## EXETER ANALYTICAL, INC.

## Typical Operating Procedures CHN Operation

Parameters: CT = 20 seconds PT = 15 seconds Combustion Setpoint = 980 °C Reduction Setpoint = 700 °C Adjust Helium regulator such that FillTime is in the range 20 - 50 seconds. FT is listed on printer output. This will correspond to a regulator output of about 17 PSI. Adjust Oxygen output to 20 PSI Calibrate CE-490 at least weekly and after power failures. Sample and calibration runs should use between 1500 – 2000 micrograms. Run Sequence Empty Blank (\*) Empty Blank (\*) Empty Blank (\*) Empty Blank (\*) COND (+) **COND** Capsule Blank → This blank will be used for STD1 and samples below. **COND** STD1 STD1 → Calibration. System will average the two. Sample Sample "

Check standard every 15 samples or so or as per SOP

(\*) Run blanks if the CE-440 has been off for many days

Etc.

(+) A conditioner or COND is an umweighed sample of approximately 1500 – 2000 micrograms.

## **Operating Procedures for hard to burn samples:**

Make sure the sample is well ground to a fine powder ( smaller than 100 mesh ). Use small sample size ( not to exceed 1500 ugram )

Parameters: CT = 90 seconds

PT = 15 seconds

Combustion Setpoint = 1040 °C Reduction Setpoint = 700 °C

Adjust Oxygen output to 25 PSI