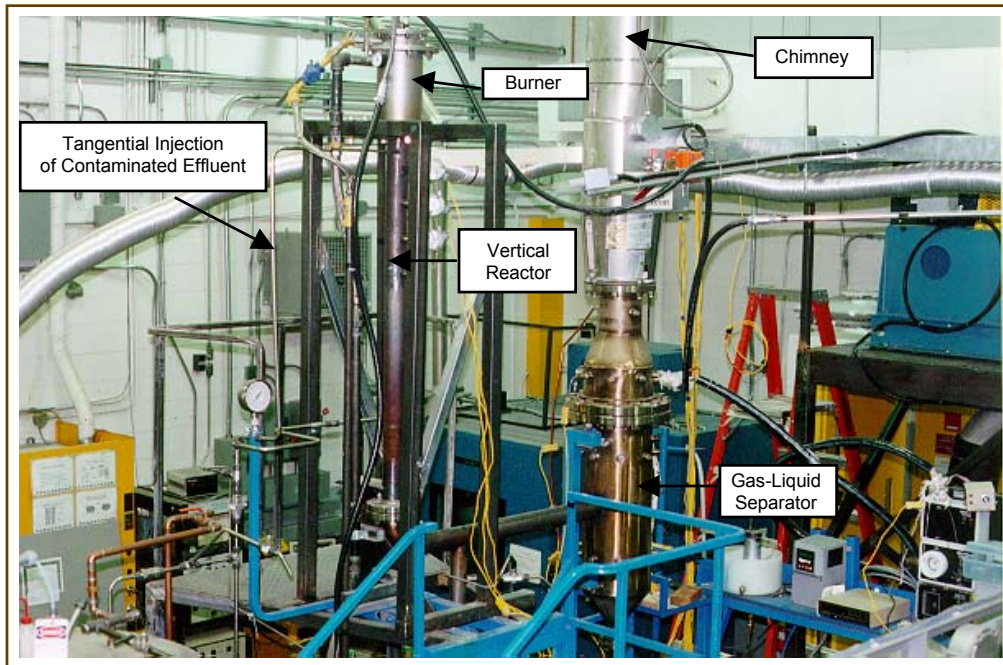


## Treatment for Aqueous Hazardous Waste Streams



### Principle :

■ Treatment is based on a *direct contact*, at atmospheric pressure, between a contaminated liquid effluent and the flame of a gas-fired burner containing free radicals and molecular oxygen.

### Liquid Effluent Tested :

Wastewater contaminated with :

- phenol
- toluene
- phenol, isoproponal mixture
- xylene mixture (ortho, para et meta)
- acetone, phenol, ethanol mixture

### Initial Concentration of Pollutants :

- 200 - 80,000 ppm

### Destruction Efficiency of Organic Pollutants :

- 70 - 99%

### Evaporation Rate :

- 2 to 5%

### Cumulative Specific Energy Consumption :

- 0.2 to 0.5 kWh/litre of tested waste stream

### Competing technology :

- Hyperbaric wet air oxidation

*Patented technology developed in collaboration with École Polytechnique de Montréal*  
*US Patents: No. 5,641,412 and 5,948,373 Canadian Patents: No 2187982*

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