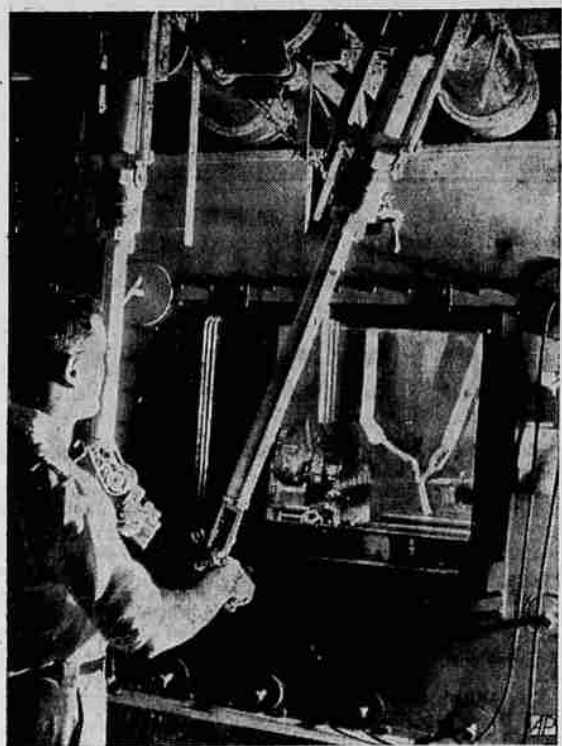




SAFETY FIRST IN ATOM PLANT—Technician John Burnham Jr., uses mechanical hands to manipulate a radio active sample in a "hot cell" at the Atomic Energy Commission's National Reactor Testing Station in southeastern Idaho. The operator is looking through a heavy protective window. Materials for such possible commercial uses as tracers, as well as experiments for the Argonne National Laboratory, are irradiated at the reactor plant.

Ike's Team Wins In 19 Big Battles

WASHINGTON (AP)—President Eisenhower's team won 19 and lost only seven major legislative contests in the Congress which ended Friday but whether it gets the political pennant depends on the Nov. 2 playoff at the polls.

After a session that ground out nearly as many bills in August as in the previous seven months, Eisenhower's lieutenants contended they had enacted the "dynamic, progressive program" the President had advanced as the major issue in the fight for control of the new Congress.

'HOLLOW'

Democrats replied that some of the Eisenhower victories were politically hollow and others were attained only with their help. They said the net result would contribute to their attempts to win a majority in both houses.

The controversial farm bill hammered through Congress with White House pressure could be crucial.

Some politicians regard it as the one issue most likely to determine which party takes over on Capitol Hill next January, or whether there is a division of control with one House Democratic and the other Republican.

This issue involves substitution of the system of flexible price supports favored by the President for rigid, high level props under basic field crops.

AS A SAMPLE . . .

As a sample of how Republican and Democratic candidates will meet the issue, Sens. Ferguson (R-Mich) and Humphrey (D-Minn) gave a newsman previews of what they intend to tell the voters in their states.

Ferguson, who heads the Senate Republican Policy Committee, said he is going to call the attention of the farmers to the fact that rigid, high level supports were "born out of war and the necessity to produce food and supplies for our allies."

"Now we have to get back to

a peacetime farm program, one of flexible price supports in which we can dispose of our surpluses in such a way as not to destroy the farmers' income.

A LITTLE STORY

"We intend to give the farmers freedom from restrictions on their operations and parity without huge surpluses hanging over their heads."

Humphrey said he intends to tell Minnesota voters "this little story that I think illustrates this Republican administration's philosophy:

"Secretary of Labor Durkin, who asked the President to keep his campaign commitments to labor, resigned when those promises were broken. Secretary of Agriculture Benson who counseled the President to break his commitments to the farmers, is still in the Cabinet."

\$18 Million Pile of Concrete

Idaho Reactor Unveiled

By RENNIE TAYLOR
Of The Associated Press

IDAHO FALLS, Idaho (AP)—Some of the workings of the world's fastest atomic reactor were disclosed Saturday after more than two years of secret operations.

Although the achievements of the 18-million dollar pile of concrete and complicated machinery are spectacular in a scientific way, they have to do more with the atom of the future than with immediate problems in that field.

Specifically, the high-powered instrument is spelling out for nuclear scientists some of the things they can and cannot do when they build the reactors of the future — the atomic ovens which are being counted upon to make power cheap and plentiful everywhere.

ONE OF FIVE

This instrument is called the materials testing reactor (MTR). It is one of five main installations at the Atomic Energy Commission's National Reactor Testing Station on a desolate sagebrush-covered plain 55 miles west of here.

It was shown for the first time Friday to newsmen in an AEC-conducted tour.

Although the heart of the MTR — the part which contains enriched uranium as fuel — is only about the size of two large suitcases, it can produce radiation faster than anything else on earth except an atom bomb or a hydrogen bomb.

This charge of uranium runs the reactor for two to three weeks, producing astronomical numbers of neutrons, which are the most important particles in atom smashing.

But even after the charge is "spent" and removed from the reactor it radiates enough X-rays to kill 40,000 people in one hour if they could be brought close enough to it.

NEUTRON FACTORY

So intense is the radiation inside the pile that it would turn a clear glass bottle almost black in three minutes. Steel becomes brittle when left in the beam of the radiation. Flexible plastics turn inflexible.

Tests such as these are telling scientists what materials will be needed and how they can be used to build reactors that will withstand the terrific and continuous onslaught of radiation in power installations of the future.

The tremendous output of neutrons from the MTR tops everything previously reported—500 trillion per hour, compared to 50 trillion produced by the Canadian heavy water reactor at Chalk River, Ontario, Can.

This fantastic number is of

great value to scientists because they will be dealing also with huge numbers of neutrons when they build more reactors, and it is the neutrons which are responsible for the radiation that might destroy their installations unless they plan carefully now against the known possibilities.

KEEPS ITSELF COOL

Another strange thing about the MTR is the terrific job it does in keeping itself cool. The temperature at some spots inside the uranium fuel charge reaches the tens of millions of degrees, yet the water which cools it never goes above a lukewarm 111 degrees.

The reason for this is the enormous amount of water used. It pours down a tube six feet in diameter and swirls past the hot core at the rate of 20,000 gallons a minute. It comes from the nearby Snake River.

GRAPHITE SCREEN

Another thing that helps to carry the heat away from the fabulously hot core is a surrounding bank of graphite, some of it formed into little spheres through which great quantities of filtered air are pumped.

The graphite not only serves

as a screen for the air but also slows down many of the neutrons which escape from the core and its surroundings. These neutrons vary greatly in speed and energy. They are piped off to various places in the reactor in the form of neutron beams, each with a different energy rating.

Scientists from many institutions put materials into these beams for testing. The materials are left there for minutes, days, or even weeks, depending on what the scientist is trying to prove.

To guard against any possibility that the hot core of the reactor would get out of control a whole array of complicated regulating devices is installed. The main controls are rods made of the metal cadmium which when inserted into a fiery uranium core can stop the reaction quickly.

AWAY FROM PEOPLE

One of the reasons why the MTR was out far away from population centers was the possibility of a slipup, which if not caught instantly would result in a low-grade atomic explosion.

The elaborate system of controls and the shielding which protects the working personnel require for the two-suitcase uranium charge a concrete cube about 32 feet on each side, hollow inside to contain the uranium charge and the controls and other equipment.

This leaves the walls of the cube nine feet thick. The concrete is of very high density and weighs 3,000 tons.

The MTR was built for the AEC by the Phillips Petroleum Co. and was put into operation on March 31, 1952.

Play Draws Big Crowd

ASHLAND, Ore. (AP)—"The Merry Wives of Windsor" attracted a record crowd of 1,032 persons to the Shakespearean Festival here Friday night. The previous high was 946 persons at a performance of the same play Aug. 7. The play has never failed to draw at least 800 persons to each performance here.

\$18-MILLION WIRE DEEPLY REGRETTED

QUONSET POINT, R. I. (AP)—

The Navy threatened Saturday to court martial a sailor who announced he had received a telegram saying he had inherited \$18,000,000.

The sailor, Gary L. Stone III, said the telegram was just a publicity stunt worked out, without his knowledge, by a press agent.

In a statement to his superior, Stone said the press agent was trying to get publicity for him to further his career as an actor.

Stone identified the press agent as a "personal friend"—John Porter, New York City, in the statement. Stone said the sending of a telegram informing him he had inherited the money from a great aunt was "without my knowledge or consent."

Navy authorities said Stone talked to Porter Saturday morning and he "admitted" sending the wire. But when officials tried to contact Porter, "he had left for the weekend." No street address or further information was available about Porter, a Navy spokesman said.

However, unless he is found and substantiates Stone's story, Stone will be court martialled on a charge of giving a false statement under oath," the spokesman said.

Stone, an aviation ordnance man aboard the carrier Antietam, received the wire telling him he was "sole heir" to a fortune left by an aunt killed two weeks ago in an auto accident at Hollywood, Calif.

Pilots Agree To Mediation

Meeting Called By Government

WASHINGTON (AP)—The AFL Airline Pilots Assn. and American Airlines Saturday agreed to discuss on Sunday a government proposal for halting a three-week strike.

A national mediation board offered a plan under which an impartial referee would study the dispute while the strikers returned to work.

The board said in a formal statement that "the inconvenience to the public" caused by the strike, which has cancelled service to 97 communities, puts both sides under obligation to refer the dispute to a "neutral person" and "get on with their basic jobs of serving the public."

Main issue in the dispute, which the board has failed to settle in a week of mediation meetings here, is the pilots' protest against scheduling transcontinental non-stop flights which keep one flight crew at work for more than eight hours in the air.

American Airlines scheduled the flights after the Civil Aeronautics Administration waived a 20-year-old safety rule barring non-stop flights of longer than eight hours within the United States. The union contends it is not safe for one flight crew to operate a plane longer than eight hours at a stretch.

The pilots would be returned to duty as their services are required for the operation of scheduled flights, "without discrimination or reprisal and with seniority unimpaired."

The existing contract between the union and the airline would be changed to include a company-offered guarantee that the pilots will not be required for longer than eight hours non-stop except on the transcontinental flights at issue.

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VOGUE'S
KEY TO
YOUNG
AMERICANA

Shown are a few of Vogue's Fashion points taken from the current issue of Vogue:

top to bottom . . .

VOGUE SAYS:

"toward a more interesting fashion life this year, more interesting collars." the dress 49.95

VOGUE SAYS:

"Herringbone tweed with big deep collars is news in coats." the coat 49.95

VOGUE SAYS:

"The middy look, fun in any young fashion life." the dress 29.95



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Regular \$1.65. Twisted 30 denier Dressy Day sheer, all five leg types. 20 Denier dul-a-tone in leg types 1, 2, 3.

\$1.39 pr.
3 pairs \$4.05
6 pairs \$8.10

Regular \$1.65. Service Weight 70 denier with cotton plaited sole, leg types 2, 4, 5.

\$1.39 pr.
3 pairs \$4.05
6 pairs \$8.10

Regular \$1.35. 15 and 30 Denier Thrifties in leg types 1, 2, 3.

\$1.19 pr.
3 pairs \$3.45
6 pairs \$6.90

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