

JONATHAN K. ALEXANDER, P.E.

SENIOR PROJECT ENGINEER

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Jonathan K. Alexander is a Senior Project Engineer for Smith & Annala Engineering Co. (SAECO) and is the Office Manager of the company's Tucson location. Mr. Alexander has over 9 years of experience in the Geotechnical Engineering and Construction Materials Engineering & Testing fields. SAECO provides Geotechnical Engineering and Construction Engineering related services to clients in the southwestern United States. Mr. Alexander's role at SAECO includes office management, geotechnical engineering, and construction materials testing services.

Mr. Alexander has performed a variety of engineering services for geotechnical engineering. This has included geotechnical boring logging and laboratory testing, slope stability analysis, excavation design and drafting, slope observations, and foundation design.

Mr. Alexander's experience in construction materials testing includes laboratory management and test performance, special inspections, project management and engineering, and other field inspections. He manages the company's Tucson laboratory. His project experience includes:

Chula Vista Bridge – Nogales Wash Channel – Nogales, AZ

Project Engineer responsible for special inspection and materials testing for a bridge replacement over the Chula Vista Channel of the Nogales Wash. The project included drilled shafts; a 2 lane, 2 span bridge; grouted stone channelization; quality of aggregate testing; ACI Concrete Transportation Construction Inspection, asphalt paving; and retaining walls. Mr. Alexander was responsible for overseeing the special inspection and materials testing on the US Army Corps of Engineers (USACE) project.

Red Horse 2 Solar and Wind Energy Project – Cochise County, AZ

Project Manager for geotechnical engineering of transmission line and a substation for two renewable energy developments. The transmission line runs 8 miles to a wind energy project with a 2 mile spur serving the solar energy project. Mr. Alexander is also serving as the Project Manager for the site work for the 1,200 acre solar development.

Pandhi Dental Office and Lab – Tucson, AZ

Project Manager and Special Inspector for the construction of a \$4.1 million Dental Office and Laboratory. The building is being constructed on drilled shafts and grade beams due to significant uncontrolled fill present. Mr. Alexander was responsible for all special inspections for the masonry and reinforced concrete phases of the project.

Water Reclamation Supply System Pipeline Repairs – Maricopa County, AZ

Project Manager for geotechnical engineering and construction materials testing services for external post-tension system repairs to a 35 mile large diameter water transmission pipeline servicing the Palo Verde Nuclear Generating Station. Mr. Alexander has been involved in 7 separate power plant outage projects involving the excavation of pipeline segments, post-tension cable reinforcement, shotcrete placement, and soil backfill within tight project timeframes aligning with the nuclear generating station outage schedules. Mr. Alexander was responsible for project management of all Quality Assurance services and leading a team to develop a horizontal lifeline restraint system for fall protection.

EDUCATION

BS Materials Engineering
University of Arizona, Tucson, AZ

PROFESSIONAL REGISTRATION

Professional Engineer, Civil
Arizona, No. 55164
New Mexico, No. 22296
Texas, No. 117876
Colorado, No. 49731
Utah, No. 9372974-2202
Nevada, No. 23403
North Carolina, No. 43004

CERTIFICATIONS

ICC Reinforced Concrete Special Inspector
ICC Structural Masonry Special Inspector
ICC Structural Steel Special Inspector
CQA Geosynthetic Materials Inspector
OSHA 30-hour Construction Industry Safety
American Concrete Institute, Field
Technician, Level 1
American Concrete Institute, Strength
Testing Technician
Arizona ATTI, Laboratory Asphalt Technician
Arizona ATTI, Laboratory Soils Technician
Arizona AATI, Field Technician
Radiation Safety Training

EXPERTISE

Geotechnical and Construction Materials
Engineering on projects including
Water Resources, Power Generation,
Commercial, Municipal, and Educational
Facilities

COMPUTER SKILLS

AutoCAD
gINT Geotechnical Software
Slope/W, Slope Stability Analysis
Microsoft Office

PROFESSIONAL AFFILIATIONS

Arizona Transportation Builders, Member
Metro Pima Alliance, Member
Southern Arizona Home Builders
Association, Member

