

Coupled waveguide systems.....	13					Sumitomo Electric, Osaka, Japan.....	December 1968.
New communications devices.....	310					Contractors to be selected.....	
Total.....	52	322	19	323	11,240		
Power collection:							
Simulation.....	52	48				General Electric, Schenectady, N.Y.....	October 1968.
Noncontact method.....	19					do.....	Completed.
Design and test new methods.....					8,460	Contractors to be selected.....	
Total.....	52	67			8,460		
Obstacle surveillance:							
Laser beams.....	100			259	2,300	Radio Corporation of America, Princeton, N.J.....	November 1968.
New detection methods.....							
Total.....	100			259	2,300		
Linear induction motor:							
Feasibility of linear induction motors in HSGT.....	30	41				AirResearch Corp., Torrance, Calif.....	Completed.
Feasibility of advanced electric systems.....	90	50				Massachusetts Institute of Technology, Cambridge, Mass.....	September 1968.
Design and fabricate test LIM propulsion system.....	1,200			531		AirResearch Corp., Torrance, Calif.....	July 1969.
Lateral stability of test vehicle.....				35		British Railways Research Department, Derby, England.....	February 1969.
Test LIM propulsion system.....				2,030	8,110	Contractors to be selected.....	
Total.....	120	91	1,200	2,596	8,110	Contractors to be selected.....	
Magnetic suspension: Preliminary research.....					4,950		
Tunneling:							
Feasibility of tunneling by flame jet.....	75	94				United Aircraft Corp. Research Laboratory, East Hartford, Conn.....	Completed.
External augmentation of velocity of fluid jets for tunneling.....	12	18				Bowles Engineering, Silver Spring, Md.....	Do.
Research in high pressure water jet delivery optimization for tunneling.....	21	32				do.....	June 1968.
State of the art, hypervelocity water jets.....	11	14				University of Missouri, Rolla, Mo.....	Completed.
Soil mechanics and chemical, thermal, and laser techniques for rock fracture.....	90	287	78			MIT, Cambridge, Mass.....	September 1968.
Rock tunneling by water jet using cavitation principle.....	37	21				Hydraulics, Inc., Laurel, Md.....	May 1968.
National Academy of Science, tunneling research requirements.....	9					U.S. Bureau of Mines, Washington, D.C.....	Completed.
Geological mapping of Northeast Corridor.....	103					U.S. Geological Survey, Department of Interior, Washington, D.C.....	Do.
Reference and bibliography service.....						Library of Congress, Washington, D.C.....	Do.
Hypervelocity fluid jet driver system.....	25					Bowles Engineering, Silver Spring, Md.....	June 1968.
Design of tunnel liners.....	60					University of Illinois, Champaign, Ill.....	February 1969.
Correlation of rock properties to fracturability.....	29					University of Missouri, Rolla, Mo.....	December 1968.
Rock breakage by light-gas guns firing liquid pellets.....	40			10		Illinois Institute of Technology Research Institute.....	Do.
Design and test.....				161	5,750	Contractors to be selected.....	
Total.....	90	555	413	171	5,750		