



- CREDENTIALS**
- B.S., Chemical Engineering – Villanova University 2013 (Business Minor)
  - Engineer In Training (EIT)
  - Air & Waste Management Association (AWMA)
  - AWMA Gulf Coast Chapter (GCC)

- PROFESSIONAL EXPERIENCE**
- **2018-Present:** All4 LLC, Houston, TX – Consulting Engineer
  - **2015-Present:** All4 Inc., Houston, TX – Project Engineer
  - **2013-2015:** All4 Inc., Kimberton, PA – Staff Engineer
  - **2012:** Dow Chemical, Newark, DE. – Process Engineering Intern
  - **2011:** Pennoni Associates Inc. Philadelphia, PA – Envir. Engineering Technician

**TECHNICAL EXPERTISE**

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

- ✓ State and Federal air permit programs including Title V Renewal Applications, construction permit applications, etc.
- ✓ CEMS; data reconciliation; system audits, quarterly and semiannual reporting.
- ✓ New/modified source air permitting.
- ✓ Air emissions inventory development and submissions.
- ✓ Chemical Facility Anti-Terrorism Standards (CFATs) Audits
- ✓ Meteorological monitoring system semiannual audits.
- ✓ Annual/Semiannual compliance and emissions reporting.
- ✓ Prevention of Significant Deterioration PSD/New Source Review (NSR) applicability analysis.
- ✓ BAT/BACT/LAER analyses.
- ✓ Internal Combustion Engine regulatory requirements analysis.
- ✓ Flare Management Plans (FMPs)
- ✓ Greenhouse Gas (GHG) Reporting

**PROFESSIONAL OVERVIEW**

Mr. Frank Dougherty is a Consulting Engineer based in Houston, TX with experience in air quality and compliance over various industries throughout the United States. Mr. Dougherty has assisted with numerous air permitting strategy projects and permit applications. His experience includes work on Prevention of Significant Deterioration (PSD)/New Source Review (NSR) Plan Approval Applications (PAAs) for combined-cycle combustion turbine facilities, Best Available Control Technology (BACT)/Lowest Achievable Emission Rate (LAER) analyses, air construction permit applications and renewals, emissions inventories, and data validation/reconciliation for continuous emissions monitoring systems (CEMS). Mr. Dougherty has participated in several project teams that support industries such as pulp and paper mills, oil and gas production and processing, cement and brick manufacturing, landfill and waste management, petroleum oil refineries, glass manufacturers, and utility companies.

Mr. Dougherty is a member of the Air and Waste Management Association (AWMA) Gulf Coast Chapter which is an organization to assist in professional development of its members. It facilitates the flow of information between environmental professionals through the process of networking and other events in the Gulf Coast Region.