**PDS Document Outline**

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Title page: Thermal Analysis of a 2U CubeSat

Short intro (background):

* Getting a ride from NASA to the ISS as part of the CSI (CubeSat Initiative)
* Observing cirrus clouds in LEO
* Looking to stay alive for 1 year and then be Oregon’s first meteor shower

Short explanation:

* Thermal analysis on OreSat
  + Standby
  + Active
* Worst/best case scenarios
* Physical verification

Mission statement:

* Design thermal models of the cubesat that satisfies OreSat team questions+
* Evaluate prototype in vacuum chamber
* Complete by June
* We have a nano-satellite in size (10x10x20)cm

Top-level project plan:

* Simplify the SolidWorks model
* Vacuum chamber Bake-out
* Perform thermal analysis in Ansys
  + Phil Wahl as resource for Ansys modelling
  + Tretheway is simulation Jesus
* Process data in such a way that it remains consistent with theory
  + Kathleen will be number cruncher

Identification of Customers (stakeholder):

* PSAS
* NASA - for the launch

Customer feedbacks and interviews:

PDS (criteria or category, customer need, priority, engineering metric,

targets, basis for target selection, and verification methods if

applicable)

Conclusions: (summary of what the document addresses and some of

the most important or challenging specification).

Attachments