

THE CHRONICLE-TELEGRAM

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Elyria, Ohio

Ohio industries get small share of NASA contracts

CLEVELAND — California and Ohio industries were awarded almost all major contracts let by the National Aeronautics and Space Administration's Lewis Research Center during March for space research and development programs.

In all, approximately \$10 million in contracts were let last month and as usual, California's sprawling aerospace facilities will deliver the majority of the equipment and study reports ordered. The West Coast state was awarded \$8,254,318 of the total; Ohio's share was \$1,028,313, and all other parts of more than \$25,000 for the month . . . a total of \$625,815 . . . were divided among five other states and the District of Columbia.

Ohio contracts

Ohio contracts included a \$47,762 pact to Harshaw Chemical Co. in Cleveland for development of larger cadmium-sulfide solar cells and \$49,021 to Adache Associates, Inc., also in Cleveland, for modernization and reconditioning of Plum Brook service facilities.

Other orders to Ohio firms included \$134,500 to Bay Construction, Inc., in Sandusky for labor, materials and service needed to construct foundations and do excavation, paving, and grading for the nuclear rocket and dynamics

control facility at Plum Brook; Rudolph-Libbee, Inc., Walbridge, \$226,000 for construction of a control room addition to the B-1 control building at Lewis; \$300,000 to General Electric Co. in Cincinnati for development of a 30 kilowatt, three-phase AC arc jet propulsion system.

Northeast Ohio Machine Builders, Inc., at Columbiana, will construct a gas storage assembly for \$34,970; Consolidated Vacuum Corp., Columbus, will provide six oil diffusion type vacuum pumps and six pump baffles, less the outer shells, for a total of \$42,980.

3 eligible for fireman vacancy

A certified eligibility list of three names for fireman Class B was submitted by the Civil Service Commission to the office of Mayor Charles V. Neeson today.

One vacancy exists and a candidate from the list is expected to be appointed next week by Joseph C. Cowden, safety-service direc-

and the N. J. Goulandris Construction Co. at Bedford Heights won a \$194,500 contract for service, labor and materials to construct a temporary office addition to an existing procurement and supply building.

American Brake Shoe

American Brake Shoe Company's Cambridge, Mass., plant will provide pressure transducers for \$31,122; Thiokol Chemical Corp., Denville, N. J., was awarded a \$375,000 contract for the investigation of an oxygen-difluoride - diborane propellant combination; United Nuclear Corp., in White Plains, N. Y., was awarded an \$86,363 pact for experiments to determine the thermal conductivity of high-temperature hydrogen; a \$28,450 contract went to General Services Administration in Washington, D. C., for telapak service and Pittsburgh-Des Moines Steel Co. in Pittsburgh, Pa., won a \$104,880 contract to provide structural modifications to a space power chamber in the altitude wind tunnel.

California contracts include:

\$2,143,900 to Kaiser Engineering Division, Kaiser Co., Oakland, to design space environment facilities for Plum Brook; \$1,931,000 to the U.S. Air Force at Los An-

geles for additional Atlas launch vehicles; Aerojet-General Corp., Sacramento, \$3,000,000, for additional facilities for development and testing of the M-1 engine and \$600,000 for M-1 development using present, initial-stage facilities.

Other California contracts

Varian Associates at Palo Alto, \$44,000 for ion type vacuum pumps with control units; General Dynamics-Astronautics at San Diego, \$260,000 for service, materials and equipment to be delivered to the Atlas - Centaur launch facility at Cape Canaveral; Johnston Pump Co. at Pasadena, \$32,505 for a reactor loop shut-down pump.

Regco, Inc., at Alhambra, \$46,800 for a power supply system; Temescal Metallurgical Co. at Berkeley, \$30,638 for columbium 1 per cent zirconium forms; Hughes Aircraft Co. at Malibu, \$26,275 to provide a quantitative estimate of the reliability of power for SERT-I mission and the Stanford Research Institute at Menlo Park, \$139,000 for personnel material, equipment, and facilities to perform engineering studies on ozone fluoride and solutions of it in liquid oxygen.

All contracts in the March allocation from Lewis totalled \$9,908,946.