

RYAN R. KUNTZ, P.E.

Vice President / Project Director / Satellite Office Manager

Education

BS – Biological Systems Engineering, Texas A&M University, 2003, Cum Laude

Professional Licenses

Registered Professional Engineer in Alabama, Arkansas, Colorado, Louisiana, Mississippi, New Mexico, Oklahoma, Tennessee, and Texas.



Ryan Kuntz

Professional Experience

Mr. Kuntz has over 18 years of solid waste engineering and consulting experience and serves as a design engineer for many types of projects ranging from regulatory permitting and design of landfills (active and closed), coal combustion residual (CCR) facilities, landfill gas (LFG) collection and control systems, LFG transmission pipelines, leachate collection and control systems, landfill liner and cover systems, landfill development plans, and surface water management systems. He has served as Professional of Record on over 25 landfill liner and/or final cover construction quality assurance (CQA) projects and over 25 gas collection and control system (GCCS) CQA projects. He has prepared over 40 construction plans, technical specifications, and bid packages for landfill liner/final cover and GCCS projects combined.

The following are representative of projects which Mr. Kuntz has managed and/or participated in:

Solid Waste/CCR/GCCS Facility Design and Permitting

Mr. Kuntz has served as the engineer-of-record for the permitting and design for landfill permit and amendment applications for various clients. This has included the development of all permit design plans, landfill gas management plans, closure and post-closure care cost estimates and plans, drainage and flood studies, soil and liner quality control plan, site operating plan, and related permit documents.

Mr. Kuntz has been the lead design engineer or participated in the following solid waste design and/or permitting projects:

- Preparation of construction plans, specifications, and bid documents for over 40 projects, inclusive of landfill liners, landfill final cover, GCCS installations, including blower/flare facility specification and design, landfill gas (LFG) transmission pipelines, and other landfill infrastructure.
- Design and preparation of construction plans, specifications, and bid documents for CCR landfill liners and final covers. Mr. Kuntz is very familiar with the CCR regulations, specifically related to 40 CFR Part 257.
- Leachate and contaminated water management plans, including evaluation of leachate collection system, collection piping capacity, sump capacity; analysis of leachate generation using the HELP model; and demonstration of the effects of leachate recirculation on leachate generation.

- Surface water drainage design plans, including modeling and design of site-specific hydrology and hydraulics for the surface water drainage systems using the Rational Method, Technical Release – 55, HEC-HMS, etc. for comparison of pre- and post-development conditions.
- LFG management plans and GCCS master plans, including sequencing plans and capital budget planning.
- Closure and post-closure care cost estimates and plans.
- Landfill sequencing/development plans, including volumetric analysis and budget planning.
- Transfer station permit and registration applications, including development of permit-level plans, stormwater drainage plans, contaminated water management plans, and site operating plans for these facilities consistent with 30 TAC 330 regulations.
- Compost facility registration application, including developing a permit-level plans, process description, feedstock identification, tipping process, processing and post-processing description, as well as recommendations for the ratio of sludge to wood waste and for moisture content of the mixture.
- Various redevelopments over closed landfills (i.e., 30 TAC 330, Subchapter T authorizations) in Texas through the Texas Commission on Environmental Quality (TCEQ). The authorizations ranged in size and magnitude, including with and without enclosed structures, comprised of developments for commercial retail and light/heavy industrial (i.e., container storage yard, concrete batch plants, etc.). He has also developed authorization requests for the disturbance of final cover over closed areas of landfills.

Feasibility Studies

Mr. Kuntz has served as lead engineer on a number of feasibility studies including the following:

- Landfill bioreactor project involving alternative liquids management systems.
- Landfill-gas-to-energy (LFGE) project involving alternative technologies for converting landfill gas to energy using reciprocating engines, gas beneficiation (i.e., pressure swing absorption, membrane filter, and chemical adsorption), analysis of the natural gas market, and institutional and regulatory barriers. This included a pro forma analysis in order to assess the viability of the LFGE alternatives and the return on investment.
- Landfill development involving alternative landfill locations, location restrictions, and alternative landfill configurations and capacities. Using the development of capital and operating costs, prepared pro forma analyses for projecting the cost per ton of waste disposal.

Construction Phase Services and/or Quality Assurance

Mr. Kuntz has managed construction-phase services, including review of submittals, interpretation of construction plans and specifications, review of pay applications and verification of measurement and payment, as well as final inspections of completed work, for construction of landfill drainage, landfill liners/final covers, including CCR landfills, haul roads, GCCS installations, and LFG transmission pipelines. Additionally, Mr. Kuntz He has served as Professional-of-Record (Certifying Engineer) on over 25 landfill liner and/or final cover CQA projects and over 25 GCCS CQA projects.

Storm Water Pollution Prevention & Spill Prevention, Containment, and Countermeasure Plans

Mr. Kuntz has prepared numerous SWP3s for compliance with the National Pollutant Discharge Elimination System/Texas Pollutant Discharge Elimination System (NPDES/TPDES) General Permits related to discharges from industrial activities and construction activities. Additionally, Mr. Kuntz has

prepared SPCCs to address the EPA's rules for above-ground storage tanks in accordance with the requirements of 40 CFR Part 112 - Oil Pollution Prevention, as related to SPCC Plan requirements for onshore facilities (excluding production facilities). The SWP3s and SPCCs are related to facilities such as landfills, transfer stations, material recovery facilities (recycling), hauling companies, etc.