

States locks from July 4. First power came from the international power-houses on the latter date. Through-transit of the St. Lawrence Seaway began April 25, 1959, and the Seaway was opened officially by Queen Elizabeth II and President Dwight D. Eisenhower on June 26 of that year.

Navigation facilities Some idea of the magnitude of the work undertaken can be obtained by taking an imaginary voyage on a ship westbound from Montreal.

a) *St. Lambert Lock:*

Opposite the pool of Montreal Harbour can be seen the protecting dyke of the channel giving access to the Seaway, which begins just east of the Jacques Cartier Bridge, passes beneath the bridge and extends for three miles before reaching the first lock of the Seaway, the St. Lambert Lock, at the southern end of the Victoria Bridge. (At the Victoria Bridge are lift-spans and a system of rail and road traffic diversion.)

The St. Lambert Lock raises ships some 15 feet from the level of Montreal Harbour to the level of Laprairie Basin, through which the ship channel sweeps in a great arc eight and a half miles long between its protecting embankments to the second lock.

b) *Cote Ste. Catherine Lock:*

The Cote Ste. Catherine Lock, like the other six new Seaway locks and the seven lift-locks on the Welland Canal, has been built to the following standard dimensions: length 768 feet; length between stop signs in lock 715 feet; width 80 feet; depth over sills 30 feet.

This lock, to fill which 18.3 million gallons of water are needed, can be filled or emptied in approximately seven minutes. It lifts ships from the level of Laprairie Basin 33 to 35 feet to the level of Lake St. Louis. Its function is to by-pass the Lachine Rapids. Beyond it, the channel runs seven and a half miles before reaching Lake St. Louis.

Over this channel, at one point, tower the piers that give the Honoré Mercier Highway Bridge 120 feet of clearance for ships. Further upstream, the Canadian Pacific Railway bridge has had two lift-spans installed to allow for the passage of ships. These spans can be raised or lowered in a minute and a half.

c) *Lake St. Louis and Beauharnois Locks:*

Entering Lake St. Louis, the ship proceeds some 12 miles by dredged channels before reaching the Lower Beauharnois Lock at the west end of the Lake.