

# Tiny Atomic Batteries To Run Guided Missile Equipment Forecast in Report

By JOSEPH L. MYLER  
United Press Correspondent  
Washington — The government today forecast tiny atomic batteries powerful enough to run "equipment in guided missiles and space craft."

Missiles and "space craft" themselves may some day be driven by nuclear engines if research now going on bears fruit. The prediction of space craft batteries was made in the Atomic Energy Commission's 22nd semi-annual report.

The report said "advances were made in all major programs—weapons, power, ship propulsion, atoms-for-peace, research, and production of nuclear fuels and explosives. It also:

—Confirmed that the current Nevada tests are aimed at perfecting atomic weapons "with minimum fallout"—presumably smaller and thus radioactively "cleaner" atomic triggers for the big H-bombs tested in the Pacific.

**10 Year Supply**  
—Reported that "a 10-year uranium supply is in sight." That means enough raw material for the weapons, power, and international atoms for peace program "as projected for the next 10 years." The United States still is the free world's biggest uranium producer and will be "for some time to come."

—Said new experiments indicate that certain treatments can reduce radiation damage to germ cells and thus diminish the threat posed by radioactivity to future generations.

—Claimed that industrial and other private atomic research hit "an all-time high" in the past six months.

**Five Kinds Developed**  
The report said that five different kinds of atomic batteries

have been developed. They convert rays from radioactive materials directly into electricity. The most recent, smaller in diameter than a dime, will run a wrist watch more than five years.

"Although not available for everyday use," the AEC said, "larger future models of the battery are expected to power portable radios, hearing aids, and equipment in guided missiles and space craft."

The power from such batteries is tiny compared to the amount it would take to propel the missiles and space craft aboard which they might be used. But the AEC said it is continuing work "relating to the application of nuclear power to rocket and ramjet engines." It gave no progress report, however.

Concerning weapons, the commission emphasized atomic arms "for defense against attack." It said it is stockpiling such weapons and also is developing others "employing new design principles which can be used more effectively for defensive purposes."

In addition to testing weapons with a minimum of radioactive fallout in Nevada, the AEC also is studying the possibility of exploding atomic bombs in such a way that they could not be detected by means of any telltale radiation.

This could be done by detonating them so far underground that no radioactivity would reach the surface. One deep underground shot will be fired in Nevada.

**Can Modify Damage**  
Radiation causes gene mutations in living things, changing the hereditary pattern of all subsequent generations, almost always for the worse. Experimenters at Oak Ridge

found they could modify genetic damage in one-celled animals by use of certain drugs after irradiation. The AEC said the experiments show that:

"For an appreciable time after irradiation at least part of the mutation process is not irreversible, and that during this time, the radiation damage that leads to mutation can be reversed."

## Atomic Committee Approves Program For Defense, Peace

Washington — The Joint Congressional Atomic Energy committee has approved a \$259,230,000 atomic program for defense and peace.

But it also gave the administration a double rebuff in taking two steps opposed by President Eisenhower. They are:

—Authorized a \$58 million program to speed production of atomic power. The program features a \$40 million gas-cooled reactor using natural uranium, a type highly touted by the British but not slated for construction by the Atomic Energy commission at this time.

**To Require Authorization**  
—Retained in another bill a provision to require specific congressional authorization for each package of nuclear material given to the international atoms for peace agency.

Rep. Chet Holifield (D-Calif.), who headed the subcommittee that drafted the main bill, said the extra money was added to rescue the AEC's "bankrupt" power program.

AEC Chairman Lewis Strauss promptly issued a statement calling Holifield's remark "contrary to the facts." He said this nation is "without any close ri-

val anywhere in the world" in the field.

The President Monday formally signed the necessary documents to bring the atoms for peace agency into being. The committee included its restriction in a separate act outlining procedures under the treaty.

One source said the proposal, sponsored by Sen. John W. Bricker (R-Ohio), was approved by a vote of 10 to 5. State Department spokesmen said the restriction was cumbersome but the administration could live with it.

**Joint Development**  
In acting on the program authorization bill Tuesday, the committee approved a \$149,915,000 program under which the government joins with private organizations to develop nuclear power reactors.

Besides the gas-cooled reactor the additional \$58 million voted by the committee also would finance a \$15 million experimental reactor designed to "recycle" the plutonium which is made in power reactors. It also would authorize a \$3 million dollar design and development study for a large plutonium production reactor.

## Facts Given on Prospects If Giants Come to 'Frisco

By HAL WOOD  
United Press Sports Writer  
San Francisco — Some facts and figures for Horace Stoneham when and if he brings the New York Giants to San Francisco for the 1958 baseball season:

Item 1: When San Francisco had minor league football, a "big" day at the ball park was 12,000. A record was 15,000. Today, with major league football attendance often runs close to 60,000, and a "bad" day attendance will still run around 35,000.

Item 2: The San Francisco Seals baseball team plays to about 3,000 average for week-day or night games, 10,000 to 15,000 on Sundays. If major league baseball brings as big a percentage increase as did major league football, Stoneham can expect about 12,000 in the park during each week-day game; about 50,000 on Sundays.

**A Big If**  
Item 3: San Francisco holds the all-time minor league attendance record for one season—670,563, set in 1946 when the team won the pennant. If major league baseball would quadruple that when and if the Giants win a title, the attendance should run around 2,800,000.

Item 4: San Francisco holds the all-time minor league record for a single series attendance: 111,622 for a seven-game series with Oakland in 1946. The rivalry this time would be with Los Angeles and should be accordingly stronger.

Item 5: Things can get tough in the West, too. The all-time record for low attendance at a Pacific Coast league game was set in Portland, Ore., vs. Oakland in 1905. Paid attendance: one (1).

Item 6: Although the Seals appear headed for the PCL pennant this year, San Francisco fans have supported some miserable efforts in the past. In fact, S. F. has won only two pennants in the last quarter of a century. So they won't expect miracles from Stoneham & Co.

**Good For Majors**  
Item 7: The Pacific Coast league attendance record for the eight teams was set in 1947, with 4,068,432. That's a minor league record and compares favorably with the major leagues. In the days when all baseball was played in daylight, the league record was 2,235,510 — set in 1924.

Item 8: If you can't make it off the gate receipts, you might make a fortune off the concessions. While the national average for seat cushion sales is one for every five persons who enter a park, the average in San Francisco is one for every two fans.

Helps keep them warm in the cool (cold) local night air, they claim. And instead of pop and ice cream, local fans eat bundles of hot dogs, beer and coffee—also to keep warm.

## SPORTS

### Pro Hearings Continue

Washington — A House anti-trust subcommittee hears more on the players' side of the case today in its investigation of professional football.

Creighton Miller, lawyer for the National Football League Players Assn., was slated to lead off testimony as the subcommittee's hearings on professional team sports entered the next-to-last week.

Miller was to be followed by George Ratterman, former player for the New York Giants, Montreal Alouettes and Cleveland Browns; Norm Van Brocklin, players representative for the Los Angeles Rams; and Kyle Rote, player representative for the New York Giants.

The subcommittee, which already has finished hearings on organized baseball, hopes to wind up football Thursday when NFL commissioner Bert Bell and Chicago Bears owner George S. Halas will appear.

Subcommittee chairman Emanuel Celler (D-NY) said the group will turn to professional basketball and hockey next week and he expects that will complete its investigation.

### Former ND Stars With B.C. Team

Portland — Three former Northern Division players will see action here Friday night for the British Columbia Lions when they clash with the Edmonton Eskimos in an exhibition Canadian professional football game. Emery Barnes, the ex-University of Oregon end, is playing right tackle for the Lions and Dick Foster, former Idaho star, is at the other tackle. Byron Bailey, Washington State, is a left halfback.

Edmonton brings a strong squad headed by Johnny Bright and Jackie Parker, ex-American speedsters from Drake and Mississippi State.

Paul Cameron, former UCLA all-American, also is in the British Columbia backfield.

North Carolina has more Indian residents than any other state lying east of the Mississippi river.

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## Women's Golf

First round matches in the Women's Club championship at the Rogue Valley Country club have been played with medalist Helen Davies winning over Margo Collins, 4 and 3.

Rose Bunch won her match with Grace Reymers, 3 and 1, while Maxine Hammond beat out Ruby Elbert, 3 and 2. Other winners in the championship bracket were Jean Finch over Ruby Schneider, 3 and 1; defending champion Sue DeVoe over Blanche Frisbie; Corrine Miller over Isabel Sickels, 3 and 2; Bell Schenck over Florence Culbertson, 1 up on the 22nd hole, and Evelyn Tamney winning out over Lois Walker, 3 and 2.

In the second flight, Mrs. Clayton Lewis won over Mrs. Dean Lambert, 2 and 1; Mrs. William Blackledge defeated Mrs. Frank Benesh, 1 up; Mrs. William Schei defeated Mrs. Sam Colton, 1 up; Mrs. Lee Fink defeated Mrs. Dick Knight; Mrs. William Clark defeated Mrs. W. L. Stark; Mrs. William Ruffner defeated Mrs. Ted Groomes, and Mrs. Jack Eidswick defeated Mrs. John Day. The last three winners came in with 1-up victories. Mrs. Ed Milne won over Mrs. C. E. Gordon by default.

In the fourth flight, Mrs. Tom Harnsberger won over Mrs. Ray Sorenson, 1 up; Mrs. Wayne Saffley defeated Mrs. B. D. Mitchell, 1 up; Mrs. Floyd Somers won over Mrs. L. C. McLaughlin, 6 and 5, and Mrs. W. F. Cowning defeated Mrs. Reese Alexander, 1 up, on the 19th hole.

In the nine hole championship group, Mrs. L. W. Buonocore defeated Mrs. Doris Scroggins; Mrs. Harriet Pyle defeated Mrs. I. Sanner by default; Mrs. Nicoletti defeated Mrs. T. W. McFadden; Mrs. Robert DeLorme drew a bye as did Mrs. William Knoppe and Mrs. John Raapke; Mrs. Ralph Barclay defeated Mrs. D. H. Adams, and Mrs. Paul Haviland defeated Mrs. H. G. Dawson.

Championship flight first round losers will make up the first flight and both of these flights will play without handicaps. All other flights play with handicaps. The next round of matches will be played off by Aug. 7.

**HUSBAND DUCKS: PERIOD**  
Stanton, Mich. — Mrs. Nancy Lucas of Stanton was on 90 days probation today because her sim was poor. Mrs. Lucas threw an ink well at her husband, Glenn, in the county sheriff's office but missed and splattered the wall of the police station with ink.

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