

SALES PRODUCT & SERVICE EXCHANGE

PLAINTIFF'S
EXHIBIT

NAR-561

TOP SECRET BUREAU OF INVESTIGATION AND FEDERAL BUREAU OF INVESTIGATION

PRODUCTS: NARCOLINE G Gun Mix DATE August, 1963
NARMAG CM-18 GUN Gun Mix
SALESMAN R. C. Crosson
COMPANY Great Lakes Steel Corp.
PLANT LOCATION Detroit, Michigan

OPEN HEARTH FURNACE RUNNERS

In Great Lakes Steel's bifurcated open hearth steel runners, NARCOLINE G is gunned with a Jetcreter over the surface of NARMAG CM-18 GUN gun mix or chrome plastic. The NARCOLINE G acts as a parting agent and prevents the slag and steel from adhering to the chrome backup material in the runners. The NARCOLINE G is gunned from 1/4" to 2" in thickness on the surface of the runners. There is no pre-moistening. The runners are scraped and cleaned up after each heat and re-gunned with NARCOLINE G. From 15 to 40 bags are used each time the runners are cleaned up, depending upon the condition of the runners. Present usage is approximately 16 pallets of NARCOLINE G (3000# per pallet) per week. We are supplying NARMAG CM-18 GUN for lining these runners as the existing linings are replaced. NARMAG CM-18 GUN is preferred because of labor savings. Runners can be gunned in 1-1/4 hours as opposed to 8 hours for ramming chrome plastic.

Kaiser's L-59-E has about the same properties as NARCOLINE G. We now share their requirements for open hearth runners with Kaiser on a 50-50 basis. Lawrence Refractories' C-60 and C-61 RUN-R-MIX and National Foundry Sand's gun mixes were much less expensive (\$40.00 N.T. delivered). However, this material did not gun as well and did not allow the slag and metal skulls to pull free of the runners. It also cracked on drying. Cleaning up runners after each heat was very difficult.