THURSDAY, APRIL 27, 1944

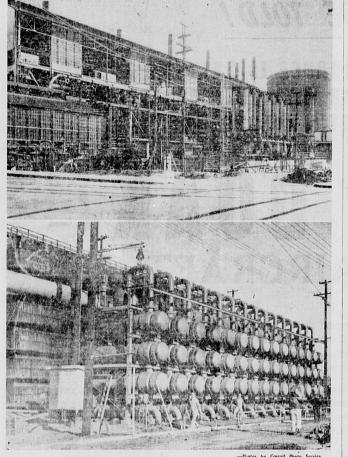
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TORRANCE HERALD, Torrance, California

Gas Company Called on to Convert Plant



GAS PLANT CONVERTED . . . Southern California Gas Company plant in Los Angeles, con-verted to the manufacture of butadiene last year, is capable of producing around 35,000 tons annually of this essential ingredient of synthetic rubber. Ten generators, operating in units of two, break down naphtha stock into its various chemical constituents, including butadiene, resi-dual gas and other by-products which are recovered and utilized for the war effort. The buta-diene is piped to the Shell Purification plant at Torrance. [Below] HEAT EXCHANGERS . . . These were installed last year at the Southern California Gas Company's Los Angeles butadiene plant to prevent the escape of offensive fumes, cause of con-siderable local comment during the late summer. These units serve to cool the water which in turn cools the butadiene-bearing gas as it emerges from the generators.

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RA

June 26, 1942, Defense Plant \$50 million cubic feet of gas per construction began in Septem-Corporation requested Southern day derived from diesel oil. California Gas Company to eqn. Wert its Allso Street gas works dertook an exhaustive program This plant had a capacity of processes involved and actual California Gas Company to eqn. The company immediately units of the plant had a capacity of processes involved and actual California Gas Company to eqn. The company immediately units of encounter the plant had a capacity of processes involved and actual California Gas Company to eqn. The company immediately units of encounter the plant had a capacity of processes involved and actual California Gas Company to eqn. The company immediately units of encounter the plant had a capacity of processes involved and actual California Ca

DAY SERVICE

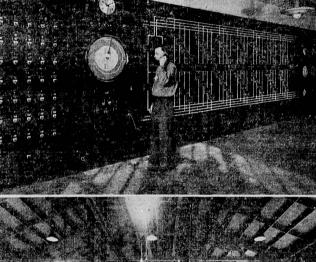
7 REPAIRMEN TO SERVE YOU ARGEST RADIO REPAIR

SHOP IN SO. CALIFORNIA

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FREE TUBE TESTING

sists of cracking naphtha, or low grade gasoline, and obtainsists of eracking naphtha, or low grade gasoline, and obtain-ing a petroleum fraction com-posed of various hydrocarbon chains containing four carbon atoms. In the industry this is called a "C4 cut." The constit-uent gases include butane, buty-lenes and butadiene. The crude butadiene and buty-lenes or C4 fraction are recov-cred by conventional gas ab-sorption methods, from the gases produced from the petro-leum vapors and are sent by pipeline to the Shell Chemical Company at Torrance for puri-fication. The other ingredients obtained as by-products are used in the manufacture of fuel gas, fuel oil and aviation gas. The raw materials for the pro-cess are obtained from refineries of Shell, Associated, Wilshire, Texas, Union Oil, General Petro-leum and Standard Oil Company of California.





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BUTADIENE PLANT . . . Pictured above are three views at Standard of California's plant at El Segundo, which makes butadiene for shipment to the rubber-making units at Torrance. (Top) Re-actors, Quench Column and Furnaces; (Center) Timer Panel in Control Room, which is typical of elaborate automatic control system used in all six synthetic rubber plants; (Below) Interior of Compressor House.

Standard Oil Has Huge Output at El Segundo

Enough butadiene for the manufacture of 3,300,000 au-tomobile tires a year. That's the estimated annual production of a brand new plant, just recently completed at standard of California's El Segundo refinery. With present work born as

catalyst used to bring about the conversion. Heat from this air is then recovered in high pres-sure boilers, where it generates 55,000 pounds of steam hourly for operation of the many pumps and for process heating. The compressor installation handling the various hydrocar-bon gas streams in the process totals 7,500 horsepower. It is the largest compressor installation * This air must previously be-purified by electrostatic filters which remove any dust that might affect the action of the



PAGE 5-0

synthetic truck tire construction which adds up to 40% to the i neary duty tires. Erie Smith sponsor of a tire conservation me held last ingina ta Wilmingon, explains the new tire which production at the United States Rubber Company Los Angeles p While rubber men thus are making strides towards meeting the cal tire shortage. officials appealed to the public to do its part to vitat transportation rolling.

New Synthetic Rubber Product Found Essential to War Effort

A new synthetic rubber composition that acts as an electricity rereatile materials of the war effort. Impregnated into cotton fabric, it becoming pad when attached to electric currents. has proven one of

Impregnated into cotton fabric, it becomes an efficient heat-stalled on machine guns and aerial cannons to prevent jam aerial cannons to prevent jam ing in extremely cold temper atures. The pad is covered with a synthetic rubber withich insu-itates against outside short ci-cuits. The total weight is less than three ounces. Tests have four total weight is less as earch for a way to eliminate sparks and static electricity in proved the new heating device of such efficiency that it will become standard equipment all guns for fighter and bomber hy the United States Rubber fous problem in flying. A strip the danler segment and bomber how sproblem in flying, the strip of the material is attached to peller blace. The passage of electricity through the material an obvious advantage over metho ofs of deicing which function after the leaks incedy formed. Airplane tailwheel tires made

Airplane tailwheel tires made with this new rubber material are standard equipment on all U. S. planes. It acts in the same way as a drag chain be hind gasoline tanks, dissipating

-as Torrance Is the Rubber Center of the West . . . BARRINGTON WELDING and MACHINE WORKS

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Chailos.
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