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John R. Horan, Director H&S Division  
Through: W. P. Gemmill, Chief, HP Branch

July 1, 1964

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U. S. Weather Bureau

WEATHER BUREAU MONTHLY ACTIVITY REPORT, JUNE 1964

NFI:LGT

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SNAP Destructive Tests: The radiation measurements conducted by PPCO and the H&S Division, ID are being analyzed from a puff diffusion model standpoint. Some departure of the puff dimensions and center-line concentrations from those measured from continuous point sources have been noted and are being evaluated with the assistance of turbulence measurements from bivanes and the radar-transponder runs.

Diffusion Studies: Two releases of fluorescent tracer, in which a line source was made by a vehicle towing the compressor and aerosol generator, have been conducted upwind of the 200-ft. Grid #3 tower. The change of concentration with height during neutral and stable conditions is being explored in this study. Work on the development of irradiated particles for meteorological tracers is continuing in conjunction with the Analysis Branch. Different elements have been emitted into the air over Grid #3 and the samples are being processed by the Analysis Branch after irradiation in the MIR.

M-33 Radar: The M-33 radar and accessory equipment have been moved from its previous location on Circular Butte to a knoll about 1 mile northeast of MIR. The site affords good surveillance of most of the NRTS, is quite accessible, and will provide optimum coverage of activities on Grid #3 such as the iodine 129 releases planned there in July and August.

Reactor Hazards Analysis: The hazard report "Preliminary Safety Analysis of the Fast Test Facility" (FARET) ANL 6813, was reviewed for the HP Branch, ID.

SPERT II: Operational forecasts for tests in the SPERT II were given to the contractor and HP Branch, ID for coverage of certain tests in that facility. Southwesterly winds with good mixing conditions were prescribed for the test. In addition, minimum temperature forecasts were given to prevent possible freezing of the heavy water in the heat exchanger. The water had to be drained on several occasions because the minimum temperature was forecast and also observed to be below 42°, the freezing point of heavy water.

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John R. Horan

- 2 -

July 1, 1964

Training: Instruction on meteorological support activities at the NRTS was given to Desmond R. Davy, AEC of Australia.

A weeks instruction in meteorology is being given to the Radiation Fellowship class.

Miscellaneous: The semi-annual report for the Weather Bureau has been completed and copies submitted to HP, ID for review.

Messrs. Mueller and Schumate, Weather Bureau, Las Vegas, Nevada visited this station to observe and obtain experience in techniques of releasing and tracking transponders with the M-33 radar.

Abe Bernstein, Central Office, Washington, D. C. visited to discuss plans for turbulence and heat budget measurements for the summer of 1965 or later.

Norman F. Islitzer  
Meteorologist in Charge

cc: Don Pack, EMRP  
John R. Horan ✓

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