

Policy Act and in furtherance of its oversight and stewardship responsibilities under the Federal-aid Highway Program, has requested that its Division Offices review, with the State DOTs, the status of all EISs and place those projects that are not actively progressing in a timely manner in an inactive project status. The FHWA maintains lists of active and inactive projects on its Web site at <http://www.environment.fhwa.dot.gov/>. The FHWA has determined that inactive projects that are no longer a priority or that lack resources should be rescinded with a **Federal Register** notice notifying the public that project activity has been terminated. As always, FHWA encourages State DOTs to work with their FHWA Division Office to determine when it is most prudent to initiate an EIS in order to best balance

available resources as well as the expectations of the public.

The FHWA is issuing this notice to advise the public that 11 States (Alabama, California, Florida, North Carolina, Oregon, Pennsylvania, Tennessee, Texas, Utah, Virginia, and Washington) have recently rescinded previously issued NOIs for 19 EISs for proposed highway projects. A listing of these projects, general location, original NOI date of publication in the **Federal Register**, and the date that the NOI was formally rescinded by notice published in the **Federal Register**, is provided below. The FHWA Division Offices, in consultation with the State DOTs, determined that 15 of these projects were no longer viable projects and have formally cancelled those projects. Four projects in California, North Carolina, Texas, and Washington have been reduced in scope and now meet the criteria for performing an EA rather than

an EIS, or a revised NOI will be issued restarting the environmental review process. The South Stockton Six-Lane Project in Joaquin County, California, and the NE Novelty Hill project in King County, Washington, have been reduced in scope and will undergo analysis as EAs. The Mid-Currituck Sound Bridge Project in Currituck and Dare Counties, North Carolina, issued a notice on June 3, 2008, rescinding the original July 6, 1995, NOI as well as the January 1998 Draft EIS due to project changes including the adaptation of the project by the North Carolina Turnpike Authority. A new NOI for this project is expected. The South Padre Island Second Access Project in Cameron County, Texas, issued a revised NOI to rescind the original July 11, 2003, NOI and start the environmental review process again with an April 23, 2008, NOI.

State	Project name—location	NOI date	Rescinded date
AL	West Mobile Loop—Mobile County	8/28/2002	5/7/2008
AL	Birmingham Northern Beltline Extension—St. Clair County	8/2/2006	4/7/2008
CA	South Stockton Six-Lane Project—Joaquin County	1/29/2002	3/13/2008
FL	Suncoast Parkway 2—Hernando and Citrus Counties	6/11/2002	3/11/2008
FL	Upper Manatee River Road—Manatee County	1/21/2004	3/14/2008
NC	Mid-Currituck Sound Bridge Project—Currituck and Dare Counties	7/6/1995	6/3/2008
OR	Astoria Bypass—Clatsop County	9/28/1994	4/7/2008
PA	Ligonier Truck Route—Westmoreland County	1/29/1993	2/20/2008
TN	Appalachian Development Highway System Corridor K—Polk County	10/28/1999	5/21/2008
TX	South Padre Island Second Access Project—Cameron County	7/11/2003	4/23/2008
TX	Bolivar Bridge—Galveston County	2/10/2006	1/30/2008
TX	SH 122 Roadway between SH 6 and SH99—Fort Bend County	9/16/2002	3/14/2008
UT	I-15 North Corridor—Salt Lake City to Kaysville	1/22/1997	4/10/2008
VA	Outer Connector—Stafford and Spotsylvania Counties	6/1/1995	5/22/2008
VA	I-77/I-81 Improvement Project—Wythe County	5/10/2001	5/22/2008
VA	Interstate 66 Multimodal Transportation and Environmental Study—Fairfax and Prince William Counties.	1/11/2002	5/22/2008
VA	Route 29 South Bypass Improvement Project—near Lynchburg	3/4/2002	5/22/2008
VA	Spotsylvania Parkway—Spotsylvania County	11/15/2002	5/22/2008
WA	NE Novelty Hill—King County	1/18/2001	4/2/2008

(Catalog of Federal Domestic Assistance Program Number 20.205, Highway Planning and Construction. The regulations implementing Executive Order 12372 regarding intergovernmental consultation on Federal programs and activities apply to this program.)

Issued on: June 30, 2008.

**James D. Ray,**

*Acting Federal Highway Administrator.*

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## DEPARTMENT OF TRANSPORTATION

### Federal Highway Administration

[FHWA Docket No. FHWA-2008-0070]

#### Exploratory Advanced Research Program

**AGENCY:** Federal Highway Administration (FHWA), DOT.

**ACTION:** Notice; Request for comments.

**SUMMARY:** Section 502 of title 23 of the United States Code directs the Secretary of Transportation (Secretary) to establish an Exploratory Advanced Research Program (EARP).

The stated purpose of the EARP is to address longer-term and higher-risk research with potentially dramatic breakthroughs for improving the

durability, efficiency, environmental impact, productivity and safety aspects of highway and intermodal transportation systems.

The purpose of this notice is to announce exploratory advanced research that will take place under the EARP, to encourage interest in such work by organizations or individuals conducting related work or anticipating the results of such work, and to solicit comments about the long-term impact of such work on future research, technical innovation, or transportation industry practices.

**DATES:** FHWA requests comments on or before October 6, 2008 in order to consider and plan for coordination of research.

**ADDRESSES:** David Kuehn, Office of Corporate Research, Technology and Innovation Management, (202) 493-3414, [david.kuehn@dot.gov](mailto:david.kuehn@dot.gov); or Grace Reidy, Office of the Chief Counsel, (202) 366-6226; Federal Highway Administration, 1200 New Jersey Avenue, SE., Washington, DC 20590. Office hours are from 7:45 a.m. to 4:15 p.m., Monday through Friday, except Federal holidays.

**SUPPLEMENTARY INFORMATION:**

**Electronic Access**

You may submit or retrieve comments online through the Document Management System (DMS) at: <http://dms.dot.gov/submit>. The DMS is available 24 hours each day, 365 days each year. Electronic submission and retrieval help and guidelines are available under the help section of the Web site. An electronic copy of this notice may be downloaded from the Office of the Federal Register's home page at <http://www.archives.gov> and the Government Printing Office's Web site at <http://www.access.gpo.gov>. Anyone is able to search the electronic form of all comments received into any of our dockets by the name of the individual submitting the comment (or signing the comment, if submitted on behalf of an association, business, labor union, etc.). You may review DOT's complete Privacy Act Statement in a **Federal Register** published on April 11, 2000 (70 FR 19477), or you may visit <http://dms.dot.gov>.

**Background**

Section 5201(g) of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) (Pub. L. 109-59, 119 Stat. 1144), directed the Secretary to establish an EARP. The program is codified in 23 U.S.C. 502(e).

Section 502(e) specifies that the EARP should address longer-term, higher risk research aimed at breakthroughs to improve the durability, efficiency, environmental impact, productivity and safety aspects of highway and intermodal transportation systems. Section 502(e) also provides that the Secretary should seek to develop partnerships with public and private sector entities. Further, the FHWA Corporate Master Plan for Research and Deployment of Technology & Innovation identifies engaging stakeholders throughout the research and technology process as one of seven guiding principles. An electronic copy of the Corporate Master Plan is available at <http://www.fhwa.dot.gov/legsregs/directives/policy/cmp/03077.htm>.

In 2005, FHWA conducted advanced research think-tank forums in Cambridge, Massachusetts; Minneapolis, Minnesota; and Berkeley, California, bringing together a range of stakeholders to explore future advanced research possibilities relevant to the mission of FHWA. These forums provided a foundation for FHWA to announce and select an initial group of exploratory advanced research projects in 2007.

Also during 2007, research offices within FHWA began meeting with research partners to further define areas of investigation for exploratory advanced research. Once specific research problems were defined, FHWA worked with outside experts from academic institutions, State and local departments of transportation and the private sector to provide technical assessments of exploratory advanced research proposals. FHWA plans to move forward with proposals that have strong scientific and technical merit.

Depending on the research area, some proposals leverage existing facilities, equipment and talent at the Turner Fairbank Highway Research Center (TFHRC). The research focuses on providing solutions to complex technical problems through the development of more economical, environmentally sensitive designs; more efficient, quality-controlled construction practices; and more durable materials. The TFHRC is federally owned and operated and provides FHWA and the world highway community with unique capabilities for the development of highway research, development and technology.

The FHWA is issuing this notice to announce five research proposals that will take place at TFHRC and to encourage organizations that are conducting related work or are interested in the results of such work to comment on this notice. The FHWA seeks methods to share information and to coordinate with other organizations who are conducting related work in the interests of mutual benefit and scientific advancement. Methods may include informal coordination as well as more formal agreements for providing access to facilities and equipment or sharing laboratory data and technical expertise. Further information about the EARP is located at <http://www.fhwa.dot.gov/advancedresearch/research.cfm>.

Following is a summary of the five proposals FHWA plans to undertake as part of a second round of exploratory advanced research. For more detailed descriptions of the proposals, see <http://www.fhwa.dot.gov/>

*advancedresearch/research.cfm#upcoming*.

**Title:** Greatly Increased Use of Fly Ash in Hydraulic Cement Concrete for Pavement Layers and Transportation Structures—This study will explore the attributes of fly ash to understand how it can be utilized in greater quantities. The outcome of the study could accelerate the identification of technology and innovations to allow the massive use of fly ash from coal-burning that either does not meet current concrete materials specifications or is not used because of practical technical concerns. The fly-ash drawback is the slower set and strength gain. Advanced research is needed to understand potential acceleration techniques to conceive of empirical testing and performance prediction models for these uses. We anticipate that research in this area will answer several questions, including whether there are chemical activation methods that can be used and whether we could eliminate use of any metal that corrodes in concrete in favor of more efficient chloride accelerators.

**Title:** Volumetric Particle Image Velocimetry (VPIV) System for experimental Bridge Scour Research—A proposed high resolution VPIV system would allow measurement of instantaneous flow volumes around bridge pier models, leading to more precise scour predictive models. It presently is practically impossible, by means of laboratory experiments, to visualize and to measure the entire instantaneous flow field around a bridge pier. Recent experimental investigations using Laser Doppler Velocimetry and Particle Image Velocimetry (PIV) have increased our understanding of the intricate flow structures around bridge piers; a detailed quantitative description of the of necklace vortices at the base of piers and of the turbulent near wake region is still lacking. Laser Doppler Anemometry (LDA) is only capable of measuring point velocities, and PIV is limited to single recording plains. LDA and PIV are both based on optical flow diagnostics using the interaction of light refraction and scattering with inhomogeneous media. Research at the TFHRC Hydraulics Laboratory has focused on using a PIV system developed in-house for measuring instantaneous flow fields around bridge pier models. The existing PIV system also has the capability to map the out-of-plane velocity components using two synchronized cameras to measure the velocity in complex flow situations. The current PIV system has two major limitations: (1) Resolution (sampling rate 15 Hz); and (2) only one recording plane. Therefore, there is a need to

develop a high resolution VPI system that can capture and quantify complex, highly three-dimensional and unsteady flow fields for small-scale bridge scour experiments.

**Title:** Flexible Skin Areal Shear Stress and Pressure Sensing System for Experimental Bridge Scour Research—This study will explore ways to directly measure instantaneous boundary shear stresses and pressure fields for small scale bridge scour experiments, in order to advance the understanding of bridge scour problems. A direct method to measure boundary shear stress and boundary pressure fluctuations in experimental scour research has historically been a challenge. In addition, available turbulence models cannot account very well for the effect of bed roughness, which is fundamentally important for any Computational Fluid Dynamics simulation. A mechanical shear sensor device that was developed by the TFHRC Hydraulics Research team to measure directly wall shear stress has several limitations. One major challenge is that the sensor only measures point shear stresses. The sensor plate has to be aligned horizontally with the channel bed and cannot be used to measure shear stress in preformed scour holes. Therefore, there is a need to develop a sensing system that can measure instantaneous areal boundary shear stresses and pressure fields for small scale bridge scour experiments. The FHWA desires a sensing system with the flexibility to measure the change in shear-stress and pressure when the scour hole forms.

**Title:** The Composite Behavior and the Design Requirements of Geosynthetic Reinforced Soil (GRS) Structures—This research will seek to understand how geosynthetic reinforcement interacts with compacted soil to allow for more effective and rational design guidance of GRS walls for highway applications. Many engineers have learned there are several fundamental discrepancies between current Material Science Engineering design methodology and the observed behavior of full-scale GRS earth-geosynthetic composite walls (alternating close layers of geosynthetic reinforcement and compacted fill). The research will improve the understanding of reinforced soil technology and support a paradigm shift into GRS technology. The Material Science Engineering wall industry and related theory is mature to a point where there is reluctance to acknowledge any modified wall design using geosynthetics. However, the evolution of GRS technology using

geosynthetic soil composites has created a new engineering material with a niche in earthwork. Fundamental understanding of GRS properties will allow for development of improved design and construction guidance with the potential to lead to considerable change in the industry and an affordable, quick alternative to the current practice.

**Title:** Advanced Digital Imaging for Accident Prevention and Reducing Traffic Congestion—This research would explore extended range imaging techniques from scientific, art and astronomical photography for application to traffic safety and control. Current video imaging has limitations for use in safety, including erroneous early detection, late detection, failed detection and false positive detections. Attempts to resolve these problems by upgrading existing video technologies have not been successful. A radically different approach using advanced digital imaging technologies might provide a foundation on which to build solid reliable detection technologies with radically lower signal-to-noise ratios. This research might provide the foundation for a different approach to wide-area sensing using scientific-imaging technologies rather than video-broadcasting technologies.

**Authority:** 23 U.S.C. 502.

Issued on: July 1, 2008.

**James D. Ray,**

*Acting Federal Highway Administrator.*

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## DEPARTMENT OF TRANSPORTATION

### Federal Highway Administration

#### Notice of Final Federal Agency Actions on Proposed Highway in Ohio

**AGENCY:** Federal Highway Administration (FHWA), DOT.

**ACTION:** Notice of Limitation on Claims for Judicial Review of Actions by FHWA, Army Corps of Engineers (USACE), and Other Federal Agencies.

**SUMMARY:** This notice announces actions taken by the FHWA, USACE, and other Federal agencies that are final within the meaning of 23 U.S.C. 139(l)(1). The actions relate to a proposed highway project, the Interstate Routes 75 and 475 systems interchange, in the City of Toledo, Lucas County, in the State of Ohio. Those actions grant licenses, permits, and approvals for the project.

**DATES:** By this notice, the FHWA is advising the public of final agency actions subject to 23 U.S.C. 139(l)(1). A

claim seeking judicial review of the Federal agency actions on the highway project will be barred unless the claim is filed on or before January 5, 2009. If the Federal law that authorizes judicial review of a claim provides a time period of less than 180 days for filing such claim, then that shorter time period still applies.

**FOR FURTHER INFORMATION CONTACT:** For FHWA: Mr. Adam Johnson, Highway Engineer, Federal Highway Administration, 200 North High Street, Columbus, Ohio 43215; telephone: (614) 280-6843; e-mail: [Adam.Johnson@fhwa.dot.gov](mailto:Adam.Johnson@fhwa.dot.gov). The FHWA Ohio Division Office's normal business hours are 8 a.m. to 4:30 p.m. (eastern time). For USACE: Ms. Deborah Wegmann, Program Manager, Ohio Regulatory Transportation Office, Building 10, Section 10, 3990 East Broad Street Columbus, Ohio 43218; telephone 614-692-4660; e-mail: [Deborah.Wegmann@lrh01.usace.army.mil](mailto:Deborah.Wegmann@lrh01.usace.army.mil). For the Ohio Department of Transportation: Mr. Timothy Hill, Ohio Department of Transportation, 1980 West Broad Street, Columbus, Ohio 43223; telephone: (614) 644-0377 e-mail: [Tim.Hill@dot.state.oh.us](mailto:Tim.Hill@dot.state.oh.us).

**SUPPLEMENTARY INFORMATION:** Notice is hereby given that the FHWA, USACE, and other Federal agencies have taken final agency actions by issuing licenses, permits, and approvals for the following highway project in the State of Ohio: Beginning from the south along I-75 at the Detroit Avenue Interchange (Delaware Avenue bridge and CSX railroad over I-75 not included), thence north to the systems interchange. Continuing on to about 1,800 ft past the Lagrange Street Bridge over I-75. The project length along I-75 is approximately 7.0 miles. Beginning from the west along I-475, just west of the Douglas Road bridge over I-475, thence east to the systems interchange. The project length along I-475 is approximately 2.1 miles. The proposed project will generally be on existing alignment and involves upgrading of a systems interchange, reconfiguration of two full interchanges and one partial interchange, construction of one new interchange, rehabilitation and reconstruction of 13 existing bridges, and 9 proposed bridges. The actions by the Federal agencies, and the laws under which such actions were taken, are described in the Environmental Assessment (EA) for the project, approved on October 16, 2006, in the Finding of No Significant Impact (FONSI) issued on March 21, 2008, and in other documents in the FHWA administrative record. The EA, FONSI,