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15. Two drop-scale procedures for the determination of hydroxylamine in 224-231 process solutions was developed.
16. A method for the determination of potassium has been modified and improved for use in the 231 process.
17. Determination of nitrate titrimetrically. Some work, never too successful, was done.
18. The existing method for chromium III was modified to give a more stable color.
19. In connection with the analysis of plant sample, the effect of XNH on the null-point method for H in XNH solution was studied.
20. A complete revision was made of the null-point method for hydrogen in X containing samples.
21. Developed semi-micro method for Iron in 100 Area water.
22. Investigated existing procedures for chromium in 100 Area water.

B. Special Services to the Area Laboratories

1. The entire Ion Analysis manual has been written and revised as necessary.
2. Numerous procedures and experimental techniques have been demonstrated to either 222 or 231 laboratories (Zirconium, hydrogen ion, X, fluoride semi-micro, sulfate, hydrazine, and the primary sampler).
3. Special ion analyses on plant samples, both hot and cold, at the request of the 222 laboratory. Analyses run include all the H and X analyses on the February and March runs in 221.

Other analyses run on request include lanthanum, zirconium, hydrogen, X and sulfate.

C. Special Services to the Laboratories Division

1. Virtually all the micro equipment for the division has been stocked and dispensed by the group through Room 7.
2. All spectrophotometer servicing, including supply of spare parts, until February 1 was handled by the group.
3. Monitoring and dishwashing services for the Laboratories in 3706 have been operated by the group.
4. Remote control apparatus for the handling of hot samples was assembled and demonstrated to the group.

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