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More TECHNICAL BRIEFS

Begins on page

on the ac system.

4. The power flow can be cont... easily.

5. It has a higher all-day effic...

In the original installation ... anode mercury-arc rectifiers were ... In 1948 these were replaced by ... anode excitron rectifiers, and the ... was increased to 8,000 kw. A ... 8,000-kw unit was installed in ... bringing the capacity of the in... tion to 16,000 kw, with a two-hour ... of 20,000 kw.

In the electronic frequency ch... a dc link serves as the tie betwe... two power system. A power ... converts power from one ac syst... dc power, which is in turn conver... ac power in the other system. ... power converter.

The electronic frequency change... proved itself as a practical and h... flexible tie between ac power sys... The interchange of power can be ... trolled easily and accurately, unaff... by frequency and voltage changes. H... ever, its application opportunities ... limited. Because of its higher first ... it can be applied economically ... where a synchronous-synchronous ... quency changer cannot be used, as ... the case for the Gary installation.

Besides the Gary installation, ... United States Steel Co has an electr... frequency changer operating in a ... mill near Pittsburgh. It is rated at ... 000 kw and uses a different type of ... tifier tube and was also installed in ... *AIEE Paper No. 53-53.*

Handling Load Regulating Problems ... Interconnected Power Systems.[2] *By ... Nichols, Leeds & Northrup Co.*

Parallel operation of power sys... has developed so extensively in re... years that there are now only six ... interconnections in the country ... grid approaching nation-wide exte... not too fantastic a contemplation ... the future. Associated with this e... *sion has been a widespread dependence* on telemetering and load control fa... ties which have proven to be essen... for normal operation. Close coop... tion with operating engineers ov... twenty-five year period has resulted ... the progressive development of equi... ment necessary to cope with the ev... changing load regulating problem. This ... paper reviews the present technique ... used in solving load regulating problems ... and shows design trends which anticip... pate the needs of the future.

Present-day operating requirement...

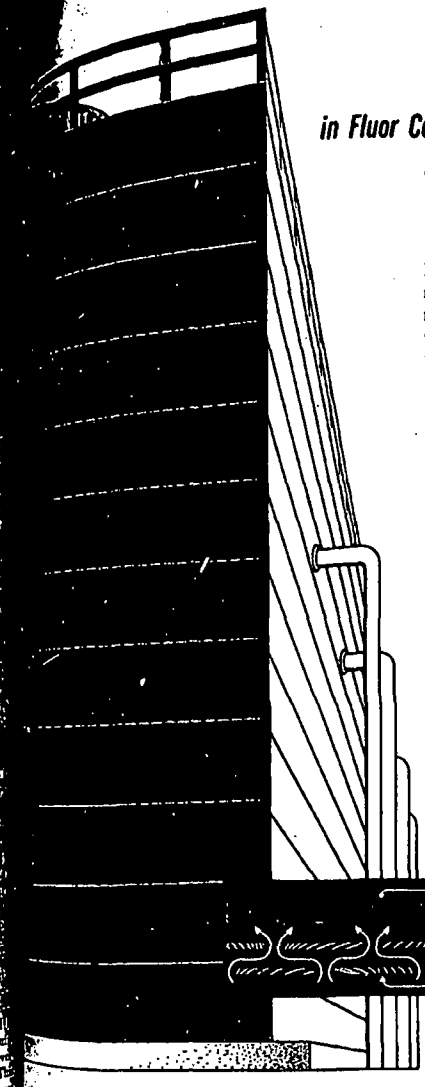
Directions for ordering papers on p 121

Double wall sheathing

in Fluor Counterflo Cooling Towers adds protection and lasting good looks

Double wall construction provided on Fluor *induced-draft cooling towers* has a double meaning — protection and beauty. The outer wall consists of a double row of vertical Redwood battens which are located four inches out beyond the inner wall. This protective casing is neat, symmetrical, eye appealing and greatly enhances the beauty of a cooling tower. It weathers uniformly. Unsightly stains and blemishes that mar a cooling tower's appearance are impossible. The equally spaced rows of battens also permit air circulation around walls to prevent dry rot, algae growth and other blights that attack unventilated cooling tower walls.

The inner wall is constructed from 1 x 6 full Z lock-joint, select "heart" Redwood. Both walls are factory fabricated into panels for easy erection. Sheathing is not nailed to outer posts but is bolted through the main tower columns. There is absolutely no structural load borne by tower walls, another factor which adds length to the life of a Fluor Cooling Tower. The neat, streamlined appearance of a Fluor Cooling Tower blends well with today's modern industrial plant equipment. Contact your nearest Fluor representative, or write for details



Top view of double wall. The uniform spacing of vertical battens is not for the sake of appearance alone. Air is permitted to circulate between the aerators to prevent dry rot and living organisms from attacking tower walls.

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