**Project Name:** VAR Billet Measuring System
**Project #:** 12555
**Customer:** Special Metals

**Meeting Purpose:** Initial Customer Meeting
**Date:** 12/09/11
**Meeting Length:** 35 minutes
**Present Parties:** Jared Dodge (Design Team)
Michael Imhof (Design Team)
Michael Cheney (Design Team)
Michael Hvorecny (Design Team)
Brandon La Quay (Design Team)
Dr. Alan Reisenan (Faculty Guide)
Benjamin Hailer (Special Metals)

**Questions:**

- **Is the specimen guaranteed to be round?**
  *The specimen can be assumed to be round.*

- **How is the billet transported? How is it mounted to the (horizontally/vertically, crane/fork truck, etc)?**
  *The specimen is transported through the foundry horizontally, normally on a transport rack.*

- **How frequently will we have to measure along the length of the specimen?**
  *The specimen should be measured about 3 inches.*

- **What system is currently in place?**
  *Currently measurements are taken at either end of the specimen and in the center and the average of the measurements is used.*

- **What is the surface of the billet like?**
  The specimen is ground using a longitudinal grinder, so the specimen is shiny.

- **What do the ends of the billet look like?**
  *The ends of the specimen will be cut off at 90 degrees to the surface.*

- **Where along the manufacturing process would you like to scan?**
  *The best place would be at the grinding process.*

- **Can we stop the billet to measure it or are we going to have to measure on the move?**
  *Prefer not to have to stop the billet and go to a special area to measure it.*

- **What kind of output is desired (excel, .txt file, etc)**
  *Excel, csv, .txt all acceptable*

- **What temperature is the billet at the time of measurement?**
  *The temperature is anywhere from 150 – 32 degrees F.*

- **Any freedom in positioning the billet.**
  *The billet should be horizontal.*

- **Do we have access to a host computer to use?**
  *Yes.*

- **Is this the only sized billet that would ever be used in the device?**
  *The billet is 21”-17” in diameter.*

- **What is the budget for this device?**
  *Anything less than $10,000.*

**Action Items**

1. We will get the a solid model of the grinder to analyze it for a measuring site.
2. Investigate other sensors/ measuring methods.