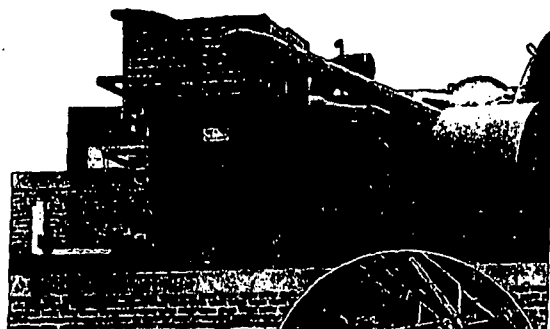




DRY, FRESH AIR For a Supersonic WIND TUNNEL

● New and improved, this NIAGARA METHOD that effectively dries outdoor air for a wind tunnel used for testing at supersonic speed, can be trusted to give you the best air conditions for your purpose:

- to dry your materials or products
- to prevent condensation or moisture damage
- to protect your moisture-sensitive processes
- to give you an atmosphere in which your product can be packaged or stored safely.
- to give you exactly the right atmospheric conditions for testing materials
- to put "fresh air" back into your air conditioning, increasing its capacity and effectiveness

The Niagara "fresh air" Method removes the excess moisture from outdoor air by contact with an absorbent liquid in a spray chamber. The liquid contact temperature and the absorbent concentration, both controlled thermostatically, determine the amount of moisture in the conditioned air. Heating or cooling the air is a separate function. Therefore, you can easily and inexpensively have a precisely controlled condition without the use of moisture sensitive instruments.

The Niagara Absorbent Spray Method is noted for solving the really difficult problems of air conditioning. Write for complete information.

NIAGARA BLOWER COMPANY

Over 35 Years' Service in Industrial Air Engineering

Dept. P, 403 Lexington Ave.

New York 17, N. Y.

Field Engineers in Principal Cities of U. S. and Canada

MARMADUKE

transformer of the voltage regulator and caused a hunt instead of damping. So reduced voltage to over voltage caused the load to fluctuate. And the brave little governor was trying to keep abreast of it all. It was a plain case of the voltage regulator against the governor.

"Thirty minutes after I started, the generator was on the line. And I passed her test without a hitch. The contractor slipped me a check that paid for some high living during that man's strike. And he offered me a trouble-shooter's job anytime I got caught up with my social obligations with the fair sex in the many parts around the world."

S.M.P.

Rubber-jacketed electric power cable for Arctic use has been developed by the Engineer Research and Development Laboratories, Fort Belvoir, Virginia. The new cable, also adaptable to tropic conditions, remains flexible at temperatures as low as -65 F. Unlike standard cables which set like springs when frozen, it can be uncoiled without snapping and it does not become brittle or stiff at low temperatures. Known as GR-S 1023, the cable is composed of 81 parts butadiene and 13 parts styrene compounded at 122 F.

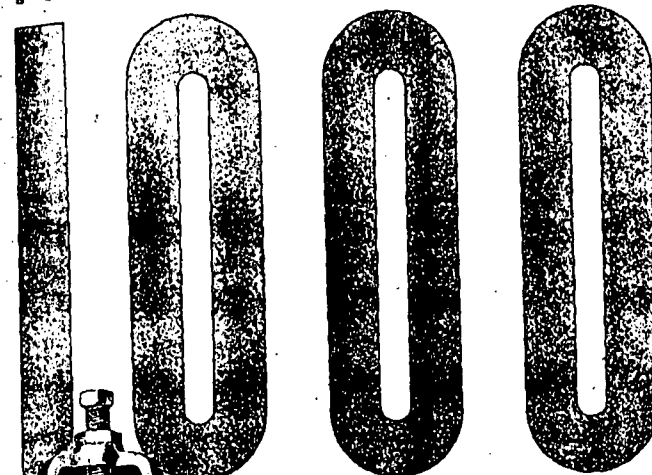
Research is continuing to obtain improved electrical, physical, chemical and all-weather properties of new cables. The goal is a cable that will combine all-weather characteristics with additional resistance to corrosion and oil.

Britain's first gas-turbine electricity generator for supplying power to the national grid has been attracting many overseas orders during the last six months. The unit, installed at Trafford Power station near Manchester, has been running satisfactorily without major modifications. However, it was stripped down recently to correct a number of faults caused by uneven expansion of metals exposed to the very high temperatures.

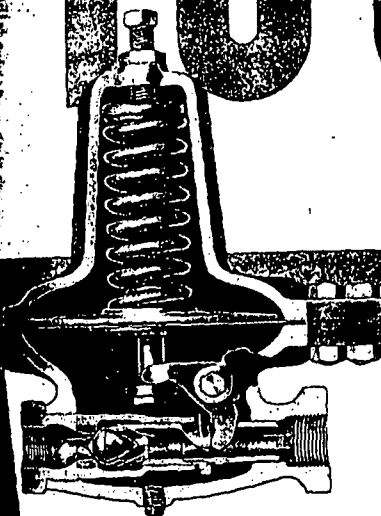
Tests are to begin shortly using a grade of fuel cheaper than the aviation-type kerosene burned for initial running tests. Medium-grade bunker oil will be used first and quality will be reduced until the cheapest fuel for satisfactory running is found. Further tests will determine minimum time required to run cold set up to full load. So far this has taken an hour but this time is expected to be cut to ten minutes in the near future.

Caterpillar Tractor Co. is planning construction of a new plant for producing motor graders and industrial wheel tractors. Although location is undetermined, the new plant will occupy 700,000 sq ft and will be completed by 1956. This expansion will permit a broadened crawler tractor and diesel engine program at the Peoria plant.

TYPE



VALVE



Any product of quality should be dependable when ordinary products fail. Sudden pressure fluctuations, dirt, scale and viscous matter prove "fatal" to ordinary pressure reducing valves.

The CASH STANDARD TYPE 1000 VALVE however, is designed to operate with complete dependability under the

most difficult and unusual circumstances. Many of these units have been in service over 10 years and have never been taken "out of the line."

Truly an EXTRAORDINARY achievement of quality and design excellence.

INSTALL CASH STANDARD "TYPE 1000" VALVES

CASH STANDARD

A. W. CASH COMPANY

DECATUR, ILLINOIS