

<b>UTC Project Information</b>	
Project Title	MPC-524 – Development of Next Generation Liquefaction (NGL) Database for Liquefaction-Induced Lateral Spread
University	University of Utah
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Funding Agencies	USDOT, Research and Innovative Technology Administration
Agency ID or Contract Number	DTRT13-G-UTC38
Project Cost	\$51,682
Start and End Dates	September 30, 2013 to September 30, 2018
Project Duration	September 30, 2013 to September 30, 2018

<p>Brief Description of Research Project</p>	<p>This research will be conducted in conjunction with the Pacific Earthquake Engineering Research (PEER) Center and various state DOTs via a pool-fund study managed by the Utah Department of Transportation (UDOT). The research topic addresses the need to improve empirical, semi-empirical, analytical and numerical methods to estimate the amount of permanent ground displacement associated with liquefaction-induced lateral spread resulting from major earthquakes. The project will be executed in two or three phases: (1) database development and collection, (2) gathering additional subsurface and topographical data, and (3) predictive model development. This proposal addresses the work associated with Phase (1). The scope and work plan for Phases (2) and (3) will be addressed in a subsequent project following the completion of Phase (1).</p>
<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	<p>The primary outcome of this research is a vetted and community database for further research and model development pertaining to liquefaction-induced lateral spread. Secondary outcomes will be the software development and support required to host and disseminate this information.</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>The Next Generation Liquefaction (NGL) Project is advancing the state of the art in liquefaction research and working toward providing end users with a consensus approach to assess liquefaction potential within a probabilistic and risk-informed framework. Specifically, NGL's goal is to first collect and organize liquefaction information in a common and comprehensive database to provide all researchers with a substantially larger, more consistent, and more reliable source of liquefaction data than existed previously.</p>
<p>Web Links</p> <ul style="list-style-type: none"> <li>• Reports</li> <li>• Project Website</li> </ul>	<ul style="list-style-type: none"> <li>• MPC Research Report – <a href="#">Development of Next Generation Liquefaction (NGL) Database for Liquefaction-induced Lateral Spread</a></li> <li>• <a href="#">PEER NGL Liquefaction Database</a></li> </ul>