



EXPERIENCE BASED PROFIT IMPROVEMENT

It does not take a million-dollar effort to achieve a multi-million dollar profit improvement. What it takes is an experienced team of engineers who can quickly focus in on what can be achieved and is practical to implement – the Carmagen Engineering Team.

<p>APPROACH:</p>	<ul style="list-style-type: none"> • Operate as a joint Carmagen/Refinery Team • Generate a prioritized list of opportunities <ul style="list-style-type: none"> – Expect 50 – 75% of credits @ NO/MIN investment • Hard-to-Quantify credits normally addressed in a follow-on study
<p>TYPICAL PARAMETERS:</p>	<ul style="list-style-type: none"> • Duration (elapsed), Weeks 4 – 8 • Cost, K \$ (excluding expenses) 100 – 250 • Number of Consultants 3 – 5
<p>CONSULTING TEAM MAKEUP:</p>	<ul style="list-style-type: none"> • Planning (Lead) • Process (Fuels/Lubes) • R&M/Turnaround • Offsites <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> <p>30 + YEARS OF EXPERIENCE WITH MAJOR INTEGRATED REFINERS</p> </div>
<p>EXPECTED BENEFITS (TYPICAL):</p>	<ul style="list-style-type: none"> • Profit Improvement <ul style="list-style-type: none"> – ¢/B 25 – 50 – M\$ annually (100 KBD Refinery) 10 – 20 • Typical Categories, % <ul style="list-style-type: none"> – Yield Improvement/Operational Changes 50 – Energy Management 30 – Other 20

INTERESTED?

Carmagen’s staff of over 180 skilled specialists in all Process, Non-Process (Equipment), and Project Management disciplines is available to support client’s implementation plans.

Contact Jerry Lacatena at Carmagen Engineering, Inc. to discuss your needs.

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