GENESYS Requirements

Derived from the Teams chat with Prof Long

* Project Information sheet must be filled out/completed
  1. Client info
  2. Description/summary of project
  3. Etc.
* Need to fill out the Wasson domains
  1. Successfully classifying elements to their corresponding domains
  2. Using proper naming/numbering convention
* Every time we receive or create a document for this project it needs to be documented in GENESYS
  1. There is a document section in GENESYS under Systems Engineering
* Any changes to previously approved Decision Gates need to be documented in the Change Request Package section
* Required to do Risk Management
  1. Concern section in GENESYS
  2. Any questions should be documented here
  3. Concern could turn into a risk (may exceed budget, may miss hard deadline, etc)
     1. Documented in the risk section in GENESYS
* Should be able to export all fields from GENESYS into Excel using the Excel Connector

A GENESYS file is required for every Decision Gate (DG)

* DG 1&2 -- Requirements Domain (Start with defining requirements)
  1. Stakeholder requirements (looking outward – how the system is going to be used)
     1. DG 1 – definition of stakeholder requirements
  2. System requirements (looking inward – what are the specifications that need to be met)
     1. DG 2 – System requirements definition record
  3. Requirements diagrams
  4. Exporting requirement data using excel connector
* DG 3 – Operational Domain
  1. Use Case
  2. Use Case Diagrams
* DG 4 – Behavioral Domain
  1. Function
  2. Activity Diagrams
* DG 5 -- Physical Domain
  1. Component
  2. Any one of the following diagrams
     1. Block Definition Diagrams
     2. Physical Block Diagrams
     3. Flow Internal Block Diagrams
  3. System Architecture Definition Record
     1. All candidate system architectures must satisfy the system function definition record (SyFD) and be traceable to all Wasson Domains. Traceability should be summarized using a Traceability Table for each system architecture.
     2. It is recommended that you produce a minimum of 3 candidate system architectures prior to the decision gate review
     3. System Architectures should be clearly represented using Block Definition Diagrams and Internal Block Definition Diagrams. The use of interfaces is required. Use links and items in addition to interfaces where appropriate.
     4. All system blocks should begin with the “P.1” prefix ID, and a formal component name and description (For example: ID#: 1.1, Name: Display Panel, Description: Display panel for control settings).