DSG Ansys R&D Meeting

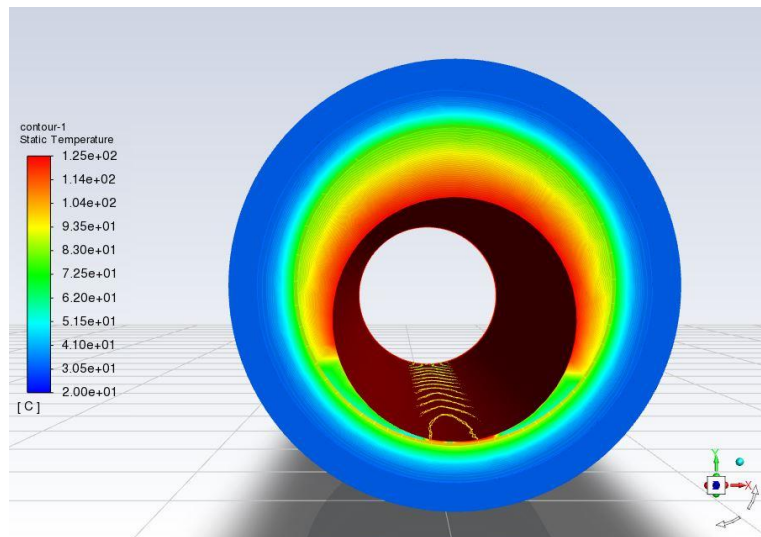**Date: March 16, 2023**
Time: 2:00 PM – 3:00 PM

Attendees: Aaron Brown, Pablo Campero, Brian Eng, Marc McMullen, and Tyler Lemon

1. **Discussed Ansys Fluent set up and preliminary results for thermal simulation of beam pipe test stand**
   1. Temperature of outer face of beam pipe set to 125°C
      - Represents immersion heater used in test stand

Air flow velocity [m/s]	Si sensor max. T [°C]	Si sensor min. T [°C]
1E-07	119.43	118.92
0.1	89.54	86.11
0.2	70.13	66.08
0.5	46.88	43.17
1	37.60	34.63
1.6	33.23	30.71
2.1	31.36	29.12

Table of results at various air flow velocities.

Front, inlet view of simulation results with air flow velocity of 1.6 m/s