

Heck Associates – Technical Assistance Provider

Heck Associates was established as a sole proprietorship in New Jersey in July 1993. Dr. Werner Heck is the sole technical staff and will perform all aspects of the work on potential projects. Quick, responsive service and on-time delivery of work products is a hallmark of Heck Associates.

Dr. Heck, who has worked in Air Quality for nearly 30 years, has been involved extensively during the past 15 years with projects related to EPA's Acid Rain Program and NOx Budget Program, which have been universally acclaimed as extremely effective in reducing emissions cost effectively beyond targets. During the past ten years, Dr. Heck's specific experience also includes the following:

- ◆ Contributor and Reviewer for *World Business Council for Sustainable Development/World Resources Institute's "Greenhouse Gas Protocol: GHG Protocol for Project Accounting"*;
- ◆ For a California power company, provided technical assistance that culminated in the certification of their 2002, 2003, 2004 and 2005 emission inventories. Heck Associates quantified GHG emissions consistent with California Climate Action Registry Protocols using data in 10K forms, FERC Forms 1 & 2, California Gas Report, Form EIA-861 and internal corporate spreadsheets. Also quantified emissions for smaller sources: company jet, below-ground fugitive releases from natural gas transmission and distribution, company-wide mobile source diesel use and gasoline use, company-wide stationary diesel and gasoline use, company-wide propane use, diesel and gasoline storage, electricity use, and purchases and sales-emissions from T&D losses. Evaluated significance of N₂O and CH₄ emissions compared to CO₂ emissions, all from combustion.
- ◆ For two Fortune 500 companies, prepared responses to the Carbon Disclosure Project (CDP4) questionnaire. The CDP provides a means for the world's largest institutional investors to collaborate on the business implications of climate change. The CDP4 information request was signed by 211 institutional investors with assets of more than \$31 trillion.
- ◆ Prepared DOE 1605(b) filings [Voluntary Reporting of Greenhouse Gases] that documented the emission reductions from the following activities: (1) fly ash used for cement replacement, (2) leak detection and repair for SF₆, (3) van pooling, car pooling and mass transit, (4) electricity from MSWs, (5) electricity from landfills, (6) hydro power, (7) solar power, (8) electricity from refinery gas, (9) demand side management, (10) recycling, (11) Natural Gas STAR program, (12) repowering, (13) fuel substitution, (14) natural gas and electric vehicles, (15) power purchases (16) coal ash used for land contours at coal mine, (17) coal ash used for stabilizer for sewage sludge, (18) coal ash used for anti-skid agent for icy road, (19) scrubber desulfurization product used for stabilizer for sewage sludge, and (20) scrubber desulfurization product for fertilizer for citrus and sugar producers.
- ◆ Developed an Emission Quantification Protocol for generating NOx discrete emission reductions (DER) based on over-controlled NOx emissions; DERs were used at other sources to compensate for excess NOx emissions, in lieu of installing NOx Reasonably Available Control Technology;
- ◆ Prepared Annual Emission Inventories for facilities with over 300 emission points;
- ◆ Prepared Acid Rain Monitoring Plans and NOx Budget Monitoring Plans for emission sources;
- ◆ Prepared and certified Early NOx Reduction Applications in conjunction with USEPA's NOx Budget Program;
- ◆ Performed due diligence on banked emission reductions in conjunction with USEPA's New Source Review Program to verify that the reductions were surplus, real, enforceable, permanent and quantifiable;
- ◆ Prepared the groundwork for completing Memoranda of Understanding between three pairs of states that would have allowed the interstate trading of emission credits for use in new construction projects;
- ◆ Informed the public debate on global warming by speaking to civic and professional groups in the Mid-Atlantic Region.