NTC Program Progress Performance Report (PPPR) Information Form

For P.I.'s Use

On a semi-annual basis the NTC sponsored P.I. must report Program Progress Performance Report (PPPR) using the format specified in this PPPR Information Form. The form must be submitted electronically to the corresponding NTC Associate Director by 9/15/2014.

Cover Period: 4/1/2014 – 9/15/2014
Project Reporting Period: 6/1/2014 – 9/15/2014

NTC Funded Project Information (Round/Year 1, 2013-2014)	
University Name	North Carolina State University
Project Title	High Speed Rail Short Course
Principal Investigator	George List
PI Contact Information	gflist@ncsu.edu / 919-515-8038

The form includes the following six parts:

- Part I – Performance Indicators
- Part II – Accomplishments: What was done? What was learned?
- Part III – Products: What has the program produced?
- Part IV – Participants & Collaborating Organizations: Who has been involved?
- Part V – Impact: What is the impact of the program? How has it contributed to transportation education, research and technology transfer?
- Part VI – Changes/Problems

Supplementary documents/materials can be attached to this form with the submission.

Part I – Performance Indicators	
Reporting Period	**4/1/2014 – 9/15/2014**
1. Transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC	
Undergraduate courses	CE 305 Traffic Engineering
Graduate courses	CE 595 Transportation Logistics CE 595 Sensors & Instrumentation
2. Students supported by this grant	N/A
Undergraduate students	
Masters students	
Doctoral students	
3. Students participating in transportation research projects funded by this grant (but not supported by this grant)	N/A
Undergraduate students	
Graduate students	
4. Students supported by this grant who received degrees	N/A
Undergraduate degrees	
Masters degrees	
Doctoral degrees	

Part II – Accomplishments: What was done? What was learned?	
The information provided in this section allows the OST-R grants official to assess whether satisfactory progress has been made during the reporting period.	
Reporting Period	**4/1/2014 – 9/15/2014**
1. What are the major goals of the program?	The National UTC aims to promote strategic transportation policies, investment, and decisions that bring lasting and equitable economic benefits to the U.S. and its citizens. The Center is concerned with the integrated operations and planning of all modes serving the nation's passenger and freight transportation system, including the institutional issues associated with their management and investments. A balanced multi-modal approach will be used that considers freight and passenger travel mobility, reliability, and sustainability, as well as system operations during periods of both recurring and non-recurring incidents, including response to major emergencies. The modes in this theme include highway, transit, rail, and inter-modal interfaces including ports, terminals and airports. In particular, the center focuses on research, education, and technology transfer activities that can lead to (1) Freight efficiency for domestic shipping and for our international land, air, and sea ports; (2) Highway congestion mitigation with multi-modal strategies; and (3) Smart investments in intercity passenger travel facilities such as high speed rail. Major center activities are as following: • **Advanced & Applied Research Promoting Economic Competitiveness:** Our research activities are multimodal/intermodal and multidisciplinary in scope, with the aims of addressing nationally and regionally significant transportation issues pertinent to economic competitiveness and providing practice-ready solutions. • **Education, Workforce Development, Technology Transfer, & Diversity** The consortium is committed to providing high-quality transportation education and workforce development programs for a broad and diverse audience. Center's efforts will support the development of a critical transportation knowledge base and a transportation workforce that is prepared to design, deploy, operate, and maintain the complex transportation systems of the future.

2. What was accomplished under these goals?	Materials for the short course are in preparation. Drafts of many of the modules have been created.
3. How have the results been disseminated?	So far, the draft materials have been shared with Paul Schonfeld at UMD. He has provided valuable feedback.
4. What do you plan to do during the next reporting period to accomplish the goals? (10/1/2014 – 3/31/2015)	We plan to complete the preparation of the material and distribute it for review and comment to a number of individuals.

Part III – Products: What has the program produced?	
Publications are the characteristic product of research projects funded by the UTC Program. OST-R may evaluate what the publications demonstrate about the excellence and significance of the research and the efficacy with which the results are being communicated to colleagues, potential users, and the public, not the number of publications. Many research projects (though not all) develop significant products other than publications. OST-R may assess and report both publications and other products to Congress, communities of interest, and the public.	
Reporting Period	**4/1/2014 – 9/15/2014**
1. Journal publications:	None to date.
2. Books or other non-periodical, one-time publications	None to date.
3. Other publications, conference papers and presentations	None to date.
4. Website(s) or other Internet site(s)	A website will be prepared, but it has not been created.
5. Technologies or techniques	There are no technologies or techniques being developed by the project.
6. Outreach activities	No outreach activities have been undertaken so far, but it will be a significant part of the project once the draft materials are completed.
7. Courses and workshops	No courses and workshops have been offered yet. But once the draft materials are prepared, they will be beta tested in a workshop.
8. Inventions, patent applications, and/or licenses	No inventions, patents, or licensable material is expected to be developed in the project.
9. Other products	No other products have been developed.

Part IV – Participants & Collaborating Organizations: Who has been involved?	
OST-R needs to know who has worked on the project to gauge and report performance in promoting partnerships and collaborations.	
Reporting Period	**4/1/2014 – 9/15/2014**
1. What organizations have been involved as partners?	Paul Schonfeld at UMD has been acting as a reviewer.
2. Have other collaborators or contacts been involved?	Louis Rossi, former director of the Rail Division at NYSDOT, and a recognized pioneer for spearheading the introduction of high speed rail service between Albany and New York City, has been a source of insights about the topics that are important.

Part V – Impact: What is the impact of the program? How has it contributed to transportation education, research and technology transfer?	
DOT uses this information to assess how the research and education programs: • **increase the body of knowledge and techniques;** • **enlarge the pool of people trained to develop that knowledge and techniques or** • **put it to use; and,** • **improve the physical, institutional, and information resources that enable those people to get their training and perform their functions.**	
Reporting Period	**4/1/2014 – 9/15/2014**
1. What is the impact on the development of the principal discipline(s) of the program?	The short course, once developed, will have an impact on the level of understanding about high speed rail that exists within the transportation discipline.
2. What is the impact on other disciplines?	The materials will have an impact on mechanical engineering and electrical engineering, both of which are involved in developing the trains and control systems.
3. What is the impact on the development of transportation workforce development?	The short course will positively affect the level of expertise that exists within the transportation workforce.
4. What is the impact on physical, institutional, and information resources at the university or other partner institutions?	None.
5. What is the impact on technology transfer?	The short course will be a major element of technology transfer in that it will be helping individuals inside and outside of transportation to understand the important features of high speed rail.
6. What is the impact on society beyond science and technology?	The short course will help all members of society better understand the features of high speed rail.
7. Additional impacts	None are presently foreseen.

Part VI – Changes/Problems	
If not previously reported in writing to OST-R through other mechanisms, provide the following additional information or state, "Nothing to Report, if applicable:	
Reporting Period	**4/1/2014 – 9/15/2014**
1. Changes in approach and reasons for change	Nothing to Report.
2. Actual or anticipated problems or delays and actions or plans to resolve them	Nothing to Report.
3. Changes that have a significant impact on expenditures	Nothing to Report.
4. Significant changes in use or care of human subjects, vertebrate animals, and/or biohazards	Nothing to Report.
5. Change of primary performance site location from that originally proposed	Nothing to Report.