

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 checked="" type="checkbox"/> New		<input type="text"/>	
<input checked="" type="checkbox"/> Application		<input type="checkbox"/> Continuation		* Other (Specify)	
<input type="checkbox"/> Changed/Corrected Application		<input type="checkbox"/> Revision		<input type="text"/>	
* 3. Date Received:		4. Applicant Identifier:			
<input type="text" value="08/14/2009"/>		<input type="text"/>			
5a. Federal Entity Identifier:			* 5b. Federal Award Identifier:		
<input type="text"/>			<input type="text"/>		
State Use Only:					
6. Date Received by State:		7. State Application Identifier:			
<input type="text"/>		<input type="text"/>			
8. APPLICANT INFORMATION:					
* a. Legal Name: <input type="text" value="Commonwealth of Kentucky"/>					
* b. Employer/Taxpayer Identification Number (EIN/TIN):			* c. Organizational DUNS:		
<input type="text" value="610600439"/>			<input type="text" value="007002959"/>		
d. Address:					
* Street1:	<input type="text" value="700 Capitol Avenue"/>				
Street2:	<input type="text"/>				
* City:	<input type="text" value="Frankfort"/>				
County:	<input type="text" value="Franklin"/>				
* State:	<input type="text" value="KY: Kentucky"/>				
Province:	<input type="text"/>				
* Country:	<input type="text" value="USA: UNITED STATES"/>				
* Zip / Postal Code:	<input type="text" value="40601-3410"/>				
e. Organizational Unit:					
Department Name:			Division Name:		
<input type="text" value="Finance & Administration Cab"/>			<input type="text" value="Commonwealth Office Technology"/>		
f. Name and contact information of person to be contacted on matters involving this application:					
Prefix:	<input type="text" value="Mr."/>	* First Name:	<input type="text" value="Phil"/>		
Middle Name:	<input type="text"/>				
* Last Name:	<input type="text" value="Baughn"/>				
Suffix:	<input type="text"/>				
Title:	<input type="text" value="Chief Information Officer"/>				
Organizational Affiliation:					
<input type="text"/>					
* Telephone Number:	<input type="text" value="502-564-6840"/>	Fax Number:	<input type="text"/>		
* Email:	<input type="text" value="phil.baughn@ky.gov"/>				

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9. Type of Applicant 1: Select Applicant Type:

A: State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Department of Commerce

11. Catalog of Federal Domestic Assistance Number:

CFDA Title:

*** 12. Funding Opportunity Number:**

0660-ZA29

* Title:

Recovery Act - State Broadband Data and Development Grant Program

13. Competition Identification Number:

Title:

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

*** 15. Descriptive Title of Applicant's Project:**

Kentucky Broadband Mapping Project

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

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16. Congressional Districts Of:

* a. Applicant * b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:

* a. Start Date: * b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="3,500,000.00"/>
* b. Applicant	<input type="text" value="700,000.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="4,200,000.00"/>

* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?

- a. This application was made available to the State under the Executive Order 12372 Process for review on
- b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- c. Program is not covered by E.O. 12372.

* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)

Yes 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)

 ** 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: * First Name: Middle Name: * Last Name: Suffix: * Title: * Telephone Number: Fax Number: * Email: * Signature of Authorized Representative: * Date Signed:

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*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

PROJECT ABSTRACT

The Commonwealth of Kentucky (Commonwealth), through the Commonwealth Office of Technology (COT), welcomes the opportunity to expand broadband telecommunications services, with support from the American Recovery and Reinvestment Act of 2009 and the Broadband Data and Development Program. Increasing the access to and adoption of broadband services will build economic capital, strengthen public safety resources, improve living standards, expand educational and healthcare opportunities, and raise the levels of civic engagement and governmental transparency for Kentucky citizens and businesses.

In 2004, the Commonwealth began a mission to accelerate the growth of technology. The intent was to enhance support of community and economic development, improve healthcare, enhance education, and provide more effective government. At the time, Kentucky was one of the first states to have such a far reaching initiative.

It is critical that the level of broadband access throughout the Commonwealth is confirmed through adequate mapping and independent verification, so that the Commonwealth may intelligently and efficiently begin to identify the barriers that prevent so many Kentucky citizens from adopting broadband and reaping its benefits..

The Commonwealth proposes in this grant request to create a transparent, sustainable process by which to ensure that the information from carriers and other service providers regarding the type, quality and location of services is comprehensive and verifiable. The Commonwealth is issuing a Request for Proposals and will enter into competitive negotiations for a third-party vendor to collect the necessary provider information and produce a comprehensive, understandable map which details clearly the underserved/unserved areas of the state. The Commonwealth will contract with additional, separate and apart from the data collection vendor, third-party entity(s) to perform a verification audit of any and all data to determine the data validity. The collection vendor must share and collaborate with the audit entity all information required to determine data validity. The collection vendor and all affiliates awarded a contract for data collection will not be eligible to compete in the Broadband Mapping Audit RFP. The collection vendor will correct any and all errors identified by the third-party audit entity(s) at no additional cost to the Commonwealth.

Additionally, the Commonwealth is proposing various planning and research activities at the state and local levels. Among the research activities the Commonwealth will conduct is to identify unserved/underserved areas of the state and the community anchor institution. Other activities will include identifying barriers to the adoption of broadband and other information technology services, identifying available speeds for broadband connection in various regions, identifying and tracing areas with low levels of use, and facilitating information exchange.

EXECUTIVE SUMMARY

The Commonwealth of Kentucky (Commonwealth), through the Commonwealth Office of Technology (COT), welcomes the opportunity to expand broadband telecommunications services, with support from the American Recovery and Reinvestment Act of 2009 and the Broadband Data and Development Program. Increasing the access to and adoption of broadband services will build economic capital, strengthen public safety resources, improve living standards, expand educational and healthcare opportunities, and raise the levels of civic engagement and governmental transparency for Kentucky citizens and businesses.

In 2004, the Commonwealth began a mission to accelerate the growth of technology. The intent was to enhance support of community and economic development, improve healthcare, enhance education, and provide more effective government. In order to meet this mission, the Commonwealth entered into an agreement with an outside provider to create and maintain a statewide broadband map. At the time, Kentucky was one of the first states to have such a far reaching initiative. While that particular mapping initiative fulfilled the requirements at the time, the resulting maps need to be updated due to the ever-changing technology, growth of households, and expansion of broadband providers. Given the competitiveness of today's economic environment, the Commonwealth acknowledges the need for the most comprehensive data elements available.

It is critical that the level of broadband access throughout the Commonwealth is confirmed through adequate mapping and independent verification, so that the Commonwealth may intelligently and efficiently begin to identify the barriers that prevent so many Kentucky citizens from adopting broadband and reaping its benefits..

The Commonwealth proposes the following activities for the Broadband Data and Development Program:

1. Creation of a broadband map for Kentucky in accordance with the NTIA program standards and a state map with aggregate information compatible with the existing Commonwealth map
2. Audit and verification of the broadband mapping information by an independent third party
3. Identification of barriers to the adoption of broadband service and information technology services
4. Creation and facilitation of local planning teams including state and local leaders to develop regional ideas for broadband deployment and adoption by citizens and businesses
5. Prioritization and funding of project ideas to encourage use of broadband capabilities statewide

The Commonwealth proposes for the broadband mapping project to collect comprehensive and verifiable broadband data that meets the program standards. The data will be accessible and clearly presented to NTIA, the public, and state and local governments without unduly compromising data or the protection of confidential information. A workable and sustainable framework for repeated updating of data will be implemented. A plan for collaboration with state-level agencies, local authorities, and other constituencies, as well as a proposal for planning projects designed to identify and address broadband challenges in the state will be put into place. A reasonable and cost-efficient budget will be presented as will a representation of the capacity,

knowledge and experience of the Commonwealth and contractors. The Commonwealth will propose a timeline for expedient delivery of data with initial delivery of a substantially complete set of availability data by November 1, 2009.

The Commonwealth proposes in this grant request to create a transparent, sustainable process by which to ensure that the information from carriers and other service providers regarding the type, quality and location of services is comprehensive and verifiable. The Commonwealth is issuing a Request for Proposals and will enter into competitive negotiations for a third-party vendor (collection vendor) to collect the necessary provider information and produce a comprehensive, understandable map which details clearly the underserved/unserved areas of the state. The unserved and underserved areas of the Commonwealth (as defined by the Notice of Funds Availability) coincide with the rural areas of the state, generally but not limited to, the southern, eastern and western regions. The Commonwealth anticipates prioritizing the allocation of grant funds based on need and existence of community anchor institutions. The collection vendor will be asked to collaborate with the Commonwealth to evaluate ongoing needs and develop a comprehensive broadband plan to increase the sustained adoption of broadband services to Kentucky citizens. The Commonwealth will contract with additional, separate and apart from the collection vendor, third-party entity(s) (audit entity) to perform a verification audit of any and all data to determine the data validity and accuracy. The collection vendor must share and collaborate with the audit entity all information required to determine data validity at any location. The collection vendor and all affiliates awarded a contract for data collection will not be eligible to compete in the Broadband Mapping Audit RFP. The collection vendor will correct any and all errors identified by the third-party audit entity(s) at no additional cost to the Commonwealth.

Additionally, the Commonwealth is proposing various planning and research activities at the state and local levels. Among the research activities the Commonwealth will conduct is to identify unserved/underserved areas of the state and the community anchor institution. Other activities will include identifying barriers to the adoption of broadband and other information technology services, identifying available speeds for broadband connection in various regions, identifying and tracing areas with low levels of use, and facilitating information exchange.

PROPOSAL

1. Data

(a) Data Gathering

The Commonwealth is issuing a Request for Proposals and will enter into competitive negotiations for a third-party vendor to collect the required data and produce a comprehensive, understandable, interactive and searchable map of existing broadband service capability and availability. The collection vendor will also be required to develop geographical information system maps displaying levels of broadband service by connection speed and type of technology used. The maps must, at a minimum, conform to all requirements found in the Notice of Funding Availability and be consistent with the Federal Communications Commission's requirements for integration into the national broadband map. The mapping data will be developed to ensure integration with demographic information for statewide and national broadband services reporting. In addition the maps will clearly identify gaps in broadband service through a method of geographic information system mapping of service availability based on the geographic boundaries of where service is available or unavailable among residential or business customers. The map will also provide a baseline assessment of statewide

broadband deployment in terms of households with high speed availability and identify various layers of user businesses and organizations such as those involved in telecommunications, K-12 education, health care, public safety, libraries, higher education, community-based services, local government, tourism, parks and recreation, and agriculture.

The collection vendor will identify the speeds of broadband connections made available to individuals, businesses, rural areas, agricultural areas, and suppliers of critical infrastructure in Kentucky including educational institutions, health care providers, education providers, law enforcement, and local governmental institutions. At a minimum, the collection vendor may rely on the data rate benchmarks for broadband service utilized by the Federal Communications Commission (Commission) to reflect different speed tiers and to promote consistency of data with data gathered from other states.

The collection vendor will provide the NTIA with the broadband data collected from the various broadband providers and shall meet deadlines as stated in the NTIA Technical Appendix. The broadband data provided to NTIA will be in type and format required and will be submitted within the time constraints required by the NTIA deadlines.

The following information will be displayed on the broadband map(s):

- Geographic areas in which broadband service is available;
- Technologies used to provide broadband service in geographic areas;
- Spectrum used for the provision of wireless broadband service in geographic areas;
- Speeds at which broadband service is available in such areas; and,
- Broadband service availability at public schools, libraries, hospitals, colleges, and universities and all public buildings owned or leased by agencies or instrumentalities of the states or municipalities or other subdivisions of the states and their agencies or instrumentalities

The map will be searchable by address and to the extent possible, the type and speed of service will be provided for each address. If the broadband service provider agrees, their identity will be available; otherwise, the data displayed will indicate that a provider provides service to that location using a specific type of technology. Data concerning the average revenue per user and data regarding type, technical specification or location of infrastructure owned, leased or used by a broadband service provider will be collected but not displayed.

The specific information regarding data collection methodology will not be determined until a contract is signed with the collection vendor.

(b) Accuracy and Verification

The Commonwealth will contract with a third-party entity(s) to perform a verification audit of any and all data at any location. The verification audit will include analysis of the collection vendor's methodology, consistency with ESRI standards and the accuracy of the field testing information gathered by the collection vendor. The collection vendor must share and collaborate with the audit entity all information required to determine data validity and accuracy. The collection vendor and all affiliates awarded a contract for data collection will not be eligible to compete in the Broadband Mapping Audit RFP. The collection vendor will correct any and all errors identified by the audit entity at no additional cost to the Commonwealth.

The specific methodology to verify data accuracy will not be determined until a contract is signed with the audit entity.

(c) Accessibility

The Commonwealth will develop a statewide broadband map that will include the general broadband data collected from various broadband providers. The data will reflect all information provided to the NTIA in detail and content, with exception to data that is legally restricted. Supplemental data provided to the Commonwealth in a format that meets the following requirements:

- All map areas must be closed, non-overlapping polygons with a single, unique identifier. All polygons must have valid topology.
- Data must be in State Plane Single Zone Projection (FIPS1600)
- Data must be FGDC compliant metadata <http://www.fgdc.gov/metadata> in XML format.
- An ESRI File based geodatabase for the entire state or territory should be submitted as a single, zipped file containing all of the component files. The file should be named “area_availability_KY.zip”

The broadband map will be a comprehensive, understandable, interactive and searchable map of existing broadband service capability and availability. The map will be accessible to the public via a state website maintained by COT’s Division of Geographic Information (DGI). DGI currently maintains the Kentucky Geography Network (<http://kygeonet.ky.gov/>), which generates 5.5 to 7.5 million web hits monthly from approximately 36,000 unique visitors accessing interactive maps, retrieving data or doing data research.

(d) Security and Confidentiality

The Commonwealth agrees to treat any matter that is a trade secret, commercial or financial information, or privileged or confidential, as a record not subject to public disclosure except as otherwise mutually agreed to by the broadband service provider and the Commonwealth.

The collection vendor will be in compliance with privacy policies established by governmental agencies or by state or federal law. It is anticipated that the collection vendor will enter into non-disclosure agreements with the broadband service providers. The collection vendor and the audit entity will also enter into a non-disclosure agreement. The collection vendor will provide all detail to all federal governmental entities as required by the NTIA. The collection vendor will provide the general information in aggregate form to the Commonwealth.

Consistent with the Recovery Act’s emphasis on transparency and accountability, information regarding the Commonwealth’s efforts for the Broadband Data and Development Program will be posted on the Commonwealth’s recovery website: <http://kentuckyatwork.ky.gov/Pages/Broadband.aspx>. This information will include, but will not be limited to publicly searchable maps showing broadband availability, information regarding contracts for work to be done under this application and progress towards achieving the timelines outlined in the NOFA. The Commonwealth will be compliant with the section 1512 reporting requirements as well as any other ARRA required reporting and transparency information.

2. Project Feasibility

(a) Applicant Capabilities

The collection vendor will provide a budget in their cost proposal in response to the RFP. The budget must be reasonable and cost efficient. Their proposed budget will include, at a minimum:

- All relevant taxes and administrative fees
- Labor, travel and travel time
- Consultation services
- Supplies needed for the provisioning of the services and
- Total cost estimate for the project.

The collection vendor will also provide an annual cost for the years after the initial data collection for updating the data. This cost shall include all costs related to the semi annual maintenance and updates required by the NTIA and to be sent to the NTIA and the Commonwealth. The collection vendor will create and maintain a project budget, throughout the life of the contract.

The audit entity will also provide a budget in their response to the auditing RFP. The cost will include analysis of the collection vendor's methodology, consistency with ESRI standards and the accuracy of the field testing information gathered by the collection vendor. The costs must be reasonable and cost efficient. The proposed budgets will include the same categories as the cost proposals for the data collection RFP.

Specific costs will not be determined until vendor proposals are received. It is anticipated that the auditing costs will be approximately ten percent of the mapping costs.

The Commonwealth will use the funds for eligible costs as governed by the cost principles in OMB Circular A-87 and the Program's authorizing legislation. The Commonwealth acknowledges and agrees that the funds will not be expended for any casino or other gambling establishment, aquarium, zoo, golf course, or swimming pool.

The Commonwealth will meet the required 20 percent non-federal matching contribution with a combination of fair market value of data previously collected and related to the BDIA-eligible uses under this Program and non-cash expenditures of property, goods and services that will benefit the project. The amount of \$400,000 was expended by the Commonwealth prior to FY 2007 for data collected for a broadband mapping project. The data needs to be updated but should be a starting point for the collection vendor to use when planning the data collection for this project. The Commonwealth proposes to contribute approximately \$100,000 in the first year of the grant period for various support expenditures including but not limited to project monitoring (salary and overhead), contract management (salary and overhead), reconciliation activities, necessary creation and maintenance of mapping services and map products from DGI, website and storage costs, communications and printing costs. In the remaining years of the contract it is estimated that the costs will drop to approximately \$50,000 per year for the oversight and support of updating the maps and other support activities.

(b) Applicant Capacity, Knowledge and Experience

The Commonwealth Office of Technology (COT) oversees the shared IT infrastructure resources and services of the Executive Branch and establishes partnerships and alliances for effective implementation of IT projects. COT is responsible for developing and implementing statewide IT applications, and for establishing IT policy and standards, as well as strategic and tactical IT planning.

COT adheres to the Commonwealth IT Enterprise Architecture and Standards which reflect a set of principles for information, technology, applications, and organization. These standards provide guidelines, policies, directional statements and sets of standards for information technology. It defines, for the Commonwealth, functional and information needs so that technology choices can be made based on business objectives and service delivery.

Web link: http://technology.ky.gov/policies/architecture_and_stds.htm

The entire management team at COT is ITIL certified (Information Technology Infrastructure Library.) ITIL is a framework of best practice approaches intended to facilitate the delivery of high quality information technology services. COT is in the process of implementing ITIL practices in day-to-day operations.

The Chief Information Officer for Kentucky and the Commonwealth Office of Technology Commissioner is Philip Baughn. He has led large-scale corporate turnarounds, been the CIO of two international technology companies, and overseen the introduction of two formal Project Management Offices. His background includes all aspects of technical leadership and oversight as well as a keen understanding of executive business and change management.

As it relates to the broadband stimulus program itself, COT has particular skills in management of the following complex and large-scale technology projects:

- **KIH2**

The Kentucky Information Highway is a statewide telecommunications and information network developed by Kentucky state government in partnership with the state's local telephone companies. In 1995, the Commonwealth of Kentucky entered into a ten-year contract with a consortium of communication companies to develop the Kentucky Information Highway (KIH). BellSouth served as the prime contractor, coordinating a consortium of Kentucky's nineteen other local telephone companies (local exchange carriers) and Qwest Communications, a long-distance carrier, as a co-prime contractor. In 2005, the Commonwealth of Kentucky bid and let an RFP for KIH-2 in order to upgrade its telecommunications network and reduce costs. AT&T was awarded this contract, and has sub-contracted with all of the other local telephone companies to provide a state wide MPLS (WAN) network. The MPLS backbone that supports KIH-2 provides increased resiliency/fault tolerance within the providers' network, as well as increased security by virtually segmenting the WAN based on agency needs.

Today, over 1,200 sites are inter-connected across the state including Executive Branch Agencies, libraries, local government and health departments. KIH-2 is managed by the Commonwealth Office of Technology Network Operations Branch, which is responsible for the design, implementation, and support of the KIH infrastructure. The core of the KIH-2 network is located at the Commonwealth Data Center, and is comprised of multiple enterprise and carrier class switches that are connected by gigabit Ethernet. This network is extended to the Frankfort Metropolitan Area Network (MAN) over a fiber optic network. Furthermore, KIH-2 connects all 120 counties through a Wide Area Network (WAN) utilizing high-speed data circuits via an MPLS network. KIH-2 connectivity from COT offers many additional services to the entire Commonwealth including:

- The Internet
- Email and Global Address Listing

- Agency/Department LAN based systems and servers
- The Mainframe
- eMARS for Accounting and Procurement
- Other servers on the network

These services are provisioned, configured, installed, and supported solely through COT, as a turnkey solution. KIH-2 is more than just a means of connecting sites. In fact, KIH-2 is actually a series of value-added services (configuration, support/troubleshooting, monitoring, and security) that allow agencies to concentrate on the deployment of key business solutions that relate directly to their business model.

- **GIS**

The Division of Geographic Information (DGI), a division of the Commonwealth Office of Technology, is responsible for encouraging, coordinating, and implementing GIS programs throughout the Commonwealth of Kentucky. DGI works with state, regional, and local governmental entities, and serves as liaison to federal agencies. Activities include strategic planning, implementation services, technical and administrative support, dissemination of geospatial data, grant administration, research, and policy development. Many agencies throughout the Commonwealth use DGI's resources on a daily basis and stakeholders have grown to expect that they will find the most current information available. Many stakeholders leverage the extensive GIS Base Data resources as a basic part of doing GIS or providing internet mapping applications to state workers or citizens.

For years, Kentucky has been accurately acknowledged as one of the best mapped states in the United States. In the past two decades, major efforts have been made to compile this "mapping," using state-of-the-art Geographic Information System (GIS) technologies. These efforts have ranked Kentucky State Government near the top in the United States in terms of successful enterprise GIS Implementations. As a result, agencies leveraging these resources have improved their effectiveness and efficiency while being able to view the immediate and long-term effects of their actions or proposed actions. Their application of GIS provides decision support on issues regarding land and property use analysis, policy and regulation implementation, boundary designations, protection of natural resources, infrastructure planning and maintenance, and provisions for public safety and event response.

ESRI magazine recognized DGI for their leadership in GIS in 2005.

<http://www.esri.com/news/arcnews/summer05/articles/commonwealth-of-kentucky.html>

- **KEWS**

COT manages and maintains the statewide public safety communications network named the Kentucky Emergency Warning System (KEWS). KEWS is a robust all-weather communications network that is a highly survivable emergency communications network initiated in 1979. KEWS provides service to Commonwealth agencies such as the Kentucky State Police, Department of Military Affairs, Kentucky Educational Television, Department of Fish and

Wildlife Resources, Kentucky Transportation Cabinet, Department of Natural Resources, Kentucky Emergency Management, and the University of Kentucky, as well as Federal and Local agencies such as the Federal Bureau of Investigations, National Weather Service, and numerous Local/County Emergency Medical Services. COT is managing a multi-year project to upgrade the KEWS network to complete digital service.

- **Wireless Networking**

COT has successfully completed the installation of wireless Internet systems throughout the state. The installations include 17 of Kentucky's State Resort Parks and the Kentucky Horse Park's new outdoor and indoor arenas along with much of the park grounds. Additionally, COT is growing our wireless footprint and expertise at an exponential rate to stay ahead of the demands of our customer agencies.

The COT executive and technical staff has a wealth of knowledge and experience in large-scale information technology initiatives that include infrastructure, application development and project management.

The collection vendor and audit entity will be evaluated on project staffing including knowledge and experience with similar projects. The specific information will not be determined until a contract is signed with the vendors.

3. Expedient Data Delivery

Although the specific timeline for data delivery will not be determined until the contracts are awarded for this project, the Commonwealth has the knowledge and experience as described below to manage the project to ensure that the required timelines are met.

The Commonwealth's use of GIS

- Kentucky currently maintains a nationally recognized, publicly-available Enterprise GIS accessible as interactive maps, downloadable data and baseline information.
- Kentucky enters 2009 with over 29 years experience in GIS, beginning with Governor Julian Carroll's "Lands Unsuitable for Mining Project".
- The Kentucky Geography Network (<http://kygeonet.ky.gov/>) monthly generates from 5.5 to 7.5 million web hits from upwards of 36,000 unique visitors accessing interactive maps, retrieving data or doing data research.
- Consultants, investors, economic development specialists, environmental protection entities, local governments, and a host of other people utilize Kentucky's services as they look to invest, locate, or visit the Commonwealth.
- Kentucky's statewide Water & Wastewater Infrastructure, Mining, Transportation, Recreation, and Geology GIS data stores are unmatched in the nation.
- The Kentucky Event Mapping and Analysis Portal (KEMAP) provides a secure mapping portal for use by agencies who have access to potentially sensitive information e.g. Homeland Security (EOC), National Guard (JOC), Environmental Response Team, etc.

For many years, Kentucky has been acknowledged as one of the best mapped states in the nation. In the past two decades, major efforts have been made to compile this “mapping,” using state-of-the-art Geographic Information System (GIS) technologies. These efforts have ranked Kentucky State Government near the top in the nation in terms of successful enterprise GIS Implementations. As a result, agencies leveraging these resources have improved their effectiveness and efficiency while being able to view the immediate and long-term effects of their actions or proposed actions. Their application of GIS provides decision support on issues regarding land and property use analysis, policy and regulation implementation, boundary designations, protection of natural resources, infrastructure planning and maintenance, and provisions for public safety and event response.

Responsibilities of DGI

The Division of Geographic Information (DGI) is now structured within the Commonwealth Office of Technology and is responsible for encouraging, coordinating, and implementing GIS programs throughout the Commonwealth of Kentucky. DGI works with state, regional, and local governmental entities, and serves as liaison to federal agencies. Activities include strategic planning, implementation services, technical and administrative support, dissemination of geospatial data, grant administration, research, and policy development.

It is important to note that a multitude of agencies use DGI’s resources on a daily basis. External leveraging is due to the large number of stakeholders that participated in their initial development and implementation. Stakeholders have grown to expect to find the most current information available and are dependent on this information to drive their in-house decision-making and business processes. Additionally, many stakeholders leverage the extensive GIS Base Data resources as a basic part of doing GIS or providing internet mapping applications to state workers or citizens. It is this “utility” and open sharing of data and information that will continue to drive GIS in Kentucky.

Geospatial Computing and Resource Asset

Below is an outline of the “Geospatial Assets” managed by DGI. Each asset is critical in that they interact with each other, but also they interact/communicate with components in other agencies at the regional, state, and even federal level. It is important that these assets maintain a high level of availability so as not to disrupt the flow of spatial information within state government and to entities in all sectors.

DBMS (Database) & Spatial Database Engine (SDE)

DGI stores all critical raster and vector data in a robust RDBMS (MS SQL Server) using ESRI’s Spatial Database Engine, or SDE. This allows for backend connections to other RDBMS in terms of attribute data and is a state-of-the-art method for storing extremely large raster (imagery) datasets.

KyRaster

KyRaster is one of the most valuable GIS components in Kentucky. It has been mirrored to COT (Cold Harbor), EPPC Information Services, McVey Hall (UK Computing Center), and Kentucky State University. It can be replicated by other state agencies as their in-house needs for this dataset are increased. This 2TB geodatabase contains all the aerial images, topographic maps, digital elevation models, hillshade, SPOT satellite imagery, TruColor Imagery, LandCover Imagery, Slope, and other critical raster GIS base layers. Nearly every State Agency (that does

GIS) leverages this resource in one way or another. It drives all but two of the Internet Mapping Applications served by State Government, is an invaluable in-house tool for the DGI, and is leveraged on the GIS Desktop by users in State Agencies. KyRaster is THE base GIS data for Kentucky.

Two instances of this resource exist. One instance is dedicated to Internet Mapping Application while the other serves image data across the WAN to GIS Desktops. Other instances will be replicated at various physical locations as the demand for this resource grows.

KyVector

Like KyRaster, KyVector is the master repository of vector-based (lines, polygons, and points) GIS data in the Commonwealth. It is based on all vector data that is available on the Kentucky Geography Network. This SDE instance is leveraged by ArcGIS users within the WAN and many internet mapping applications. The KyVector database mirrors the categories on the “browse” tab of the KYGEONET. A “KYGEONET” link has been added to each vector dataset so users have easy access to the metadata for the data they are working with. KyVector now houses 250+ thematic layers.

Web Mapping Services

The early and original method of sharing the results of GIS data analysis was by plotting hard-copy maps. Although still an effective manner of communication, hard-copy map production is NOT cost-effective and should be used only in certain situations. Alternatively, the use of internet mapping is new, however its utilization in State Government is key to the efficient dissemination of spatial (mapped) information in a “Streamlined” Government. Kentucky is leading the nation in the application of internet mapping and DGI’s GIS resources are now the basis of this success. The use of this technology puts DGI at the front of Kentucky’s GIS Community and allows for cost effective provision/communication using location based information. DGI currently hosts sites for state and local government entities at little or no cost.

Kentucky Geography Network

A prime example of a truly successful and collaborative effort is that of the Kentucky Geography Network (<http://kygeonet.ky.gov/>). This web service is the geospatial data clearinghouse for the Commonwealth. The site and its associated services normally has over 7,500,000 hits per month and has been held by the World GIS Community as the “model” for implementing GIS data sharing for a given area . . . in this case Kentucky. Several agencies pooled their expertise and resources to launch this site . . . with a \$0.00 budget! The service is very small in terms of physical size. The whole thing would probably fit on a CD. What it does is “point” or “direct” users to the GIS data resources that are available for Kentucky. Once a “publisher” to the service has been setup, there is very little administration that is performed by DGI Staff. Publishers manage their publications remotely and are diligent in keeping their information current and available. A unique pool of expertise is required to maintain this on behalf of all users and publishers and that expertise now resides at DGI.

Another important thing to note regarding the Kygeonet is its full integration with the Federal Geospatial One-Stop at Geodata.gov. The Kygeonet and the Geospatial One Stop (GOS) are truly synchronized web services. Items published to the Kygeonet are “harvested” by the GOS on a consistent basis thus ensuring that the data is current at both the state and federal levels. Both the GOS and Kygeonet are built on ESRI’s ArcIMS Metadata services and both have been highly successful implementations.

In addition to the listed projects, the personnel in the DGI have over 75 years of GIS specific professional experience; the contract and project managers have the ability to ensure that the data is received within the proposed timelines and technically sound.

The collection vendor and the Commonwealth will meet the following deadlines as stated in the NTIA Technical Appendix.

- Substantially complete set of availability data by November 1, 2009, accurate as of June 30, 2009
- Substantially complete set of broadband mapping data on or before February 1, 2010
- Complete data collection by March 1, 2010

The Commonwealth understands that a data set is considered substantially complete when it contains data on broadband services provided by a) 70 percent of broadband service providers in a state; b) to 80 percent of households in a state; c) to 90 percent of households in rural areas of the state and d) to 95 percent of public Community Anchor Institutions.

A more detailed timeline will not be available until vendors are determined for the project.

4. Process for Repeated Data Updating

The collection vendor will maintain the broadband mapping with semi-annual updates due each March 1st and September 1st throughout the life of the contract starting with September 1st after the initial data collection. Data will be accurate according to the following schedule.

- Updates for March 1st shall be accurate as of December 31st of the previous calendar year.
- Updates for September 1st shall be accurate as of June 30th of the same calendar year.

A more detailed process for data updating will not be available until vendors are determined for the project.

5. Planning and Collaboration

The Commonwealth is requesting \$500,000 in planning funds for various planning and research activities at the state and local levels. Among the research activities the Commonwealth will conduct is to identify unserved/underserved areas of the state and the community anchor institutions. Other activities will include identifying barriers to the adoption of broadband and other information technology services, identifying available speeds for broadband connection in various regions, identifying and tracking areas with low levels of use and facilitating information exchange. The funds will be used for personnel costs, including fringe benefits, travel and supply costs.

The Commonwealth intends to collaborate with state-level agencies, local authorities, businesses and non-profit organizations when possible throughout the process from the planning stage through the semi-annual updating of the maps. The Finance & Administration Cabinet will continue a collaborative effort involving state agencies, libraries, area development districts, county and municipal officials, and other representatives of public and private associations. The public and private stakeholder associations are actively solicited for input to the development and execution of broadband policy in the Commonwealth. Additional workgroups may be formed on a regional and/or local basis to address planning efforts as the broadband efforts become more granular.

Consistent with dates set in the Notice of Funds Availability, the collection vendor will provide broadband data to NTIA and supplemental data to DGI. With Kentucky's robust, multi-layered Commonwealth Map, the broadband planning groups in consultation with vendor partners, will analyze the data and identify ways to increase the deployment and adoption of broadband services where gaps exist. These efforts might include, but are not limited to:

1. Recommending appropriate infrastructure development
 - For-profit technology expansion
 - Public access site expansion
 - Community WiFi efforts
2. Facilitating acquisition of low-cost computers
 - Offering to local entities or individuals used computers at residual value cost (<\$50) as leases expire at state agencies
 - Pursuing discounts through the Commonwealth's computer procurement contracts
3. Expanding community anchors and initiatives that enhance usage of broadband services
 - Libraries, schools, local government, and civic organizations, as well as commercial enterprises, attract citizens and business to increased broadband usage
 - Chambers of Commerce and groups of entrepreneurs collaborate to provide "big company" services, such as websites with online ordering, on behalf of small businesses

The creation and verification of broadband maps will give planning teams the tools to develop regionally-based ideas for broadband deployment and adoption by citizens and businesses. In turn, stimulation of broadband use will generate benefits to individuals, businesses, and government in all areas of the Commonwealth.

BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 4040-0006
Expiration Date 07/30/2010

SECTION A - BUDGET SUMMARY

(a) Grant Program Function or Activity	(b) Catalog of Federal Domestic Assistance Number	Estimated Unobligated Funds		New or Revised Budget		
		(c) Federal	(d) Non-Federal	(e) Federal	(f) Non-Federal	(g) Total
1. Recovery Act-State Broadband Data and Development Grant Program	11.558	\$ 0.00	\$ 0.00	\$ 3,500,000.00	\$ 700,000.00	\$ 4,200,000.00
2.						
3.						
4.						
5. Totals		\$	\$	\$ 3,500,000.00	\$ 700,000.00	\$ 4,200,000.00

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SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	Recovery Act-State Broadband Data and Development Grant Program				
a. Personnel	\$ 530,000.00	\$	\$	\$	\$ 530,000.00
b. Fringe Benefits	106,000.00				106,000.00
c. Travel	100,000.00				100,000.00
d. Equipment					
e. Supplies	64,000.00				64,000.00
f. Contractual	3,000,000.00				3,000,000.00
g. Construction					
h. Other	400,000.00				400,000.00
i. Total Direct Charges (sum of 6a-6h)	4,200,000.00				\$ 4,200,000.00
j. Indirect Charges					\$
k. TOTALS (sum of 6i and 6j)	\$ 4,200,000.00	\$	\$	\$	\$ 4,200,000.00
7. Program Income	\$ 0.00	\$	\$	\$	\$

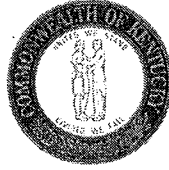
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SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. Recovery Act-State Broadband Data and Development Grant Program	\$ 700,000.00	\$	\$	\$ 700,000.00	
9.					
10.					
11.					
12. TOTAL (sum of lines 8-11)	\$ 700,000.00	\$	\$	\$ 700,000.00	
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 2,036,000.00	\$ 598,600.00	\$ 1,251,400.00	\$ 25,000.00	\$ 161,000.00
14. Non-Federal	\$ 100,000.00	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00
15. TOTAL (sum of lines 13 and 14)	\$ 2,136,000.00	\$ 623,600.00	\$ 1,276,400.00	\$ 50,000.00	\$ 186,000.00
SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16. Recovery Act-State Broadband Data and Development Grant Program	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	\$ 264,000.00	
17.					
18.					
19.					
20. TOTAL (sum of lines 16 - 19)	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	\$ 264,000.00	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges: 6h-value of the data previously collected		22. Indirect Charges:			
23. Remarks: Value of 6h is \$400,000.					

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COMMONWEALTH OF KENTUCKY
OFFICE OF THE GOVERNOR

STEVEN L. BESHEAR
GOVERNOR

700 CAPITOL AVENUE
SUITE 100
FRANKFORT, KY 40601
(502) 564-2611
FAX: (502) 564-2517

August 12, 2009

Broadband Mapping Grants Administrator
The State Broadband Data and Development Program
National Telecommunications and
Information Administration
1401 Constitution Avenue, NW
Washington, DC 20230

RE: Letter of State Designation
Commonwealth of Kentucky's Application for
Broadband Mapping Grant

Dear Grants Administrator:

This is an official Letter of State Designation, affirming that the applicant, the Kentucky Finance and Administration Cabinet's Commonwealth Office of Technology (COT), is the single eligible entity in the state designated to receive a grant for Broadband Mapping under the State Broadband Data and Development Program

Please contact Philip Baughn, the state's Chief Information Officer and Commissioner of COT, at (502) 564-1201, or Phil.Baughn@ky.gov if you have any questions or concerns in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven L. Beshear".

Steven L. Beshear

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, 'New Restrictions on Lobbying.' The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying,' in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

Statement for Loan Guarantees and Loan Insurance

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

In any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying,' in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

* NAME OF APPLICANT

Commonwealth of Kentucky

* AWARD NUMBER

* PROJECT NAME

Kentucky Broadband Mapping Project

Prefix:

* First Name:

Middle Name:

Phil

* Last Name:

Suffix:

Baughn

* Title: Chief Information Officer

* SIGNATURE:

* DATE:

Phil Baughn

08/14/2009

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C.1352

Approved by OMB
0348-0046

1. * Type of Federal Action: <input type="checkbox"/> a. contract <input checked="" type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	2. * Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input checked="" type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	3. * Report Type: <input checked="" type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change
4. Name and Address of Reporting Entity: <input checked="" type="checkbox"/> Prime <input type="checkbox"/> SubAwardee * Name: Commonwealth Office of Technology * Street 1: 101 Cold Harbor Drive Street 2: _____ * City: Frankfort State: KY: Kentucky Zip: 40601 Congressional District, if known: _____		
5. If Reporting Entity in No.4 is Subawardee, Enter Name and Address of Prime: 		
6. * Federal Department/Agency: Department of Commerce/NTIA	7. * Federal Program Name/Description: CFDA Number, if applicable: _____	
8. Federal Action Number, if known: 	9. Award Amount, if known: \$ _____	
10. a. Name and Address of Lobbying Registrant: Prefix _____ * First Name Not Applicable Middle Name _____ * Last Name Not Applicable Suffix _____ * Street 1 _____ Street 2 _____ * City _____ State _____ Zip _____		
b. Individual Performing Services (including address if different from No. 10a) Prefix _____ * First Name Not Applicable Middle Name _____ * Last Name Not Applicable Suffix _____ * Street 1 _____ Street 2 _____ * City _____ State _____ Zip _____		
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when the transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. * Signature: Phil Baughn * Name: Prefix _____ * First Name Phil Middle Name _____ * Last Name Baughn Suffix _____ Title: Chief Information Officer Telephone No.: 502-564-6840 Date: 08/14/2009		
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ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

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

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

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

<p>* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL</p> <p>Phil Baughn</p>	<p>* TITLE</p> <p>Chief Information Officer</p>
<p>* APPLICANT ORGANIZATION</p> <p>Commonwealth of Kentucky</p>	<p>* DATE SUBMITTED</p> <p>08/14/2009</p>

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