

HEAT AND POWER PLANT

Qaqortoq/Julianehåb
Kalaallit Nunaat/Greenland

THE BUILDING AND ENERGY SUPPLY ORGANIZATION OF GREENLAND



**THE CONSORTIUM
SKANCONTRACTOR**

THE OWNER

In the spring of 1988 "Grønlands Hjemmestyre" decided to have a combined heat and power plant constructed in Qaqortoq/Julianehåb, one of the main townships of Greenland.

The decision was made within the plan of extension and modernization of the electricity and district heating systems for the Greenland town communities.

After the public tender, design and construction of the combined heat and power plant was contracted for with the Consortium SKANCONTRACTOR as a turn-key contract.

"Grønlands Byggevæsen og Energiforsyning" (previously Nuna-Tek) has represented "Grønlands Hjemmestyre" as owner during the construction and erection of the combined heat and power plant.

Nukissiorfiit in Qaqortoq/Julianehåb will after taking over in November 1990 operate the plant.



PRODUCTION EQUIPMENT

The combined heat and power plant is provided with 2 MAN-B&W generating sets type 8L28/32 H with ABB/Strömberg generators. Each set has an output of 1700 kW electricity and 1200 kW heat at full load.

The Supervisory, Control and Data Acquisition System (SCADA System) secures the automatic operation and control.

The power is generated at a voltage level of 10 kV and is distributed to the utility grid through an M. V. indoor switchgear.

The heat is produced by heat exchangers in the cooling water system and by a boiler in the exhaust gas system thereby obtaining a maximum utilization of the excess heat.

The combustion air is led from the outside through filters, and the exhaust gas is led to the 33 m high chimney.



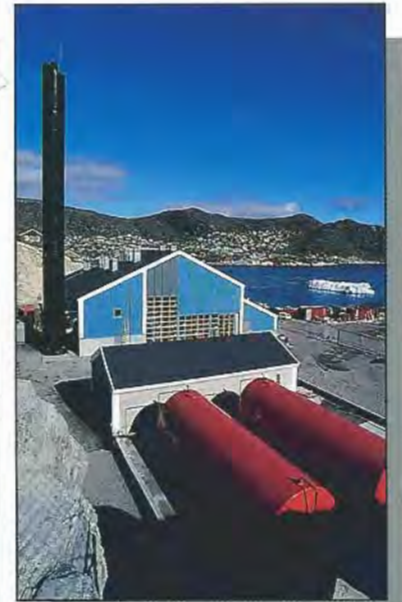


THE CONSORTIUM

The Consortium SKANCONTRACTOR is formed by C. G. Jensen A/S and Burmeister and Wain Scandinavian Contractor A/S.

As building and civil works contractor C. G. Jensen A/S has been in charge of the design, construction, delivery and erection of the power station building, including the administration department, complete with technical installations.

Burmeister & Wain Scandinavian Contractor A/S has designed, constructed, delivered, erected and tested the power and heat production equipment.



THE BUILDING

The combined heat and power plant building comprising production rooms, workshop and administration department has been built on a level site area of 4,300 m² blast in the rock. 35,000 m³ of rock have been blast and used for filling up an area of the sea at the plant site, utilized as a coal and gas storage.

The built-up area is 860 m² and the total area of the floor is 1,400 m².

The construction principle for the building is steel frames in one span clad with profiled steel plates. The roof construction with double roofing felt has been laid direct on the subjacent insulation material.

The civil works and erection have been carried out by local companies as subcontractors under the supervision and site management by the consortium.

The design and construction have been made with special care and attention to the particular climatic conditions and the landscape.

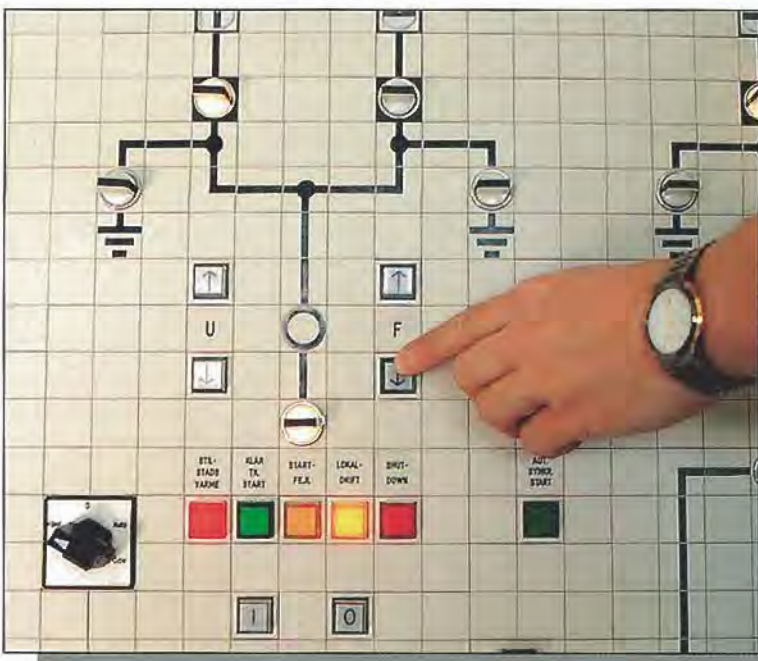


C. G. Jensen A/S is a contracting company undertaking all kinds of building and plant projects such as house building, office and industrial building, bridges, ports, airports, power station building etc. C. G. Jensen A/S carries out projects as turn-key contractor as well as main and specialist contractor. C. G. Jensen A/S operates world-wide.



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Burmeister & Wain Scandinavian Contractor A/S specialized in turn-key contracts for design, construction, delivery, erection and testing of power and heat plants with diesel engines as well as in service, maintenance, rehabilitation and spare parts supply, operates world-wide and has constructed power plants in Africa, the Far East, The Middle East and in the Caribbean Area besides plants in Greenland, Denmark and the Faroe Islands, and has designed and constructed wind parks in India.



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