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who were pleased to supply all the fruit and vegetables during the construction period, Congratulate

Columbia Cellulose COMPANY

On the opening of this great new industrial undertaking

Significance of New Mill

The magazine Pulp and Paper, published in Seattle, hails the new dissolving pulp mill of Columbia Cellulose Co. at Prince Rupert not only as a development likely to revolutionize the economy of northwestern British Columbia but as a significant step in a widespread change in the industrial use of pulp.

"It should no longer be regarded as odd to speak of woodpulp intended for dresses, men's suitings, carpets and drapes," writes Rex Vincent in this journal, which devotes a 20 page section to the new mill. "Not many years ago this field of woodpulp production was very narrow and was referred to as only a fraction of the total production of woodpulp. This latter statement is still applicable, but only when one refers to the 'total production of woodpulp.'"

In 1950, it is pointed out, total North American production of bleached sulphite pulp for paper for market was an estimated 695,000 tons, whereas production of dissolving pulp, such as is being manufactured by the Celanese Corp. subsidiary at Prince Rupert, is estimated at nearly 800,000 tons.

When the full effect of expansion such as at Prince Rupert is analyzed it will be shown that dissolving pulps are being produced in North America to a greater extent than is bleached sulphite pulp for market mills.

For the past decade, consumption of cotton, wool and man-made fibres has been increasing, but the consumption of man-made fibres has increased more rapidly than either cotton or wool. Part of this has been due to the more desirable characteristics resulting from use of highly controlled chemical fibres such as being produced in British Columbia and part to cotton and wool pricing themselves out of certain uses.

Fish Protected as Water Provided For Pulp Mill

One of the main requirements of a pulp mill is a bountiful supply of water, and Columbia Cellulose Co. Ltd. has obtained the water rights of a chain of lakes, Prudhomme, Taylor and Diana to the outlet of which a six-and-a-half mile wooden pipe-line has been built.

From this watershed a yield of 80,000,000 gallons a day is expected. Present needs are about 11,000,000 gallons a day which will ultimately be increased to about 37,000,000.

To provide an intake for the pipe line a dam was built at Prudhomme Lake impounding a storage reservoir covering 600 acres. The 234-foot long dam blocks the intake of the Cloyah River. The maximum height of the non-overflow dam is 28 feet and the top of the spillway, 91 feet long, is 10 feet lower.

Since the dam is built across a salmon spawning stream, a fish ladder has been installed by Columbia Cellulose engineers working in conjunction with the Department of Fisheries.

For the ascent of the spawning salmon a series of concrete baffles form pools, one higher than the other until the crest of the dam is reached. A similar form of descent puts the salmon on the other side in the lake water.

Another salmon-conserving feature has been constructed for the small sockeye fry when they start down the Cloyah on their way to tidal water. The fry are led into a concrete storage basin and are prevented from entering the pipe-line by a diesel-driven screen which picks them up and "jet propels" them with powerful streams of water to safety into the main river stream.

The whole scheme was designed to prevent any damage to commercial runs of sockeye, spring, steelhead and coho salmon in the Cloyah River.

On a recent inspection tour of the dam by Game Commissioner James Cunningham, he said:

"This is the finest fish ladder I've seen anywhere."

THE PIPE LINE
The pipe-line, 48 inches in diameter, travels more than six miles along the contour of the terrain, with exception of three tunnels, to the mill at Watson Island.

Future water demands will be met with another pipe line for which provision has been made by providing two intakes at the dam.

The last section of the line is carried on a wooden trestle, 1,400 feet long over Wainwright basin, a tidal-water arm, to the mill.

The 48-inch pipe line which connects Prudhomme Lake dam with Watson Island pulp mill of Columbia Cellulose is 35,000 feet long. At two points it goes through solid rock by means of 1000-foot tunnels.

Pr. Rupert Facts

RAILWAY AND SHIPPING FACILITIES

Prince Rupert is the northern terminal of the Canadian National Railway and the company employs a large number of men in connection with its shops, yards, vessels and train crews, and administrative offices, all of which contribute largely to the business of the port. The railway company owns and operates a large dry dock capable of accommodating vessels up to twenty thousand tons. In its yards the building and repairing of vessels, scows, etc., require the services of a large number of skilled craftsmen and laborers. It has built steel cargo boats as large as 8800 tons gross, also mine sweepers for the Navy. There are several other ship yards in the port catering to the fishing industry, building new boats and making repairs.

TELEPHONE SYSTEM

Prince Rupert owns and operates its own telephone system and the present number of connections range between 2200 and 2300. The system is being extended to take care of 400 applications.

The telephone system is manual but the City is gradually working towards an automatic system.

SEWERAGE SYSTEM

Prince Rupert is adequately served by sewers.

congratulations to Columbia Cellulose COMPANY LIMITED

●

on their Mill Opening

●

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On the Opening of its Great New Plant

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On the opening of their new plant

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Extends Congratulations to

COLUMBIA CELLULOSE COMPANY LIMITED

On the Completion of its Pulp Mill Plant at Prince Rupert.

Welcome and Best Wishes

THE SUCCESSFUL CULMINATION OF THIS IMMENSE PROJECT MARKS AN IMPORTANT MILESTONE IN THE DEVELOPMENT OF THIS AREA AND DEMONSTRATES A STRONG FAITH IN THE FUTURE OF OUR NORTH.

THE ROYAL BANK OF CANADA

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