



Control Number: 37448



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LCRA TRANSMISSION SERVICES CORPORATION

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April 5, 2010

James Galloway, Filing Clerk
Public Utility Commission of Texas
1701 N. Congress Avenue
P.O. Box 13326
Austin, Texas 78711-3326

Re: SOAH Docket No. 473-10-1097; *PUC Docket No. 37448; Application of LCRA Transmission Services Corporation to Amend its Certificate of Necessity and Convenience (CCN) for the Gillespie to Newton 345-kV CREZ Transmission Line in Gillespie, Llano, San Saba, Burnet, and Lampasas Counties, Texas – Exhibit WGG-1R*

Dear Mr. Galloway:

Earlier this afternoon, LCRA TSC filed its Rebuttal Tesimony in the above-referenced docket. Subsequently we realized that the exhibit to Mr. Griffin's rebuttal (Exhibit WGG-1R) was inadvertently omitted. Attached to this letter is Exhibit WGG-1R. If you or the parties have any questions please let me know.

Sincerely,

Fernando Rodriguez w/permission
Fernando Rodriguez
Associate General Counsel
Jm

c: All parties

1126

William G. Griffin, P.E.

Senior Project Manager

Education

B.S., Mechanical Engineering, Louisiana State University, Baton Rouge, Louisiana, 1964

MBA, Finance, University of Houston, Houston, Texas, 1973

Chronological Work Experience

Ordnance Maintenance Officer, U.S. Army, 5th/33rd Armor, Ft. Knox, Kentucky and 1st Logistics Command, RVN, 1964-1966.

Propulsion Engineer, Chrysler Corporation, Space Division, New Orleans, Louisiana, 1966-1969.

Member of the Technical Staff, Applied Technology Laboratory, TRW Systems Group, Houston, Texas, 1969-1973.

Project Manager, Public Works Group, Turner, Collie and Braden, Inc., Houston, Texas, 1973-1976.

Senior Analyst, Economics and Aviation Group, Turner, Collie and Braden, Inc., Houston, Texas, 1976-1980.

President, Systems Design Group, Inc., Mandeville, Louisiana, 1980-1985.

Senior Project Manager, Espey, Huston & Associates, Inc., 1985-1987.

Associate, Espey, Huston & Associates, Inc., 1987-1998.

Associate, PBS&J, 1998-2002

Senior Project Manager, URS Corp., 2002 to Present

Professional Registrations

Registered Professional Engineer, Texas No. 36216, 1974

General Work Experience

Mr. Griffin has more than 40 years of professional experience. He has been a registered engineer for more than 35 years. His engineering assignments have included a wide range of general civil projects including water and wastewater utility designs, drainage studies, and transportation related designs.

Over the past 20 years, Mr. Griffin's experience has been devoted all most entirely to aviation-related projects. He has supervised and directly participated in the preparation of design and planning projects for a wide variety of aviation facilities. In addition to the preparation of construction plans and specifications for aprons, taxiways, and runways incorporating the associated grading, drainage, lighting, marking, and signage, these assignments included preparation of airport master plans, environmental assessments, and financial plans for both small general aviation and large air carrier airports. Much of his experience has involved projects on active airfields that require careful construction phasing to minimize adverse impacts on on-going aircraft operations.

Project Assignments**AIR CARRIER AIRPORTS DESIGN AND CONSTRUCTION**

- Project Manager for the design and construction phase activities for a \$4 million apron expansion at Austin's Robert Mueller Municipal Airport. This project required the design and placement of 90,000 square yards of heavy-duty asphalt pavement, associated lighting, marking and signage.
- Design Engineer with responsibility for the preparation of specifications and assistance with design for the interim parallel Runway 2C-20C at the Nashville International Airport, Nashville, Tennessee. This project involved the extension and improvement of an existing taxiway to serve as an interim runway pending construction of a permanent facility.
- Management of the design of a project to widen the General Aviation ramp edge taxilane at Wichita Falls, TX. Abilene Regional Airport, Abilene, TX.
- Project Engineer for the design for a replacement pavement study for Taxiway K at Dallas-Fort Worth International Airport. Taxiway K is one of the most heavily traveled on the airport.
- Design Engineer with responsibilities for airfield horizontal and vertical geometry, the preparation of pavement designs, and a deicing fluid disposal study for new Runway 11-29 at Lambert-St. Louis International Airport, St. Louis, MO. Mr. Griffin also provided Quality Assurance and Quality Control reviews for the later stages of the project's design.

Cincinnati/Northern Kentucky International Airport

- Project Manager for the design of a rehabilitation program for a 4,000 foot air carrier taxiway at the Cincinnati/Northern Kentucky International Airport. The work included both full depth replacement of PCC panels and asphalt overlays.
- Project Manager for the design and construction phase support for a +5,000 foot crossfield taxiway at the Cincinnati/Northern Kentucky International Airport, Boone County, Kentucky. This project included 63,000 square yards of PCC paving plus associated marking, lighting and drainage. Total project cost was approximately \$7 million.
- Project management of design and construction phase services including inspection and scheduling for a major apron expansion at the Cincinnati/Northern Kentucky International Airport. The project's total cost is approximately \$50 million dollars and its scope includes 120+ acres of 18 inch PCC paving including all associated drainage and utilities to support two air carrier concourses with a total of more than 80 gates.
- Project Manager for the preparation of construction documents for a deicing fluid collection and disposal system at the Cincinnati/Northern Kentucky International Airport. The system consists of nine aircraft deicing pads and five holding tanks ranging in size from 30,000 to 125,000 gallons.
- Project Manager for the preparation of a Preliminary Engineering report for a new 8,000-foot air carrier runway at the Cincinnati/Northern Kentucky International Airport. The project involved extensive coordination with on-going environmental analysis, planning for residential relocations, preliminary designs for the relocation of a state highway including the construction of a tunnel and coordination of extensive utility relocations.

Austin-Bergstrom International Airport

- Management of design and construction phase services for a new 9,000-foot air carrier runway system at the Austin-Bergstrom International Airport. The assignment included all aspects of the runway's development including demolition, paving, lighting and drainage. The runway was designed to CAT III standards and included SMGCS lighting. The project also required extensive drainage analyses and the design of major water quality features. Total construction cost for all phases of the project was approximately \$50 million.
- Management of a design project at the Austin-Bergstrom International Airport that added three high speed exits to the airport's west runway, Runway 17R-35L. The project's innovative design allowed the airport's management to add three new high speed exits instead of the one exit originally envisioned.
- Management of a design project at the Austin-Bergstrom International Airport that provides a rehabilitation program for all of the airport's airfield pavements and an upgrade of the existing lighting system.
- Management of a design project at Austin-Bergstrom International Airport that provided for the completion of the Perimeter Road around the East Runway System. The roadway's alignment required crossing a closed landfill, PCC and HMA pavement designs, and extremely tight geometrical constraints to avoid interference with the Airport's navigational aids.

George Bush Intercontinental Airport

- Management of an air carrier runway and taxiway rehabilitation project at the George Bush Intercontinental Airport. The project includes extensive demolition of existing pavements with the majority of the removed paving materials being reused as base materials for associated roadways and shoulder paving. The project bid price was slightly less than \$30M with the demolition activities estimated at slightly more than \$1.1M.
- Management of a grading and drainage project required to develop a new cargo area at Houston's George Bush Intercontinental Airport. In addition to grading and drainage improvements, the project included the design of approximately 6,500 linear feet of ADG V taxiway. Integral to this project was the identification and permitting for the filling of extensive jurisdictional wetlands. The overall project construction cost exceeded \$15M.

GENERAL AVIATION AIRPORT DESIGN AND CONSTRUCTION

- Preparation of plans and specifications for the rehabilitation of a 4,000 general aviation runway and its parallel taxiway at the Georgetown Municipal Airport, Georgetown, Texas. In addition to pavement rehabilitation, the construction program included the addition of a MIRL, new segmented circle and lighted windcone, beacon rehabilitation and new REILs.
- Design of a runway and taxiway lighting and signage project for the Bay City Municipal Airport, Bay City, Texas.
- Design of a fill area pre-loading project for a 50,000+ square yard aircraft apron at Lakefront Airport, New Orleans, Louisiana. Subsequently assisted in the design of paving, drainage,

marking, lighting and signage for the apron and connector taxiway. Total project construction cost is estimated to be \$5+ M.

- Management of design and construction phase services for an 800-foot runway extension and runway reconstruction project at the Lampasas Municipal Airport, Lampasas, TX.
- Management of design and construction phase services for the relocation and extension to 4,000-feet of the runway at Smithville Municipal Airport, Smithville, TX. The project also included the reconstruction of the existing 5,000 square yard apron and a 5,000 square yard apron expansion.
- Management of an assignment for Cloverfield Airport (now Pearland Regional Airport), Brazoria County, TX which provided airport planning including the preparation of an Airport Layout Plan set, surveys, design, preparation of construction plans and specifications and construction management for a number of projects planned for construction within the next five years. These projects will increase safety, insure compliance with standards, and increase capacity at the airport. The planned projects include an apron expansion and strengthening, construction of a full-length taxiway with a Medium Intensity Taxiway Lighting system parallel to the airfield's main runway, widening and strengthening of the main runway, rehabilitation of various taxiways, conversion of the entrance roadway to a taxiway, construction of a new entrance roadways, and relocation of the airport beacon.
- Management of the design of various improvements to the Rusty Allen Airport, Lago Vista, TX. The Project consisted of the rehabilitation of Runway 15-33, the construction of aircraft holding pads or turnarounds at both runway ends, rehabilitation and expansion of the existing apron, upgrading the runway lighting system, installation of a new rotating beacon and tower, and the installation of an L-881, two-box PAPI on Runway 33.
- Management of the design of various improvements to the hangar access taxiways at Kickapoo Downtown Airport, Wichita Falls, TX. The project including extensive drainage and design construction phasing in order to minimize adverse impacts on going airport operations.
- Management of the design of a project to repave the terminal access road and terminal parking lot at Kickapoo Downtown Airport, Wichita Falls, TX.
- Management of a design and construction project to provided more 20,000 linear feet of fencing at Kerrville Municipal Airport/Schreiner Field Kerrville, TX.
- Management of project directed at lowering the approach minimums at Kerrville Municipal Airport/Schreiner Field Kerrville, TX.

MILITARY AIRFIELDS

- Management of a project that provided construction phase services for the reconstruction of the Runway 13C-31C at Laughlin Air Force Base (LAFB), Del Rio, TX. The project included both PCC and asphaltic concrete replacement. LAFB maintains an extremely aggressive flight schedule thus requiring that the construction schedule be equally aggressive. The project's construction cost was \$7M.
- Management of project that will reconstruct approximately 9,000 square yards of apron pavement adjacent t to Taxiway G at Laughlin Air Force Base (LAFB), Del Rio, TX. The area's existing

Asphaltic Concrete pavement is badly deteriorated and is a Foreign Object Damage (FOD) hazard. The existing pavement will be removed and replaced with Portland Cement Concrete pavement. The project's construction cost was estimated to be \$1.8M.

DESIGN AND PLANNING FOR ROTARY WING FACILITIES

- Preparation of aviation demand forecasts for a planned rotary wing airport in Plaquemines Parish, LA.
- Aviation planning and design support for an urban heliport for Garland, Texas. This project includes 10,000 square yards of concrete paving, lighting, marking and signage. This project required extensive consultation and negotiation with federal agencies and city staff.

ENVIRONMENTAL AND PLANNING

- Preparation of an airport improvement feasibility study for Refugio County, Rooke Field, Refugio, TX. This study provided aviation demand analyses, facilities inventory, and economic feasibility analyses. The project was supervised by TxDOT and provided the first phase of the airport master planning process.
- Preparation of an airport layout plan for a new runway at the Pleasanton Municipal Airport, Pleasanton, TX.
- Preparation of Airport Layout Plan, conduct of facilities inventory and performance of aircraft noise modeling for D. W. Hooks Airport, northwest Harris County, TX.
- Preparation of Airport Layout Plan, conduct of runway extension planning, preparation of financial plans and conduct of aircraft noise modeling for Lakeside Airport, western Harris County, TX.
- Siting analysis, preparation of Airport Layout Plan, conduct of an aviation demand analysis, and preparation of an environmental impact assessment including noise modeling, facilities requirements and financial analysis for a proposed new Central East Texas Airport, Nacogdoches County, TX.
- Preparation of facilities analysis, conduct of paving assessment, development of an aviation demand analysis, and preparation of an environmental impact assessment including noise analysis and financial analysis for Miller International Airport, McAllen, TX.
- Preparation of an analysis of facilities analysis, development of an aviation demand analysis, and preparation of an environmental impact assessment for Laredo International Airport, Laredo, TX.:
- Siting analysis, preparation of Airport Layout Plan, conduct of an aviation demand analysis, conduct of an airspace assessment, and preparation of an environmental impact assessment including noise modeling for a proposed new airport in Texas City, TX.
- Preparation of an Airport Layout Plan and financial analysis for William P. Hobby Airport, Houston, TX.

- Preparation of a Terminal Facility Development Report for Patrick Henry International Airport now the Newport News/Williamsburg International Airport. This study included projections of air carrier passenger enplanements and the development of a terminal facility plan keyed to that projected demand. The study was concluded with a financial analysis that forecast capital expenditures, revenues and expenses.
- Preparation of a Terminal Area Plan for the Georgetown Municipal Airport, Georgetown, Texas. This plan presented an aviation demand versus capacity analysis for the airport.
- Preparation of an Airport Master Plan for the Georgetown Municipal Airport. The Master Plan included consideration of all aspects of the airport's development including aviation demand, facilities needs, environmental overview, including a detailed noise analysis, facilities planning and economic analysis. Georgetown Municipal is a large general aviation facility located in rapidly growing Williamson County.
- Project management for the preparation of an environmental assessment, including an aircraft noise analysis, for the extension of Runway 17-35 at the Brazoria County Airport near Angleton, Texas. The Brazoria County Airport is a primary reliever for the Houston area and is located in the environmentally sensitive Texas coastal plain.
- Preparation of engineering and environmental analyses in support of the preparation of a master plan update for the Cincinnati/Northern Kentucky International Airport. This effort included supervision of topographic mapping, cost estimation, direction of an environmental analysis, including an aircraft noise analysis, and preparation of drainage and utility plans.
- Preparation of storm water pollution prevention plans for construction and industrial activities at the Cincinnati/Northern Kentucky International Airport.
- Consultant to the City of Maryland Heights, MO with regard to the Part 150 Noise Analysis and Master plan for St. Louis' Lambert international Airport.

NON-AVIATION ASSIGNMENTS

- A major underground storage tank (UST) removal and site remediation project for the Texas Department of Highways and Public Transportation. Mr. Griffin's project responsibilities included the supervision of the placement of 85 water quality observation wells, management of the associated laboratory analysis program for the removal of more than 150 USTs and preparation closure reports for 50 separate sites.
- The 500 acre Blue Mountain Lake subdivision in eastern Pennsylvania. This project involved a resort and second home community in an environmentally sensitive area. The assignment required the provision of engineering support on an extremely short schedule.
- Site engineering for a 70,000 square foot Convention Center on South Padre Island. This project included, in addition to normal civil engineering activities such as utility systems design, roadway and parking lot design, site grading and drainage; detailed wetlands delineation with site design directed toward minimizing environmental impacts.
- Project Management for a Due Diligence Study for Padre Isles Subdivision, Corpus Christi, TX. The study was prepared preparatory to the advertisement of public sale of the undeveloped

sections of the Padre Isles subdivision. Included in the study were a review of all USCE permits, assessment of site environmental conditions, including water quality in the surrounding canal system, evaluation of the site drainage system and a condition and capacity evaluation of the water and wastewater utilities and streets. A detailed analysis of the project's development and platting history was also included.

Other Training

Post-graduate coursework in Environmental Engineering University of Houston, 1975-1976

Relocation Assistance, FHWA/IRWA Course, 1981

Business Relocations, FHWA/IRWA Course, 1984

Airport Planning, University of Texas Short Course, 1992

Airport Pavements, University of Texas Short Course, 1993

Airport Noise, University of Texas Short Course, 1994

Publications

"Relocation of Businesses with Large Inventories," Right of Way, a publication of the International Right of Way Association, October 1984.

Special Information**LECTURES**

"Environmental Planning", University of Texas Center for Transportation Research, Airport Planning short course, 2000 and 2002

"Environmental Planning", University of Texas Center for Transportation Research, Airport Engineering and Management short course, 2000 and 2002

"FAA/ICAO Planning Process", University of Texas Center for Transportation Research, Airport Engineering and Management short course, 2002

MILITARY EXPERIENCE

Mr. Griffin served two years of active duty with the U.S. Army and upon completion of his active duty tour joined the U.S. Army Reserve (USAR). During active duty, Mr. Griffin served as a tracked vehicle maintenance officer and was stationed at Ft. Knox and Cam Rahn Bay, RVN. While on active duty, Mr. Griffin held assignments as platoon leader, company executive officer and company commander. During his USAR assignments he held a variety of command and staff positions culminating in an assignment as a Battalion Commander. Mr. Griffin retired from the service with the rank of Major.