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C5076

TEST RESULTS ON
PORT CENTRE AUXILIARY GENERATOR.

Shunt, com. pole, D. C. Generator, Type 29/34.
Machine No. R. 55124, Armature No. R. 70127.
K. W. 75, Amps. 300, Volts 250, Speed 225 R.P.M.

HEAT RUN as a motor driving Machine No. R55120 :-

<u>Time</u>	<u>Line</u> <u>Volts.</u>	<u>Line</u> <u>Amps.</u>	<u>Shunt field</u> <u>Amps.</u>	<u>Speed</u> <u>R. P. M.</u>
5.0 pm.	250	170	5.84	225
Machine run for 4½ hours as a motor.				
9.30 pm.	250	170	5.84	225
Machine shut down and temperatures taken.				

Temperature rise by thermometer in degrees Centigrade
after 4½ hours :-

Armature core	11
" winding	10
Commutator	8
Shunt field winding	15
Com. pole winding	11.5

Air temperature - 18.5

INSULATION RESISTANCE TEST.

Insulation resistance to earth was found to be :-

Armature and com. pole windings.....	20 megohms
Brush gear and terminals.....	20 "
Shunt field windings.....	50 "

The windings, terminals and brush gear of the machine
withstood a high potential test of 2,000 volts A.C. for one
minute to earth.



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