



RYAN R. KUNTZ, P.E.

Vice President / Business Unit Director



PROFESSIONAL EXPERIENCE

Mr. Kuntz has over two decades of solid waste engineering and consulting experience. He has served 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 final cover systems, landfill development plans, and surface water management systems. He has served as Professional of Record on over 30 landfill liner and/or final cover construction quality assurance (CQA) projects and over 30 gas collection and control system (GCCS) CQA projects. He has prepared over 50 construction plans, technical specifications, and bid packages for landfill liner/final cover and GCCS projects combined.

Selected projects representative of Mr. Kuntz's experience include:

Solid Waste/CCR/GCCS Facility Design and Permitting

Mr. Kuntz has served as the engineer-of-record for the permitting and design for landfill and transfer station permits/registrations and amendment applications for various clients in both Texas and Oklahoma, **including a privately owned greenfield landfill permit application in East Texas, greenfield permit application for City of Waco Landfill, permit amendments for two privately owned landfills in Oklahoma, permit application for a transfer station in North Texas, and registration application for City of Waco Transfer Station.** This has included developing 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 50 projects, including landfill liners,
- Landfill final covers, GCCS installations, including blower/flare facility specification and design, landfill gas

Details

Education

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

Licenses and Registrations

Registered Professional Engineer – AL, AR, CO, LA, MS, NM, OK, TN, and TX.

(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 CCR regulations, specifically 40 CFR Part 257.
- Leachate and contaminated water management plans, including evaluation of the 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 TCEQ regulations.
- Compost facility registration application, including developing permit-level plans.
- 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, and comprised developments for commercial retail and light/heavy industrial uses (i.e., MSW transfer station, container storage yard, concrete batch plants, etc.). He has also developed authorization requests to disturb final cover over closed areas of landfills.

Feasibility Studies

Mr. Kuntz has served as lead engineer on several 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 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 capital and operating cost development, prepared pro forma analyses to project the cost per ton of waste disposal.

Construction Phase Services and/or Quality Assurance

Mr. Kuntz has managed construction-phase services, including reviewing submittals, interpreting construction plans and specifications, reviewing pay applications and verifying measurements and payments, and conducting final inspections of completed work, for construction of landfill drainage, landfill liners/final covers, haul roads, and GCCS installations.