

AERODYNAMIC TESTS FOR APT DEVELOPMENT DURING 1968

Three series of tests for the Advanced Passenger Train have been made:

- Overturning moment measurements on a two-dimensional 1/16 scale APT model.
- Slide force, lift and drag test on a 1/40 scale model of a train of APT coaches, and comparison with 1/40 scale model tests of BR standard Mk2 coaches.
- Head and tail drag tests on a 1/24 scale APT model.

Results show that:

- The overturning moment is appreciable, though slightly less than on a standard coach.
- Head and tail drag are acceptably low. A value of $C_D=0.12$ has been provisionally adopted for combined head and tail drag.