**NDIA 27th Annual Systems & Mission Engineering Conference**

**SESSION 1**

**Systems Requirements Review (SRR)**

* What really is the MVP, we need to define this better.
* Agile KPPs for achievable tech, we need to manage new requirements effectively.

Digital Engineering:

* Add digital thread to Contractor’s Systems Engineering Management Plan (SEMP)
* Ensure operational and sustainment plans are required for the program are aligned to program CONOPs
* Add digital twin requirements to models and simulations that use data are identified and captured in the Integrated Master Plan (IMP) or equivalent plan. – Define How, when, and why? We need to increase the use of models and simulations.
* Verification through analysis using models and simulations need to better definition on what verification really means.
* Training plans to be drafted in this stage.
* Cost model need to also track risk.

**Challenges**

* Building models of the system and requirements using the tool Cameo.
* Reviewing OP requirements, especially in the ASOT for SRR requirement completeness analysis.
* Managing the expectation of “complete requirements” at SRR, as requirements will always change.
* Evolving the traditional SRR process to an IDE-enabled process, which includes:
* Identifying requirements.
* Conducting lower-level team process reviews.
* Inefficient use of participants’ time during the review process.
* Establishing context around the “why” of a requirement and providing a rationale.
* Meeting SRR expectations while dealing with different tools and ensuring operational inputs from the customer.
* Customers lack understanding of how to use or interpret digital tools and lack facilitators to guide them.
* Model contains too much information, requiring SRR to guide the customer through the information flow. Customers need to know where all information is within the model.
* Functional requirements are not linked within the acquisition process, which gets cut later in the cycle.
* Requirement completeness expectation at SRR is challenging to meet.
* Keeping up & getting comfortable is a challenge.
* Standards need to cover specifics & consistency.

**Tools**

* Excel…
* No waterfall checklist; needs to be agile.
* Needs rules for different aspects, not guides.
* Need a model creator (tool).
* No P.D. index.

**SESSION 2**

**Responses**

* “For real why is AI not being used more…” It can be used to trace requirements, auto generate, query data, and quality check.
* AI tools can present data / sequence & interpolate. Parametric AI needs to included
* Digital Data is central / completed / & accessible
* Interface segments matter
* Verification through analysis is good as a requirement if it is verifying the requirement in draft, but not the system
* Live fire test could be down 90% with Simulations & Models
* Verify the model, then the system
* SETR needs to allow for ‘system production.’
* If we are architecting vs new system interaction

**Additional Feedback**

* Segment Tables by product not phase
* Needs vertical alignment
* We need to remember Cost, Schedule, Performance, and Risk