

Boeing Is in Space Age to Stay; Has Two Billion Backlog

Firm Pioneer In Jet Field

By ROBERT L. TWISS
Aviation Editor, The Times

The Boeing Co., long noted as a producer of strategic weapons, now manufactures a variety of commercial and military products in keeping with rapidly changing technology. Boeing is in the Space Age to stay.

Its backlog of military and commercial orders is estimated at \$2,000,000,000.

Boeing activities are more widespread now than at any time since the pioneer firm was formed in Seattle in 1916.

Boeing employees work at such scattered sites as Cape Canaveral, Fla.; Vandenberg Air Force Base, Calif.; the Minuteman assembly plant at Ogden, Utah; Marshall Space Flight Center, Huntsville, Ala.; Michoud Ordnance plant, New Orleans, and the Vertol division, Morton, Pa.

THE PRODUCTS have changed, too. Boeing's early years were devoted to the design, engineering and production of both military and civil aircraft—trainers, fighters, flying boats, mail planes and passenger planes.

Boeing turned sharply to larger aircraft in 1931 with the B-9 bomber. Then came such machines as the Model 247, a pioneer high-speed airliner; the B-17 Flying Fortress; the B-29 Superfortress and, after the Second World War, the B-47 and B-52 multi-jet bombers.

Developed in 1945 as the first turbine-powered, swept-wing aircraft, the B-47 Stratofortress became the antecedent for jet bombers, aerial tankers, transports and air liners now being produced by the pioneer firm.

PRESENT, diverse projects include the eight-jet B-52H missile-carrying bomber, a Wichita, Kas., branch project; KC-135 and G-135 jet tankers and transports and Models 707, 720 and 727 commercial jet liners, in production at the firm's transport division, Renton, and the Minuteman intercontinental ballistic missile; Dyna-Soar space glider and Bomarc interceptor missile, in development or production by the firm's aerospace division.

This division has its headquarters in Seattle. Small gas-turbine engines are being produced by the firm's industrial-products division, Seattle, and a hydrofoil anti-submarine patrol vessel is under construction by Boeing at a Tacoma shipyard.

THE FIRM'S Vertol division, which produces rotary-wing aircraft, is concentrating on manufacture of turbine-powered helicopters for both military and commercial assignment.

A major new effort Boeing has under way is development of the S-1C stage of the Advanced Saturn space booster. This huge project calls for developing a booster developing a total of 7,500,000 pounds of thrust.

Linked with upper stages,

in development by other manufacturers, the Saturn S-1C will help carry manned space craft to orbital altitudes and, if the space-rendezvous technique is used, it will power the three-man Apollo space vehicle on missions to the moon.

THE MINUTEMAN program, which has been described by high-ranking military and Defense Department officials as this nation's most important single strategic system, has posed a staggering challenge to Boeing employees.

The Minuteman, a solid-fueled I. C. B. M., is designed for launching from concrete-protected, underground launching tubes in the event of hydrogen-bomb war. The weapon carries a nuclear warhead and is capable of ocean - spanning flights of more than 6,300 miles to reach targets.

The Dyna-Soar space-glider program is a preview of the future. This system, being designed strictly for research, is a combination of missile and airplane designed to hurl a glider to orbital velocities of nearly 18,000 miles an hour.

The dart-shaped, jet-black glider, to be hurled to orbital speeds by a Titan 3 space booster a few years hence, may evolve into a space-borne defense system or even an orbital strategic system.

DYNA-SOAR has been described by one top Air Force official as the most important single research-and-development program the Air Force has under way.

Boeing, like other major aerospace-industry firms, is looking ahead, too.

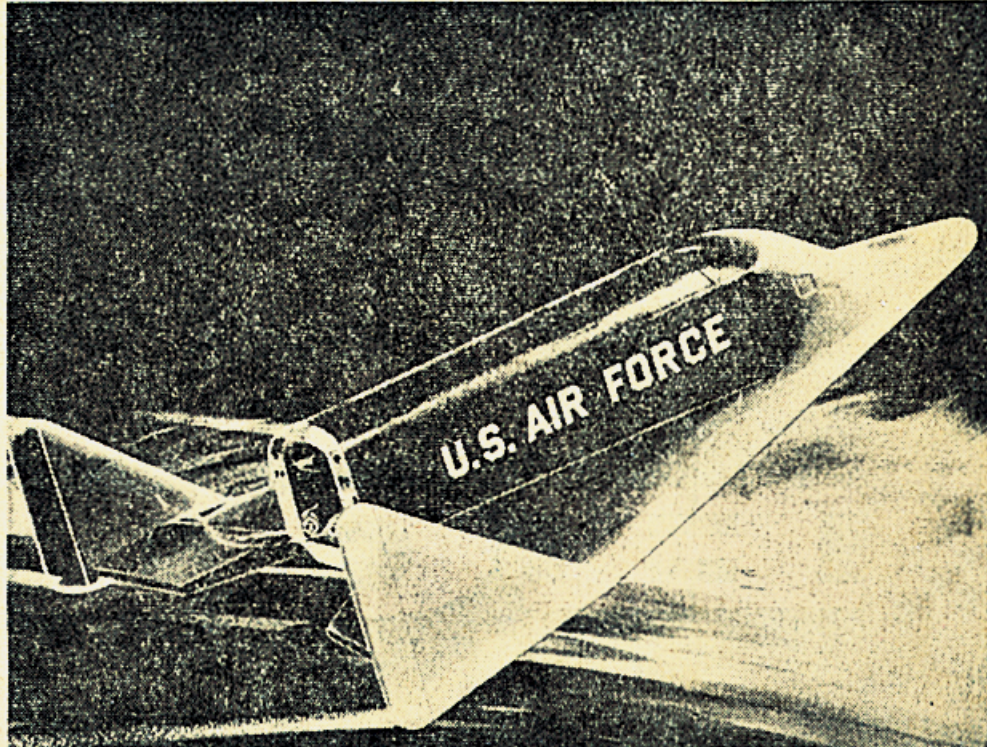
The Seattle firm is engaged in a variety of research studies, including those on supersonic transports, space-rendezvous and satellite-reconnaissance systems, large rocket boosters and advanced missiles.

Basic research is a function of the Boeing Scientific Research Laboratories in Seattle.

Boeing has more than 60,000 employees in Washington State, most of them in Seattle and nearby Renton.

Hence its activities constitute a powerful force for the economy of the entire Pacific Northwest.

With larger space-research budgets in the offing, Boeing and other aerospace firms are expected to be committed heavily in the years ahead to helping this nation in its ascent into space.



SKETCH SHOWS HOW DYNA-SOAR WILL HEAT UP DURING RE-ENTRY
Fiery trail of superhot air builds up around space vehicle

Rainier Nearly A Fair Booster

Mount Rainier almost, but not quite, was called upon to boost the fair.

Fair publicists suggested planting a 21-foot model of the space Needle on top of the 14,000-foot mountain. Mountaineers howled their protests. But the publicity did not hurt the fair.

Dingwall Sees Need for Beauty

When Ewen Dingwall, fair manager, was chided for permitting Las Vegas-type shows on the fairgrounds, he replied: "An electronics device is no substitute for a beautiful woman."

Tax Revenue Envisaged

Washington State economists have estimated the fair will bring \$20,000,000 in increased tax revenue this year — mostly from sales and gasoline taxes.

Radios to Keep Fair Patrolmen In Close Touch

Two-way radios, no larger than a cigar box, will keep police patrolmen walking World's Fair beats in touch with precinct headquarters in the National Guard Armory.

Lieut. L. J. LaPointe will head a special 61-member World's Fair police force. Ten plainclothes officers and two policewomen will take care of pickpockets, bunco artists and lost children.

Home-Owning High

Four fifths of Seattle families own, or are buying, their own homes—and the rate is increasing steadily. The total is one of the highest in the United States.

HOWARD REIQUM

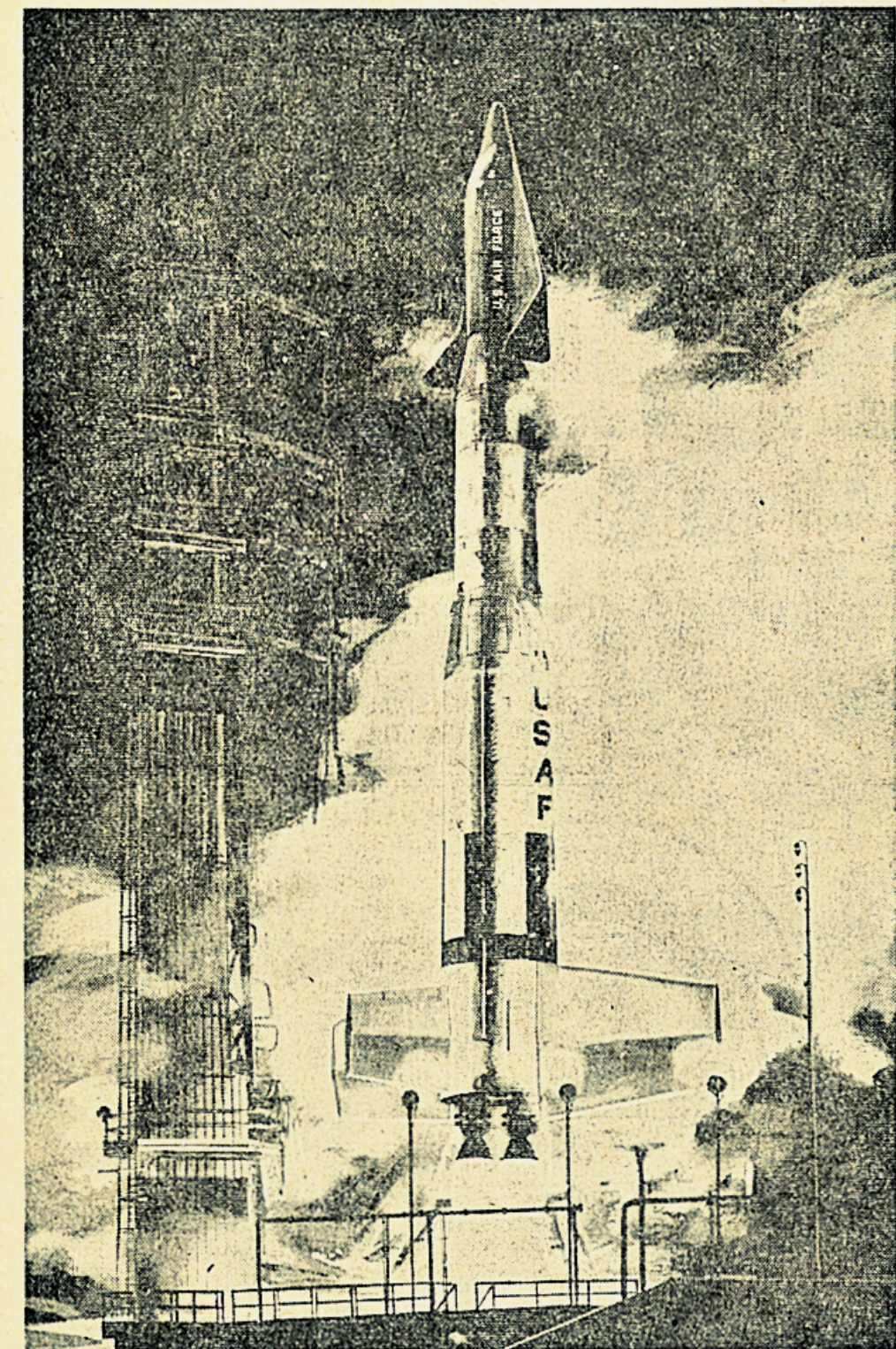
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DYNA-SOAR MANNED SPACE GLIDER ON LAUNCHING PAD
Artist's sketch shows Boeing device atop Titan missile

Many Seattle-Area Economic Records Likely in 1962

This year will see many economic records registered in the Seattle area. Some of the record-setting started last year.

Beginning last May employment in the Seattle Metropolitan Area — King and Snohomish Counties—each month has topped marks of the corresponding month a year previously.

And beginning last August a new all-time high has been set for each month.

JANUARY of this year, normally the year's lowest month for job opportunities, reported employment of 441,400, up 27,700 from the 1961 mark and topping by 18,800 the best previous January figure, scored in 1959.

As February and March figures became partly available, it appeared likely that the 1962 annual job average may run 30,000 to 40,000 above the previously recorded high.

In January also, Seattle bank clearings set a record for a single month—\$1,122,882,452. This topped by a whopping \$172,000,000 the January, 1961 figure of \$949,930,195.

BANK operations, like general employment, progressed throughout 1961. Last December saw clearings reach \$1,092,253,366—a record that lasted only until the January, 1962, figures were in.

The Seattle area has learned to expect that each year will produce an increase in the operations of its electric, gas, water, telephone and other utilities, even when national economic skies are clouded.

And as usual the utilities in this area produced records in 1961 in the face of nation-wide recession conditions during the year's earlier months.

CITY LIGHT'S Seattle - area load last year totaled 4,369,202,000 kilowatt-hours. The 3 per cent increase over 1960 was a smaller gain than expected, partly because of daylight-saving and above-normal temperatures.

But 1962 started with a bang. The January load was 452,938,000 kilowatt-hours, a new high for any single month. It topped the January, 1961, mark by a booming 10.9 per cent.

The Bell system last year saw the 1,000,000 - telephone mark reached and passed in the Washington-Northern Idaho area in which the recently organized Pacific Northwest Bell Telephone Co. now operates.

THE GAIN was from 986,527 as 1961 began to 1,042,047 as the year ended. Of the 55,520 increase, 22,515 was recorded in Seattle.

The Puget Sound Power & Light Co., which serves the fast-growing area east of Lake Washington in 1961, reported records in several categories.

Other utility companies and public-utility districts likewise marked up new highs in electric sales in 1961.

The Seattle postoffice last year set an annual record. It ended 1961 with a new high in receipts for a single month — \$2,390,928 in December,

Fair Souvenirs Run Gamut

World's Fair souvenirs run the gamut from the sublime to the slightly ridiculous. Most are keyed to the Space Needle—including Space Needle corn-on-the-cob holders, Space Needle toothpaste holders and Space Needle glue dispensers.

Population Centers

Nineteen counties of Western Washington have 37 per cent of the state's land area of 66,709 square miles, but 72 per cent of the population of 2,853,214.

Artist's Concept of Moon Colony



This artist's concept of a "moon colony" is one phase of the Boeing Company's program for astronomical research and scientific experiments in space. The development of foods of the future will undoubtedly play an important role in reaching this goal.—Boeing Photo.

MEMO . . .

The men and women of Puget Sound Bridge & Dry Dock Company are proud to be part of the growing Pacific Northwest.

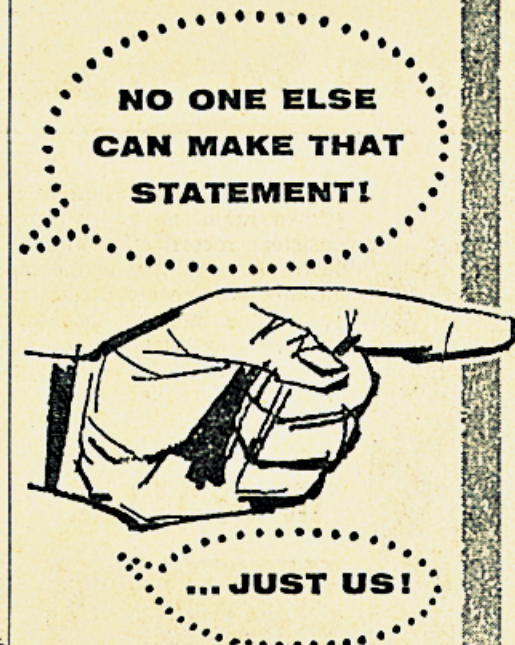
As a major employer in Seattle, we have, over the years, contributed substantially to the economy of this area and feel that our Company is an important factor in the community and the nation's defense program.

We salute the Seattle World's Fair as a magnificent symbol of peaceful progress.

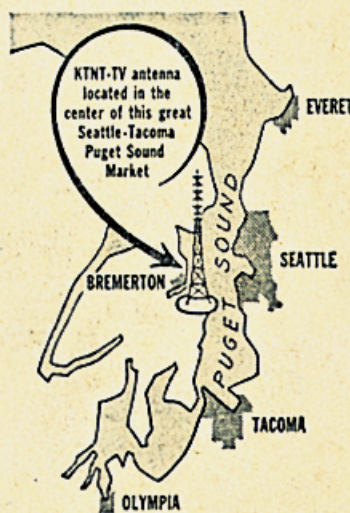
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If you buy television advertising in the Pacific Northwest, or if you watch TV in the Puget Sound area, consider these facts:

Only KTNT-TV... no other TV channel... covers Western Washington's five major cities (Seattle, Tacoma, Everett, Bremerton and Olympia) in its "A", or Primary Contour. KTNT-TV's powerful antenna is strategically located in the center of the Puget Sound area, beaming a strong and clear signal to all of this important market.

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