

R. & D. CONTRACTS ADMINISTERED BY PURCHASING OFFICE, MSFC—Continued
[Listed in order of dollar value]

Contractor	Contract	Description	Date	Amount
Aluminum Co. of America, Pittsburgh, Pa.	NASS-5340	Investigation stress corrosion high strength aluminum alloys	May 6, 1963	\$160,236
Borders Electric Co., Camden, NJ	NASS-20177	Studies and invests application random noise modtm advanced tracking sys.	June 25, 1965	158,401
Fairchild Hiller, Farmingdale, NY	NASS-20633	Measurement of electric fields in the ionosphere	June 12, 1966	158,401
Melpar Inc., Falls Church, Va.	NASS-11322	Permeability engr material to liquid hydrogen and other propellants	June 30, 1964	158,038
Space Tech Lab Inc., Redondo Beach, Calif.	NASS-0051	Adaptive control sys for Saturn-type vehicles	June 30, 1962	157,864
Electro Mech Res Inc., Sarasota, Fla.	NASS-20243	Study lunar geophysical surface and subsurface for Apollo extensn sys	June 30, 1965	157,570
Midwest Research, Kansas City, Mo.	NASS-11388	Synthesis and evaluation of new high temp polymers coating applications	June 25, 1964	157,390
Union Carbide Corp., Tonawanda, NY	NASS-11740	Super insulation sys for cryogenic test tanks	June 20, 1964	157,253
Mississippi State University, State College, Miss.	NASS-11384	Res determ of liquid surface profile in cryogenic tank during gas injection	June 18, 1964	157,115
TRG Inc., Melville, N.Y.	NASS-18119	Design fab testing and delivery of frequency stabilized gas laser	June 30, 1966	149,985
Ball Bros. Research Corp., Boulder, Colo.	NASS-11773	Experiment for satellite and material recovery from orbit	June 30, 1964	149,600
International Business Machine, Rockville, Md	NASS-11974	Development of room temperature coherent gas laser arrays	June 30, 1965	149,454
Avco Corp., Everett, Mass.	NASS-20310	Study of plasma radiation shielding	Mar. 24, 1966	149,031
ITT Research Institute, Chicago, Ill	NASS-20325	Study vibration induced in thin-walled pipes under varying flow conditions	Apr. 20, 1966	148,251
North American Aviation, Canoga Park, Calif.	NASS-20143	Study of pump discharge pressure oscillations	June 30, 1965	147,316
Varian Associates, Palo Alto, Calif.	NASS-16969	Magnetic resonance spectrometer system	Nov. 30, 1965	146,622
ITT Research Institute, Chicago, Ill	NASS-20363	Material preparation and instrumentation for welding S-IC component	Nov. 25, 1966	145,693
General Electric Co., Philadelphia, Pa.	NASS-11423	Study of low acceleration space transportation systems	June 30, 1964	145,359
California, University of, Berkeley, Calif.	NASS-20287	Research on motions of artificial satellites	Nov. 16, 1965	144,472
General Dynamics, San Diego, Calif.	NASS-18754	Digital/TV generator	June 30, 1966	144,329
Ling-Temco-Vought, Anaheim, Calif.	NASS-18296	Acoustic data acquisition system	do	144,200
Kollsman Instrument, Syoset, N.Y.	NASS-20132	Optical system for Apollo extension system	June 24, 1965	144,000
Cutler-Hammer Inc., Deer Park, N.Y.	NASS-20604	Improvement in control of automated stage checkout test conductor date system study	Mar. 2, 1966	144,000
Douglas Aircraft Co., Long Beach, Calif.	NASS-20318	Research study on vehicle structural damping	May 9, 1966	143,379
Garrett Corp., Los Angeles, Calif.	NASS-11291	Research study instrument unit thermal conditioning heat sink concepts	Mar. 11, 1966	143,134
Rohr Corp., Chula Vista, Calif.	NASS-11955	Research and development program, bonded cylindrical structure	June 24, 1965	142,225
Georgia Technical Research Institute, Atlanta, Ga.	NASS-2473	Development of new methods and applications to analog computations	Sept. 12, 1961	140,350
General Dynamics, San Diego, Calif.	NASS-20165	Development analytical methods of predetermining residual cryogenic propellant behavior orbital vehicles	June 10, 1965	140,220
Baker Thompson, Inc., Decatur, Ala.	NASS-17894	Atmospheric Research Building 4614	May 25, 1966	139,966
United Aircraft Corp., Windsor Locks, Conn.	NASS-20630	Nondestructive testing space application feasibility and preliminary design study	June 21, 1966	139,930
Georgia Technical Research Institute, Atlanta, Ga.	NASS-20054	Investigation of techniques of improving Saturn radar altimeter	Apr. 19, 1965	139,852
TRW Inc., Redondo Beach, Calif.	NASS-20314	Design criteria for flight evaluation	June 22, 1966	139,750
General Electric Co., Philadelphia, Pa.	NASS-11207	Study of electrically propelled cargo vehicle, lunar supply operations	June 3, 1964	139,660
Systems Engineering Lab, Inc., Ft. Lauderdale, Fla.	NASS-17699	Plotter interface system	Mar. 31, 1966	138,840
Oklahoma State University, Stillwater, Okla.	NASS-20052	Design analysis performance evaluation on Electrical contacts for space vehicles	Feb. 1, 1965	138,481
Dynamics Research Corp., Stoneham, Mass.	NASS-11890	Transducer with direct digital output pressure transducers with digital output	Apr. 26, 1965	138,044
Sylvania Electric Products, Williamsville, N.Y.	NASS-20589	One prototype 100-milliwatt Ka band solid state transmitter/driver	June 22, 1966	137,072
Northrop Corp., Newburg Park, Calif.	NASS-11400	Shielding vortices subsonics flow around rigid cylinder	June 27, 1964	136,214
Martin-Marietta Corp., Denver, Colo.	NASS-20224	Optimization of thrust vector control systems	June 17, 1965	136,212
Lockheed Aircraft, Sunnyvale, Calif.	NASS-20353	Research study, high performance insulation thermal design criteria	Mar. 25, 1966	136,100
Shock Hydrodynamics Corp., Sherman Oaks, Calif.	NASS-20235	Theoretical studies of hypervelocity impact	June 29, 1965	135,910
Hughes Aircraft Co., Los Angeles, Calif.	NASS-20601	One prototype Ka band power amplifier	June 7, 1966	135,572
Bendix Corp., Baltimore, Md.	NASS-20582	Absolute type pressure switch	June 28, 1965	135,453
Russell Engineer Works, Boston, Mass.	NASS-18649	Sonitrailer	June 30, 1965	135,246
Electronic Communications, St. Petersburg, Fla.	NASS-11917	Design and construction of	do	135,246