Project Title: Vulnerability of fuel distribution systems to hazards in coastal communities

Project Abstract (Brief Description): Coastal communities are vulnerable to disruptions in fuel availability for their transportation networks due to their susceptibility to flooding and storm surge events. Fueling station design criteria do not change in coastal communities and supply chains rely on road networks that lack the redundancy present in more inland areas. This study will examine fuel distribution disruptions from past storms and the time for restoration of fuel availability after coastal hazard events. Causes and mitigation of damaged fuel networks will be determined and new designs and methods proposed to minimize disruption during coastal hazards.

Describe Implementation of Research Outcomes (or why not implemented) - Developed extensive network model of coastal Louisiana communities capturing roads, fueling stations, and bulk terminals. Model captures all details of the lower portion of LA Highway 1, fuel capacities, supply routes and storage types (above-ground and below ground fuel storage).

Impacts/Benefits of Implementation (actual, not anticipated)

To be determined upon conclusion of the project:

Web Links: http://evaccenter.lsu.edu

Budget (Funding) Amounts & Source(s) (US DOT + Match(s) =Total Costs): 44,004 (USDOT) + $67,145 (Match) = $111,149

Project Start and End Dates: 05/01/2015 – 04/30/2016. No cost extension to 09/30/2016.

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