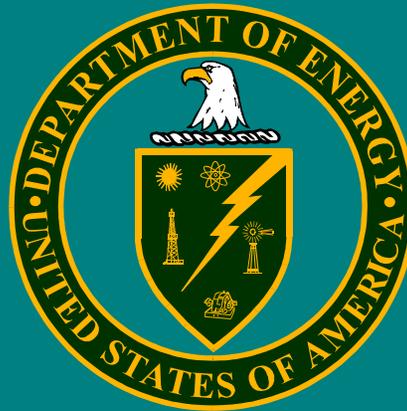


*Environmental Management-
Project Definition Rating
Index (EM-PDRI)*



David Pepson
Office of Project Management (EM-6)

OVERVIEW

- *What Is The EM-PDRI*
- *EM-PDRI Team*
- *EM-PDRI Development Approach*
- *Application/Scoring*

ENVIRONMENTAL MANAGEMENT (EM) PROJECT DEFINITION RATING INDEX (PDRI)

■ *What is EM-PDRI*

- *Project Management Tool Based On Construction Industry Institute (CII) Model To Increase Likelihood of Project Success*
- *CII has 100 Members Including Bechtel, Fluor-Daniel, MK, DOW, Dupont, Exxon, Army Corps of Engineers, And Brown & Root*
- *Rating Elements For Cost, Schedule, Scope, Management Planning And Control, And External Factors*

Environmental Management's Project Definition Rating Index (EM•PDRI)

The Environmental Management (EM) PDRI Team concurs that Revision 1, January, 2001, reflects the requirements in DOE Order 413.3 and the Draft Manual for Program and Project Management, October, 2000. As such, the EM•PDRI provides a sound basis for evaluating the "readiness to proceed" at Critical Decisions for various project phases.

The team recognizes that changes may be needed as more experience is gained from the use of this project planning tool, and that EM is committed to reviewing and revising the EM•PDRI, as appropriate.

PARTICIPANT	ORGANIZATION	SIGNATURE	DATE
Dave Pepson EM•PDRI Team Leader	DOE-HQ, Office of Project Management (EM-6)	<i>Dave Pepson</i>	11/30/00
Mark Allen	Bechtel Jacobs Company, LLC, Oak Ridge	<i>Mark Allen</i>	11/30/00
Fred Cowart	Bechtel BWXT Idaho, LLC	<i>Fred Cowart</i>	11/30/00
Chris Gruber	Independent Consultant	<i>Chris Gruber</i>	11/30/00
Damon Hindle	Bechtel Savannah River, Inc.	<i>Damon Hindle</i>	11/30/00
Thomas Hoertkorn	US DOE, ORP/APD	<i>Thomas Hoertkorn</i>	11/30/00
Rich Humphrey	Washington Group (West Valley)	<i>Rich Humphrey</i>	11/30/00
Wayne Pasko	US DOE, Fernald	<i>Wayne Pasko</i>	11/30/00
Cliff Poor	Independent Consultant, Legin Group	<i>Cliff Poor</i>	11/30/00
Phil Porter	Bechtel Savannah River, Inc.	<i>Phil Porter</i>	11/30/00
Guy Scango	Independent Consultant	<i>Guy Scango</i>	11/30/00
Karl Stoeckle	US DOE, NETL	<i>Karl Stoeckle</i>	11/30/00
Robert Vineski	US DOE, Rocky Flats	<i>Robert Vineski</i>	11/30/00
Jack Waite	Fluor Hanford	<i>Jack Waite</i>	11/30/00

EM•PDRI APPROACH

- *Used CII PDRI As A Model*
- *Modified For EM Projects:*
 - *Traditional Conventional*
 - *Environmental Remediation*
 - *Facility Disposition*

APPLICATION/SCORING

- *EM-PDRI is required prior to Critical Decision approval.*
- *EM-PDRI is also a useful forward planning tool, and a useful tool for periodic assessment of project status.*

Comparison of CD's by Project Type

Traditional/Conventional Projects

Mission Need	Conceptual Design	Preliminary Design	Final Design	Construction	Start of Operations
CD-0	CD-1	CD-2	CD-3	CD-4	

Environmental Restoration Projects

Mission Need/Proposed Plan	Performance Baseline/Start of work	Construction/Remediation	Operations/Project Closeout
CD-0/CD-1	CD-2/CD-3	CD-4	

Facility Disposition Projects

Mission Need	Combined Conceptual/Preliminary Design	Final Design	D&D	Project Closeout
CD-0	CD-1/2	CD-3	CD-4	

APPLICATION/SCORING

- *Five Rating Areas:*

- *Cost*

- *Schedule*

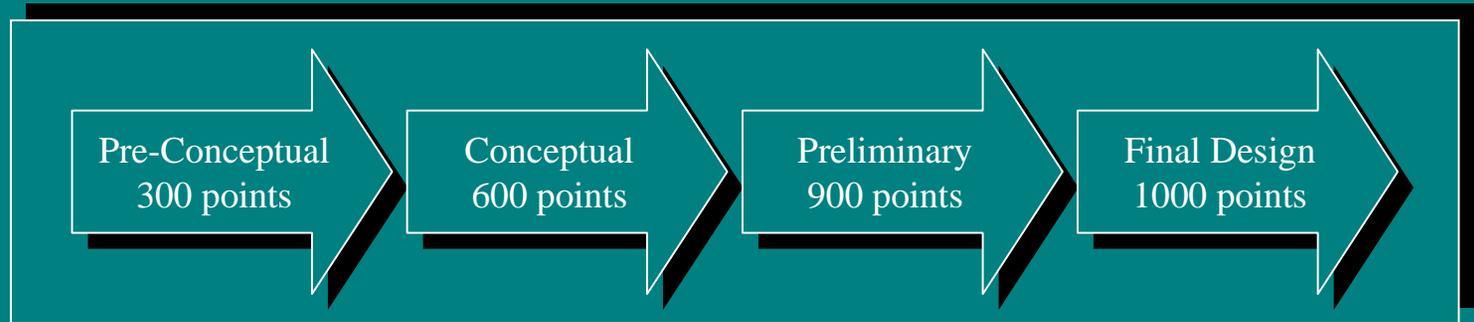
- *Scope/Technical*

- *Management Planning and Control*

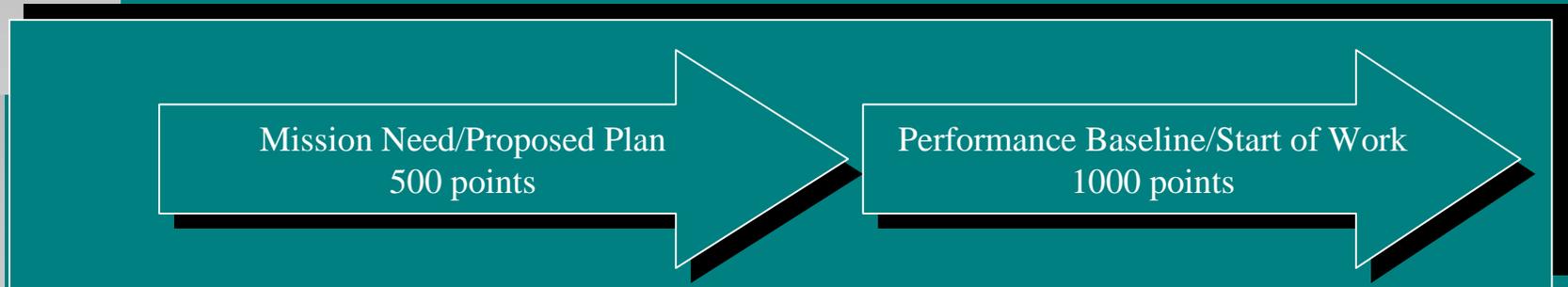
- *External Factors*

- *Target scores vary by project phase
(maximum of 1000 points)*

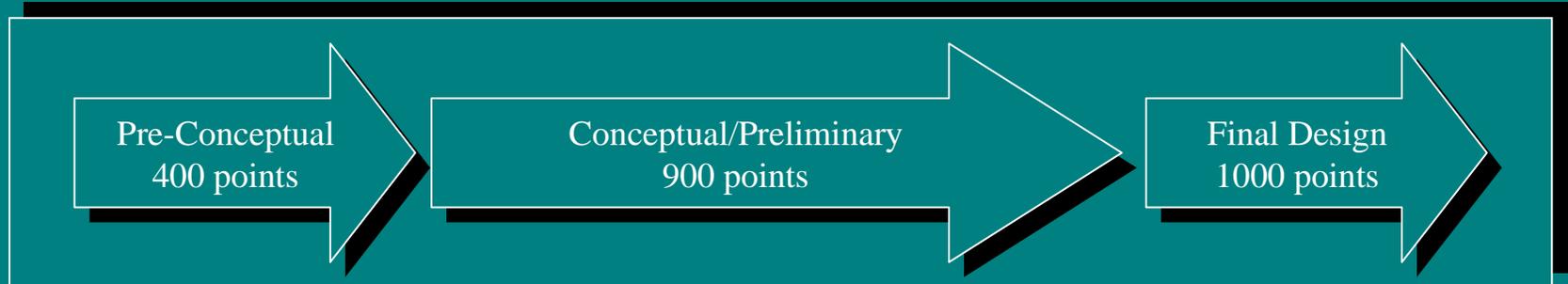
TRADITIONAL PROJECT



ENVIRONMENTAL REMEDIATION PROJECT



FACILITY DISPOSITION PROJECT



EM•PDRI Traditional Project Cost Section

Rating Element		Weighting Designation	Maturity Level			
			Pre-Conceptual CD-0	Conceptual CD-1	Preliminary CD-2	Final CD-3
A1	Cost Estimate	H	1	3	5	5
A2	Cost Risk/ Contingency Analysis	P	1	3	5	5
A3	Funding Profile/ Requirements	H	1	3	4	5
A4	Independent/ Non-Advocate Cost Estimate Review	P	N/A	N/A	5	5
A5	Life-Cycle Cost	P	1	4	5	5
A6	Forecast of Cost at Completion	P	N/A	N/A	3	5
A7	Cost Estimate for Next Phase Work Scope	P	5	5	5	5

Construction Industry Institute

ABB CE Services, Inc.
ABB Lummus Crest, Inc.
Aluminum Company of America
AMEC Holdings, Inc.
Amoco Corporation
Anheuser-Busch Companies, Inc.
Aramco Services Company
AT&T
Atlantic Richfield Company
BE&K Construction Company
Bechtel Group, Inc.
Belcan Engineering Group, Inc.
Black & Veatch
BP Oil Company
Brown & Root, Inc.
Burns and Roe Enterprises, Inc.
Cherne Contracting Corporation
Chevron Corporation
Cianbro Corporation
Consolidated Edison Company of New York, Inc.
Day & Zimmermann International, Inc.
Dillingham Construction Holdings, Inc.

Dow Chemical U.S.A.
DuPont
Eastman Chemical Company
Eichleay Holdings, Inc.
Elf Atochem North America, Inc.
Eli Lilly and Company
Enron Corporation
Exxon Research & Engineering Company
Fluor Daniel, Inc.
FMC Corporation
Ford, Bacon & Davis, Inc.
Foster Wheeler USA Corporation
Fru-Con Corporation
General Motors Corporation
Gilbert/Commonwealth, Inc.
Glaxo, Inc.
Graycor, Inc.
Gulf States, Inc.
Guy F. Atkinson Company of California
H. B. Zachry Company
Hoechst Celanese Corporation
Hoffmann-LaRoche, Inc.

Construction Industry Institute (continued)

*Houston Lighting & Power Company
Huber, Hunt & Nichols, Inc.
Hudson Engineering Corporation
International Paper Company
International Technology Corporation
J.A. Jones Construction Company
Jacobs Engineering Group , Inc.
James River Corporation
John Brown E&C
Kiewit Construction Group, Inc.
Lever Brothers Company
Litwin Engineers & Constructors, Inc.
Marshall Contractors, Inc.
Merck & Co., Inc.
Mobile Corporation
Morrison Knudsen Corporation
Naval Facilities Engineering Command
North Bros. Company
Northern States Power Company
Ontario Hydro
Phillips Petroleum Company
Raytheon Engineers & Constructors
International*

*Rohm and Haas Company
Rust International Corporation
S&B Engineers and Constructors, Ltd.
Shell Oil Company
Skanska Engineering & Construction,
Inc.
Stone & Webster Engineering Corp.
Sun Company, Inc.
Sverdrup Corporation
Tennessee Valley Authority
Texaco, Inc.
The M. W. Kellogg Company
The Parsons Corporation
The Procter & Gamble Company
Torcon, Inc.
TPA, Inc.
Turner Construction Company
U.S. Army Corps of Engineers
U.S. Department of Commerce
U.S. Department of State
Union Carbide Corporation
Weyerhaeuser Paper Company
Woodward-Clyde Consultants*