

# Diesel Multiple Unit (DMU) Self-Propelled Passenger Rail Car

## Program Description:

Demonstrate that Diesel Multiple Unit (DMU) self-propelled passenger rail car technology is available that fully meets the existing Federal passenger safety standards (49 CFR Part 238, as amended) and that DMU is suitability for regularly scheduled revenue service in the U.S. Demonstration venues are:

- South Florida Rail Corridor (Florida DOT)
- New York, Susquehanna and Western (NYS&W) railroad (N.J. Transit Corporation)

## Scope of Problem Addressed:

DMU produces 72% less pollution, creates 75% less noise, and saves significantly on purchase and operating costs. This program proves that it can comply with the CFR requirements on a mixed use rail system.

## Milestones/Deliverables:

- Florida DOT
  - Pre-revenue testing began – MAR 2006
  - Regular revenue service began – OCT 2006
  - Delivery of 2<sup>nd</sup> train set – MAR 2007
- NJ Transit Corporation
  - 1<sup>st</sup> train set delivery - 2007

## Results / Lessons Learned:

- Schedule for Florida DOT delayed due to destruction of first unit in a fueling accident at TTC.
- Pre-revenue testing satisfactory to proceed to revenue service demonstration phase.



## Strategic Goals and Benefits:

- Five-Year Strategic Plan for Railroad Research, Development, and Demonstration – March 2002
- Crashworthy Self-Propelled Commuter Rail Vehicles that:
  - Safely share track with freight and intercity passenger trains
  - Enable use of existing railroad tracks
  - Keep capital and operating cost low