

Gross Sales: 1982 - \$4.50M
1983 - \$4.75M (Projected)

Plant Size: 14,000 sq ft (2 locations)

Equipment: Machining, vacuum molding, fiberglass layup and forming, & electronic laboratory to 20 GHz measurement, and pyrotechnic manufacturing.

Experience: DND - Marine Weapon System Drive Controls
- Aircraft Smoke Signal Markers
- Marine Line Throwing Device
- Portable Antenna Masts
- Modular Practice Bombs

DOC - Satellite M/W Parabolic Dishes

Keywords: 1 = Aircraft; 2 = Armament; 4 = Chemistry; 8 = Energy; 12 = Machining; 16 = Security & Safety; 18 = Space Systems; 19 = Testing/Test Equipment; Ground Station Antennas = 18; Pyrotechnics = 1, 4, 16; Smoke Markers = 1, 4, 16; Portable Antenna Masts (Surface) = 18; Weapon System Controls = 19; Windmills = 8; Electronics = 19; Plastic Fabrication = 12; Modular Practice Bomb = 2; Practice Bomb = 2.

Revised: Dec 83

VORTEK INDUSTRIES Ltd

Code: VOR

Address: 1820 Pandora Street
Vancouver, British Columbia, Canada V5L 1M5

Contact: Dr G G Albach, President - (604) 251-2451

History: Vortek is a private Canadian company, incorporated in 1975 in the Province of British Columbia, with no other branches or US subsidiaries.

Capability: Vortek specializes in the manufacture and development of ultra-powerful arc lamps and related optical systems. The lamps operate at input powers of up to 160,000 watts, using a patented internal cooling method. Originally developed for outdoor floodlighting, the lamps have proven to be an excellent light source for solar simulation and industrial processes. Vortek also operates a high-power plasma arc laboratory. New product designs are tested prior to production, and radiation experiments are conducted for clients on a contract basis.

Average Work Force: PhDs - 3
Engineer - 1
Others - 5

Gross Sales: No Data

Plant Size: 6,000 sq ft

Equipment: The company has developed sophisticated fabrication techniques for liquid-cooled tungsten electrodes, and operates the only commercial tungsten electrode fabrication facility in Canada. Engineering of large, high-power optical systems is done using an in-house Data General Computer System. The company fabricates liquid-cooled optical assemblies, and maintains a large area rhodium metal plating facility for reflector production.

Experience: The company is an OEM supplier of ultra-power arc lamps and optics to Eaton Corp in Boston, for use in semiconductor annealing equipment. NASA and DOD use Vortek lamps for laser development and radiation testing. Large area solar simulators are installed in Canada and Europe.

Keywords: 8 = Energy; 9 = Environment; 10 = Image Processing & Optics; 20 = Miscellaneous; Arc Lamps = 8, 9; Tungsten Electrodes = 8, 20; Solar Simulation = 9; Metal Plating = 8, 9, 10; Optical Processing = 10; Plasma Arc = 8; Optics = 8, 9, 10; High Intensity Light Source = 8.

Revised: Dec 83

WHITESHELL NUCLEAR RESEARCH ESTABLISHMENT

Code: WNR

Address: Pinawa, Manitoba, Canada R0E 1L0

Contact: Mr. Raymond O Sochaski, Mgr, Commercial Ops Office - (204) 753-2311

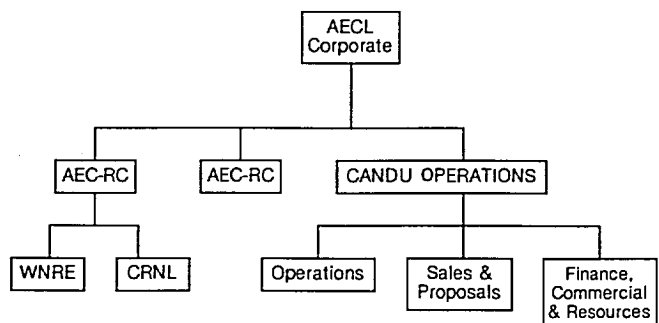
History: The Whiteshell Nuclear Research Establishment (WNRE) came into being in 1963 for the purpose of developing the organic cooled nuclear power reactor concept. WNRE is part of the Atomic Energy of Canada Research Company (AEC-RC), which in turn is a part of Atomic Energy of Canada Ltd (AECL). The latter is a crown corporation of the Government of Canada.

Canada's nuclear program had its beginning during the Second World War when a team of Allied scientists was assembled in Montreal for work related to the development of atomic weapons. With the end of the war, the Canadian effort was redirected, and since then all work on atomic energy has been concerned with peaceful uses.

The program was initially administered by the National Research Council of Canada, but by 1952 it had expanded so much it was placed under a new, specialized organization (AECL). In the fall of 1979, a commercial Operations Office was established at WNRE for the purpose of marketing site services, products and transferring technology.

AECL pursues a wide range of activities, from basic science to wholly commercial operations, with the main effort being devoted to the development, testing, commercialization and marketing of CANDU reactors, heavy water, isotopes, irradiation equipment and a nuclear fuel.

AECL is a Crown Corporation with a total staff of approximately 7000 people. The Corporate Office is located in Ottawa, Ontario. It manages the five companies listed below:



AEC-RESEARCH CO (AEC-RC) - Head office is in Ottawa with sites at Chalk River, Ontario and Pinawa, Manitoba.

AEC RADIOCHEMICAL CO (AEC-RCC) - Head office and manufacturing facilities at Kanata, Ontario, with offices scattered in foreign countries.

AEC-CANDU OPERATIONS (Operations) - Head Office in Mississauga, Ontario.