

# ENGINEERING & CONSTRUCTION RISK INSTITUTE

Document number: <b>ECRI-RI-002</b>	<b>The 6 Project Phases</b>	Page: 1 of 6
Revised: 22 December 2018		

## Purpose:

The purpose of this document is to provide a standard definition, within the ECRI, of the six project phases, and to identify those phases as they apply to each of the ECRI Best Practices.

## Introduction:

The six project phases are defined as follows:

- Phase 1: ITB, Proposal Preparation and Bid Submission.
  - Phase 2: Contract Negotiation and Award.
  - Phase 3: Project EPC Implementation through to Mechanical Completion.
  - Phase 4: Pre-Commissioning, Commissioning, Start-Up, Performance Demonstration and Beneficial Operation.
  - Phase 5: Project Close Out and Warranty Period Administration.
  - Phase 6: Change Management through the Project Cycle under phases 1 to 5.
- Note that all steps in EPC Implementation from Studies, Basic Engineering, Detailed Engineering, Procurement, Construction Management and Construction are included in Phase 3.

## Application:

The table below lists the current ECRI Best Practices and their application to the various Project Phases as defined above.

This table will be updated following the issue of each new Best Practice.

ECRI Doc. No.	Title	Phase1	Phase2	Phase3	Phase4	Phase5	Phase6
<b>General</b>							
ECRI-RI-001	Index of Practices and Procedures	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-RI-002	The 6 Project Phases	yes	yes	yes	yes	yes	yes
ECRI-RI-003	Engineering & Construction Risk Institute Vision	yes	yes	yes	yes	yes	yes
ECRI-RI-004	Individual Sponsors Risk Management Vision	yes	yes	yes	yes	yes	yes
ECRI-RI-005	Most important Risk Categories	n/a	yes	yes	yes	yes	yes

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<b>Enterprise and portfolio</b>							
ECRI-EP-001	Enterprise and Portfolio Risks Applicable to an Engineering & construction Contractor	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-EP-002	Bribery & Corruption	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-EP-003	Enterprise Risk Posed by Mergers, Acquisitions and Disposals of E&C Companies	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-EP-004	Is Risk Management Working- What measures can be used	yes	yes	yes	yes	yes	yes
ECRI-EP-005	Cyber Security	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-EP-006	Conflict Minerals	yes	yes	yes	yes	yes	yes
ECRI-EP-007	Reputation Risk	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-EP-008	Recruitment & Retention of Key Project Personnel	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-EP-009	Social Media Risk	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-EP-010	Risk Management Organisation, Roles & Responsibilities	yes	yes	yes	yes	yes	yes
ECRI-EP-011	Portfolio Risk Analysis & Management	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-EP-012	People Mobility	n/a	n/a	n/a	n/a	n/a	n/a
<b>Contract Terms and Conditions</b>							
ECRI-TC-001	Contract Critical Issues	yes	yes				
ECRI-TC-002	Contract Terms & Conditions. Project Execution-Commercial	yes	yes				
ECRI-TC-003	Contract Issues for Different Commercial Structures and Different Scopes of Services	yes	yes				
ECRI-TC-004	Survey of Standard Form of Contracts for the E&C industry	yes	yes				
ECRI-TC-005	Important Contract Issues	yes	yes				
ECRI-TC-006	Inventory of Standard Form of Contracts for the E&C Industry	yes	yes				
ECRI-TC-007	Dispute Resolution			yes	yes	yes	yes
ECRI-TC-008	Challenging Contract Terms	yes	yes				
<b>Risk Identification /Quantification</b>							
ECRI-RQ-001	Glossary of Risk Quantification Terms	yes					

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ECRI-RQ-002	Criteria for Calculation of Risk Event Contingency	yes					
ECRI-RQ-003	Review of Project Risk Profile	yes	yes	yes	yes	yes	yes
ECRI-RQ-004	Risk Breakdown Structure	yes	yes	yes	yes	yes	yes
ECRI-RQ-005	ECRI Glossary of Terms	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-RQ-006	Risk Management Maturity	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-RQ-007	Definitions & Checklists for Establishing Components of Project Risk	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-RQ –008	Decision Analysis	yes	yes	yes	yes	yes	yes
<b>Project Development</b>							
ECRI-PD-001	Project Development Best Practices	yes					
ECRI-PD-002	Inventory of Additional Risks for Development/Financed Projects	yes					
ECRI-PD-003	Project Development -Early Decision Screens	yes					
ECRI-PD-004	Integrated Risk and Value Management	yes	yes	yes	yes	yes	yes
<b>Risk Financing</b>							
ECRI-RF-001	Risk Financing Critical Issues-Insurance	yes	yes	yes	yes	yes	
ECRI-RF-002	Risk Financing Critical Issues-Bonding	yes	yes	yes	yes	yes	
ECRI-RF-003	Contractor-Owner Division of Risk and Insurance	yes	yes	yes	yes	yes	
ECRI-RF-004	Joint Venture partner Division of Risk Financing	yes	yes	yes	yes	yes	
<b>Risk Management</b>							
ECRI-RM-001	Criteria for a Risk Management Process. App 1,2&3	yes	yes	yes	yes	yes	yes
ECRI-RM-002	Criteria for Risk Management Process: Questionnaire	n/a	n/a	n/a	n/a	n/a	n/a
ECRI-RM-003	Risk Management Planning	yes	yes	yes	yes	yes	
ECRI-RM-004	Tasks Associated with a Risk Management Process	yes	yes	yes	yes	yes	yes
ECRI-RM-005	Risk Register Preparation and Recommendations. Attachments 1&2	yes	yes	yes	yes	yes	yes
ECRI-RM-006	Contingency Drawdown			yes	yes	yes	yes
ECRI-RM-007	Novation-Assignment of	yes	yes	yes	yes	yes	yes



