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Clinton Laboratories.

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To: M. D. Whitaker

From: J. E. Wirth, M. D.

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In re: PROJECTED WORK AFTER JUNE 30, 1945

At the Project Council Meeting in December 1944, Mr. Compton requested recommendations for work to be continued after June 30th, 1945. I am forwarding the following recommendations to you from the Medical Div. A copy of this is being sent to Dr. Stone as the Clinton Laboratories part of the over-all medical program.

Required medical services may be summarized as follows:

I. Medical Activities

- (a) Pre-employment, interval, termination and transfer physical examinations.
- (b) Dispensary service for treatment of sickness and injury occurring on the laboratory's site.
- (c) Laboratory examinations.
- (d) Observation of personnel exposed to hazards.
- (e) Medical surveys of groups in hazardous areas.
- (f) Analysis of medical data collected during the project.

II. Health-Physics Activities

- (a) Surveys.
 - 1) Personnel. Metering with ionization chambers and films and monitoring for hand, clothing and other personal contamination.
 - 2) Area. Routine surveys for contamination, over-tolerance radiation, and local area air-borne radioactivity of all Laboratories in use. Decontamination laundry monitoring.
 - 3) Atmosphere. Field surveys necessary as long as the pile is in operation.
 - 4) Waste Disposal. Monitoring of effluent waste waters and surveys of activity of adjacent drainage areas. (White Oak Creek drainage system and Clinch River)
 - 5) Maintenance and calibration of survey instruments in use.

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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: <i>Doel/H2/UD Appr 1/1/96</i>	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (ADD):	1. CLASSIFICATION RETAINED
NAME: <i>Doel</i>	2. CLASSIFICATION CHANGED TO:
DATE: <i>9/3/96</i>	3. CONTAINS NO DOE CLASSIFIED INFO
	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

III. Projected Medical and Health-Physics Problems.

- (a) Analysis of medical data collected during the project.
- (b) Study of methods of final disposition of contaminated buildings and equipment.
- (c) Determination of atmosphere surveys necessary for radioactive materials from newly developed piles or procedures.
- (d) Study and determination of a method and necessity of final disposal of and means of protection of persons from radioactive contamination present in the drainage area.
- (e) Study of means of final treatment or disposal of contaminated materials in the burial grounds to prevent them from being a future hazard.
- (f) Development of new instruments still needed; better alpha counters, portable counter circuits and slow neutron measuring devices.
- (g) Determination and study of health hazards connected with research in any new fields under investigation by the laboratories.

All medical and health-physics activities will have to continue at the present level as long as any departments of the laboratories continue to work. It must be remembered that the Medical Division has been understaffed because of the scarcity of trained personnel even for the present routine service work. Expansion is in order even with continuance of the activities of the laboratories at the present level, to the extent of two physicians, two health-physicists, five instrument checkers, one nurse and two medical technicians; a twenty percent increase. If the present activities of the laboratories decrease, health-physics personnel monitoring and surveying these areas may be transferred to inadequately staffed areas. Any new projects undertaken by the laboratories would require a proportionate additional medical and health-physics personnel.

John E. Wirth, M.D.
Medical Director