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## RONALD L. SCHENDEL

725 36th Street - Manhattan Beach  
California 90266

### SUMMARY OF EXPERIENCE

- \* Forty years' continuous experience in the chemical and hydrocarbon process industries
- \* Full project experience from process design to operation / start up / shutdown
- \* Development and commercialization of new technology
- \* Trouble shooting / operations problem solving
- \* Process evaluation and design

### Chemical and Refining Technology Services - Manhattan Beach, CA (Sept 1993 - present) - Principal / Independent Consultant

Client: Freeport McMoran Oil & Gas, Inglewood Gas Plant, CA  
Trouble Shooting to resolve numerous issues and reconfigure expander plant to operate reliably while meeting product specifications. Amine plant modifications including amine switch to improve reliability and increase capacity.

Client: Chevron, Hawaii Refinery - HI  
On site process engineering support for Flare Vapor Recovery project. Process configuration, energy optimization, etc.

Client: ExxonMobil - Joliet Refinery, IL  
Completed Optimization Study, and developed Preventative Maintenance and Operations plan.

Client: OMV Australia - Perth  
Provided expertise in H<sub>2</sub>S removal and sulfur recovery. Led the evaluation process and selection of technology.

Client: Shell Oil Products - Puget Sound refinery, WA  
Assistance with reconfiguration of sulfur plant. Tech evaluation, P&ID review, etc. Participation in risk / reliability study.

Client: ExxonMobil - Chalmette refinery, LA  
Outside expert participation in operator training, start up, and plant performance.

Client: BOC Gases - Murray Hill, NJ  
Commercialized oxygen based sulfur technology, including the sale of technology to major oil companies.

Client: (Confidential)  
Study to determine the economic and technical viability of a project to produce distillate from petroleum coke.

Client: Tosco - Wilmington Refinery, CA  
Identified cause of high mercaptans in coker gas relative to sulfur dioxide reduction program, and provided solutions.

Client: TECNA - Estudios Y Proyectos de Ingenieria S.A. - Buenos Aires, Argentina  
Front End Design Study. Preparation of the preliminary design for a turbo expander plant.

### Additional Clients:

Shell Oil Products - Martinez refinery, CA  
ConocoPhillips - Rodeo refinery, CA  
Citgo - Corpus Christi refinery, TX  
Powerine Oil Company - Santa Fe Springs, CA  
Global Energy Recovery Systems, Inc. - Paramount, CA  
Ultramar Diamond Shamrock, Inc. - Wilmington, CA Refinery

**BROWN & ROOT BRAUN TECHNOLOGY** - Alhambra, CA (1990 - Sept. 1993)

**Manager Technology Acquisition**

Responsible for strategy and implementation of technology acquisition, including marketing and commercial development of new technologies. Successfully focused acquisitions to support the company's primary business activities while negotiating terms extremely favorable to Brown & Root.

- \* Acquired heat exchange reformer technology to enhance the Braun Purifier ammonia process from GIAP (the Russian State Institute for Nitrogen Industry).
- \* Secured zero emission sulfur dioxide process from Calabrian Chemical. Developed NoTICE<sup>(R)</sup> process for expansion of refinery sulfur recovery units based on the Calabrian sulfur dioxide process.
- \* Performed risk assessment, and negotiated agreements with client and technology licensors (Snamprogetti, UOP) for \$200 million Clean Fuels, Inc. MTBE project. .
- \* Negotiated the agreement with a major oil company (confidential) for the pilot testing and commercialization by Brown & Root of a new coking process developed by the oil company. - Exclusive Contractor/sublicensor position.

**KTI CORPORATION** - Monrovia, California (1986 - 1990)

**Vice-President**

Management of Sales and Process Departments. Met all sales targets and objectives. Full responsibility for budget, planning, strategy and staffing.

- \* Reorganized Development Department. Changed from contract research and development to an engineering focused Development Department designed to support company's natural growth along traditional product lines.
- \* Revitalized faltering carbon monoxide recovery technology. Two plants sold.
- \* Set sales strategy to meet aggressive goals. Targets met.

**FLUOR ENGINEERS, INC.** - Irvine, California (1975 - 1986)

**Supervising Engineer** (1983 - 1986)

Gas Processing specialist in the Process and Advanced Technology Planning Departments, including evaluation of technologies and program responsibility for the commercialization of new technology opportunities.

**Principal Engineer** (1980 - 1983)

Lead Engineer and process design of gas processing projects. Training of Process Engineers, Gas Processing group.

**Senior Engineer** (1975 - 1980)

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**EDUCATION**

B.S. Cornell University - 1967  
M. Engr. (Chem) - Cornell University - 1968  
(Minor in Business)

**REGISTRATION**

Prof. Engineer, Calif. (ChE 3125) - 1973

**PROFESSIONAL AFFILIATIONS**

American Institute of Chemical Engineers  
Licensing Executives Society  
Commercial Development Association  
Cornell Society of Engineers  
Laurence Reid Gas Conditioning Conference Advisory Committee  
Amine Best Practices Group

**PATENTS**

US #3,711,562  
US #4,374,657  
US #4,778,443  
US #5,204,082  
US #6,287,535

**PUBLICATIONS AND  
TECHNICAL SYMPOSIA PRESENTATIONS**

(listing available on request)