

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF NEW CINGULAR WIRELESS PCS, LLC (AT&T) FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A TELECOMMUNICATIONS TOWER FACILITY AT THE FIRSTLIGHT HYDRO GENERATING COMPANY PROPERTY AT KENT ROAD IN THE TOWN OF NEW MILFORD, CONNECTICUT

DOCKET NO. 444

March 25, 2013

HEARING INFORMATION OF NEW CINGULAR WIRELESS PCS, LLC (AT&T)

The Applicant, New Cingular Wireless PCS, LLC (“AT&T”) submits the following hearing information to the State of Connecticut Siting Council in the captioned proceeding:

Counsel Appearing at the Hearing

Counsel appearing at the hearing will be Lucia Chiocchio, Esq.

List of Witnesses

1. Michael Libertine, LEP, Director of Siting and Permitting, All-Points Technology Corporation, P.C.
2. Dean Gustafson, Senior Wetlands Scientist, All-Points Technology Corporation, P.C.
3. Carlo F. Centore, P.E., Principal, Centek Engineering
4. Alex Murshteyn, Site Acquisition Specialist, Centerline Communications
5. Michael Lawton, Manager of Engineering, SAI

Resumes included as Attachment 1.

Documents to be Administratively Noticed

None at this time.

Exhibits to be Offered

The Applicants will offer as exhibits the following:

1. Application of AT&T dated October 31, 2013

2. AT&T Bulk Filing dated October 2013
3. AT&T Responses to Siting Council Interrogatories Set I dated March 7, 2014
4. AT&T Responses to Siting Council Interrogatories Set II dated March 25, 2014
5. AT&T's Submission of Updated Drawings dated March 25, 2014
6. Applicant's Pre-Filed Statement Of Facts In Lieu Of Direct Testimony, dated March 25, 2014

Affidavit of Sign Posting

A notice sign was posted at the subject property on March 18, 2014. An affidavit of posting is included herein as Attachment 2.

Public Presentation


For the Siting Counsel's records, included here as Attachment 3, please find a hardcopy of the electronic presentation the Applicant will provide at the April 1, 2014 7:00pm public hearing on this Docket. All information included in the presentation is incorporated in the above noted exhibits to be offered.

The Applicants reserve the right to offer additional exhibits, testimony, witnesses and administratively noticed materials as may be necessary during the hearing process.

CERTIFICATE OF SERVICE

I hereby certify that on this day, an original and fifteen copies of the foregoing were sent electronically and by overnight mail to the Connecticut Siting Council and:

Dated: March 25, 2014


Lucia Chiocchio

cc: Michele Briggs, AT&T
Alex Murshteyn
Peter LaMontagne
Mike Lawton
Mike Libertine
Dean Gustafson
Carlo Centore
Christopher B. Fisher, Esq.

Michael Libertine, LEP
Director of Siting and Permitting
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive, Killingworth, CT 06419
860-663-1697 860-983-5153

General Background

Mr. Libertine has over 22 years of professional experience in the environmental consulting field. His experience includes regulatory compliance and permitting for utility clients involving extensive interactions with the local, state and federal agencies; environmental assessments/impact statements for NEPA compliance; site assessments and field investigations for property transfers; remedial strategy development; environmental due diligence; Brownfields redevelopment projects; and remedial investigations at RCRA facilities as well as state and federally recognized hazardous waste sites. Mike is a Licensed Environmental Professional in Connecticut and has been Project Manager on over 1700 environmental site assessments and field investigations for property transfers throughout New England.

Employment History

Vanasse Hangen Brustlin, Inc., 54 Tuttle Place, Middletown, Connecticut

- Director, Environmental Services May 1997 to January 2012

Atlantic Environmental Services, Inc./GEI Consultants, Colchester, Connecticut

- Project Manager/Team Leader, January 1991 to May 1997

Key Projects

Certificates of Environmental Compatibility and Public Need, Electrical Substations, Connecticut

Project Manager in support of Applications to the CSC for the permitting of five new bulk power substations in Killingly, Guilford, Windsor, Waterford and Westport, Connecticut (2004 through 2012). These projects required extensive coordination of numerous team members, including client's in-house discipline managers and engineers, consultants, legal counsel, staff, and subcontractors. Mike was responsible for overseeing pre-acquisition environmental due diligence services, site survey, site data collection and analysis, site/civil layout, and drafting of municipal documents and the Application to the CT Siting Council. Services included conducting natural resources inventories of existing flora and fauna, habitat evaluations, wetland delineation, noise analyses, hazardous waste investigations, site layout and design drawings, landscape architecture, preparation of technical documents, coordination with State and local agencies, and permitting. Mike was also responsible for the preparation of Development and Management Plans to the Siting Council and providing environmental monitoring for adherence to the CTDEP's General Permit for Construction Activities and environmental requirements set forth in the Client's contract documents and specifications.

Environmental Siting and Permitting Services, Electrical Utilities

Program Manager in support of various electrical transmission projects, including assessment and permitting of bulk power substations, transmission line corridors, structures, and underground utility installations in CT and MA. Services include overseeing civil engineering feasibility studies, pre-acquisition due diligence evaluations, natural resources inventories of existing flora and fauna, habitat evaluations, wetland delineations, noise analysis, hazardous waste investigations, site survey, layout and design drawings, landscape architecture, visual analyses, preparation of technical documents, coordination with federal, state and local agencies, regulatory permitting, public outreach, and expert witness testimony. Mike has assisted clients in the siting, design and permitting of new bulk power substations, modifications to existing substations and switch yards, installing transition stations, as well as transmission line corridor studies submitted to the CT Siting Council.

Environmental Evaluations and Regulatory Permitting, Wind Farm Colebrook, Connecticut

Project Manager for environmental considerations associated with the development of Connecticut's first commercial wind farm in northwest Connecticut. Responsibilities included overseeing due diligence, natural resource studies and environmental permitting activities. The 3.2 MW project involved extensive evaluations of wetland and other natural resources, flora and fauna studies, sound studies, flicker analyses, visual evaluations and expert testimony at the local and state level, including multiple public hearings. Mike assisted this client in preparing the Development and Management Plan and pre-construction coordination efforts.

Environmental Siting and Permitting Services, Fuel Cell Installation, South Windsor, CT

Project Manager for environmental considerations associated with the development of a 4.98 megawatt fuel cell generation facility. Mike prepared an environmental assessment documenting existing environmental conditions at the site and the proposed project's impacts to water resources, vegetation and wildlife, rare species, historic and cultural resources, scenic and recreational areas, and other natural resources. Noise and air quality assessments were also included in the evaluation of how the proposed build conditions might affect the surrounding environment.

Environmental Permitting Services for Wireless Telecommunications Clients, New England & NY

Program Manager for environmental due diligence, siting and permitting services in support of various telecommunications clients throughout New England and New York. Mike has worked directly for licensed wireless service providers and tower management firms since 1997. Representative project-related services include due diligence and land use evaluations; preliminary site screenings; preparation of compliance documentation, environmental assessments and Memorandums of Agreement to fulfill NEPA requirements; Phase I ESAs and Phase II field investigations; remedial planning and oversight; wetland assessments; vegetative/biological surveys; noise analyses; visibility analyses; graphic support; preparation of regulatory permit applications, and construction support. Mr. Libertine has testified on behalf of telecommunications clients in front of local municipalities and the CT Siting Council on over 350 applications.

Constructability Review, Greater Springfield Reliability Project, Massachusetts and Connecticut

Project Manager responsible for assessing the environmental and construction feasibility associated with the installation of a new 345-kV overhead transmission line, as well as existing electric distribution and transmission infrastructure upgrades, within approximately 57 miles of existing transmission line right-of-way (ROW) in Massachusetts and Connecticut. Project tasks included assessing the suitability of existing access roads to and within the ROW to determine their viability as construction routes; evaluating new access roads, developing primary access routes, identifying appropriate locations for construction pads at each proposed structure location, developing data collection and management methodologies, and, providing a GIS geo-database and mapping depicting field data. Mike also assisted the client on environmental permitting and compliance-related issues associated with the reconfiguration of three substations along the route, two in MA and one in CT.

Permitting Support Services, Interstate Reliability Project, Connecticut

Project Manager responsible for preparing Location Review documents associated with the Card Street Substation upgrades and overhead transmission line interconnections in Lebanon, Connecticut. Project tasks included evaluations of environmental impacts, including wetland resources and wildlife habitat, roadway improvements, site design, landscaping and visual impacts. Mr. Libertine acted as liaison with local officials during the technical review process and assisted in securing letters of support from the First Selectman, Planning and Zoning and Inland Wetlands Commissions.

Environmental Assessment and Constructability Review, Central Connecticut

Project Manager for natural resources inventory/assessment and construction evaluation along 35 miles of ROW corridor. Environmental tasks included Connecticut and federal wetland delineations, Army Corp of Engineers data plots, wetlands functions and values assessment, inventory of threatened and endangered species and critical habitats, biological surveys, and cover-type mapping. Once existing conditions were documented, a feasibility analysis was conducted to identify environmental and constructability conflicts associated with proposed new line installation and facility upgrades.

Dean Gustafson
Professional Soil Scientist
Senior Wetland Scientist
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive, Killingworth, CT 06419
860-663-1697 860-836-6576

General Background

Mr. Gustafson has over 24 years of professional experience in the environmental consulting field. His experience includes NEPA/CEPA documentation, wetlands (delineation, evaluation, mitigation design, monitoring, stream restoration, and local, state and federal permitting), water-quality investigations, coastal-zone-management studies, natural-resource and ecological evaluations. Mr. Gustafson is experienced in vernal pool monitoring and assessment, including identification of a wide variety of native amphibians and reptiles that utilize vernal pool habitats. Mr. Gustafson also has extensive experience with the Connecticut Department of Energy and Environmental Protection Natural Diversity Data Base and has resolved numerous potential rare species conflicts with proposed developments. Mr. Gustafson has particular expertise in wetland identification, soil mapping, soil classification, vegetative and hydrology surveys, wetland impact assessment, wetland mitigation design and oversight. In addition, he has extensive experience in local, state, and federal wetland permitting including having worked on over 100 Connecticut Siting Council dockets along with providing expert testimony at Council hearings. Mr. Gustafson has consulted on numerous projects which involve soils related issues such as erosion and sediment control planning, vegetative soil stabilization and storm water management BMP evaluation and selection. He has served as the Environmental Compliance Monitor on several Connecticut Siting Council approved projects. Mr. Gustafson's water quality experience includes stormwater studies for compliance with National Pollution Discharge Elimination System (NPDES), Section 401 Water Quality Certification, and the 2004 Connecticut DEP Stormwater Quality Manual.

Employment History

Vanasse Hangen Brustlin, Inc., 54 Tuttle Place, Middletown, Connecticut

- Natural Resource Group Leader 1997 to 2012

Atlantic Environmental Services, Inc./GEI Consultants, Colchester, Connecticut

- Senior Project Scientist 1992 to 1997

Soil Science & Environmental Services, Cheshire, Connecticut

- Professional Soil Scientist 1988 to 1992

Key Projects

On Call Environmental Services, Northeast Utilities Transmission Group

Task Manager in support of various Connecticut projects, including assessment and permitting of bulk power substations, transmission lines/structures, underground utility installations, and environmental investigations of existing facilities. Services include pre-acquisition due diligence activities, conducting site development feasibility assessments, natural resources inventories of existing flora and fauna, vernal pool studies and assessment, habitat evaluations, wetland delineations, wetland assessment, wetland mitigation design, wetland mitigation construction monitoring, permit compliance monitoring, site layout and design evaluations, erosion and sediment control planning and construction monitoring, vegetative soil stabilization and storm water management BMP evaluation and selection, preparation of technical documents, coordination with State and local agencies, and permitting support.

Environmental Compliance Monitor, Structure Replacement Project, Montague/Leverett, Massachusetts

Environmental Compliance Monitor in accordance with Massachusetts Department of Environmental Protection 401 Water Quality Certificate permit conditions for 345 kV structure replacement project. Monitoring included installation of wooden timber swamp mats across a 65-acre beaver impoundment for the removal of eight existing wooden structures and replacement with four steel structures. Environmentally sensitive compliance monitoring across this approximate 3,500 linear foot span included monitoring of drilling activities for deep caisson foundations within wetlands including in the middle of the beaver impoundment.

Regulatory Permitting, Barbour Hill Substation Modifications, South Windsor, Connecticut

Project Manager responsible for the preparation of a Petition to the Connecticut Siting Council for a determination that no Certificate of Environmental Compatibility and Public Need was required for the proposed modifications to the Barbour Hill Substation in South Windsor, Connecticut. The project included the replacement and expansion of an existing facility and the modification of line interconnections. Responsibilities included conducting natural resource inventories, wetland delineation, noise study, soil and groundwater sampling, property survey, preparation of site/civil design drawings, supporting graphics, photo-simulations, and local and state permit documents. Mr. Libertine also supported CL&P during its contractor selection process and developed a site-wide soil and water management plan for implementation during construction activities.

Certificate of Environmental Compatibility and Public Need, Rood Avenue, Windsor, CT

Task Manager responsible for the preparation of environmental sections of a Certificate of Environmental Compatibility and Public Need to the Connecticut Siting Council for the construction of a new substation. The project included the construction of a substation in wooded uplands with direct wetland impacts. Responsibilities included conducting natural resource inventories, wetland delineation, and local and state permit documents and coordination with the U.S. Army Corps of Engineers New England Division. The project also included the successful transplanting of pink lady-slippers (*Cypripedium acaule*).

Regulatory Permitting, Barbour Hill Substation Modifications, South Windsor, CT

Task Manager responsible for the preparation of a Petition to the Connecticut Siting Council for a determination that no Certificate of Environmental Compatibility and Public Need was required for the proposed modifications to the Barbour Hill Substation. The project included the replacement and expansion of an existing facility and the modification of line interconnections. Responsibilities included conducting natural resource inventories, wetland delineation, and local and state permit documents.

Environmental Assessment and Constructability Review, Central Connecticut Reliability Project

Project Scientist for natural resources inventory/assessment and construction evaluation along 35 miles of ROW corridor. Environmental tasks included Connecticut and federal wetland delineations, Army Corp of Engineers data plots, wetlands functions and values assessment, inventory of threatened and endangered species and critical habitats, biological surveys, and cover-type mapping. Once existing conditions were documented, a feasibility analysis was conducted to identify environmental and constructability conflicts associated with proposed new line installation and facility upgrades.

Certificates of Environmental Compatibility and Public Need, Various Sites, Connecticut

Has served as Task Manager in support of numerous Applications to the Connecticut Siting Council (CSC) for the permitting of new electrical substations throughout Connecticut. These projects require extensive site data collection and analysis including natural resources inventories of existing flora and fauna, habitat evaluations, wetland delineation and function/value analysis, site layout analysis and wetland impact evaluation, wetland mitigation, preparation of technical documents, coordination with State and local agencies, and permitting. Environmental monitoring services for adherence to the CTDEP's General Permit for Construction Activities were also provided.

Environmental Permitting Services for Wireless Telecommunications Clients, New England & NY

Task Manager for environmental due diligence and permitting services in support of various telecommunications clients throughout New England and New York. Mr. Gustafson has worked directly with the major licensed PCS carriers since 1997. Projects include due diligence and land use evaluations; preliminary site screenings; preparation of compliance documentation, environmental assessments and Memorandums of Agreement to fulfill NEPA requirements; wetland delineation, assessments, and mitigation; local, state and federal wetland permitting; vegetative/biological surveys; rare species investigations; floodplain compliance; preparation of regulatory applications (including SEQRA submissions); permit compliance monitoring; and permitting support. Mr. Gustafson has testified on behalf of telecommunications clients in front of local municipalities and the Connecticut Siting Council on over 100 applications and petitions.

Telecommunications Carrier Wetland Compliance Program

Project Manager for major telecommunications carrier's wetland compliance program. Responsible for wetland delineation, assessment, mitigation and alternatives analysis, habitat evaluations, vernal pool identification and assessment, design review for permit feasibility, and successful permitting of over 50 wireless telecommunications facilities with local wetland/conservation commissions in the Connecticut, Massachusetts, and Rhode Island market

areas. Responsible for erosion and sediment control planning and construction monitoring for projects in Connecticut and Massachusetts that represent a potential to impact sensitive wetland resources during construction.

National Retailer, Rocky Hill, CT

Responsible for wetland permitting of a multi-tenant retail development resulting in significant unavoidable wetland impacts and the creation of a wetland mitigation area exceeding 1 acre in size. Wetland permits were secured from the Rocky Hill Wetland Agency, CTDEP and U.S. Army Corps of Engineers for wetland impacts and wetland mitigation area.

Luxury Residential Development, Hartford, CT

Project manager for an award-winning luxury residential community developer. Provided project management and technical direction for wetland compliance of projects undertaken in Connecticut including wetland determination, evaluation, mitigation design and local, state and Army Corps of Engineers permitting. Assisted with planning restoration of a failed slope that occurred during construction, secured approval from the local wetland commission and monitored erosion and sediment controls to ensure that nearby wetlands and perennial stream were not adversely impacted.

Retail Wetland Program, Various Projects, CT

Project manager for the Connecticut office for large retail Client Fee-for-Service and Turnkey Developer Programs. Provide project management and technical direction for wetland compliance of projects undertaken in Connecticut including wetland determination, evaluation, mitigation design and local, state and Army Corps of Engineers permitting.

Connecticut DOT West Haven/Orange Railroad Station, Environmental Assessment

Task manager for assessing natural resources, including wetlands, floodplain, aquatic habitats, and wildlife, associated with a proposed railroad station at one of two possible sites. Prepared technical documents in support of Draft Federal Environmental Assessment/Draft State Environmental Impact Evaluation.

Wetlands Survey and Permitting, ConnDOT Maintenance Facility.

Performed both a state and federal wetland survey and delineation in conjunction with the submission and successful obtainment of a CTDEP Inland Wetlands and Watercourses permit and 401 Water Quality Certifications to conduct remedial activities within and adjacent to existing floodplain wetlands.

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Education	B.S. University of Massachusetts, Plant and Soil Sciences, 1988 Graduate coursework, University of New Hampshire
Affiliations	Member, Lebanon Inland Wetlands and Watercourses Commission, since 1995. Member, Connecticut Audubon Society
Registration	Professional Soil Scientist, Society of Soil Scientists of Southern New England, since 1988. Connecticut Association of Wetland Scientists. Association of Massachusetts Wetland Scientists.
Certifications	OSHA Hazardous Water Operations and Emergency Response (HAZWOPER) Training (29 CFR 1910.120)

PROFILE

Mr. Centore has over 30 years of experience in engineering and construction. He has been responsible for the planning, design, construction, and project management on a broad set of publicly and privately developed projects. He has gained considerable insight into the requirements of project planning, practical engineering solutions, and fast-track projects. Significant projects have included schools, public housing projects building restoration, high-rise construction and most recently the planning and design of over 3,000 wireless telecommunications facilities.

REPRESENTATIVE PROJECTS

Major Construction Projects; 100 Pearl Street, a 17-story office building and parking garage (\$6.0 million); and Goodwin Square, a 32-story office building, hotel and parking garage (\$10.5 million); both located in Hartford, CT.

Additional Construction Projects; Banks - \$1.5 million, Hospitals - \$1.0 million, Commercial Office Buildings - \$1.3 million and Misc. Projects - \$1.0 million.

Additional Engineering Projects; Projects included the design of public housing projects, commercial and institutional facilities, including parking structures, office buildings, nursing homes, and federal prison housing; prepared property evaluations including budget estimates for building owners and property managers; and the supervision of numerous mechanical and electrical renovation projects.

Memorial Sloan Kettering Cancer Center – New York, NY

Structural analysis of wind and seismic loads for rooftop mechanical equipment.

**Greenwich Hospital - Helmsley Pavilion
Greenwich, CT**

Data Center expansion to accommodate redundant Tel/Data equipment including structural mezzanine design, and supports for supplemental HVAC.

Zeego Hybrid Operating Room – New Haven, CT

Design of a State of Art Hybrid Operating room with a Robotic C-Arm and Operating Table in an occupied operating suite. Scope included structural support for all radiology equipment, medical booms and operating lights.

**Toshiba – Home Depot CDP Photovoltaic
System – St. Croix USVI**

Partnered with Toshiba Energy to develop a 360 KW

Photovoltaic system for Home Depot utilizing a combination of thin film technologies and ground mounted silicon panels. Civil/Structural scope included design of supports for inverters, solar panels, weather stations and a utility support bridge.

EDUCATION

B.S., Civil Engineering, University of New Haven, West Haven, Connecticut

REGISTRATIONS AND MEMBERSHIPS

- Professional Engineer; Connecticut, New York, Massachusetts Rhode Island, and Vermont, Pennsylvania, Virginia.
- National Council of Examiners for Engineering & Surveying (NCEES)
- National Society of Professional Engineers (NSPE)
- American Institute of Steel Construction (AISC)
- American Concrete Institute (ACI)

WORK EXPERIENCE

Centek Engineering, Inc. – Senior Project Manager, Structural (Since 1997); Structural Engineer/Project Manager providing consulting services for public housing projects; commercial, manufacturing and institutional facilities; and the design of wireless telecommunications facilities. Responsible for the solution of engineering problems. Determining of program objectives and requirements, organizing programs and projects, and developing standards and guides, team building, quality assurance and control for diverse engineering activities. Guidance is provided to the staff as related to overall objectives, critical issues, design concepts and policy matters.

**The Deluca Construction Company; Project
Manager (3 years)****Fisher & Salamone, P.C.; Structural
Engineer/Project Manager (3 years)****Girard & Company Engineers; Structural Engineer
(4 years)****The Fusco Corporation; Project Manager
(3 years)**

ALEX MURSHTEYN

95 Ryan Drive, Suite 1
Raynham, MA 02767
(508) 821.0159 - cell
AMurshteyn@clinllc.com

EDUCATION:

UNIVERSITY OF MASSACHUSETTS AMHERST – COMMONWEALTH COLLEGE HONORS PROGRAM

Bachelor of Arts, *cum laude*, May 2007, GPA 3.3 / 4.0

Interdisciplinary concentration (STPEC-SOM); Five-College Certificate in International Relations

AFTER GRADUATION – Candidate member of the CCIM Institute, pursuing the CCIM Designation (2010)

CENTERLINE COMMUNICATIONS, Raynham, MA

Nov 12 – Present

Site Acquisition Specialist

- Telecommunications site development team coordinator for over 40 locations in New England & Eastern US
- Assisted with site modifications and acquisitions on a consultant basis until retained for full-time work in 2013

SPINNAKER GROUP | COMMERCIAL DIVISION, Foxboro, MA & East Greenwich, RI

Jun 10 – Aug 13

Associate

- Commercial real estate procurement, disposition and management sales consultant, principally in CT, MA, RI
- Specialized in energy assets – research and brokerage analyst for gas retail, wind and solar electric generation

NELSON HOMES, Brookline, MA

May 08 – Sep 09

Site Management Consultant

- Own landlord's recruit for development, repositioning and marketing consulting for his \$1.5M portfolio
- Live-in property manager, leasing and maintenance crises liaison

BOSTON CAPITAL, Boston, MA

Jan 08 – Jun 08

Investment Analyst

- Managed 47 of 274 apartment assets, spread across 18-states, and 16 of 255 GPs on team for tax credit investors
- Recommended investment equity releases, reviewed construction draws, assessed compliance of LIHTC assets

INSEGMENT, Needham, MA

Aug 07 – Dec 07

Business Associate

- Reported directly to CEO and Managing Director of a consulting and marketing start-up catering to developers
- Land sales, deed recordings, business development research lead for various projects with New England focus

BOARDWALK PROPERTIES, Boston, MA

Jun 05 – Aug 05

Summer Residential Associate

- Top 10 leasing agent in July on a staff of over 100 agents spanning 3 offices servicing all Boston submarkets
- Worked with approximately 80 client groups, drew up leases, performed due diligence on 14+ deals

FIDELITY GROUP REAL ESTATE, Brookline, MA

Jul 02 – Aug 04

Market Research / Leasing Agent

- Championed in-house Craigslist use as the online alternative to apartment rental advertising in Greater Boston
- Analyzed market volume, valuation variances, other MA Multiple Listing Service (MLS) data for investors

LEADERSHIP EXPERIENCE:

INVESTMENT CLUB AND MINUTEMAN EQUITY FUND, Amherst, MA

May 05 – May 06

Founding Co-President

- Lobbied administration of major state university for incorporation and funding of a merged student organization
- Organized and directed Analyst staff, 8-person Executive Board, over 30 basic-member students

INTERNATIONAL RELATIONS CLUB, Amherst, MA

Apr 05 – Apr 06

President

- Administered \$40,000+ student organization, designed training program, advocated for academic credit rights
- Created a comprehensive Delegate Background Guide for the Club's own 3-day 300-person conference

SKILLS & CERTIFICATIONS:

Office 1997 - 2010; MA & RI Real Estate Salesperson license since 2002 and 2010; basic French, native Russian;

ACTIVITIES:

Skiing and golf; top tier Model UN, policy debate delegate from UMass at Mount Holyoke (awarded), Princeton (as head delegate, awarded), University of Pennsylvania, University of Virginia (awarded), Yale

Michael Lawton

Personal Summary

- 24 Years Wireless Engineering and management experience
- In-depth market knowledge in several of the top 10 US markets
- Successful history of design and deployment of large-scale wireless networks
- Experienced with multiple RF technologies, vendors, systems and tools
- Proven reliability, integrity and responsibility as engineer, leader and manager
- Demonstrated ability to form, manage and motivate engineering teams in all stages of network deployment from start-up through network stability
- Consistent record of revenue and margin growth throughout areas of responsibility
- Strong interpersonal, verbal and written communication skills
- Member of Town of Harvard, MA Zoning Board of Appeals

Education

Rensselaer Polytechnic Institute, Electrical Engineering, 1984-1987

Experience

SAI Communications (SAI)

January 2012-present

Manager of Engineering

- Full responsibility for RF engineering team, including LTE Overlay design, scoping, RFDS creation, drive testing, DAS survey, design and commissioning, MPE studies and measurements, RF safety plans, .

Telecom Technology Services (TTS)

March 2006- Jan 2012

Director of Engineering

Responsibilities have included:

- Full responsibility for P&L and employee management of West Coast and Southern US areas of operation as services leader and KAM
- Partnering with sales, software development and marketing to develop creative solutions to meet customer needs and win business
- Oversight and technical leadership for turnkey network growth projects in New England (MA, RI, ME, NH, VT, CT), NY and Northern CA.
- Responsibility for leadership of all RFP/RFQ, tender and bid responses within area of responsibility
- Strong record of customer satisfaction, growth and retention throughout areas of responsibility
- Team size between 20 and 60 engineers
- Business development, project execution, recruiting, training and team management among responsibilities
- Managed Model Tuning project for national wireless carrier, over 100 models delivered on-time and on-target
- Personally developed innovative engineering services and tools to grow revenue and increase customer base
- Technical oversight of many projects including turnkey optimization for GSM and UMTS, turnkey network design (2G and 3G) and QC, E911 compliance certification, AFP and ACP, model tuning, Greenfield and overlay design and rollout.

LCC International

April 1990 – Feb 2006

Customer: Cingular Wireless/AT&T Wireless

Dec 2004 – Feb 2006

- National technical lead, Program and Project Manager for UMTS design project. Managed, trained and led a team of over 50 engineers generating turnkey UMTS network designs for over 30 AT&T markets in all regions. Markets included all of Florida, Puerto Rico, N&S Carolina, Ohio, Colorado, Texas, Louisiana, Minnesota and Kansas/Missouri. Primary customer interface at Regional and National levels. Developed standards, oversaw

Michael Lawton

quality and participated in all customer readouts and design certification presentations. All designs done on-time and of high quality, leading to increased market award in later rounds.

- Fully responsible for P&L, staffing and management of national project, generating over 50% of LCC Americas total revenue and exceptional margin over project duration.
- Successful integration of LCC teams into AT&T process. Worked as a bridge between AT&T market and National teams as well as Site Development/PM vendors to insure project success and team achievement.

Customer: Cingular Wireless/SBC/Cellular One
Boston/New England market

May 1996- Dec 2004

- Responsible for management of 30+ person engineering team providing technical guidance to Cingular Northeast Region Standards team, and New England and NY (upstate and NYC) market design and performance teams (Nokia GSM and Lucent TDMA) as well as market dimensioning, spectrum management, traffic growth projection and VCF analysis. Regional team is responsible for GSM feature trials and performance and design standard setting for all markets in NE US. Acted as primary Cingular market contact for Cingular/Nokia CA activities.
- Oversight of "Project Genesis" Boston Phase 2 (core) GSM rollout. Coordinated and reviewed system design and performance. SCHEMA and SETRAM simulation data review and output validation.
- Led Lucent mm and FLEXENT microcell deployment project for Boston Core, including Real Estate team and deployment team management. Developed streamlined RE process to facilitate rapid site deployment.
- Lead engineer for Cellular One conversion from 6 to 3-sector system configuration and from Motorola to Nokia equipment.
- Lead engineer for design and deployment of Lucent IS-136 product throughout New England market. Developed and utilized drive-data based reuse matrix for TDMA market planning (first known application in US).
- Lead engineer responsible for Boston Core (inside route 128) and all Design functions – New site selection, zoning support, datafill, commissioning data review, frequency planning and interference control. While involved, network grew from 30 sites to over 400. Zoning support and expert testimony in over 100 hearings and litigation engagements.
- Built LCC team from one (self) to over 30 engineers and led/managed largest, most successful and first LCC engineering deployment with AT&T in US.

Customer: France Telecom
Paris, France

Jan 1996 – May 1996

- Developed 1997 System expansion plans for Marseille region of GSM900 system, including development and analysis of drive testing plan to evaluate system quality, frequency planning, and system coverage problem analysis.

Customer: Nextel/FleetCall
Los Angeles, CA and New York, NY

Nov 1993 – Jan 1996

- Engineering project manager for Nextel's initial system (Los Angeles). Worked with Motorola and Nextel Corporate to develop MIRS/iDEN product, from initial RFP development and analysis/evaluation/recommendation to system implementation. Issues addressed included: Handover parameter development, mobile initialization procedure, Fraud prevention methodology, Dispatch functionality, Switch architecture, hardware (end user and site) development/requirements, Radio system design, antenna diversity and combining schemes.
- Developed Nextel/LCC/Site acquisition procedures, standards, and documentation, including system design, site acquisition, frequency planning, allocation and migration, interference testing, Motorola ATP, on-site sweeping and interference analyses, equipment ordering, and colocation.
- LCC Team leader and acting Nextel RF manager for Los Angeles system, from initial design phase and identification of coverage objectives and site budget through 80% system construction. Generated initial

Michael Lawton

system design and configuration, initial frequency plan, and system growth plans for first 3 years of system operation, including budgetary and manpower forecasts. Trained and managed a team of up to 12 engineers to develop the system, including site selection, configuration determination and optimization, Site drive testing, measurement integration and propagation model optimization, antenna location determination including colocation studies with other carriers, Zoning hearing testimony and site acquisition interaction.

- LCC Team Leader and acting Nextel RF Manager for New York Metropolitan system. Primary experience and responsibility same as above. Additionally responsible for day-to-day management of site acquisition and development team for the 5-Borough portion of the system (Manhattan, Bronx, Queens, Staten Island, Brooklyn) including 60+ sites.
- First LCC engineer/manager deployed on first LCC market for Nextel. Responsible for building customer relationship, account management, growth of team. Customer engagement grew from 1 engineer to over 80 engineers.

Customer: Metro Mobile
Phoenix, Arizona

Jan 1993 – Nov 1993

- Sole market engineer for Phoenix system. Developed plan for conversion of system from 6-sector to 3-sector operation. Generated frequency plan configuration changes, and retune plan, as well as handoff topology data, to reduce system blocking and dropped call rates. Participated in international coordination with Mexican authorities and developed guidelines for international spectrum management.

Customer: McCaw Cellular
Portland, OR and Salt Lake City, UT

March 1992-Jan 1993

- Assisted in system equipment changeover from AT&T to Ericsson. Duties included system performance comparisons, handoff algorithm tailoring, and testing plans. Also prepared and presented market expansion plans for corporate design/budgetary review.

Additional LCC tasks:

- Authored internal LCC papers on receive diversity performance, On-site interference and sweeping, colocation between Cellular and iDEN, antenna theory, iDEN traffic theory, and iDEN link budgets.
- Developed and taught classes on iDEN Technology, Link Budgets, IS-136 implementation, and antenna theory.

Moffet, Larson & Johnson, PC., Falls Church, Va.

March 1987-April 1990

Project History Highlights:

- *Fleet Call (now Nextel) Corporate* Developed initial application to the FCC for frequency allocation to create ESMR. Developed methodology to generate spectrum availability plots for Fleet Call channel acquisition team. Supported initial discussions with financial community to obtain venture capital to create Nextel.
- Frequency planning and system design for cellular clients including US Cellular, Buffalo and Rochester Cellular and Contel Cellular.
- Participated in construction of a new AM station array in Chicago.
- Generated FCC applications for AM, FM, TV, Cellular, MMDS, ITFS, and LPTV clients.
- Participated in FCC rulemaking procedures, and filed technical data supporting client's motions before the FCC.