



**STABLE PALS** - Budweiser champion "Sailor," a 2300-pound Clydesdale, nuzzles "Bud," a dalmatian mascot of the famous Budweiser team, before appearing at the 77th National Horse Show at New York City. "Sailor" is one of the eight champion Clydesdales owned and exhibited by Anheuser-Busch, Inc. (UPI Telephoto)

## Important Step in Taming of H-Bomb Declared Developed

Gallinburg, Tenn. —(UPI)—Scientists at the University of California's Livermore radiation laboratory have taken a dramatic forward step toward the taming of the H-bomb, it was announced here Thursday.

Dr. Frederic H. Coensgen, a UC scientist, told the American Physical Society of his group's work in so-called controlled thermo-nuclear reaction experiments.

He said the goal of such experiments is to confine very hot heavy hydrogen bombs, stripped of their electrons, long enough to let an energy-producing chain reaction commence and be self-maintained. "Magnetic Mirror" Used

Coensgen said that his group, using a "magnetic mirror" machine, had: —Achieved a temperature of 60 million degrees Fahrenheit, the highest yet reported. —Confined the heavy hydrogen plasma for about one-thousandth of a second, longer than any previous experiment.

—Produced a heavier burst of neutrons than prior experiments.

The scientist emphasized that the accomplishments at Livermore did not mean the ultimate goal had been reached — or even very closely approached.

Success will be achieved only when more energy is gotten out of the reaction than is put into it by the scientists, he said.

The reaction being attempted is the fusion of two heavy hydrogen nuclei to produce a helium-3 nuclei, a neutron, and about 3.25 billion electron volts of energy as a bonus.

Coensgen said a similar reaction takes place when an H-bomb goes off. The goal of the plasma physicists is to make the reaction go on slowly and use the tamed energy to do work for man.

Coensgen's team included William E. Nexsen Jr., William F. Cummins, and Arthur E. Sherman, all physicists. They are now attempting to produce higher temperatures,

longer containment times, and denser neutron production.

The scientist said similar work is being done in laboratories around the world.

He said that someday, somewhere, somebody will announce a successful method of making useable power from fusing heavy hydrogen-constituent of common sea water.

## Russia Shifts Military Brass

London —(UPI)—Russia Thursday shifted Marshal Semyon K. Timoshenko, 65, one of her famous war time generals, in an apparent major reshuffle of her top military brass.

A Moscow announcement said the marshal has been replaced as commander of the key military Byelo-Russian District. The post has been given to Colonel-General V. N. Komarov.

No official details were immediately available on the reasons for the shift of one of the few remaining old-time military leaders, nor on his new assignment.

But the move spotlighted a fast growing trend in the Kremlin's policy to remove the veterans of the last war in the light of the quickening strategic shift to rocketry.

Timoshenko, son of a peasant rose from a stable boy to be one of Russia's most famous generals during the war against Germany.

He commanded the forces which halted the German advance on Moscow in 1941.

## Rural District Not To Require Permits

Central Point — Barring warmer weather, fire permits will not be required after Monday, Nov. 7, in the Central Point rural fire protection district, Fire Chief L. C. Lisenbee has announced.

Burning permits have been necessary through the summer and early fall months because of the fire hazard.

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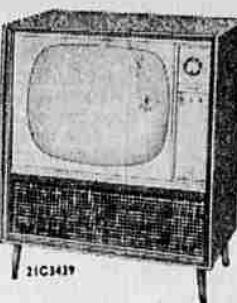
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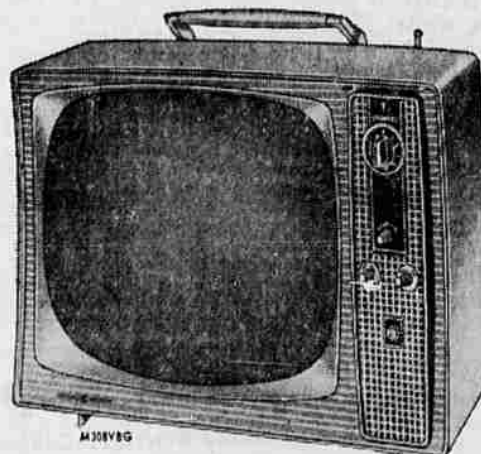
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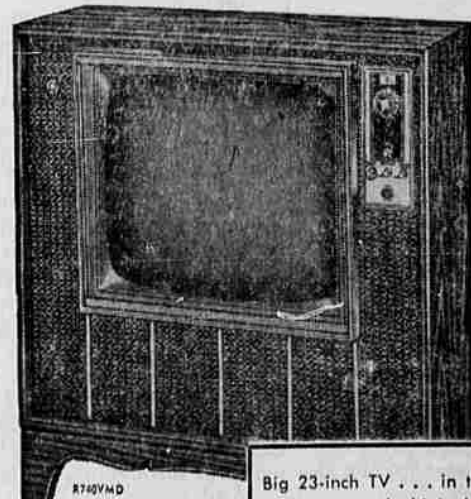
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