

GROUP 1 STIRLING COOLER
MEETING MINUTES
Group meeting: SEP7, 2018

Member present: Luis, Abdulrahman, John, Faiez, Ahmad

Announcements:

Team input:

- Looked at different important topics for our individual tasks.
- Discussed locations and organizations of files and materials.
- Talked about how we would pick the linear motor

Individual Progress:

Luis: will try to calculate the COP, resistive network, and heat transfer from hot and cold sides.

John: will investigate the linear requirements, equations of motion, duty cycle, and linear motor selection based on the requirements.

Abdulrahman: will determine the specifications of the pin or key used to hold the shaft from the linear motor.

Faiez: will compare existing designs heat transfer such as indirect cooling and direct cooling with conductive connections.

Ahmad: will look into hoop stress (pressurized cylinders) and temperature affects.

Future Direction:

We as a team will meet with our Client to get more information about Linear motors. Also, we will be focusing from today on about the manufacturing process.