D. R. Pogue - St. Louis

May 12, 1970

EFFLUENT ANALYSES

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Effluent analyses at those plants visited in late March have been in-part completed for Johnson Motors, Central Diecasting and Wisconsin Steel. Results are attached for these samples taken at the point where the waste water emptied to the stream or sewer.

At Johnson Motors, from 22-60 M gallons annually escapes to Lake Michigan. This represents 23-60% of their annual usage of 95 M gallons. Of the remainder, 18-58% goes into absorbent and bulk waste oil, and 19% goes up the stack from the remelt furnace. The bulk waste oil and the interceptor pit bottoms are grossly contaminated with oil and solvasol, respectively. Lou Stark reports that Pydraul recovery from these latter two sources is questionable. In addition, their interceptor pit is too small to permit Pydraul to settle from the 700 gpm water flow.

The stream overflow at Central checked very low at 1 ppm Aroclor. Thus, the settling pit and the holding tank contain Central's Pydraul losses to their open water trenches. Unlike Johnson Motors, Central appears to represent the "typical" diecaster with absorbent soaking up to 80% of their total losses.

The stream overflow from the cooling tower of Wisconsin Steel contained less than 1 ppm Aroclor (0.1 gal./yr. Pydraul 135). With the waste treatment system planned at this facility, the final outflow of Pydraul should be contained in the treated sludge. Results are not yet available on the contamination level of the caster pit fluid.

The above points, Bob, indicate several other factors are important to assess:

1. Can Johnson, Central and others economically close the access of Pydraul and other contaminates to their open water trenches? As we found at Milwaukee Diecasting, closed cooling water lines eliminate both stream pollution and problems from cooling line deposits (Central).

MONS 098656

2. Confirmation that steel companies with plant waste treatment facilities have negligible synthetic fluid (Pydraul) escaping into the final stream/sewer outfall.

To help answer these questions can we plan to visit this month Bethlehem Steel and Inland Steel who have waste treatment systems. Also, return to Johnson Motors and see Briggs & Stratton regarding effective policing of their hydraulic fluid usage. I suggest May 25 and 26, if convenient, for these calls.

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attach.