

Your Management wants to know...

How to solve the dust abatement problem... economically

PLANT ENGINEERS, working with Buell engineers, have proven again and again that their know-how coupled with Buell's long experience in Dust Collection can solve your Fly Ash problems more economically, more efficiently.

What's more, Buell Dust Collection Systems offer all American industry these further advantages: smoother plant-community relations, improved product quality and higher employee morale.

Buell's knowledge and experience in the highly specialized science of Dust Collection are yours. To learn more about Buell's 3 basic systems of Dust Collection and how they can help you, send for the new, informative booklet titled, "The Collection and Recovery of Industrial Dusts." Buell Engineering Company, Dept. 50-C, 70 Pine Street, New York 5, New York.



ENGINEERED EFFICIENCY IN DUST COLLECTION

More POWER NEWS

the coach was built by Coratene of Wooster, Ohio. Individual exhibits designed by Gardner Displays Co. ofburgh.

Canal Gets Face Lifted

THE PANAMA CANAL is getting a major overhaul since it was built 75 years ago. The first phase of the project to be completed by 1956, will cost estimated 1 1/2 million.

Since the opening of the 55-mile canal in 1915, traffic has grown steadily. Shutdowns for repairs have increased according to the board of the Panama Canal Co., necessary overhaul today reducing operating efficiency during five months every thirty.

The first part of the two-phase plan involves replacement of major locks costing a quarter-million dollars. Together with repair of the lock gates these new controls will shorten the time required to fill and empty lock chambers. Prototypes of the eight types of gates have already been built at the ship plant of Federal Electric Products Co. delivery of the 398 units—began in May will continue through August.

Operation of the six double sets of gates requires 398 motors running on 2400 cycle alternating current. A control system that is, in effect, a miniature of the canal itself directs the lifting of the gates. Water to operate the locks comes from Madden and Gatun Lakes, midway to the isthmus. Roughly 26 million gallons of water—one day's supply for the city of Boston—is poured out to sea in one ship through a set of locks. Flow water is controlled by a series of gate-driven valves, ducts and culverts.

These motors range from 7.5 hp to 100 hp. Their controls consist of reversing combination starters with circuit breaker connects and combination reduced-voltage starters with unfused disconnect switches of both reversible and non-reversible type. Overload relays, designed by Federal Electric, will provide positive protection for the canal's specially-designed motors.

Power Behind the Curtain

"Huxnazo" wind-driven generators have been adapted for use along Russian road lines, reports Pravda, official Communist newspaper. At the same time, Pravda charges the USSR ministry of agriculture has failed to take practical action in using the new generators.

Pravda has criticized sharply the USSR Academy of Sciences for failure to organize a hydroelectric institute. The paper charged that the academy has done no development work in the field of hydroelectric generators and turbochargers, thereby neglecting matters of extreme urgency for Soviet power engineers.

BULGARIAN electrification progress has been running into serious difficulties. Communist spokesmen announced that maintenance, negligence and bureaucratic administration were playing havoc with power supplies. Essential to Bulgaria's

A. P. GREEN

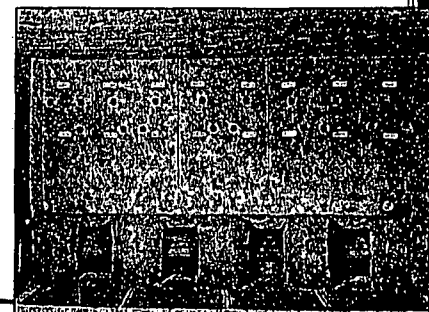
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