

An Introduction Of Advanced Thinking On Heavy Vehicle Highway Safety

The Time Has Come To Get Honesty On The Table - Honesty About Where In The Regulations Have Failed To Deal With The Heavy Vehicle Driver Fatigue Problem That Is Responsible For Numerous Catastrophic Heavy Vehicle Highway Accidents.

All heavy over-the-road vehicles are, beyond question, lacking directional stability because of the imperfect on-center control inherent to the geometry of the steer wheels. A hundred years of steering geometry experimentation by the industry's most creative designers has proven beyond question that the steering geometry cannot be expected to prevent the unstable behavior of the steer wheels in the on-center straight driving position, thereby the inherent lack of steer wheel directional stability must be solved by repetitive driver steering corrections in order to maintain directional control of heavy over-the-road vehicles, that result in excessive driving fatigue and related catastrophic heavy vehicle highway accidents. A breakthrough in Precision Steer Wheel Control Technology has been achieved that does away with the lack of heavy vehicle directional stability and the excessive amount of repetitive steering corrections required to keep a heavily loaded vehicle tracking straight and under control. The new Precision Steer Wheel Control Technology automatically keeps a heavy vehicle tracking exceptionally straight so the drivers are able to rest their hands on

the steering wheel when going straight instead of making the constant steering corrections required to keep the vehicle tracking straight and under control.

There is a reason why flying on an airliner is twenty-two times safer than driving on the highway. No stone has been left unturned in the design regulations for commercial aircraft that require directional stability and controllability, as a primary consideration. While on the other hand, the dire need for heavy vehicle directional stability is not a requirement for heavy over-the-road vehicles. This nation can no longer justify the lack of suitable regulations for achieving heavy vehicle directional stability that will make the direly needed improvement in heavy vehicle highway safety, now that the proven technology is here for the asking, that is more than paid for by a verifiable reduction in operating costs.

For example, the new technology completely does away with the costly long-standing accelerated steer wheel tire wear problem that was caused by the inherent unstable behavior of the steer wheels.

- Heavy vehicle operators that are now using the new technology, are reporting a seventy-five thousand mile increase in steer wheel tire life, that will pay for the new technology several times over during the normal service life of the vehicle.
- The Precision Steer Wheel Control System achieves an amazing level of steer wheel tire blowout controllability, verified by numerous documented steer wheel blowouts where drivers report easy vehicle controllability, without the steering wheel fight.
- The Precision Steer Wheel Control System makes a major improvement in crosswind drivability, by preventing the steer wheels from caster steering downwind, in response to wind gusts.
- The Precision Steer Wheel Control System completely eliminates the typical heavy vehicle road wander problem that is responsible for a major amount of driving fatigue.
- The Precision Steer Wheel Control System does away with steering wheel pull on crowned or slanted roads, that is caused by steer wheels caster steering to the low side of the road.