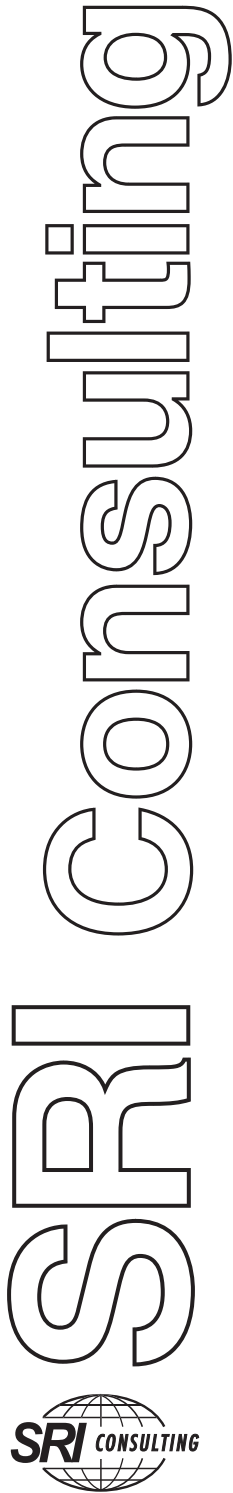


Abstract
Process Economics Program Report 145B
OFFSITE INVESTMENT COST ESTIMATION
(December 2006)

SRIC's Process Economics Program provides plant investment estimates for a wide range of chemicals, polymers, and refinery processes. The design and procurement methods used in these process industries have gone through a revolution in the past decade with the growth of turnkey procurement, and the increasing integration of equipment suppliers and E&C firms.

In the past, SRIC has published several reports on cost estimation. This report is a follow-up to PEP Report 145A, "Estimating Plant Investment." The following report focuses on several offsite categories, including steam generation, refrigeration, cooling water, inert gas, and general service facilities. The intention of this report is to update some of the correlations and algorithms presented in previous reports. In addition, this project addresses some of the sources of variability across these reports in an effort to provide some uniformity and clarification of terms as well as the approach used in estimating costs.

The present report updates the algorithms and correlations used to estimate offsite investments. It presents over one hundred new cost correlations describing a wide range of equipment and installation bulk costs for a variety of offsites. The results of this effort are applicable to the oil refining, petrochemicals, and specialty chemical industries. These correlations are based in part upon information provided by PEP client companies as well as the open cost estimation literature and our own data analysis. All of the correlations presented here are based on non-confidential information. The goal of this project has been to prepare a cost estimation data set that will allow the preparation of Class 3 estimates with minimum design engineering effort.



Report No. 145B

OFFSITE INVESTMENT COST ESTIMATION

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Decmeber 2006

A private report by the

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CONTENTS

1	INTRODUCTION	1-1
2	SUMMARY	2-1
	SOURCES OF INFORMATION AND METHODOLOGY	2-1
3	COST BASIS AND METHODOLOGY	3-1
	SOURCES OF INFORMATION.....	3-2
	The PEP Basis: Instant Construction	3-4
	Methodology	3-5
4	STEAM GENERATION	4-1
	CAPITAL COST TERMINOLOGY	4-2
	CONSTRUCTION COST INFLATION FACTORS	4-3
	PEP COST INDEX USED FOR THIS STUDY	4-4
	OLD PEP COST METHODOLOGY	4-5
	MECHANICS OF MECHANICS OF PEP COST COMPUTER FOR STEAM GENERATION	4-5
	MORE RECENT KNOW-HOW FROM PEP REPORT 136A	4-6
	ESTIMATING INDIRECT COST.....	4-9
	REVIEW OF TECHNOLOGY FROM PEP REPORT 136A.....	4-9
	Package Boilers.....	4-10
	Boiler Configuration	4-10
	Thermal Efficiency	4-11
	Field-Erected Oil/Gas-Fired Boilers.....	4-12
	Stoker Coal-Fired Boilers	4-12
	Pulverized Coal-Fired Boilers	4-13
	Cyclonic and Fluidized-Bed Boilers.....	4-16
	STEAM GENERATOR TECHNOLOGY IMPROVEMENTS.....	4-20

CONTENTS (Continued)

DESIGN BASIS FOR CHEMICAL PLANT UTILITY STEAM BOILER SYSTEM IN THIS STUDY FIRING OIL OR NATURAL GAS.....	4-21
CAPITAL COST FOR PROCESS STEAM GENERATOR SYSTEM FIRING OIL OR NATURAL GAS.....	4-21
DESIGN BASIS FOR CHEMICAL PLANT UTILITY STEAM BOILER SYSTEM IN THIS STUDY FIRING COAL.....	4-25
5 REFRIGERATION.....	5-1
REVIEW OF TECHNOLOGIES.....	5-1
Refrigeration Systems	5-1
Steam Jet Refrigeration.....	5-1
Absorption Refrigeration.....	5-2
Vapor Compression Refrigeration	5-3
Refrigerants.....	5-4
The Refrigerant Naming System	5-5
Ozone Depletion and the Montreal Protocol	5-6
EQUIPMENT SELECTION.....	5-7
Compressors	5-7
Compressor Drivers.....	5-7
Heat Exchangers	5-8
DESIGN AND COST ESTIMATE BASES	5-8
COST ESTIMATES	5-9
Capital Costs	5-9
6 PRODUCTION OF COOLING WATER	6-1
Review of Treatment Technology.....	6-2
Design Considerations and Cost Estimate Bases.....	6-4
Capital Cost Estimates	6-5
7 INERT GAS.....	7-1

CONTENTS (Concluded)

SCOPE OF EQUIPMENT.....	7-1
CAPITAL COST ESTIMATE.....	7-2
8 GENERAL SERVICE FACILITIES.....	8-1
METHODOLOGY	8-2
RESULTS	8-4
EXAMPLE CALCULATION	8-4
APPENDIX A: COST ESTIMATION BOOT CAMP	A-1
APPENDIX B: PATENT SUMMARY TABLES.....	B-1

ILLUSTRATIONS

2.1	PEP Cost Index Historical Data.....	2-2
3.1	Cost Estimate Classification Matrix for Process Industries.....	3-2
3.2	PEP Cost Index Historical Data.....	3-4
4.1	US PEP Index.....	4-3
4.2	Historical Indices for US Construction Costs	4-4
4.3	Basic Structural Design of Package Water Tube Boilers.....	4-11
4.4	Approximate Boiler Capacity Ranges of Coal-Fired Systems.....	4-14
4.5	Equipment Arrangement of a Spreader Stoker Coal-Fired Boiler.....	4-15
4.6	Direct-Firing System for Pulverized Coal	4-16
4.7	Package Steam Boiler	4-17
4.8	Equipment Arrangement of Field-Erected Oil/Gas-Fired Boiler	4-18
4.9	Stoker Coal-Fired Steam Boiler.....	4-19
4.10	Equipment Arrangement of a Pulverized-Coal-Fired Boiler	4-20
4.11	FOB Cost for Package Steam Generation Systems Firing Oil/Natural Gas	4-22
4.12	Total Fixed Capital Cost for Packaged Steam Generation Systems Firing Oil/Natural Gas	4-23
4.13	FOB Cost for Field Fabricated Steam Generation Systems Firing Oil/Natural Gas	4-24
4.14	Total Fixed Capital Cost for Field Fabricated Steam Generation Systems Firing Oil/Natural Gas	4-25
4.15	FOB Cost for Field Fabricated Steam Generation Systems Firing Pulverized Coal	4-28
4.16	Total Fixed Capital Cost for Field Fabricated Steam Generation Systems Firing Pulverized Coal	4-29
5.1	Vapor Compressions Refrigeration Process	5-3
5.2	Vapor Compression Refrigeration Process.....	5-4
5.3	Refrigeration, +40F FOB Costs	5-12
5.4	Refrigeration +40F Total Installed Cost.....	5-12

ILLUSTRATIONS (Continued)

5.5	Refrigeration +0F.....	5-13
5.6	Refrigeration +0F Total Installed Cost.....	5-13
5.7	Refrigeration -45F FOB Costs	5-14
5.8	Refrigeration -45F Total Installed Cost.....	5-14
5.9	Refrigeration -80F FOB Costs	5-15
5.10	Refrigeration -80F Total Installed Cost.....	5-15
5.11	Refrigeration +40F Piping, Instrumentation and Concrete Bulk Materials	5-16
5.12	Refrigeration +40F Electrical and Insulation Bulk Materials.....	5-16
5.13	Refrigeration +40F Paint Bulk Material.....	5-17
5.14	Refrigeration +40F Setting Bulk Man-Hours.....	5-17
5.15	Refrigeration +40F Piping, Instrumentation and Concrete Bulk Man-Hours.....	5-18
5.16	Refrigeration +40F Electrical and Insulation Bulk Man-Hours	5-18
5.17	Refrigeration +40F Paint Bulk Man-Hours.....	5-19
5.18	Refrigeration +0F Piping, Instrumentation and Concrete Bulk Materials	5-19
5.19	Refrigeration +0F Electrical and Insulation Bulk Materials.....	5-20
5.20	Refrigeration +0F Paint Bulk Material.....	5-20
5.21	Refrigeration +0F Setting Bulk Man-Hours.....	5-21
5.22	Refrigeration +0F Piping, Instrumentation and Concrete Bulk Man-Hours.....	5-21

ILLUSTRATIONS (Continued)

5.23	Refrigeration +0F Electrical and Insulation Bulk Man-Hours	5-22
5.24	Refrigeration +0F Paint Bulk Man-Hours.....	5-22
5.25	Refrigeration -45F Piping, Instrumentation and Concrete Bulk Materials	5-23
5.26	Refrigeration -45F Electrical and Insulation Bulk Materials.....	5-23
5.27	Refrigeration -45F Paint Bulk Material.....	5-24
5.28	Refrigeration -45F Setting Bulk Man-Hours.....	5-24
5.29	Refrigeration -45F Piping, Instrumentation and Concrete Bulk Man-Hours.....	5-25
5.30	Refrigeration -45F Electrical and Insulation Bulk Man-Hours	5-25
5.31	Refrigeration -45F Paint Bulk Man-Hours.....	5-26
5.32	Refrigeration -80F Piping, Instrumentation and Concrete Bulk Materials	5-26
5.33	Refrigeration -80F Electrical and Insulation Bulk Materials.....	5-27
5.34	Refrigeration -80F Paint Bulk Material.....	5-27
5.35	Refrigeration -80F Setting Bulk Man-Hours.....	5-28
5.36	Refrigeration -80F Piping, Instrumentation and Concrete Bulk Man-Hours.....	5-28
5.37	Refrigeration -80F Electrical and Insulation Bulk Man-Hours	5-29
5.38	Refrigeration -80F Paint Bulk Man-Hours.....	5-29
7.1	FOB Purchase Price for Packaged PSA and Membrane System.....	7-3
7.2	Total Erected Cost for Packaged PSA and Membrane System.....	7-3

ILLUSTRATIONS (Concluded)

6.1	Evaporative Cooling Tower Flow Diagram.....	6-4
6.2	Cooling Tower FOB Cost Per GPM.....	6-7
6.3	Cooling Tower Installed FOB Cost Per GPM	6-8
6.4	Cooling Tower Installed Cost Ratio	6-6-9
6.5	Cooling Tower FOB Cost.....	6-10
6.6	Cooling Tower Total Installed Cost.....	6-10
6.7	Cooling Tower Piping, Instrumentation and Concrete Bulk Materials	6-11
6.8	Cooling Tower Paint Bulk Materials.....	6-11
6.9	Cooling Tower Piping, Instrumentation and Concrete Bulk Man-Hours.....	6-12
6.10	Cooling Tower Paint Bulk Man-Hours.....	6-12

TABLES

2.1	Summary of Offsites Investment Costs	2-3
4.1	Summary of Process Steam Plant Total Fixed Investment.....	4-7
4.2	Boiler Thermal Efficiency.....	4-11
4.3	Screen Spreader-Stoker Underfeed-Stoker	4-13
4.4	Packaged Gas/Oil Fired Steam Generation Capital Investment Cost	4-22
4.5	Field Fabricated Gas/Oil Fired Steam Generation Capital Investment Cost	4-24
4.6	Pulverized Coal Fired Steam Generation System Capital Investment Cost	4-27
5.1	Environmental Characteristics of Selected Refrigerants.....	5-5
5.2	Refrigeration Equipment Size Limits	5-8
5.3	Refrigeration Cost Correlations Correlations for FOB, Installation Materials and Installed Costs.....	5-10
6.1	Quality Guidelines for Cooling Tower Water	6-2
6.2	Estimated Capital Investments.....	6-6
6.3	FOB Equipment and Installation Bulk Cost Correlations	6-7
7.1	Capital Cost for PSA and Membrane Inert Gas	7-2
8.1	Breakdown of General Service Facilities Costs	8-3
8.2	Example Allocated Workers Calculation	8-5