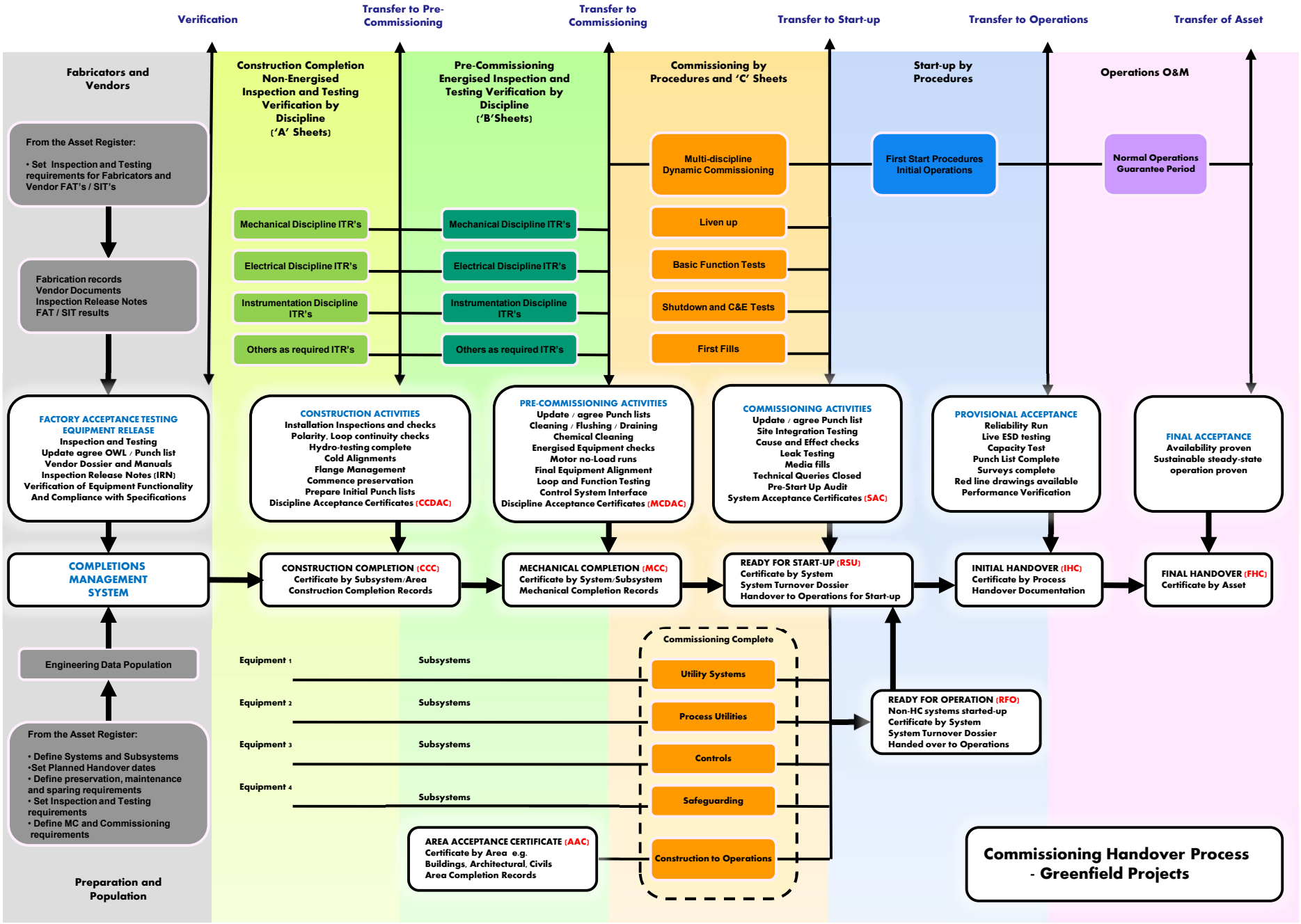
Verification
Transfer to Pre-Commissioning
Transfer to Commissioning
Transfer to Start-up
Transfer to Operations
Transfer of Asset
Fabricators and Vendors
Construction Completion Non-Energised Inspection and Testing Verification by Discipline ('A' Sheets)
Pre-Commissioning Energised Inspection and Testing Verification by Discipline ('B'Sheets)
Commissioning by Procedures and 'C' Sheets
Start-up by Procedures
Operations O&M
From the Asset Register:
• Set Inspection and Testing requirements for Fabricators and Vendor FAT's / SIT's
Fabrication records
Vendor Documents
Inspection Release Notes
FAT / SIT results
Mechanical Discipline ITR's
Electrical Discipline ITR's
Instrumentation Discipline ITR's
Others as required ITR's
Mechanical Discipline ITR's
Electrical Discipline ITR's
Instrumentation Discipline ITR's
Others as required ITR's
Multi-discipline Dynamic Commissioning
Liven up
Basic Function Tests
Shutdown and C&E Tests
First Fills
First Start Procedures Initial Operations
Normal Operations Guarantee Period
FACTORY ACCEPTANCE TESTING EQUIPMENT RELEASE
Inspection and Testing
Update agree OWL / Punch list
Vendor Dossier and Manuals
Inspection Release Notes (IRN)
Verification of Equipment Functionality And Compliance with Specifications
CONSTRUCTION ACTIVITIES
Installation Inspections and checks
Polarity, Loop continuity checks
Hydro-testing complete
Cold Alignments
Flange Management
Commence preservation
Prepare Initial Punch lists
Discipline Acceptance Certificates (CCDAC)
PRE-COMMISSIONING ACTIVITIES
Update / agree Punch lists
Cleaning / Flushing / Draining
Chemical Cleaning
Energised Equipment checks
Motor no-Load runs
Final Equipment Alignment
Loop and Function Testing
Control System Interface
Discipline Acceptance Certificates (MCDAC)
COMMISSIONING ACTIVITIES
Update / agree Punch list
Site Integration Testing
Cause and Effect checks
Leak Testing
Media fills
Technical Queries Closed
Pre-Start Up Audit
System Acceptance Certificates (SAC)
PROVISIONAL ACCEPTANCE
Reliability Run
Live ESD testing
Capacity Test
Punch List Complete
Surveys complete
Red line drawings available
Performance Verification
FINAL ACCEPTANCE
Availability proven
Sustainable steady-state operation proven
COMPLETIONS MANAGEMENT SYSTEM
CONSTRUCTION COMPLETION (CCC)
Certificate by Subsystem/Area
Construction Completion Records
MECHANICAL COMPLETION (MCC)
Certificate by System/Subsystem
Mechanical Completion Records
READY FOR START-UP (RSU)
Certificate by System
System Turnover Dossier
Handover to Operations for Start-up
INITIAL HANDOVER (IHC)
Certificate by Process
Handover Documentation
FINAL HANDOVER (FHC)
Certificate by Asset
Engineering Data Population
From the Asset Register:
• Define Systems and Subsystems
•Set Planned Handover dates
• Define preservation, maintenance and sparing requirements
• Set Inspection and Testing requirements
• Define MC and Commissioning requirements
Preparation and Population
Equipment 1
Equipment 2
Equipment 3
Equipment 4
Subsystems
Subsystems
Subsystems
Subsystems
Commissioning Complete
Utility Systems
Process Utilities
Controls
Safeguarding
Construction to Operations
AREA ACCEPTANCE CERTIFICATE (AAC)
Certificate by Area e.g. Buildings, Architectural, Civils
Area Completion Records
READY FOR OPERATION (RFO)
Non-HC systems started-up
Certificate by System
System Turnover Dossier
Handed over to Operations
Commissioning Handover Process - Greenfield Projects