

to the Committee on Science and Astronautics, committee print entitled, "The Adequacy of Technology for Pollution Abatement") and the approach expressed therein. It raises what are to us some very searching questions that need to be answered, and we think this is the right approach to this broad problem.

The pulp and paper industry, through the National Council for Stream Improvement, as well as the Sulphite Pulp Manufacturers' Research League and the Northwest Pulp & Paper Association, carries on intensive investigations in the fields of stream ecology, effluent treatment, and waste utilization. (Information provided on this subject may be found in the committee files.) Also, the Institute of Paper Chemistry conducts biological surveys and undertakes special projects for individual companies in fields related to stream improvement. The largest and broadest effort is that of the National Council for Stream Improvement, since the Sulphite Manufacturers' Research League deals mainly with byproduct recovery from spent sulfite liquor and the Northwest Pulp & Paper Association with surface water problems common to the Northwestern States. Both these latter organizations cooperate in the national council's activities participating from time to time in projects of mutual interest.

Mr. VIVIAN. Mr. Chairman, I have an informational question.

I presume the council is supported totally by the pulp and paper industry. Is that correct?

Mr. KNOWLTON. Yes, sir; it is. It is a nonprofit organization supported by about 85 to 90 percent of the establishments within the industry. Its objectives are twofold. Research and engineering, and technical assistance.

Mr. VIVIAN. Are contributions to the council considered tax deductible?

Mr. KNOWLTON. Yes, sir; it is an operating expense.

Mr. VIVIAN. Thank you.

Mr. KNOWLTON. The national council maintains five regional research centers which are as follows:

In New England, the New York region at Tufts University in Medford, Mass.

In the South Central, Middle Atlantic region, the Johns Hopkins University at Baltimore, Md.

The Southern region, Louisiana State University in Baton Rouge, La.

The Central and Lake States region, at Western Michigan University in Kalamazoo, Mich., and

The West Coast region, Oregon State University, in Corvallis, Oreg.

The work of these centers is from time to time supplemented by special projects located at other institutions when specialized talents are required. An illustration of this is the one soon to get underway at Lehigh University's Surface and Coating Institute on the separation of water from hydrogels. The purpose of this project is to suggest novel means for improving the dewatering of waste slurries produced by effluent treatment to permit more satisfactory disposal.

Through these regional research centers, all of the waste disposal problems of the industry are, or have been, subjected to productive and continual investigation.