

Tubes

straight

or bent

BOILER TUBE CO. OF AMERICA

McKEES ROCKS, PA.

(Pittsburgh District)

PITTSBURGH • CHICAGO • FRED S. RENAULT & CO., LOS ANGELES

ENCO
DUAL
FUEL-OIL
Heating and
Pumping Set

Two heaters and two pumps—one steam, one electric driven—in one set with these six features:

1. Completely automatic operation with temperature and pressure regulation.
2. All essential equipment—including safety valves as needed—in one compact unit.
3. Individually designed to meet the specific needs of the power plant.
4. All parts visible and accessible for easy operation, maintenance and repair.
5. Pumps run at moderate speed. Heaters designed to give the correct viscosity and velocity without fouling.
6. Cleaner boiler room... all overflows connected to a common outlet, flanged drip pan for pumps catches oil drip.

THE ENGINEER COMPANY

75 WEST STREET, NEW YORK 6, N. Y.

IN CANADA: ROCK UTILITIES LTD., 80 JEAN JALON ST. W., MONTREAL, P. Q.

More POWER NEWS

Coming Events

June 3-5—Wisconsin Power Conference & Exposition, annual meeting, Schroeder Hotel, Milwaukee, Wis. Hoppe, Sec, 2335 N 58th St, Milwaukee, Wis.

June 18-19—American Institute of Electrical Engineers, summer meeting, Chalfonte-Haddon Hall, Atlantic City, N. J. AIEE, 29 W 39th St, New York 18, N. Y.

June 16-19—American Welding Society, spring technical meeting, Shamrock Hotel, Houston, Texas. AWS, Sec, 12 E 41st St, New York 17, N. Y.

June 29-July 3—American Society of Testing Materials, annual meeting, Chalfonte-Haddon Hall, Atlantic City, J W Sifton, ASTM, 1916 Race St, Philadelphia 3, Pa.

ital expenditure, business plans to \$23.3 billion on new plant and investment in 1953—a 6 per cent increase over last year. And the outlook for 1954-56 already shows a projected well over \$18 billion each year.

Zirconium Vital In Atom Sub Engine

When Westinghouse Electric started work on the first submarine reactor, large quantities of scarce and expensive zirconium metal were needed in a hurry. So they set about making their own.

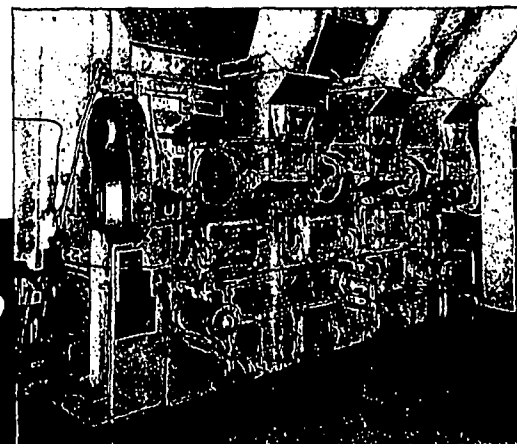
Zirconium metal is lighter than steel. It has remarkable corrosion resistance, an extremely high melting point, and is a fine structural metal in that it is strong and workable. Most important for use in a nuclear reactor is the fact that it does not "waste" neutrons—atomic particles that split uranium atoms and keep the atomic engine running. Whereas some metals "absorb" these neutrons and thus interfere with atomic fission, zirconium offers no interference.

The job of boosting zirconium metal bar from several hundred pounds per month, at \$250 a pound, to the thousands of pounds per month was completed in 14 weeks. At one point scientists were stumped over finding a gasket that would give a positive, tight seal, stand up under high temperature, yet could be removed frequently. They finally settled on wire of pure gold. It was soft enough for a perfect seal, stood temperature and corrosion.

15%

NEW DETROIT ROTOSTOKER FIRED BOILER

DETROIT
SINCE 1898
STOKERS



This installation, at General Mills, Inc., Buffalo, N. Y. plant is typical of Detroit Rotostoker performance. Not only was there a 15% fuel saving—smoke nuisance, long a problem, was eliminated.

Detroit Rotostokers burn economically any Bituminous Coal or Lignite without special preparation. They increase boiler capacity and respond quickly to sudden changes in load. Fuel is fed by efficient Overthrow Rotors. Fine fuel is burned in suspension—coarser fuel on the grates with uniform, but comparatively thin fuel bed.

Hundreds of Detroit Rotostokers are successfully applied to all makes and types of boilers or steam generators.

Do you need more steam at lower cost? If so, investigate the Rotostoker. Write for Catalog.

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