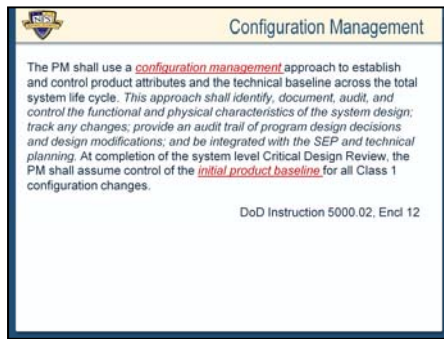


Take a look at the blow-up of the Outputs block from the Systems Engineering Process in the Engineering and Manufacturing Development phase. Most of what's there is very similar to the Output block of the SE Process in the Technology Development phase. One of the things that *is* different is the Initial Product Baseline.

In this short presentation we'll talk about the Initial Product Baseline and the role it plays in the EMD phase and subsequent phases.



Before we talk about the Initial Baseline Review, though, I need to mention Configuration Management. It's a term that you're likely to run into if you work on an acquisition program for any amount of time.

The DAG describes Configuration Management as “the application of sound program practices to establish and maintain consistency of a ... system's attributes with its requirements and evolving technical baseline over its life. It involves interaction among government and contractor program functions.”

These functions include things like systems engineering, hardware and software engineering, specialty engineering, logistics, contracting, and production. Although it's not specifically called out, HSI is very much a part of Configuration Management.

The program manager is supposed to use configuration management to establish and mature the technical baseline throughout the acquisition life cycle.

The best way to accomplish Configuration Management is through an Integrated Product Team environment.

Take a look at the quote on this slide from DoD Instruction 5000.02. It directs the Program Manager to use a Configuration Management approach. The italicized portion in the middle of the quote gives you an idea of what needs to be done. It helps ensure that every aspect of a system or configuration is documented and tracked. Nothing should fall through the cracks.

Also note the words in red at the end of the quote. It talks about the Initial Baseline Review and directs the PM to take control of the baseline immediately following the Critical Design Review for Class 1 changes. A Class 1 change is a change that affects the government performance specification.



Initial Product Baseline

Developed during CDR.

Finalized during PCA.

Initial Product Baseline describes:

- Functional and physical characteristics
- Any joint and combined operations involvement
- Functional and physical characteristics used in testing
- Tests required configuration item

The Initial Product Baseline comes out of the Critical Design Review in the EMD phase and it's finalized during the Physical Configuration Audit (PCA) in the Production and Deployment phase.

The Baseline is the initially approved documentation that describes several things.

It describes all of the necessary functional and physical characteristics of the Configuration Item.

It describes any joint and combined operations that the configuration item will be involved in.

It describes the functional and physical characteristics that will be used for production acceptance testing;

And, it describes the tests that are required for the deployment, installation, support, training, and disposal of the Configuration Item.