1. Read: “Lewis Spacecraft Mission Failure Investigation Board Final Report”, 12 February 1998, <http://spacese.spacegrant.org/Failure%20Reports/Lewis_MIB_2-98.pdf>

For this NASA case study, *prepare to discuss* in class, the second step in DMAIC, Measure (do not turn this in):

* + Identify a problem to be solved in the Lewis mission failure case study
  + Identify appropriate **measures** that would **validate** the problem and any solutions
  + Identify **baseline data** that would need to be collected
  + (IF YOU"RE NOT LIVE, THEN YOU MUST DISCUSS THIS IN THE DISCUSSION GROUPS in Canvas)

1. For **your selected case study**, submit a draft of *your* “Define” section (see Syllabus) of a suitably small process to make an improvement to – NOT the entire program office, program, or systems engineering process – a focused, relatively tiny, *part* of a process within your selected case study. Later you will discuss how you measure what you’re changing, what the improvement will be, etc. This is merely *defining* what this part of the PROBLEM is.

“Define the Problem”. 3-4 pages.

* + Define the project purpose and scope – the problem to be solved or improved. Include a Project Charter (C6σGBH, p. 95).
    - Problem statement guidance: <http://www.dummies.com/how-to/content/how-to-write-a-problem-statement-for-six-sigma.html> (anyone who seems not to have looked at this will have 5 points deducted)
  + Define the *existing* processes (that you will suggest a change to) using a SIPOC or equivalent representation.