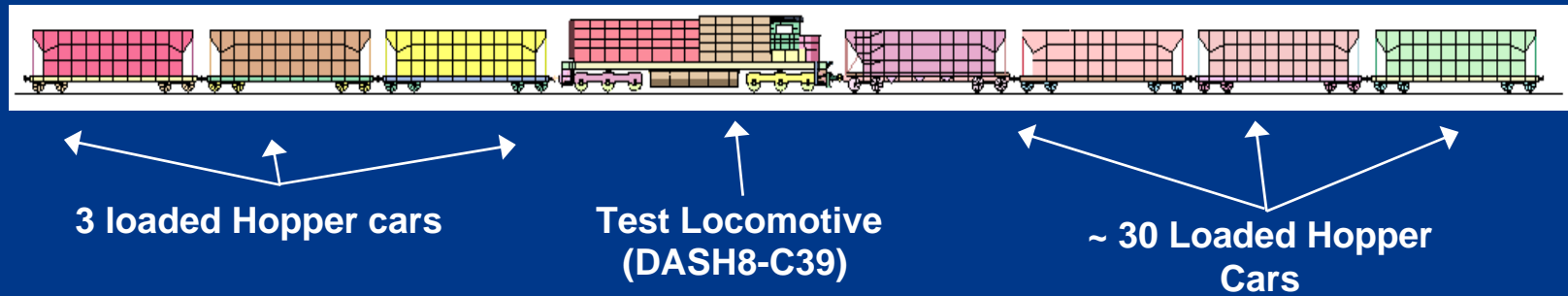


Locomotive Collision Test #7
**Freight Locomotive (DASH8-C39) Colliding with a
Stationary Hopper Car**



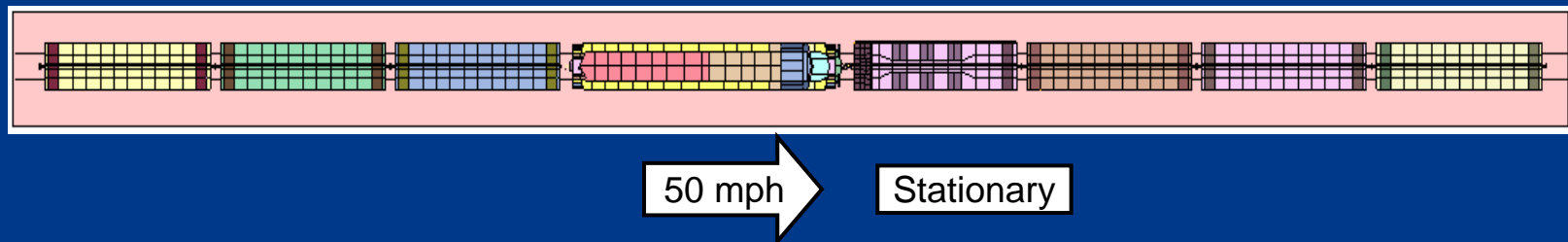
Test #7: Set-Up



Collision Speed 30 mph

Bullet Consist

Target Consist



Test #7: Pre-Test Photos



Bullet locomotive and trailing
hopper cars



Stationary hopper
cars

Test #7: Post Test Photos



Position of locomotive
following collision test



View of locomotive front end
damage

Test #7: Post Test Photos



Extensive damage to the front end of the locomotive



Test #7: Outcome

- What did we learn from this test?
 - Even at low speeds (~30 mph), the locomotive can override stationary vehicles (Similar to Test #1)
 - Anticlimber did not directly affect the outcome of this collision
 - End plate and draft gear pocket formed a ramp that allowed the locomotive to ride up on top of the comparatively weaker hopper structure
 - Hopper body provided no resistance to locomotive override
 - Damage to the anticlimber and locomotive front, including the collision posts, was massive (locomotive to hopper car collision at 40 mph), and the draft gear failed