



# Justin S. Douthat

## *Current Position*

Executive Vice President

## *Profession*

Engineer

## *Years' Experience*

25+

## *Education*

MBA - The Pennsylvania State University, University Park, PA

BS - Mining & Minerals Engineering, Virginia Tech, Blacksburg, VA

AA&S - Engineering, SVCC, Richlands, VA

## *Professional Registrations*

PE - AR, CO, IL, KS, KY, LA, MS, NC, VA, WV

SME - Registered Member (4028345)

OSHA 40-Hour Health and Safety Training

OSHA 8-Hour Supervisory Health and Safety Training

MSHA Qualified Impoundment Inspector

40-Hour Radiation Safety Officer Training

## Summary of Experience

Mr. Douthat coordinates engineering services for the company's energy and mineral resources clients, including those in coal as well as the aggregates and industrial mineral industries. His experience includes financial modeling and management of multiple scoping, pre-feasibility and bankable feasibility studies, as well as geologic modeling, reserve calculations, mineral valuations, mine planning and production timing using Carlson Mining® computer software. In addition, he performs end-of-mine reclamation and closure cost assessments that meets the requirements of Accounting Standard Codification Topic 410 (ASC 410) Accounting for Asset Retirement Obligations. He administers training for the use of Carlson Mining® computer software for geologic modeling and mine planning both in the United States and abroad. Mr. Douthat also coordinates and supervises a company-wide radiation safety program that includes the safety training of geophysical logging personnel in order to maintain compliance with federal and state nuclear regulatory authorities.

## Specific Projects

- > Prepared and/or served as a Qualified Person (QP) or Competent Person (CP) on multiple technical reports for the public filing of coal resources and coal reserves including those for the U.S. Securities and Exchange Commission, Canadian National Instrument 43-101 Standards for Disclosure of Mineral Projects (NI 43-101) and the Joint Ore Reserves Committee (JORC) code
- > Conducted reserve estimations for both aggregates and industrial minerals clientele that included reviews of potential acquisition properties or expansion areas as well as definition of maximum reserve potential for as-configured operating properties
- > Designed pits for quarries that maximized reserves with a focus on erosion and sediment control
- > Completed amendments to mining permits for submittal to state agencies
- > Worked closely with quarry operations personnel to produce overburden removal and disposal plans along with the associated cut and fill volume estimates for future quarry expansion areas
- > Prepared multiple construction bid packages for aggregate industry clientele to include overburden removal and disposal area designs, haul road design and relocation, and all associated erosion and sediment control design construction details
- > Coordinated aerial surveys for topographic mapping and stockpile inventory purposes, and prepared stockpile inventory volume calculations
- > Provided detailed mine planning that included reserve/resource assessment and mine production timing for surface and underground operations utilizing Carlson Mining® computer software