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Summary: Process and training consultant capable of resolving operating or design challenges to improve operating capabilities and profits.

Professional Experience:

Independent Process Consultant

Nov 2001 to present

Fiber-line process consultant in pulp and paper manufacturing.

Process related training consultant developing skill assessments, standard operating procedures, and computer based training tools.

Site-wide analysis for risk analysis, operating and maintenance cost and opportunities.

Highlights:

- Helped client solve operating problems with new press washer and pump, increasing the equipment availability from less than 50% to nearly 100%.
- Reviewed capital spending plan, investigated vendor references and provided technical risk assessment to improve reliability and capacity.
- Lead team of six experts to provide site-wide assessment for potential buyer regarding technical risk & opportunities of a complete pulp mill.
- Scoped possible alternatives to reduce bleaching cost while improving capacity.
- Lead team of six to formalize 250 written and illustrated SOPs in six months, establishing a system for future changes & additions to be done easily from within.
- Managed two experts to provide initial scope study to speed up recycled paper machine from 1000 to 1500 fpm, including detailed water balance. Project was implemented successfully.

Marketing & technical representative for NORAM Engineering, delivering chemical engineering solutions to the pulping industry in the SE USA (see www.noram-eng.com).

Marketing agent for FPInnovation - Paprican division to provide wide range of technical services to non-member companies (see www.fpinnovations.ca).

Marketing agent for FiT-NIR, delivering near infrared analyzers for chemical analysis. (www.fitnir.com)

Recruited to Washington Group, Rust Engineers

July 1998

Process Engineer for pulping & bleaching: Responsible for process design & detail implementation, many were environmentally driven projects.

- Gilman (Durango) at St Marys, GA, TIC=\$32M EPA Cluster Rule compliance project; detailed scope & estimate, detail eng, constr & startup for changes to pulp screens & conversion to ECF, with new ClO₂ gen & chemical storages, turp. & LVHC systems.
- Gaylord's 2 pulp mills, cluster rule compliance study & detail eng design for HVLC systems. Involved in problem resolution during & after startups, TIC =\$3-5M each.
- IP at Riegelwood, NC, TIC=\$40M final checkout, water runs & start-up of O₂ delig system including white liq oxid & modifications to existing BSW & screening systems.
- Marketing & sales efforts, especially to the smaller client base, including cold calls.

Recruited to Sunds Defibrator, Inc.

Nov. 1988

Process Specialist in Chemical Pulping division: Startup support & process troubleshooting of existing references for world leader in fiberline technology.

- Primarily pulp washing, screening, oxygen delignification & bleaching systems.

- Toured Japan in the fall of 1997 helping with twin roll press operations & repairs.
- Startup team for *Simpson, Pasadena, TX* 2 lines of knotters, screens & press washers, O₂ delig on SW line. Involved considerable support for instrumentation & DCS.
- Startup at *Potlatch, Cloquet, MN*—new fiberline built in phases; 1st phase included SuperBatch digesters, BSW & screens, running at a low rate; all washers are twin roll presses. Checked out & started equipment, including operator training.
- Resolved w/o capital cost a random mill operating problem costing them \$2 M/year . It appeared once a year after 5-6 years of new system's operation.

Process Resource for LaValley + Sunds Defibrator

[Jan. 1995- Aug. 1996]

True matrix organization, supporting two clearly different groups.

- For LaValley, marketing support & dealt with sensitive ethical, moral, & technical issues prior to divestiture.
- For Sunds, work included process support of sales, projects, & customer service with process consulting services. Wrote operating manual for global company's displacement presses, pulp screens, & medium cons oxygen delignification process.
- Sunds project for *Weyerhaeuser, Longview, WA*— project design, operator training, startup management, & assorted followup over next 2 years for new fiber line, including deknotters, BSW, screening, and O₂ delig with 2 presses
- Sunds project for *Irving, St John, NB*—startup team involvement & followup for problem resolution of BSW, deknottling, screening & O₂ delig.

Director of Technology, LaValley Industries (subsidiary of Sunds) [Oct. 1993 -Aug. 1996]

Reported to CEO & pres of \$20M specialty FRP equip & services business. Responsible for all process issues of pulp washing equip, market development of potential new products, team leader for measuring & displaying our progress towards TQM principles.

- Assisted in downsizing the company; focused on strengths & begin rebuilding process.
- Managed production of printed & video sales/marketing tools.
- Worked with sales to assist technical understanding & creditability with customers.

Senior Process Specialist, engineering dept. for SDI, Atlanta

[Aug.'92-Oct. 93]

Worked with several customers to resolve operating problems to improve relationships in spite of project obstacles. Also did training & troubleshooting with customer installations throughout N. A. Some efforts involved dewatering presses sold by mech pulping group.

Manager of Process Technology, chemical pulping division

[Nov.'90-Aug.'92]

Built a process management department by hiring 3 degreed engineers. Responsible for providing process support to sales & project management. Organized & managed startup teams for major projects. Sunds projects ranged \$200K to \$50M; TIC <\$1M to >\$500M;

- *Alberta Pacific*—proj design, operator training & startup of 1800 t/d market pulp mill, world's largest greenfield job; included BSW, O₂ delig & bleaching; 3 types of washers were used, pressure, vacuum and twin roll presses; all 3 being largest ever built of their type. Did audit/tuneup after 2 years of operations.
- *Union Camp Corp., Franklin, VA*— proj design & startup of new bleaching system, including BSW, HC O₂ delig & 3-stage bleaching, with ozone as first stage, first commercial system in the world.
- *Northwood, Prince George, BC*—operator training, startup & operational tuneups for twin roll presses as final BSW on two lines.
- *Canfor, Prince George, BC*—operational problems solving for O₂ delignification with 2 twin roll presses.
- *Malette Kraft, Ontario*—project design, operator training and startup for brown stock washing, screening, and O₂ delignification with 3 presses.
- *Weyerhaeuser, Columbus, MS*—project design, operator training, startup management &

optimization of greenfield market pulp mill, including deknotters, brown stock washing, screening, & O₂ delignification.

- *Champion International, Courtland, AL*—project design, operator training, startup, & optimization of new fiber line. Supply included BSW, O₂ delig & 3-stage bleaching; to another existing fiberline, O₂ delig was added with 1 press & vacuum filter.
- *Union Camp, Eastover, SC*—project design and resolution of startup issues of new line added with brown stock washing, HC O₂ delig, and bleaching.
- *Weyerhaeuser, New Bern, NC*—project sale, project design, startup & optimization of O₂ delig system with 2 twin roll presses.
- *Cariboo Pulp, BC* - process design for O₂ delig system with 2 twin roll presses.

Process Management, chemical pulping division [Oct. '88- Nov.'90]
Provided process support to sales, project engineering, & startups.

- *International Paper, Texarkana, TX*— project sale, project design, operator training, and startup of two stage O₂ delignification with one twin roll press.
- *Simpson, Eureka, CA* - operational training, startup & optimization of O₂ delig system with 2 twin roll presses
- *Wausau Papers, WI* - startup of BSW & 2 stage bleach system with 3 presses & a filter.

Recruited to Scott Paper Company - Pulp Mill at Mobile, AL

May 1977

Assistant Pulp Mill Manager- Pulp Bleaching

[Aug. 1983-Oct. 1988]

Responsible for all aspects of pulp bleaching; supervised operations crew of 34 people plus shared responsibility for shift supervisors, plus coordinated maintenance & engineering requirements. Weekend duties included chemical preparation, pulping & bleaching of up to 1800 t/d feeding 8 paper machines. During 8 week labor strike, trained clerical & woodlands people to operate 2 bleach plants.

Assistant Division Manager of Pulp Bleaching

[April 1979 -July 1983]

Reduced operating & maintenance costs while increasing production 40%. During 10 week union strike, operated chemical systems (Cl₂, ClO₂, NaOH, NaOCl) & bleach plants.

Process Engineer in the Pulp Technical Dept

[May 1977-March 1979]

Optimization studies included liquor system, batch & cont. digester, wash/screen room, bleach plants, & ClO₂ gen. Customer service to 2 papermills, total of 9 paper machines.

Education: University of South Alabama, MBA
North Carolina State University, BS Pulp & Paper

Professional Activity Highlights:

TAPPI: Bleaching Committee – 12 years including all leadership chairs. Reorganized the 3+ day course Improving Bleaching Operations, which was very successful in spring 2006, repeated in 2007. Facilitated two workshops, 1 day each, for local TAPPI sections.

Toastmasters International Clubs for 5 yrs, including organizing new clubs.