## There Will Be Changes Made In Nanticoke and Area

The Nanticoke plant will be the most modern and upto-date of any development yet in the colossus of power sources. The results of research enables the Commission to build larger units of production than could have been accomplished when the Lakeview plant was built. Each unit there is of 3,000,000 Kilowatts capacity. At Nanticoke each unit will be of 5,000,000 Kilowatts capacity.

Preliminary construction (site preparation) is slated to begin in the early spring of 1968. First concrete pouring is scheduled for the fall of 1968. The powerhouse superstructure will be of steel frame construction with insulated aluminum siding.

Since the site of this development included the site of the Jarvis intake and pumphouse for the Jarvis water-works system, we were pleased to learn that if this should conflict with Hydro's building arrangements, the Commission will provide a system which is equal to or better than the existing one.

Other things we learned: Requirements for a railway spur line are still under study; The possibility of bringing fuel in from across the lake via a pipeline still under study; The fly ash from the furnaces will be disposed of on the property in a man-made lake - area not determined; Dust collectors will reclaim 99.5 percent of all air polluting materials; By early 1971 it is expected the work force will reach a peak of about 1500; a staff of 175 to 200 will be required to operate the plant upon completion; local labor will be employed when and where

The location of the electric producing plant at Nanticoke will not, necessarily, be an inducement to industry to locate there. The power will be fed into Hydro's provincial grid transmission circuits (the route not yet determined) and re-directed to the power needs through

(continued on page three)

INSPECT HYDRO GENERATING PLANT



Flanked by his council, Walpole Township Reeve Ted Montague (second from left) made a recent inspection tour of Ontario's Lakeview generating station on the western outskirts of Metro Toronto. In the control room—nerve centre of the station, Geoff Gambling, project engineer, explained the function of the galaxy of lights and switches which make the thermal giant tick. With field, Councillor Blake Field and Arnold Huddleston, deputy director of Hydro's property division. In the back row are Art Nie and Councillor Bruce Meehan.

The following is a report of the editor who, last Friday, was given a glimpse of the immensity of Ontario Hydro's responsibility in providing the facility we all, now, take as matter of fact, and the part the new Nanticoke Generating Station will play in contributing to the overall requirements of the system.

HE ANNOUNCEMENT of Ontario Hydro chairman, George E. Gathercole, on August 31, 1966, at the Canadian National Exhibition, when he addressed the Electrical Day luncheon, that plans were in the offing to build a coal-fired thermal-electric station on the shores of Lake Erie, was the start of many rumors, in this area, that Nanticoke might be the site.

On January 12, 1967, Mr. Gathercole confirmed that the site of the Commission's new thermal generating station would be at Nanticoke.

The Plant, which will be built is just east of Nanticoke on the Lakeshore, and a total of 770 acres of land is involved in the project. This involves something like seven farms. Negotiations for the purchase of two farms have now been completed. Negotiations continue on the remaining five.

Middle-aged residents may wonder why this plant is being built. Back in 1906, when Ontario Hydro was formed, only water power was considered as a means of producing electricty. The flow of water on the Niagara River and the development of hydraulic plants at Niagara Falls was, in the minds of most people, the only way electricity could be produced. While this means of electrical production still produces most of the electricity used in the Province these resources have been used up and new means must be found to meet the needs of the 2,000,000 customers of Hydro and the anticipated doubling of that need every decade in the future.

It is estimated that thermal electric stations - such as the one to be built at Nanticoke - may supply twothirds of Ontario Hydro's power requirement as early as

Ontario Hydro chose coal for its conventional thermal-electric plants because no other fuel could compete in price or availability. Vast quantities are needed. For example, the plant at Nanticoke, fully operational, will require 600 tons of coal an hour, enough to keep a home urnace operating for 100 years. This fuel will be brought into Nanticoke from the Pennsylvania Coal fields by ship. This will require docking facilities extending into the lake for, perhaps, 2,250 feet. These carriers will be self unloading into a stock pile that will require about 30 acres of land space that will accommodate about 2,500,000 tons. From the stockpile it will be fed, by conveyor belt, to the powerhouse where it is pulverized and eventually goes into the furnaces. These furnaces have a capacity of 110 tons of coal an hour.

The Nanticoke Plant will have an initial capacity of 1,000,000 Kilowatts late in 1971. A second unit will increase this capacity to 2,000,000 Kilowatts (greater than the present Hydraulic production of Niagara) by 1972 It is still possible that this production may be doubled at a later date, determined by the circumstances that

When the proposed production of 2,000,000 Kilowatts (in 1972) is accomplished, the station will require 600,000 gallons of lake Erie water every minute for cooling purposes, converting steam into water in the station's con-

Last Friday we were given a first hand look at the good only similar thermal producing facility in Ontario. It is located at Lakeview, just west of Toronto on the shores of Lake Ontario.

This experience was provided through the courtesy of the Public Relations Department of Ontario Hydro. Mr. Leo Vamplew, in charge of public relations in the Niagara area, brought us into contact with the senior officials of Ontario Hydro, at the Lakeview plant and also at the Richview Control center, the only one in the entire system, when any question we could conceive of was responsibly answered. This Thermal-Electric development at Nanticoke will be, almost, beyond human

### 200 MILLION SEEN AS COST OF HYDRO PLANT AT NANTICOKE

Leo Vamplew, public relations officer with Ontario Hy-changing demands for power in dro in the Niagara Peninsula. Ontario by stating that in 1906 told the Jarvis Lions Club on when Sir Adam Beck brought Monday night that the proposed Thermal Hydro Plant in the ted power for use, 4000 Kilo-Nanticoke area would cost watts were generated. We are

This could include the cost of the site, 200 acres, rights of way for a Railway Line to the various in presently using, in Ontario, 8 million Kilowatts and the projected requirements for 1980 are 20 million Kilowatts site, and rights of way for a Ontario is planning to propossible four transmission lines vide this evenly from three to feeder stations in the Hamil- sources.

Mr. Vamplew was cautious by saying that those on a higher level of authority than himself had not yet finalized on the Nanticoke site for the huge Plant He left no doubt, however, that in his opinion this is where the Plant would be built

#### L BE CHANGES MADE OKE AND AREA

tinued from page one)

this tour we feel compelled to repor ing facilities extending 1200 et for Mr. James Harris, System Super feet into Lake Erie.

, at the Richview Control Center. Mr. From the best information he eal daily with the power and light de proval of higher authority, the scustomers that pay about \$200,000,000 site for the project should be product he directs. The magnitude of the cleared by late 1967, and con helming. Similarly, the magnitude of the struction should start early in rating station, will be such as to bring station, will be such as to bring station, will be such as to bring station. lders and, particularly, local people.

this plant will be several boilers, each hould be completed in 1977.

iles of tubing; steam drums, each weigh- buring the years of construce rotors in each generator weighs 50 ion 1500-1700 men would be ormers weigh 300 tons each; to keep mployed and the normal opertional staff, upon completion, in motion and generate the electricity yould be between 175-200 gned for will require a massive stockpile He intimated that to meet 2,500,000 tons, in an area of, perhaps, 30 ddition, at Nanticoke, a man-made lake thousands of tons of fly ash coming elt the people who would oc-

educational or housing facilities of the still many phases of the development these will have to be dealt with as the

oke thermal generating station is an ment in the history of our area. It is BIG OUS, and what changes this will make fe remains to be seen.

(coal) stations and one third

Other thermal plants have been built at Toronto, Windsor. Port Arthur, Lakeview (Toronto area) and Lambeth. Nanticoke may be the sixth with our units of 500 KW. each or

a total of two million K.W's In order to operate such a plant it will be necessary to stockpile two and one-half millien tons of coal. (The aver-

### LAKE ERIE PLANT SITE ONTARIO HYDRO CONFIRMS

Ontario Hydro Chairman Geo. the work force will reach a firmed that the site of the Com two units are scheduled for

Plans to proceed with the new station were revealed last August by Mr. Gathercole, but staff of 175 to 200 will be need ed to operate the station when it is completed when the ultimate capacity.

close to the community of Nan- densers share of the eleteric power pro- process uced at Niagara Falls.

was made, exhaustive surveys technical forces to determine large thermal-electric plant

It is expected work will betion Access roads, workshops, of the lake itself

mission's new thermal generat- service in 1972 and 1973. The ing station will be at Nanticoke remaining two units will come near Jarvis on the shore of into service as required A

When the ultimate capacity engineering surveys had not is reached, the station will reben completed an d its precise quire 600,000 gallons of Lake location could not be determin. Erie water a minute for cooling purposes-converting steam in-The plant, which will be built to water in the station's con-

ticoke, will bear this historic There will be no contact be name. Initially, the plant tween the cooling water and will have a capacity of one mil- water used to produce superlion kilowatts from two genera- heated steam to drive the giant ting units, but eventually it turbine generators. Water in-will be expanded to double volved in the steam cycle is this capacity. An indication used over and over again, and of its importance is that ufti-mately the output will approx - Cooling water will be used onmate that of Ontario Hydro's ly once in a straight- through

Before a decision on the site cooling will be returned to the lake slightly warmer but in a were carried out by Hydro's purer condition than when it

whether foundation conditions Thus while the water return woul dpermit the building of a ed to the lake will slightly raise the temperature in the raise the temperature in the gin late in 1967 on site prepara- plant, it will have no measurable effect on the temperature

slated for the early summer that the air surrounding its By early 1971, it is expected coal-fired plants will be as clean

In line with this, the most modern mechanical and electrical precipitators available will be installed at Nanticoke. These preciptators will remove 99.5 per cent of the particles, and two giant chimneys will disperse flue gases high into the upper atmosphere

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# on this particular report we found that does not anticipate that the influx of the construction stages will not continued on page two) NANTICOKE MAY BE SITE OF NEW POWER STATION

CONSTRUCTION of a large coal-burning power station in Haldimand County by Ontario Hydro would have a significant effect on the economy of the district, Hon. James Allan, Ontario Treasurer, said this week.

Mr. Allan, MPP-Haldimand-Norfolk, said he had been informed by Hydro Chairman George E. Gathercole that the peak work force for the project could reach 1,500 by early 1971.

Plans for the new power development were announced this week. A site on Lake Erie near Nanticoke is now being tested and if foundation conditions are suitable the plant will be built there. The station would have a generating capacity of 1,000,000 kilowatts from two units by 1973, but its ultimate size would probably be 2,000,000 kilowatts.

Mr. Allan said the plant's operating staff would total about 110, increasing to nearly 200 when the \$200 million project reaches completion.

"According to the best estimates Hydro has at the moment", Mr. Allan said, "site preparation and the building of access roads and shops should start late in 1967. Construction of the plant itself is expected to get underway by early summer of 1968".



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