1.0 SCOPE

1.1 Instructions for using furnace sample ports.

2.0 EQUIPMENT REQUIRED

2.1 ¼-inch sample tubing, stainless steel or teflon.

2.2 Gas Analyzer, O2, Moisture or other.

2.3 9/16-inch open-end wrench.

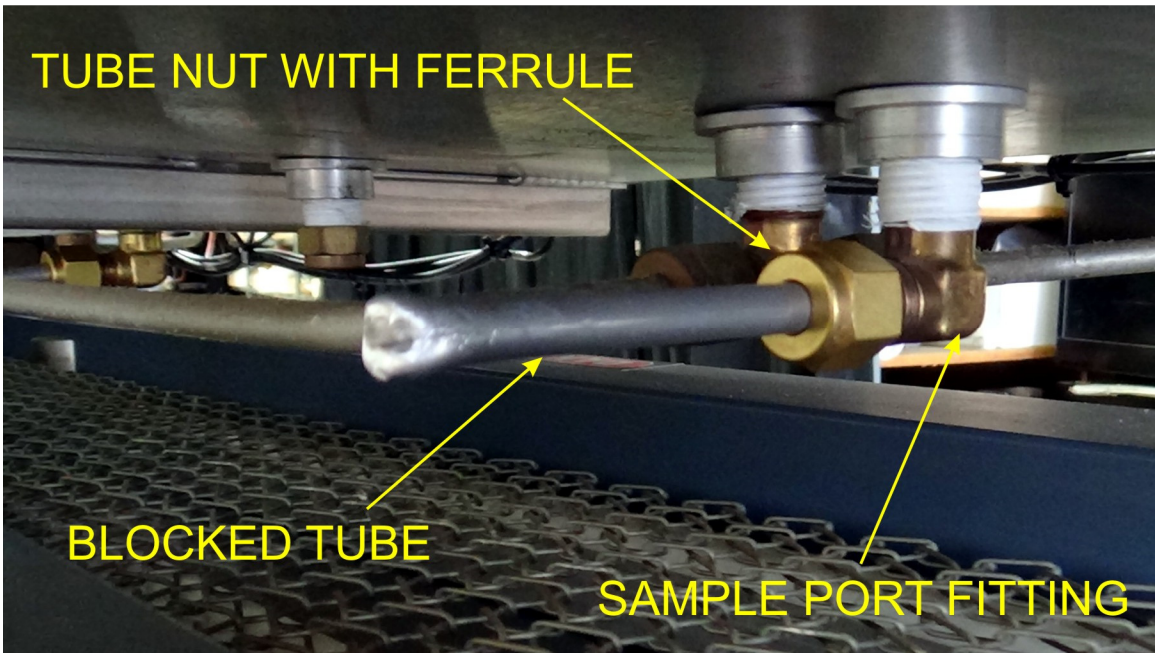

Figure 1. Sample Port and Fittings

3.0 FURNACE

3.1 Disconnect power from the furnace

3.2 Remove furnace side panel close to furnace entrance.

3.3 Under the furnace chamber, locate the sample port fitting for the chamber zone that is to be sampled.

4.0 EQUIPMENT CONNECTIONS

4.1 Using a open-end wrench, loosen the Tube Nut and remove Blocked Tube.

4.2 Slide Tube Nut and Ferrule from Blocked Tube. Retain Blocked Tube for reinstallation later.

4.3 Install Tube Nut and Ferrule over new sample line tubing.

4.4 Gently tighten nut back in place on Sample Port Fitting. DO NOT OVERTIGHTEN.

4.5 Connect other end of sample line tubing to sample pump suction or Analyzer IN.

5.0 SAMPLING

5.1 Start sample pump and/or analyzer.

5.2 Allow adequate time for sample line to dry and sample to saturate tubing walls.

6.0 MOVE OR DISCONNECTING THE SAMPLING SYSTEM

6.1 To change sample ports, loosen Tube Nut and disconnect sample line and reattach at another port. Make sure all unused ports are closed or blocked.

6.2 When the analyzer or sample pump is to be disconnected, close off the sample line using a valve or replace sample line with Blocked Tube using Tube Nut and Ferrule.