Changing How the World Builds

AWP Acronyms & Definitions

The following is a list of standard acronyms and definitions commonly used as part of a company's Advanced Work Packaging program.

Acronyms

AWP	Advanced Work Packaging
BOM	Bill of Materials
BIM	Building Information Modeling
CM	Construction Manager
CII	Construction Industry Institute
COAA	Construction Owners Association of Alberta (There is also a Construction Owners' Association of America. In most cases CII members are referring to COAA in Canada in relation to AWP research. COAA is a CII partner.)
CWA	Construction Work Area
CWP	Construction Work Package
E&I / I&E	Electrical and Instrumentation
EPC	Engineering Procurement, and Construction
EWP	Engineering Work Package
FEED	Front-End Engineering Design
FIATECH	Fully Integrated and Automated Technology

FIWP	Field Installation Work Package
GF	General Foreman
HSE	Health Safety and Environment
IFC	Issued for Construction
IFP	Issued for Procurement
IFR	Issued for Review
IM	Information Management
IMM	Integrated Materials Management
IAP / IPP	Interactive Project Planning
ISO	Isometric Drawing
IWP	Installation Work Package
KPI	Key Performance Indicator
LWP	Labor Work Package
MAWP	Module Assembly Work Package
MRR	Material Receiving Report
MTO	Material Take-Off
MTR	Material Test Report
MWP	Module Work Package

P&ID	Piping and Instrumentation Diagram
PFD	Process Flow Diagram
PMT	Project Management Team
POC	Path of Construction
PWP	Procurement Work Package / Procurement Work Process
QC	Quality Control
RFI	Request for Information
SME	Subject Matter Expert
STO / SDTA / STA	Shut Down Turn Around
STP	System Turnover Package
SU	Startup
TA	Turnaround
TIC	Total Installed Cost
TO	Turnover
TOP	Turnover Package
TOT/ToT	Time on Tools
TWLA	Three Week Look Ahead
TWP	Test Work Package

WBS	Work Breakdown Structure
WFP	Work Face Planning / WorkFace Planner
VWP	Vendor Work Package

Definitions

Advanced Work Packaging	A disciplined approach to improving project productivity and predictability through coordinated development of well-defined, constraint-free work packages that are aligned with an optimized path of construction. AWP supports enhanced execution at the work front that reduces unproductive, non-value added time and increases performance reliability and delivery predictability through alignment of planning and execution activities throughout the project lifecycle.
AWP Champion	Responsible for the application and oversight of the AWP program including education and training, information management and execution by all the Project Stakeholders.
AWP Architectural Plan / AWP Framework	A detailed document identifying project specific requirements for AWP application. It includes process flows, interfaces, division of responsibilities, data integration and systems, and the overall project specific plan for AWP and Workface Planning execution. This document is specific to each individual project and will be presented to the owner in the RFP stage. The project specific variations with AWP deployment will be defined and addressed within this document.
Building Information Model	A digital representation of the physical and functional characteristics of a project.
Constraints	Any information, tools, materials, access issues or otherwise that prevent or delay the safe and successful execution of work in its entirety.
Construction Schedule	A schedule (Level 2 or above) that identifies Installation Work Packages as schedule activities that are subsets of Construction Work Packages and shows the relationship to the Path of Construction.

Construction Work Area (CWA)	A geographic division of work, as defined by Company in the Technical Requirements. One CWA can have multiple CWPs for each discipline and/or multiple CWPs within different disciplines.
Construction Work Package (CWP)	A single type of craft or discipline of a CWA that defines a logical division of construction work with less than 40,000 work-hours. The division of work is defined such that CWPs do not overlap and they can be used as contractual boundaries of work.
Engineering Procurement, and Construction	A prominent form of contracting agreement in the construction industry. The engineering and construction contractor will carry out the detailed engineering design of the project, procure all the equipment and materials necessary, and then construct to deliver a functioning facility or asset to their clients.
Engineering Work Package (EWP)	A defined scope of engineering work that is aligned with a construction work package to allow engineering to align its efforts with those of construction.
EWP Release Plan	A control document that is an output from the Path of Construction that shows the Engineering Work Package release dates that are required to support corresponding Procurement and Construction Work Packages.
Foreman	A person responsible for the direct supervision of one labor crew in a single discipline, executing the IWPs in the field, with typically (1) foreman to (10) crew members.
General Foreman	A person responsible to supervise up to (5) Foremen in a single discipline.
Information Manager	Responsible to develop systems and processes that govern the generation and transfer of project information. Responsible to facilitate the development of the project cloud with a document management system.

Installation Work Package (IWP)	A single discipline subset of a construction work package that is designed to provide a crew with a constraint free work scope for a single rotation (generally one weeks' worth of work). IWPs are defined by a scope of materials, and other essential components, along with a set of detailed work steps to track the progress of installation. Each IWP becomes a single level 4 schedule activity.
Integrated Project Schedule	Level 3 schedule that shows Engineering Work Packages, Procurement Work Packages and Construction Work Packages as finish to start schedule activities.
IWP Release Plan	A single control document to be generated and maintained by Contractor to track and communicate the current status of each IWP.
Module Assembly Work Package (MAWP)	A subset of a group of single discipline EWPs that contain all of the Issued for Construction (IFC) engineering data for all disciplines required for the construction of a single module. A group of modules (<10) roll up to become a single CWP and a shipping group. The steel and pipe EWPs for a CWP of modules becomes discrete fabrication packages that identify all the spools and steel piece marks for the CWP (group) of modules.
Path of Construction (POC)	Refers to the sequence in which different areas of the plant will be constructed. Certain factors such as the ability to position large equipment, commissioning and Start-Up priorities, and long lead items must be considered when determining where construction efforts will begin and how they will progress through the geographic layout of the project.
Path of Engineering	Refers to the most efficient sequence of delivery of well-engineered high value solutions. The purpose of AWP is to align EWPs and the Procurement / Material Management System with the POC.
Procurement Work Package (PWP) *Also "Procurement Work Process"*	A procurement deliverable, that identifies all the materials required to satisfy a single CWP. Typically, not a physical package but managed through the assignment of Required on Site (ROS) dates applied against

	components in the material management software. In the case of steel and pipe the PWP becomes a discrete fabrication package that is expected to be manufactured and delivered as a distinct group of components. *Currently being defined as part of RT363.*
Production Design	The process of designing an optimized production strategy for configuring work package types and workstreams (i.e. EWP, CWP, IWP, etc.) or integrating production plans, work packages, or a component of each to deliver the project
Shut Down Turn Around (STO/SDTA/STA)	Projects for which operation at a plant or part of a plant is halted while repairs, maintenance, extensions, or upgrades are performed.
Superintendent	A person responsible to supervise up to (4) General Foreman in a single discipline.
Test Work Package (TWP)	A discrete inspection or test package that is conducted prior to supporting the Commissioning and Startup plan.
Turnover Package (TOP)	A discrete turnover package aligning systems with TWP, CWP, and IWP readiness. *RT-364 is working on a definition for this one along with Commissioning and Start-Up*
WFP Champion	An individual nominated by Contractor who shall be responsible on a dedicated basis to represent Contractor in all aspects of the WFP process and whose duties include being responsible for promoting, implementing and overseeing the WFP process for the Contractor and for proposing continuous improvements.
WFP Lead	An individual assigned by Company for leading the collaboration with Contractor's WFP personnel to integrate work fronts and overseeing the development and management of IWP's

WFP Manager	The individual assigned by Company as the person responsible for the overall WFP process for the Project.
WorkFace	The geographic location at which the physical construction activities are performed primarily by craft labor as part of the Work.
WorkFace Planner / WorkFace Facilitator	Dedicated Contractor personnel whose responsibilities include defining the scope and sequence of IWPs within an CWP well prior to field execution, producing timely deliverables and identifying and expediting the removal of constraints for the IWPs assigned to the Contractor.
WorkFace Planning (WFP)	The process of organizing and delivering all the elements necessary, before work is started, to enable craft labor to perform work in a safe, effective, and efficient manner. The WFP process develops and manages the release of constraint-free work to the WorkFace through well-defined Installation Work Packages.