

Suggested additional operational requirements for electric assist pedicabs:

SPEED:

- Set maximum electric only top speed (without human pedaling assistance on level ground, operator only, no passengers) of 15 MPH.

BREAKING:

- Set braking requirement to stop bike to more closely match electric assist operating parameters. This may take some experimentation, but I suggest starting with a stopping distance of 15 feet at 12 miles per hour with 2 passengers.

SEAT BELTS:

- Require individual seat belts be installed for each passenger. (2-3 sets)

WEIGHT:

- Pedicabs are generally designed to be light-weight vehicles, thus maximum weight of vehicle with battery should not exceed 275 lbs.

BATTERY:

- Require lithium battery(ies) be stored in a metal, metal lined or other nonflammable container capable of limiting spread of fire.
- Require lithium battery(ies) be protected from damage by a snug fitting hard case so as to prevent foreign objects or movement or vibration causing harm to the battery.
- Maximum Battery voltage no more than 48V (nominal voltage)
- Require pedicab operator to carry a 1lb or larger fire extinguisher to be stored outside of battery compartment.

THIRD PARTY INSPECTION:

- Attest the motor system does not reduce the safety of pedicab driver or passenger during its operation. (mechanical, electrical)
- Record top operating speed.
- Check battery voltage to assure that it is no higher than 48 volts nominal.
- Mark motor with a non-removable sticker showing it passed inspection.
- Prohibit hub motors that transmit torque solely through flatted axles, as there is a great danger that they will pop out of pedicab front forks.

IDENTIFICATION:

- Each pedicab should have a license plate installed that identifies it as an electric pedicab.

OPERATOR REQUIREMENTS:

- Each electric assist pedicab operator shall be specifically endorsed by the operating authority holder as being able to safely operate the electric assist pedicab. Endorsement shall be added to the back of operators permit.

REINSPECTION:

- Require that a secondary inspection take place, to be performed by city that would recheck braking performance, and top speed.