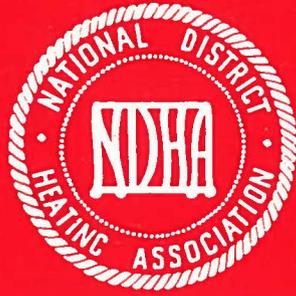


DISTRICT HEATING

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...HAVE YOU HEARD!...

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State Building, Rockefeller Center, the Chase Manhattan Building, Stuyvesant Town and Peter Cooper Village, the Waldorf-Astoria Hotel, Grand Central and Pennsylvania Stations and many others, including apartment buildings as well as industrial and commercial buildings.

At the end of 1963, Con Edison had 2,450 steam customers, served by more than 89 miles of mains and service lines. These customers are now being supplied by steam from 10 stations, of which five are electric-generating stations.

CHICAGO, ILL.

The Semi-Annual Meeting of the American Society of Heating, Refrigerating and Air-Conditioning Engineers will be held January 25-28, 1965 at Chicago's Conrad Hilton Hotel. Concurrent with the meeting, the 17th International Heating & Air-Conditioning Exposition will convene at McCormick Place, Chicago's new \$34 million lakefront exposition center.

ATWATER, MINN.

NDHA Associate Company member, Permaduc, Inc., Minneapolis, Minn. has been recognized as Permaduc International, Inc. which is located in Atwater.

Available nationally now for the first time, patented Permaduc systems have been installed in the North Central States during the past 11 years. Physical tests, by an independent mechanical testing laboratory, of the earliest installations have shown Permaduc conduit to be fully effective with no sign of deterioration in structure, pipe exteriors or insulation after ten years.

Unique in its design, Permaduc is in no way a pre-fabricated system, being wholly constructed on the job, of materials available at the job site. Quality controlled by direct Permaduc supervision during installation, the conduit is tailored to meet specific requirements to properly enclose the individual piping system to be protected. Insulated by mineral fiber packed to an optimum density, the system is said to have excellent thermal efficiency.

Piping and insulation stay dry, according to the designer, yet should the system flood, moisture is readily driven out without forcing air, which can contribute to corrosion, through the system. Structurally of superior strength to withstand high-load factors, it may be safely installed beneath driveways, parking lots, etc. An exclusive design feature provides that should the piping fail from any cause, it can be replaced in the system without destroying the conduit. Fully patented, this conduit system is available exclusively from Permaduc International, Inc.

LOCKPORT, N. Y.

The Company has announced plans to close its steam plant and discontinue its steam heating service in Lockport on June 15, 1966.

Mr. John C. Miller, Lockport District Manager, made the announcement in a letter to 159 residential and commercial customers affected, and to officials of the Harrison Radiator Division, which uses steam at its downtown plant.

Mr. Miller said operation of the plant has been unprofitable for years, despite all efforts to reduce costs through changes in operations and facilities.

The Company has filed a petition with the Public Service Commission requesting authority to discontinue the steam plant operation. The Company will furnish steam for two more heating seasons to give customers adequate time to investigate alternate heating sources and make the necessary installation of equipment.

Company specialists have surveyed the heating requirements of the customers involved. They will meet with each customer and if requested, will assist in forming plans for economical conversion to other forms of heating.

The Company has raised its steam rates several times, but the plant is still operating at a loss. The present charge for steam heating is considerably higher than for other types of heating and even another substantial increase in rates would not make retention of the plant feasible, Mr. Miller said.

He listed the following as among the factors which have made the steam heating operation unprofitable: (1) A decreasing number of customers; (2) Changed economic conditions; (3) Rising costs of supplying steam, including maintenance; (4) Decreases in the costs of heating sources.

DENVER, COLO.

The Public Service Company of Colorado is constructing a new 16" main parallel to an existing 8" main for 2000 ft to boost steam delivery to its downtown customers.

The Company has signed a 30-year lease for the State of Colorado's boiler plant to supply the State's complex of five buildings and to boost the steam delivery to the downtown system. A 14" main extension of 1000 ft will be required to connect this capacity to system.

WASHINGTON, D. C.

Of special interest to manufacturers, government engineers, consulting engineers, and others concerned with procedures for selecting proper materials and components for underground heat-distribution systems is the Federal Construction Council Technical Report entitled, *Evaluation of Components for Underground Heat Distribution Systems*, Building Research Advisory Board Executive Director Robert M. Dillon announced recently.

This revised report provides an up-dating of evaluative techniques and covers the results of field investigations, and experimental research and experience. Objectives of the report were to revise the laboratory test procedures recommended in earlier Federal Construction Council Technical Reports (30R and 39), and to recommend additional test procedures where needed. Test procedures thus recommended are designed primarily for laboratory simulation of field conditions. Performance requirements for acceptance of underground heat-distribution systems were also recommended.

Only heat pipes are treated in this report. Technical data, test results, and field data were obtained primarily from Government sources and installations. Load tests of casings are not described, but minimum requirements are.

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