FLIN SOP-04 QC and Calibration Procedure

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Approved by Director: Dr. Guy Vallaro

Title: QC and calibration procedure for a SEM/EDS

A. Purpose: To ensure that the generated data are reproducible and accountable.

B. Responsibility: GSR analyst or designee

C. Procedure:

- 1. Set up the same parameter as analyzing a questioned sample in the SEM and run a copper check sample. The resulting data from the copper check sample will be compared to previous data to ensure confidence in the validity of the check sample. If an abnormal response on the copper was observed, a copper re-calibration needs to be conducted.
- 2. A blank disc will be run with a batch of case discs(QC SOPIN05).
- 3. A quality control disc (PLANO) will be run monthly(QC SOPIN05). The resulting data from the PLANO control disc will be compared to previous data (e.g., the previous month) to ensure confidence in the validity of the disc.
- 4. An annual system preventive maintenance by the vendors will be performed to clean and calibration the instrument mechanically and electronically.

D. References

Hitachi S-3700N user's manual

EDAX Genesis user's manual

