



Picture Story No. 716

PEACEFUL SPACE EXPLORATION -- U.S. PROGRESS AND PLANS

Part III - "Research and Development"

During its short lifetime, the United States space program has accelerated rapidly to keep pace with man's desire to investigate and travel far beyond his planet. Since the National Aeronautics and Space Administration was established in 1958, the nation's resources in science and technology have been marshalled for the tremendous task of research and development that has led to progress in exploration. Today, the program -- diversified, complex and costly -- is nationwide in scope. Men and women in every-known field of science and the work force in thousands of factories are participating in a vast effort to acquire knowledge of space and to use space for beneficial purposes. A few of the scientific and technological details of this effort are shown in this group of photographs.

12-16 A technician uses a new method called "black light" to examine metal parts for impurities. The unique conditions in space require the highest-quality of metals available and new metal developments. Inspection and testing are vital steps in the production of all materials, both new and conventional, used to build rockets, satellites, probes and all the equipment in the vehicles launched into space. (62-2629)

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Science: Astronautics (Research)

Un técnico utiliza un nuevo método, llamado "luz negra", para examinar las piezas de metal en busca de impurezas. Las condiciones únicas del espacio requieren la más alta calidad de los metales de que se dispone y una nueva evolución en la producción o perfeccionamiento de los mismos. Inspección y prueba son etapas vitales en la producción de todos los materiales, tanto nuevos como convencionales, utilizados para construir vehículos espaciales, satélites, sondas y todo el equipo de los vehículos destinados a ser lanzados al espacio.

