

# DJ Kumar

## PROFESSIONAL HISTORY:

*Risk Management Professionals, Inc., Irvine, California, Project Engineer, October 2017-Present.*

*Schneider Electric (Simulation Sciences), Lake Forest, California, Process Simulation Engineer, 2015-2017.*

*Schlumberger Technology Corporation, Bakersfield, California, Wireline Engineer, 2014-2015.*

*University of Texas, Austin, Texas, Graduate Consulting Reservoir Engineer, 2012-2014.*

## EDUCATION:

*Petroleum Engineering, Master of Science, University of Texas, Austin, Texas.*

*Chemical Engineering, Bachelor of Science, California Polytechnic State University, Pomona, California.*

## ASSOCIATIONS:

*American Institute of Chemical Engineers (AIChE), member.*

*Society of Petroleum Engineers (SPE), member, author.*

*Tau Beta Pi – National Engineering Honor Society, member.*

*Omega Chi Epsilon – National Chemical Engineering Honors Society, member.*

*Pi Epsilon Tau – National Petroleum Engineering Honor Society, member.*

Mr. DJ Kumar graduated from California Polytechnic State University, Pomona with a Bachelor of Science degree in



Chemical Engineering and The University of Texas, Austin with a Master of Science degree in Petroleum Engineering. Mr. Kumar has extensive experience in the Oil & Gas industry both in the upstream and downstream sectors.

During his tenure at Schneider Electric as a Process Simulation Engineer, he developed simulation models of refineries, chemical and industrial plants to analyze the potential risks and hazards by performing nodal analysis and assessing the impact on plant operation.

Additionally, as a Wireline Engineer at Schlumberger, he managed several offshore and onshore platforms that produced several thousand barrels of oil per day to perform operations without any lost-time. He conducted pre- and post-operation job safety analyses (JSAs) with operators to facilitate safe and proper rig-up and rig-down procedures.

During his graduate studies, he consulted for several major oil companies in the areas of reservoir performance and production forecasting, while analyzing the impact of safety protocols that could affect production in the event of an unplanned shutdown. Additionally, he has led several technical meetings with senior company executives to deliver key performance indicators for sponsored projects for large research-based teams and has also published and presented technical papers at international conferences hosted by

## **TECHNICAL PAPERS AND PRESENTATIONS:**

*Stephanie Smith, DJ Kumar: "What You Need to Know About the General Duty Clause." Ongoing webinars by Risk Management Professionals. December 2017.*

*Kumar, D. et. Al. "Modeling Effect of Permeability Heterogeneities on SAGD Performance Using Improved Upscaling Schemes." SPE Heavy Oil Conference. Canada. 2014.*

*Kumar, D. et. Al. "Analysis of Impact of Thermal Conductivity and Permeability Heterogeneity on SAGD Performance using a Semi-Analytical Approach." SPE Heavy Oil Conference. Canada. 2013.*

the Society of Petroleum Engineers (SPE). He maintains an active membership with SPE as a contributor and reviews technical publications for validity.

Through his experience and education, Mr. Kumar has developed strong technical writing, analytical, and problem-solving skills and currently provides consulting services for variety of projects as a Project Engineer with Risk Management Professionals.

His process safety experience includes performing updates and providing guidance on the California Accidental Release Prevention (CalARP) and United States Environmental Protection Agency's (USEPA's) Risk Management Plan (RMP) Programs; performing updates and providing guidance on the Occupational Safety and Health Administration's (OSHA's) Process

Safety Management (PSM) Program; knowledge and providing services in other safety programs (i.e., confined space, fall protection, and Hazardous Waste Operations and Emergency Response [HAZWOPER]); providing training on CalARP, RMP, and/or PSM Programs; conducting Triennial Compliance Audits; and conducting Process Hazard Analyses (PHAs)/Hazard Reviews (HRs).

## **PROJECT EXPERIENCE**

### **CalARP/RMP/PSM Programs**

Mr. Kumar's efforts in CalARP/RMP/PSM Programs extend to a broad range of industries, including ammonia refrigeration and public agencies. His CalARP/RMP/PSM program experience extends from Hazard Assessments/Off-Site Consequence Analyses (OCAs) conducted primarily for Program Level 2 at a produce production facility in Oxnard, *California*. The scope of work included developing documentation for the Hazard Assessment and coordinating with the client regarding information for dispersion modeling analysis and modeling scenarios.

### **Process Hazard Analyses (PHAs)/Hazard Reviews (HRs)**

At the same produce production facility mentioned above, Mr. Kumar has scribed for a HR with a facilitator according to CalARP regulations utilizing Hazard and Operability (HAZOP) and What-If/Checklist methodologies. The chemical of concern was anhydrous ammonia used for ammonia refrigeration.