

**E85 Infrastructure Meeting at NC Farm Bureau, Raleigh NC  
November 16, 2006**

In attendance:

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**Purpose of the meeting:** to exchange information and build cooperative relationships to address national and state regulatory concerns with E85 refueling infrastructure

**Summary Points:**

The E85 compatibility issues in NC are two fold:

- New NCDENR UST form requires a NC PE signature to assure compatibility on all components of a E85 refueling system including glues and all underground piping in existing and future E85 installations
- A national situation where UL has removed approval on all new E85 dispensers, thereby leading the NC Fire Marshall to disallow any new or retrofitted E85 dispensers to go into operation. According to NC fire code existing E85 dispensers may continue operation since they do not pose “ imminent life safety issues”

The 1988 federal underground storage tank ( UST) regulations require compatibility compliance for all fuels dispensed from system. NC DENR’s UST division conferred with other states (Wisconsin and Iowa) to develop new UST form which assures compatibility of all E85 refueling components. DENR’s UST division is concerned if installations leak above the ground and below. Form must be signed by PE and all components must be ID’ed as compatible with E85 including glues & fittings, flex piping, and liners.

Thomas Petroleum is the E85 supplier for all NC station dispensing E85. They own 3 of the stations and are assisting all the other stations in trying to comply with new requirements. They have borne all costs so far on retrofitting their own stations to dispense E85. To date none of the 12 stations in North Carolina have received any grant funding or government assistance to install E85 equipment. The risk of introducing a new, environmentally preferable product has been solely assumed by the station owners.

NCDENR’s UST Division will continue to grant extensions for more time to complete the form, upon request from station owners. If any out of compliance components are IDed, they would expect compliance within 30-60 days or a reasonable time schedule for compliance.

Moving forward , with new E85 pump installations ( both retrofits and actual new dispensers) the State Fire Marshall will need a NC licensed PE to signoff on installation component compatibility. Letters and statements from manufacturers’ engineering departments stating components are compatible for E85 use would greatly facilitate this task for a NC PE.

**Next steps:**

1) A second meeting is planned for 2:00 December 6, 2006 at the NC Farm Bureau. The Farm Bureau is located at 5301 Glenwood Avenue Raleigh, NC 27612. Conference call in will be available .

2) State Fire Marshall will check how Ohio, IL and Wisconsin have issued “ go forward” policies that allow new E85 pump installations while UL approval is pending

3) An interim report/update is expected from UL on Nov 20 or 21. NC needs a sense of how long it will take for UL certification/testing of E85 equipment to help chart course of action

4) Petroleum Marketers Assoc, the NC Solar Center and others will try to ID a materials engineer that is licensed in NC to research and sign off on the compatibility of a variety of materials commonly used in E85 installations. PMA will approach Steve Knight who is a structural engineer. Tim Laughlin ( PMA engineer) could possibly provide assistance

5) Research incidents of E85 tank leakage and materials incompatibility in other states. Research/report what other states are taking action regarding UST compatibility

6) Clean Fuel Technologies (company that provides E85 retrofits kits for petroleum dispensers [www.cftdispensers.com](http://www.cftdispensers.com) ) is in the process of getting letters signed by component manufacturers stating E85 compatibility of each component. Retrofit kits are now available for \$1,900 See attached component list. Letters from component manufacturers stating compatibility should be complete within the next two weeks. CFT president Curtis Donaldson will contact Gordon Johnson at Gilbarco about getting a NC licensed PE to add signature and seal on NC retrofit projects.