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On April 30, 2004, the National Nuclear Security Administration (NNSA) directed the development of a closure plan for Los Alamos National Laboratory (LANL) Technical Area (TA-18) in response to security concerns at that location. An essential part of the closure plan was the removal of Special Nuclear Material (SNM) from TA-18. In order to accomplish this task, LANL was directed to establish a temporary staging location at TA-55. The use of Secure Storage Transport (SST) trailers was suggested, due to time constraints and the temporary nature of the storage requirements. An SST is an over-the-road trailer the DOE Complex uses to transport programmatic SNM. An SST has a variety of safety and security features

as well as its own authorization basis. The short term parking of the SSTs required that a covered concrete pad be built within the protected area at TA-55. Construction of a site to park the SSTs also required the installation of power, lighting, security communication lines, and a lightning protection system.

Since Merrick & Company had completed a similar design for an installation that was previously constructed at TA-18, it was tasked to do the design of the installation. The design of the concrete pad and the trailer tie-down systems had to meet the strict requirements for Performance Category 3 (PC-3) and provide the necessary specification requirements to provide

documentation to meet the criteria for a Management Level 1 (ML-1) project. The design of the concrete pad and utility systems to park up to six SSTs, included the development of Functional and Operational Requirements (F&ORs), design criteria check list, calculations, specifications, drawings, and a verification, inspection, and test plan.

Merrick also provided Title III services for the construction of the installation. Merrick completed the review of submittals, preparation of responses to Requests for Information (RFIs), preparation of Field Change Requests (FCRs), and preparation of Record Documents. Merrick also provided support for the Readiness Assessment.

