

formation on research projects being supported also is regularly reported to the National Science Foundation through the science information exchange reporting system.

Current practices in urban renewal activities often fail to take into account pollution abatement factors and environmental quality protection. The Office of Solid Wastes has initiated discussions with the Department of Housing and Urban Development principally regarding coordination of statewide planning activities and it is anticipated that these discussions can and will be broadened to include urban renewal activities.

The basic legislation for the solid waste program requires proper and careful consideration of the total problem of pollution of the environment. Accordingly, the Office of Solid Wastes has established an Operations Research Unit and is supporting research projects to develop and expand the use of systems analysis techniques for the solution of environmental pollution problems.

Coordination to resolve specific solid waste disposal problems encountered by other Federal agencies at Government facilities is being coordinated through cooperative arrangements. Solid waste disposal problems encountered by other Federal agencies and programs in the conduct of their activities are resolved generally on an ad hoc basis.

Question 11: Please summarize qualitatively the current backlog of proposals from both industry and universities for the undertaking of research and development in pollution abatement. What would your annual budget requirement be if all desirable proposals were accepted?

Answer: The Division of Air Pollution has a backlog of research proposals in the sense that funds are not currently available to support the proposed projects—currently amounting to several million dollars. In addition, there is a backlog of comparable magnitude consisting of proposals initiated by the Division staff. Approximately half of these proposals are in engineering and the physical sciences and are concerned in large part with technology for the identification, measurement, analysis, and control of pollutant emissions. Another large group of pending proposals is in the area of medical and biological research concerning the effects of air pollution on health. Most of the engineering research is proposed for funding by contracts with industry, while most of the research in other areas would be carried out by universities.

Currently there are 10 approved but unfunded research grants in solid waste totaling \$431,472. These proposals include projects on utilization of compost as a soil conditioner, pipe transport of solid waste materials, and chemical conversion of solid waste components, as well as other promising and important areas needing additional scientific investigation.

High priority unfunded contract proposals received by the Office of Solid Wastes exceeded the funds available for contracts by approximately \$750,000. These proposals included: studies of the economics of solid waste disposal; investigation of the feasibility of using existing transportation systems on a regional basis; systems analysis to improve solid waste management; studies of new and improved reduction facilities; incinerator energy utilization; and health investigations.