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LONDON CANADA CHAPTER
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FIELD TRIP

Highland Country Club

279 Commissioners Rd. E., London, Ontario

Monday, October 26th, 1987

Social Hour — 6:15
Dinner — 6:45
Tour — 8:45

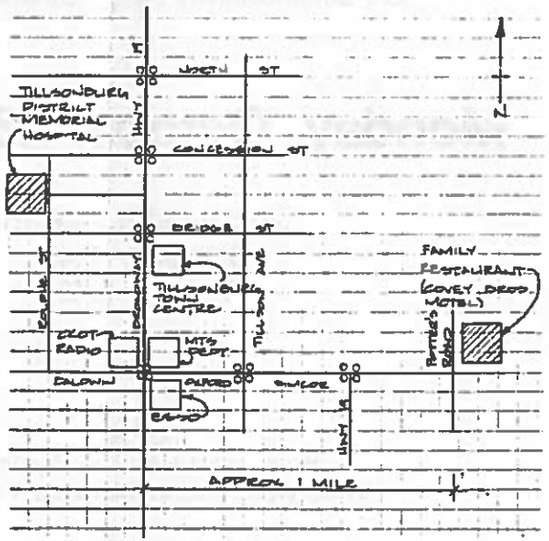
TOPIC
Boiler Heat Recovery System,
Tillsonburg District Memorial Hospital

October Meeting — Tillsonburg

Our October meeting is a field trip to Tillsonburg. We will meet and have dinner at Scotty's Family Restaurant in Tillsonburg. Following dinner, we will hear from both the Ministry of Energy and Thermal Energy Systems Inc. who developed the economizer design. There will then be a chance to visit the hospital and see the installation.

This heat recovery system was installed in the Spring of 1987. It is the only one of its kind. Ours will be the first tour of the installation. We are looking forward to a very interesting evening.

Map of Tillsonburg



The phone committee will try to match drivers and riders.

Please indicate if you are driving or need a lift.

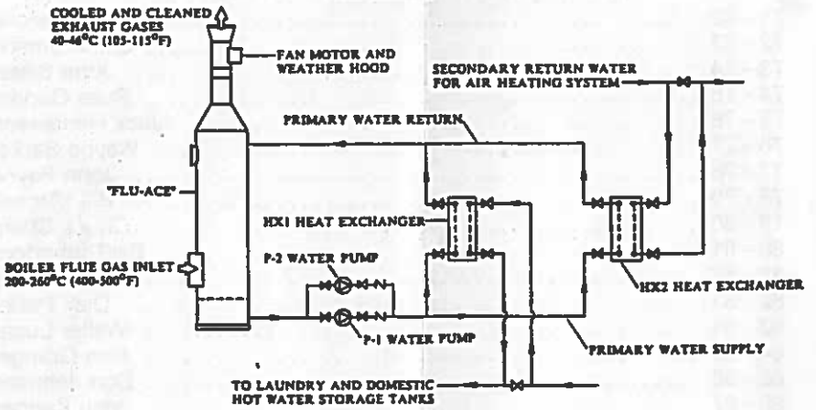
System Description

SYSTEM: The "FLU-ACE" heat recovery system, at the Tillsonburg hospital, is a direct-contact, condensing, heat recuperation system. The system is designed to recover 80 to 90 percent of available flue gas heat, and reduce boiler fuel consumption by 16 to 20 percent.

PROCESS: The "FLU-ACE" operates as a two-phase energy system (Figure A). The unit recovers waste heat from boiler flue gases through direct contact with primary water at 35-40°C (95-105°F) as it enters the liquid distributor at the top of the unit. The hot flue gas enters the unit at 200-260°C (400-500°F), passes counter to flow of primary water, and leaves at 40-46°C (105-115°F). In this process, primary water is heated to 63-68°C (145-155 °F) and accumulates in the receiver at the bottom of the unit.

Primary water is pumped through two plate-type heat exchangers, HX1 and HX2, where heat is transferred to domestic and laundry hot water, and preheats building heating system return water.

FIGURE A



Please note that "FLU-ACE" is a registered trade name.