identify any special needs to be addressed?		Not applicable (no such needs were identified from available data)
	(g) Does the assessment identify the types of businesses (including North American Industry Classification System code) most impacted, with a description of their likely barriers to recovery?	27-28	
	(h) Does the assessment take into account the costs of incorporating mitigation and resiliency measures to protect against future hazards?	35	
(2) Connection between Needs and Allocation(s) of Funds	Does the assessment describe the connection between the identified unmet needs and the allocation of CDBG-DR resources, demonstrating a proportionate allocation of resources relative to areas and categories (housing, economic rev., infra.) of greatest need?	43	
(3) Planning & Coordination	(a) How the grantee will promote sound, sustainable long-term recovery planning informed by a post-disaster evaluation of hazard risk, especially land-use decisions that reflect responsible flood plain management and take into account possible sea level rise (for example, by using the new FEMA floodplain maps and designs applying the new Advisory Based Flood Elevations (ABFE) or higher)?		Not applicable - proposed activities do not directly impact land use
	(b) How the grantee will coordinate with other local and regional planning efforts to ensure consistency?		Not applicable - proposed activities do not directly impact land use

Action Plan Checklist for Funds under Public Law 113-2

Criteria:		Yes (provide page #)	No (provide justification)
(4) Leveraging Funds	How the grantee will leverage CDBG disaster recovery funds to generate a more effective and comprehensive recovery?	49	
(5) Protection of People and Property; Construction Methods	How the grantee's programs or activities will attempt to protect people and property from harm and how the grantee will encourage construction methods that emphasize high quality, durability, energy efficiency, a healthy indoor environment, sustainability, and water or mold resistance, including how it will support adoption and enforcement of modern building codes and mitigation of hazard risk, including sea rise, storm surge, and flooding, where appropriate?		Not applicable - proposed activities do not include construction of housing or other buildings
	(a) How the grantee will comply with the Green Building Standard established in the Notice for all new construction of residential buildings and for all replacement of substantially damaged residential buildings (i.e., where repair costs exceed 50% of replacement cost)? This requirement does not apply when construction is completed, under construction, or under contract prior to the date that assistance is approved for the project.		Not applicable - proposed activities do not include construction of housing or other buildings
	(b) How the grantee will comply, to the extent applicable, with guidelines specified in the HUD CPD Green Building Retrofit Checklist for the rehabilitation of non-substantially damaged residential buildings where the repair costs are less than 50% replacement cost, including standards for appliances and products when replaced as part of rehab? This requirement does not apply when Energy star, Water-Sense Labeled, or FEMP-designated products do not exist.		Not applicable - proposed activities do not include construction of housing or other buildings
(6) Public Housing, HUD-assisted Housing, and Housing for the Homeless	How the grantee will identify and address the rehabilitation (as defined at 24 CFR.570.202), reconstruction and replacement of:		
	(a) public housing (including administrative offices), including how the grantee will address the rehabilitation, mitigation and new construction needs of each impacted Public Housing Authority within its jurisdiction;		Not applicable - proposed activities do not include construction of housing or other buildings
	(b) HUD-assisted housing (as defined by the Notice); and		Not applicable - proposed activities do not include construction of housing or other buildings
	(c) McKinney-Vento funded shelters and housing for the homeless (including emergency shelters, transitional and permanent housing for the homeless, and private market units receiving project-based assistance or with tenants that participate in the Section 8 Housing Choice Voucher program)?		Not applicable - proposed activities do not include construction of housing or other buildings
	(d) Does the plan set aside funding specifically to address these needs?		Not applicable - proposed activities do not include construction of housing or other buildings
(7) Disaster-resistant Housing	How the grantee will encourage provision of a housing for all income groups that is disaster-resistant, including a description of how it plans to address:		

Action Plan Checklist for Funds under Public Law 113-2

Criteria:		Yes <i>(provide page #)</i>	No <i>(provide justification)</i>
	(a) Transitional housing, permanent supportive housing and permanent housing needs of individuals and families (including subpopulations) that are homeless or at risk of being homeless?		Not applicable - proposed activities do not include construction of housing or other buildings
	(b) Prevention of low-income individuals and families with children (especially those with incomes below 30 percent of median) from becoming homeless?		Not applicable - proposed activities do not include construction of housing or other buildings
	(c) The special needs of persons who are not homeless but require supportive housing (e.g., populations identified in 24 CFR 91.315(e) or 91.215(e) as applicable)?		Not applicable - proposed activities do not include construction of housing or other buildings
	(d) How planning decisions may affect racial, ethnic, and low-income concentrations, and ways to provide the availability of affordable housing in low-poverty, non-minority areas where appropriate and in response to disaster-related impacts?		Not applicable - proposed activities do not include construction of housing or other buildings
(8)	Minimize or Address Displacement How the grantee plans to minimize displacement of persons or entities and to assist any persons or entities displaced?	Yes beginning on page ?	
(9)	Program Income How the grantee will manage program income, and the purpose(s) for which it may be used?	Provided to HUD by July 1, 2013 in Responses to Exhibit 13-8 and Certifications Checklist	
(10)	Monitoring Standards and Procedures (a) Monitoring standards and procedures sufficient to (i) ensure program requirements (including nonduplication of benefits) are met, and (ii) provide for continual quality assurance and investigation?	Provided to HUD by July 1, 2013 in Responses to Exhibit 13-8 and Certifications Checklist	
	(b) The required internal audit function with an organizational diagram showing that responsible audit staff report independently to the chief officer or board of the organization designated to administer the CDBG-DR award?	Provided to HUD by July 1, 2013 in Responses to Exhibit 13-8 and Certifications Checklist	
(11)	Procedures to Detect & Prevent Fraud, Abuse, & Mismanagement The mechanisms and/or procedures that are in place or will be put into place to detect and prevent fraud, abuse, and mismanagement of funds (including potential conflicts of interest)?	Provided to HUD by July 1, 2013 in Responses to Exhibit 13-8 and Certifications Checklist	
(12)	Capacity The adequacy of the grantee's capacity, and the capacity of any UGLG or other organization expected to carry out disaster recovery programs (including how the grantee will provide for increasing the capacity of UGLGs or other organizations, as needed and where capacity deficiencies have been identified)?	Provided to HUD by July 1, 2013 in Responses to Exhibit 13-8 and Certifications Checklist	

Action Plan Checklist for Funds under Public Law 113-2

Criteria:		Yes <i>(provide page #)</i>	No <i>(provide justification)</i>
B. State Grantees Only (FR14334-FR14335)			
Does the Action Plan describe:			
(13) Description of MOD or Programs/ Activities	The method of distribution of funds to UGLG's and/or descriptions of specific programs or activities the state will carry out directly?		Not applicable (Local Government)
(14) Basis for Allocations	How the needs assessment informed allocation determinations identified in the Plan?		Not applicable (Local Government)
(15) Unmet Needs not yet Addressed	How unmet needs that have been identified but not yet addressed in the Plan will be addressed in a subsequent amendment to the plan?		Not applicable (Local Government)
(16) Program/Activity Details	For each program or activity carried out by the State:		Not applicable (Local Government)
	(a) The projected uses of the CDBG-DR funds, including the administering entity, budget and geographic area?		Not applicable (Local Government)
	(b) The threshold factors or applicant eligibility criteria, grant size limits and proposed start and end dates?		Not applicable (Local Government)
	(c) How the projected use will meet CDBG eligibility criteria and a national objective?		Not applicable (Local Government)
	(d) How the projected uses relate to a specific impact of the disaster and will result in long-term recovery?		Not applicable (Local Government)
	(e) Estimated performance outcomes expressed in terms of a quantifiable measure relative to the identified unmet need?		Not applicable (Local Government)
(17) Criteria to Determine Method of Distribution	When funds are allocated to UGLGs through a method of distribution, all criteria used to determine the distribution, including the relative importance of each criterion?		Not applicable (Local Government)
C. Local Government Grantees Only (FR14335)			
Does the Action Plan describe:			
(18) Description of Programs/ Activities	Specific programs and/or activities the UGLG will carry out directly or through subrecipients?	44-49	
(19) Basis for Allocations	How the needs assessment informed the allocation determinations?	43	
(20) Unmet Needs not yet Addressed	How unmet needs that have been identified , but not yet addressed, will likely be addressed in a subsequent amendment to the Plan?		Not Applicable (Plan is for full allocation amount)
(21) Program/Activity Details	For each program or activity that will be carried out by the UGLG or through a subrecipient:		
	(a) The projected uses of the CDBG-DR funds, including the administering entity, budget and geographic area?	44-49	
	(b) The threshold factors or applicant eligibility criteria, grant size limits and proposed start and end dates?	44-49 and 51-52	
	(c) How the projected use will meet CDBG eligibility criteria and a national objective?	44-49	
	(d) How the projected use relates to a specific impact of the disaster and will result in long-term recovery?	44-49	
	(e) Estimated performance outcomes expressed in terms of quantifiable measures relative identified unmet need?	44-49	
(f) Has the grantee identified any ineligible activities (e.g., assistance to businesses that do not meet the definition of a small business as defined at 13 CFR Part 121 or assistance for second homes)? Are all			Not applicable (no such activities are proposed)

Action Plan Checklist for Funds under Public Law 113-2

Criteria:		Yes <i>(provide page #)</i>	No <i>(provide justification)</i>
D. Location, Mitigation Measures, Use of Urgent Need (FR14335-FR14336)			
(22) Presidentially-declared County	Are, or will, all activities be located in a Presidentially-declared county that is eligible for assistance under this Notice?	4	
(23) Mitigation Measures	Are mitigation measures a necessary expense related to the disaster relief, long-term recovery, and restoration of infrastructure, housing, or economic revitalization?		Not applicable (mitigation measures are not proposed)
(24) Use of Urgent Need	If using the Urgent Need national objective, does the grantee reference the type, scale, and location of the disaster-related impacts that each program and/or activity is addressing? Are the impacts in the needs assessment? Note: the waiver in the Notice only applies until 2 years after the date HUD obligates funds to a grantee for the activity. Thus, if the grantee applies for an receives an extension from OMB for an activity, the urgent need requirements at 24 CFR 570.208(c) apply.		Not applicable (use of Urgent Need national objective is not proposed)
E. Clarity of Plan and Citizen Participation (FR14336-FR14339)			
(25) Clarity	Does the action plan include sufficient information so that citizens, UGLGs and other eligible subgrantees or subrecipients, or applicants will be able to understand and comment on the action plan, as well as prepare responsive applications (if applicable)?		Not applicable - assistance to subgrantees, subrecipients, or applicants is not proposed
(26) Budget	Does the Plan include a chart or table that illustrates, at the most practical level, how all funds are budgeted?	5	
(27) Time for Citizen Comment	Did the grantee provide at least seven days for citizen comment and ongoing citizen access to information about the use of grant funds?	56	
(28) Publication	Was the proposed Plan published before its adoption?	56	
(29) Publication	Did the manner of publication including prominent posting on the grantee's official website (with topic of disaster recovery navigable from the homepage of the grantee or relevant agency) and afford citizens, affected local governments and other interested parties a reasonable opportunity to examine the Plan and provide comments?	56	

Action Plan Checklist for Funds under Public Law 113-2

Criteria:		Yes <i>(provide page #)</i>	No <i>(provide justification)</i>
E. Clarity of Plan and Citizen Participation (cont.)			
(30) Accessibility	Was the Plan available in a form accessible to all, including persons with disabilities and non-English-speaking persons? (State which disabilities and which languages.)	58 (and document footer)	
(31) Receipt of Comments	Did the grantee provide a reasonable timeframe and method (including electronic submission) for receiving comments on the plan?	56	
(32) Consultation During Plan Preparation	(a) Did the grantee, if a State, consult with all disaster-affected UGLGs (including any CDBG-entitlement communities, and local public housing authorities in affected areas) in determining the use of funds (FR14339)?		Not applicable (Local Government)
	(b) For the City of New York, in addition to the requirements of 24 CFR 91.100, did the grantee consult with adjacent UGLGs, including local government agencies with metropolitan-wide planning responsibilities and local public housing authorities (affected by the disaster) (FR14339)?		Not applicable (not City of New York)
(33) Substantial Amendment	Does the Action Plan define what constitutes a substantial amendment to the Plan?	54-55	
(34) Summary of Public Comments	If comments were made, does the Plan include a summary of those comments and the grantee's response?		No comments were made
(35) Consistency of Budget	Do the various activities in the Plan add correctly? Are the combined activities equal to or less than the total CDBG-DR amount available? Are the amounts consistent throughout the plan?	5	
(36) Documentation for Certification	Has the grantee submitted a certification of controls, processes and procedures?	Provided to HUD by July 1, 2013 in Responses to Exhibit 13-8 and Certifications Checklist	
(37) CDBG-DR Certifications	Does the Plan include the required CDBG-DR certifications? Are the certifications signed by the Chief Executive Officer? (Please see the certifications tab.)	65-68	
(38) SF-424	Does the Plan include a completed and executed Federal form SF-424? Is the SF-424 signed by the correct grantee official?	60-64	
G. Conclusion			
(39) Complete and Compliant	Based on the reviewer's responses to the above questions, is the Action Plan complete and in compliance with the Federal Register notice and Public Law 113-2?	Yes (page number not applicable)	
(40) Other	The Department expects Grantees to identify pre-agreement costs in their Action Plans. Grantees must also define "demonstrable hardship" and "not suitable for rehabilitation" in the Action Plan or in policies and procedures.	22	
(41) Deadlines.	Does Action Plan demonstrate how funds will be fully expended within two years of obligation, and if this is a supplementary Partial Action Plan, was it submitted prior to June 1, 2017?	51	
(42) Most impacted and distressed	At least 80 percent of the funds provided under the notice must address unmet needs within the "most impacted and distressed" counties identified in Table 2 of the Notice. Does the Action Plan currently show that not more than 20 percent will be spent in locations other than those identified in Table 2?	Yes - funds to be spent entirely in Shelby County, TN (page number not applicable)	
(43) Secretary's Certification	Has the Secretary issued the required certification (in regards to the grantee's financial controls, procedures, etc.)?		Not applicable to Shelby County internal review
(44) Approved	Is the Plan approved?		Not applicable to Shelby County internal review
(45) Reason(s) for Resubmittal	If the Plan needs to be re-submitted, please indicate the reasons.		Not applicable to Shelby County internal review

This checklist is part of the administrative record of the Department's review of a disaster recovery Action Plan (or Partial Action Plan) submitted pursuant to the Disaster Relief Appropriations Act, 2013 (P.L. 113-2). In using the checklist, reviewers are reminded that each of the criterion as stated on the checklist is necessarily an abbreviated and generalized summary of the more detailed requirements outlined Federal Register Notice for each criterion. Reviewer answers to each question on the checklist must be informed by applying the requirements of each criterion as outlined in the Federal Register Notice to each element of the Action Plan. Use of the checklist does not substitute comparison of the Action Plan (or Partial Action Plan) submission against the requirements of the Notice and making a determination based on the Standard of Review set forth in 24 CFR 91.500, as augmented by the Notice.