Project Development and Delivery

Capital Appropriation Process | Project Delivery

Program Review → Program Review → Program Review → Program Review

Assessment

Establish Project Criteria
- ❑ Define Project Problem with Justification
- ❑ Establish Project Objectives
- ❑ Establish Project Team
- ❑ Business Justification
- ❑ Establish scope and boundaries
- ❑ Success criteria and metrics

Define Options
- ❑ Options Analysis
- ❑ Lessons Learned Review
- ❑ Project Improvement Criteria/Plan

Develop Project Execution Plan
- ❑ Risk Management
- ❑ Equipment List
- ❑ Contract and Procurement Plans
- ❑ Design, Construction, Commissioning, and Start-up Strategy
- ❑ Shutdown Requirements
- ❑ Program Schedule
- ❑ Cost Control Strategy
- ❑ ES&H Strategy

Preliminary Engineering

- ❑ Design Criteria
- ❑ Process Simulation
- ❑ Process Control Strategy
- ❑ Process Flow Diagrams
- ❑ P&ID's IFD
- ❑ General Arrangements
- ❑ Equipment Specs.
- ❑ Equipment Layouts IFD
- ❑ I/O List
- ❑ Tie-In List
- ❑ Equipment Lists

Planning
- ❑ Project Improvement implementation
- ❑ Hazop Package complete
- ❑ Project Execution Plan complete

Procurement
- ❑ Order Long-Lead Equipment

Project Funded

Proj. Definition Pkg.

Detailed Design and Construction

- ❑ Site Work
- ❑ Structures
- ❑ Mechanical
- ❑ Instrumentation
- ❑ Systems Integration
- ❑ Material Handling
- ❑ Piping
- ❑ Electrical
- ❑ Contract Execution
- ❑ Site Material Management
- ❑ SOP's/Training
- ❑ Final HAZOP
- ❑ Shutdown Packages

Start-up/ Commissioning

- ❑ Precommissioning/ Commissioning
- ❑ Turnover Packages
- ❑ Check-out
- ❑ Start-up
- ❑ Performance Validation
- ❑ Maintenance Manuals
- ❑ Operator Training

Project Close-Out/ Operational Follow-Up

- ❑ Close Project File System
- ❑ Cost Code Close-Out
- ❑ Operational Performance Measures
- ❑ Record Documents
- ❑ Document Turnover

Post Project Review

Cost and Scope Progression

Cost Basis	***Factored***	***Screening***	***Appropriation Grade***	***Cost Tracking*** →
Scope Development	Initial PDRI	PDRI Update	Final PDRI	

O'NEAL
THE BUSINESS OF PROJECT DELIVERY