

Rail vehicle dynamics:			
Use of plasma torch to increase adhesion.....	54	36	British Railways Research Department, Derby, England General American Transportation Corp., Research Division, Niles, Ill. Contractors to be selected
Wheel rail dynamics.....			
Total.....	54	36	6,710
Vehicle suspension and guidance:			
Active suspension feasibility.....	40	63	MIT, Cambridge, Mass.
Dynamic simulation of suspension systems.....	100	200	Melpar, Inc., Falls Church, Va.
Dynamic simulation of autotrain suspension.....	31		Illinois Institute of Technology Research Institute, Chicago, Ill. Completed.
Active suspension prototype design.....		52	Westinghouse Electric Corp., Pittsburgh, Pa.
Development of prototype.....		130	Contractors to be selected
Total.....	140	294	4,700
Experimental track structures:			
Computer simulation of track structure.....	40	19	Battelle Memorial Institute, Columbus, Ohio
Design of more stable track structure.....	15		Carnegie Mellon University, Pittsburgh, Pa.
Research on use of polymers for stabilizing RR ballast.....	50	19	Materials R. & D. Inc., Oakland, Calif.
Test of track structures.....		870	Contractors to be selected
Total.....	105	38	1,110
Vehicle drive systems:			
Gas turbine electric propulsion system.....	59		United Aircraft Corporate Systems Center, Farmington, Conn.
Servo-operated pantograph.....	147		UACSC—Farmington, Conn.
Survey of European electrification technology.....	5		Transport International, California, Carmel, Calif.
New drive systems.....			Contractors to be selected
Total.....	211		9,300
Other rail related R. & D.:			
Feasibility of auto train equipment.....	165		L. T. Klauder & Associates, Philadelphia, Pa.
Ride test for auto train.....	2		Atlantic Coastline Railroad, Jacksonville, Fla.
Wind tunnel testing of freight car aerodynamics.....	112	14	Do.
Develop specifications for and inspect new equip- ment.....	116	30	Do.
Develop surveillance equipment for rail cars.....	14	31	L. T. Klauder & Associates, Philadelphia, Pa.
Track wheel, axle, and wheel profile engineering.....	4		American Machine & Foundry, Alexandria, Va.
Potential use of linear electric motor as booster for locomotives.....		26	Association of American Railroads, Chicago, Ill.
		7	AlResearch Corp., Torrance, Calif.
Total.....	293	165	63

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