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September 15, 2001

OVER 20 COST ENGINEERING STUDIES

1. Budget vs Cost Study - \$37 billion vs \$181 billion - 38 construction projects, Volume 7.
2. "138 Successful Ways Low Bidder Got Low and Made Money" – 20 projects – Volume 7, 3 videos, 4 CD ROMS.
3. "Cost Escalation and Laser Productivity – What We Can Do are Did About It" – 1357 votes – 1970 – 1999, Volume 3
4. Labor Productivity and Location Factors Study – 260 projects in 17 countries.
5. Design and Estimating Cost Study – 38 projects – 1.4 to 212% of construction cost/M.H. pi sheet.
6. Closeout Costs of 1629 Project Bids – CD ROM #2, Volumes 4, 9, and 7.
7. Change Order Study: A. 174 projects – 4 years
8. Change Order Study: B. 53 different change orders
9. Change Order Study: C. 43 Ways - Designers – Con\$truction Co\$t Con\$ultant, Inc.
10. Change Order Study: D. 29 Ways - Construction Managers - Con\$truction Co\$t Con\$ultant, Inc.
11. Change Order Study E: 27 Ways - Lead Designers - Con\$truction Co\$t Con\$ultant, Inc.
12. Change Order Study F: 15 Ways - Field Engineers - Con\$truction Co\$t Con\$ultant, Inc.
13. Change Order Study G: 21 Ways - Project Managers - Con\$truction Co\$t Con\$ultant, Inc.
14. Change Order Study H: 18 Ways - Others - Con\$truction Co\$t Con\$ultant, Inc.
15. Recollection – 1083 – Changes to 25 million contracts
16. Manual vs Computer Estimating – 174 were surveyed – 29 estimating programs - 76% want to make and use computer estimating programs – Volume IV, pg 79-87.
17. Cost Control Study of 18 problems with 105 types of corrective actions, Volume IX, pg 58-75.
18. Shuttle Facilities – Cost at 6 United States' locations - \$7.4 billion
19. Rule of Thumb Cost Study – Facilities - \$45 - \$656/sf - \$1.86/\$18.31/cf, Volume 5, pg 95-96 .
20. Operations and Maintainance Cost Study - \$4.22 - \$15.78/bsf per year – 31 buildings, Volume 6, pg 174 – A-F.
21. Aerospace Cost Factors – 50 – Volumes 5 and 9, pg 174. Space Congress
22. Fiber Optics Cost Study – Cost PFF, F.M., Volume 6 pg 184-186, Volume 9, pg 210-212
23. Aerospace Panels – cost per component - 15-31 hrs/com.
24. Number of Bidders - bid price variations - -31% to + 5%
25. Facility Replacement Costs vs Actuals

These and other studies have been documented in 5 Aerospace Price Books, 9 Seminar Workbooks, 4 CD ROMS, and 4 movies, videos.