

# Nathan Solem

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## **SUMMARY**

- Results oriented; proven track record in solving problems, implementing improvements and reducing costs.
  - Strong communication skills.
  - Adept at meeting tight deadlines and multitasking.
  - Analytical and detailed oriented while able to keep big picture in mind.
  - Proficient at determining root cause of problems.
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## **QUALIFICATIONS AND ACCOMPLISHMENTS**

### **DOT Pipeline Compliance**

- Managed the natural gas pipeline safety program for the state of South Dakota
- Conducted natural gas and hazardous liquids pipeline compliance inspections for PHMSA as senior lead inspector
- Coordinated the identification of new regulated pipelines in the North Dakota Bakken oil fields
- Particularly proficient in public awareness, corrosion and cathodic protection, DIMP and drug and alcohol regulations
- Identified and corrected jeeping voltage issues with spiral wrap and heat shrink wrap products for coating girth welds
- Improved the PHMSA audit scores of the South Dakota program from 97 % to 100 % in three years
- Completed all first time DIMP inspection for covered South Dakota operators within 1 year of regulation effective date
- Implemented first time inspections of operator's urine collections facilities and breath alcohol testing sites in South Dakota
- Implemented the first time inspections of gas integrity management, public awareness and operator qualification programs within South Dakota
- Implemented quarterly operator training webinars in South Dakota
- Implemented risk based inspections in South Dakota
- Implemented pipeline safety program metrics in South Dakota
- Member of PHMSA/NAPSR distribution integrity management team
- Conducted on the job training of new pipeline safety inspectors for South Dakota and PHMSA
- NAPSR Central Region Chairman 2013
- Chair of PHMSA Corrosion Control Guidance Team
- Improved the South Dakota pipeline safety operator training seminar by implementing concurrent sessions and expanding the speaker variety

### **EPA Compliance**

- Prepared all required written EPA programs to bring facility into compliance
- Managed hazardous waste program
- Instituted environmental auditing as a proactive measure towards compliance
- Prepared all required reports such as Tier II, Facility Annual Report and Form R.

### **OSHA Compliance**

- Developed and implemented engineering controls that brought the plant into OSHA compliance.
- Prepared all required written OSHA programs to bring facility into compliance.
- Instituted safety auditing as a proactive measure towards compliance.
- Improved relationships with regulatory agencies by honest tactful communications and implementation of proactive compliance practices.
- Served as facility Emergency Coordinator, 40 hour HAZWOPER trained

### **Mineral Processing Engineering**

- Helped start new plants up
- Installed thixotropic rakes in thickeners which reduced slimes problems.
- Implemented string discharge system for rotary vacuum filters that eliminated overall plant bottleneck and improved overall production rate by 25 %.
- Started-up new molybdenum plant reagent system that improved yield by 2 % (\$2.6 million per year).
- Installed on-stream x-ray analysis system that improved molybdenum yield by 1 % (\$1.3 million per year).
- Installed column flotation (aeration) cells that increased concentrate grade 3 % molybdenum
- Developed improved air dispersion and control system for aeration columns that yielded 1 % yield.
- Implemented equipment and supply item changes that eliminated plant bottleneck and improved section productivity 50 % and reduced section costs by 30 %.
- Reduced chemical consumption by training operators and installing controls to save \$500,000 per year.

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## **WORK HISTORY**

**General Engineer**, PHMSA, Office of Pipeline Safety - Central Region, Pierre, SD Field Office 09/13 to 09/22

**Pipeline Safety Program Manager**, South Dakota Public Utilities Commission, Pierre, SD 02/06 to 09/13

**Emergency Specialist II**, South Dakota Office of Emergency Management, Pierre, SD 02/04 to 02/06

**General Manager**, Kum & Go, Pierre, SD 8/03 to 12/03

**Cost Estimator**, Sargent Controls, Tucson, AZ 12/00 to 5/03

**Instructor**, Chaparral College, Tucson, AZ 08/99 to 05/03

**Operations Manager**, Tucson Foundry, Tucson, AZ 1/94 to 12/00

**Manager of Technical Services**, Tucson Foundry, Tucson, AZ 11/92 to 1/94

**Technical Sales Representative**, Allied Colloids, Suffolk, VA 11/89 to 9/92

**Financial Analyst**, Duval/Cyprus Sierrita, Green Valley, AZ 11/87 to 11/89

**Metallurgist I**, Duval/Cyprus Sierrita, Green Valley, AZ 6/84 to 11/87

**Chief Metallurgist**, Duval Mineral Park, Kingman, AZ 4/80 to 6/84

**Research Engineer**, Michigan Tech, Houghton, MI 2/78 to 4/80

**Metallurgical Engineer**, Duval CLEAR Corp., Green Valley, AZ 5/75 to 2/78

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## **EDUCATION**

Masters in Business Administration, University of Phoenix, Tucson, AZ 85701, 1986.

B.S. in Metallurgical Engineering, South Dakota School of Mines and Technology, Rapid City, SD 57701, 1975.

Hettinger Public High School, Hettinger, ND 58639, 1971.

NACE Coating Inspector Level I Certification

NACE Cathodic Protection Level II Certification

PHMSA pipeline inspector certification courses 19 in all, 2007-2014

Emergency Management certification courses, 2005

Senior Human Resources Specialist certification, 2002

TQM and Gainsharing seminar, 2000.

Word, Excel and Access beginning and intermediate level classes, 1997.

Economic Analysis, a short course on discounted cash flow analysis techniques by Frank Stermole, 1988.