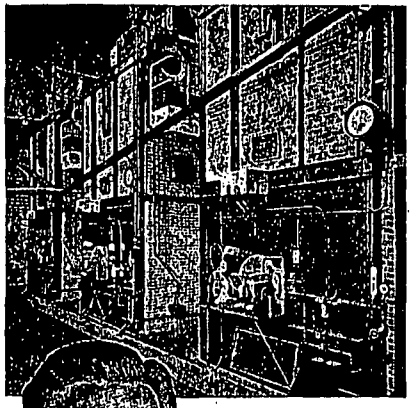

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DIESEL GOVERNORS

Continued

no load, both set their fuel ... half load because they are ... 5% overspeed. Each engine ... to carry its proper share of ... mon load.

But if governors have diffe... droops, say 5% for one engi... for the other, load will not be ... shared. For instance, if a load ... speeds up both engines 5%, ... first engine's governor cuts ... fuel so no power is delivered ... second engine will develop half ... Governors of engines connected ... must have equal speed droops ... is to automatically take its co... of a varying common load.

Adjustable Speed Droop. ... chanical governors have fixed ... large speed droops. So if two ... engines have different makes of ... cal governors, their speed dro... probably differ considerably. ... engines are coupled to a comm... they will not take their prop... when it varies.

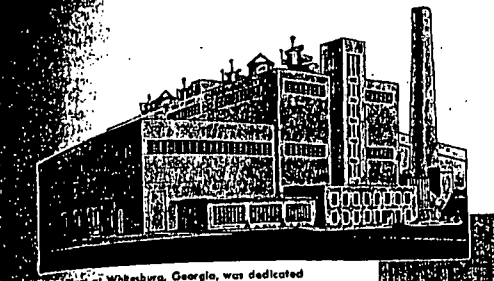
Nonisochronous hydraulic ... have inherent permanent speed ... which is generally adjustable. (... p 100, May). Such governors ... fitted to coupled engines, ... adjusted for equal droop to give ... load sharing. This generally is ... a speed droop of 2 or 3%. Since ... droop is always present in such ... nors, they will not keep constant ... quency in ac-generating plants. ... quently, electric clocks will not ... accurate time unless a watch-s... or *automatic device frequently* ... all engine speed-adjusters.

Isochronous hydraulic governors ... out speed droop (p 82, June) work ... on engines running *singly*. But ... are unsuitable for coupled engines ... cause absence of speed droop pre... proper load sharing.

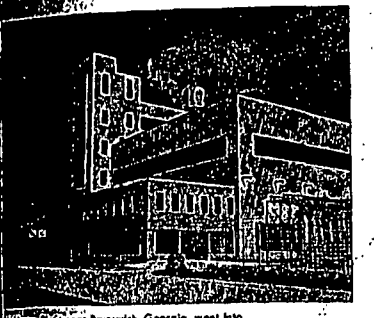
So, isochronous hydraulic gover... with adjustable speed-droop attach... Fig. 2, 3 and 4, find wide use in ... tiple-unit ac-generating plants. Be... their temporary speed droop gives ... *stability*, the permanent speed ... can be made quite small and still ... good load sharing.

Also, such governors permit ... operation at *constant frequency*. ... ernor of one engine is set for zero ... droop (isochronous), and all other ... ernors are given equal speed droop ... sufficient amount to insure correct ... sharing. Load changes are automat... ly taken by engine with isochronous ... ernor, which runs at constant ... This compels other engines to ... their same speeds, so electrical ... quency of plant stays constant.

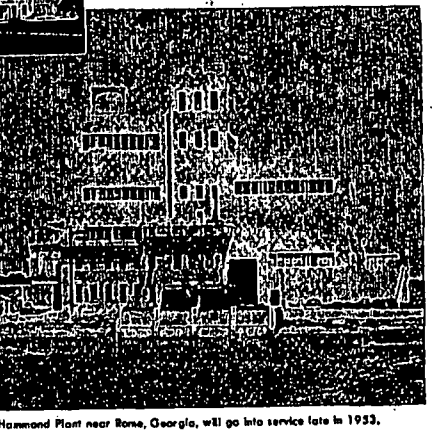
Oh, I see



Plant at Whitesburg, Georgia, was dedicated October, 1952.



Plant near Brunswick, Georgia, went into ... November, 1952.

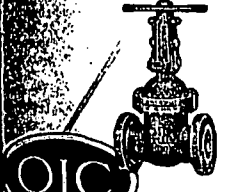


Hammond Plant near Rome, Georgia, will go into service late in 1953.

...they're using our valves at Georgia Power

Newest in their growing chain of giant power plants for expanding service in Georgia are these three plants. Indicative of their builders' desire to assure maximum dependability is their selection of OIC Valves for these plants.

Every OIC Valve is *precision-engineered* and *precision-made* to give longer, trouble-free service at no extra cost to you. OIC offers *precision-application help* in selecting valves best suited to each job.



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