



FRANK DOUGHERTY Consulting **ENGINEER**

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- CREDENTIALS**
- B.S., Chemical Engineering – Villanova University 2013 (Business Minor)
 - Engineer in Training Certification (EIT)
 - Air & Waste Management Association (AWMA)
 - AWMA Gulf Coast Chapter (GCC)
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- PROFESSIONAL EXPERIENCE**
- **2020-Present:** ALL4, Philadelphia, PA – Consulting Engineer
 - **2015-2020:** ALL4, Houston, TX – Consulting Engineer
 - **2013-2015:** ALL4, Kimberton, PA – Staff Engineer
 - **2012:** Dow Chemical, Newark, DE. – Process Engineering Intern
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TECHNICAL EXPERTISE

The following highlight Mr. Dougherty's key areas of technical expertise:

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| ✓ State and Federal air permit programs including Title V Renewal Applications, construction permit applications, etc. | ✓ Annual/Semiannual compliance and emissions reporting. |
| ✓ New/modified source air permitting. | ✓ Prevention of Significant Deterioration PSD/New Source Review (NSR). |
| ✓ Air emissions inventory development and submissions. | ✓ BAT/BACT/LAER. |
| ✓ CEMS; data reconciliation; system audits, quarterly and semiannual reporting. | ✓ Stack testing management |
| ✓ Chemical Facility Anti-Terrorism Standards (CFATs) Audits | ✓ Internal Combustion Engine, Boilers regulatory requirements analysis. |
| ✓ Toxic Release Inventory (TRI) development and reporting | ✓ Houston-Galveston Brazoria (HGB) Emissions Trading/Inventory Analysis |
| | ✓ Flare Management Plans (FMPs) |
| | ✓ Greenhouse Gas (GHG) Reporting |
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PROFESSIONAL OVERVIEW

Mr. Frank Dougherty is a Consulting Engineer with 8 years' experience in air quality and compliance over various industries throughout the United States. He is located in Philadelphia, PA and had spent five years of his career working out of ALL4's Houston, TX office. Mr. Dougherty has assisted with many air permitting strategy projects and permit applications, including obtaining over 30 minor New Source Review (mNSR) permits throughout the Houston and Dallas metropolitan areas. His experience includes work on air construction permit applications and renewals, development of emissions inventories, stack testing management, continuous emissions monitoring systems (CEMS) program audits and data validation/reconciliation. Mr. Dougherty has also provided on-site assistance to various facilities in TX and elsewhere in the country to develop, quality assure, and submit annual, semiannual, quarterly or other various reports to regulatory agencies, including TCEQ.

Mr. Dougherty has participated in several project teams that support industries such as pulp and paper mills, oil and gas production and processing, chemical industry, cement and brick manufacturing, waste management, petroleum oil refineries, glass manufacturers, and utility companies.