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**CREDENTIALS**

- ♦ *B.S., Chemical Engineering, The Pennsylvania State University, 2018*

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**PROFESSIONAL  
EXPERIENCE**

- ♦ *2018 – Present: ALL4 LLC, Kimberton, PA – Technical Manager on the Continuous Monitoring Systems Technical Team*

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**TECHNICAL EXPERTISE**

- ✓ *State and Federal air permit programs including Nonattainment NSR, PSD, Title V, construction permit applications*
- ✓ *Air emissions inventory development and submissions*
- ✓ *Annual/semiannual compliance and emissions reporting*
- ✓ *Continuous monitoring systems (CMS) data reconciliation, system audits, quarterly and semiannual reporting*
- ✓ *Toxic Release Inventory (TRI) Reporting*
- ✓ *Refinery Sector Rule*
- ✓ *Chemical Sector Rules*
- ✓ *Flare monitoring evaluations and implementations*
- ✓ *CMS Quality Assurance Plan (QAP), Site-Specific Monitoring Plan (SSMP), and Continuous Parameter Monitoring System (CPMS) Monitoring Plan development*
- ✓ *Data Acquisition and Handling Systems (DAHS) implementation and verification*
- ✓ *ESC StackVision, RegPerfect, Nexus, and VIM CEMLink 6 Software experience*
- ✓ *Auditing experience of industrial facilities*
- ✓ *Emissions testing protocol and report review and development*

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**PROFESSIONAL OVERVIEW**

*Ms. Katie Fritz is a Technical Manager on ALL4's CMS Technical Team and has experience in the chemical sector, refining sector, glass manufacturing, and hazardous waste incinerators. Her CMS experience includes data evaluation, reconciliation, and periodic reporting; initial CMS certification and ongoing quality assurance; development and review of quality assurance plans (QAPs), continuous parameter monitoring system (CPMS) monitoring plans, and site-specific monitoring plans (SSMPs); audits of data acquisition and handling system (DAHS); DAHS implementation support; flare monitoring evaluations and implementations, and internal and external CMS training. Ms. Fritz also has extensive experience with CMS work in Pennsylvania and has assisted clients with all phases of CMS certification and reporting through the Pennsylvania Department of Environmental Protection (PADEP) Continuous Emission Monitoring Data Processing System (CEMDPS).*

*Ms. Fritz has assisted with the preparation of Title V Operating Permits (TVOP), Synthetic Minor Operating Permits (SMOP), emissions inventory development, construction permit applications, periodic compliance reporting, New Source Review (NSR) and Prevention of Significant Deterioration (PSD) permitting, and Toxic Release Inventories (TRI). Ms. Fritz has also participated in compliance auditing of industrial facilities.*



#### **AIR QUALITY PERMITTING EXPERIENCE**

Title V Operating Permit Renewal Applications, Multiple Clients, Pennsylvania: *Served as a part of the technical staff in the preparation of Title V Operating Permit renewal applications for facilities. Project Type, Industry, State, Role in Project*

State Only Operating Permit Applications, Multiple Clients, Pennsylvania: *Served as a part of the technical staff in the development and submittal of State Only Operating Permit renewal applications.*

New and Modified Facility Construction Permits, Multiple Clients, Multiple States: *Served as a part of the technical staff in the development and submittal of air construction permits for facilities.*

Requests for Determination (RFDs) and Electronic RFDs (e-RFDs), Multiple Clients, Pennsylvania: *Served as a part of the technical staff in the development and submittal of Request for Determinations (RFDs) in Pennsylvania in order to request exemption from plan approval requirements at these facilities.*

BACT/LAER Evaluations and Operating Permit Applications in Pennsylvania, Multiple Facilities and Industrial Sectors: *Served as a part of the technical staff for multiple BACT projects in Pennsylvania for the power industry, specifically combined cycle power plants. Work products included applicability analyses, top-down BACT/LAER analyses including economic evaluation of available control options, and preparation of operating permit modification applications.*

#### **AIR QUALITY CONTINUOUS MONITORING SYSTEM EXPERIENCE**

Continuous Monitoring System (CMS) Certifications; Multiple Clients; Pennsylvania: *Prepared Phase I Monitoring Plans, Phase II testing protocols and results, and Phase III sample report submittals for Pennsylvania facilities to obtain CMS certification.*

CMS Data Evaluation and Reconciliation, Multiple Clients; Multiple States: *Conducted CMS data evaluation and reconciliation in Data Acquisition and Handling Systems (DAHS) for facilities in various states.*

CMS Periodic Reporting; Multiple Clients; Multiple States: *Prepared quarterly and semi-annual CMS reports for facilities in various states.*

CMS Quality Assurance Plan (QAP), Site-Specific Monitoring Plan (SSMP), and MACT CC Continuous Parameter Monitoring System (CPMS) Monitoring Plan Development and Review; Multiple Clients; Multiple States: *Assisted in the development and/or review of QAPs, SSMPs, and MACT CC CPMS Monitoring Plans for multiple facilities.*



Data Acquisition and Handling System (DAHS) Design, Refineries and Chemical Sector, Multiple States: *Assisted in the design and implementation of 3rd party DAHS software to comply with Refinery Sector Rules and Chemical Manufacturing Rules.*

DAHS Verification, Multiple States: *Assisted in the verification of correct calculation, averaging, validation, and reporting in DAHS for various facilities.*

Flare Monitoring Evaluations and Implementation: *Assisted in the evaluation and implementation of flare monitoring systems in the chemical manufacturing industry*

#### **TRAINING WORKSHOPS**

ALL4 HON Workshops: *Developed and participated in ALL4's HON workshops specifically focused on the monitoring requirements.*