RT-272 Advanced Work Packaging: Toolkit for Implementation Success

Contracts and Tools

Houston AWP Conference
October 8, 2014

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Contracts Subcommittee Chair
RT 272 Committee
AGENDA

Contractual Guidance

Tools:
- Contractor Prequalification
- Maturity Assessment Model
- Project Definition Assessment Tool
- AWP Audit Tool
- EWP / CWP Templates

Wrap Up and Q & A
Are We There Yet?

ADVANCED WORK PACKAGING

- Project Setup → Interactive Planning → CWPs EWPs → WORKFACE PLANNING
  - IWPss

Front End Planning
- Detailed Engineering

Construction
- Commissioning
- Start Up
CONTRACTUAL GUIDANCE

1. Deliverables for Phases – FEED and EPC
2. Guidance for 3 Primary Segments
   • Qualification of vendors
   • Establish requirements of AWP deliverables
   • Measurement and assessment strategies and communications protocols
Contracting Requirements & Deliverables

2 main focus areas

1. AWP Contracting Considerations
   - Contract structure
   - Compensation selection

2. Major Contractual Deliverables by Stage
   - Summary table
   - Responsibility by contract structure
AWP Implementation Considerations: Contract Structure & Compensation Selection

- FEED by Owner
- FEED by Contractor

- Lump Sum / Fixed Price
- Reimbursable Cost
## Major AWP Contractual Deliverables by Stage & Contract Structure

<table>
<thead>
<tr>
<th>Deliverables</th>
<th>FEED by owner</th>
<th>Detailed Engineering FEED by contractor</th>
<th>Construction</th>
<th>EP-C (stages) Detailed Engineering</th>
<th>EPC (stages) Construction</th>
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</table>

* Additional deliverable for AWP

1. Owner
2. EP Contractor
3. C Contractor
4. FEED Contractor
5. EPC Contractor

**Advanced Work Packaging**: Major AWP contractual deliverables by stage
Tools and Templates

AWP Audit tool, Project Definition Assessment, EWP CWP Templates, Maturity Assessment

Practice Model  Tools  Contracts  Example
AWP / WFP TOOLS

Assessments
• Prequalification Process
• Audit for each Project Phase

Plans
• AWP/WFP Execution Plan
• CWP/EWP/IWP Plan

Progress Measurement
• By CWP
• By EWP
• By IWP
Prequalification

- Questions fundamental components of AWP

- Can be added to existing prequalification forms

- First step to gauge maturity and abilities
CONTRACTOR PREQUALIFICATION

Focus Areas

• Tools and Procedures
• Philosophy
• Vendors and Material
• Timing of Engineering Deliverables
• Constructability
• Define design areas
• Work Packaging Processes
• Scheduling and Cost Control
• Org Chart
• Roles and Responsibilities / Training
• Compliance
Advanced Work Packaging Maturity Model

- Two Pages
  - Maturity Model
  - Maturity Stages
- Subjective self evaluation
- Three Levels
  - AWP Early Stages
  - AWP Effectiveness
  - AWP Business Transformation
Project Definition Assessment Tool

• Aids in assessing readiness to begin an AWP Project

• Similar Function to PDRI

• (CII Best Practice – Project Definition Readiness Index) but specific to AWP/WFP only.
PROJECT DEFINITION ASSESSMENT TOOL

Focus on following:

- Project Definition
- Construction Planning
- Engineering Planning
- Refinement of Schedule and WBS
- CWP Boundary Development
- EWP Boundary Development
AWP Audit Tool

- Focused on AWP requirements of a project
- Intended to be used as a supplement to existing Audit processes
- Broken into stages
Construction & Engineering Work Package Templates

- Outline of typical sections included in CWP’s and EWP’s

- Includes narrative explanations of the content and responsibilities
PRESENTATION WRAP UP

Q & A