STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:
NEW CINGULAR PCS, LLC (AT&T) APPLICATION FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A TELECOMMUNICATIONS TOWER FACILITY AT 8 BARNES ROAD IN THE TOWN OF CANAAN (FALLS VILLAGE), CONNECTICUT. REOPENING OF THIS DOCKET PURSUANT TO CONNECTICUT GENERAL STATUTES § 4-181a(b) LIMITED TO COUNCIL CONSIDERATION OF CHANGED CONDITIONS, REVISED TOWER SITE LOCATION AND MODIFIED FACILITY

DOCKET NO. 409A

APRIL 23, 2013

AT&T'S RESPONSES TO INTERROGATORIES FROM THE FALLS VILLAGE (Town of Canaan) INLAND WETLANDS and CONSERVATION COMMISSIONS

Q1. Please provide proofs of service of the application for the proposed facility under Docket 409A in compliance with C.G.S. §16-50l(3)(b) documenting service on:
(a) the chief executive officer of the Town of Canaan;
(b) the planning and zoning commission of the Town of Canaan;
(c) the Inland Wetlands and Conservation Commission of the Town of Canaan;
(d) the Attorney General;
(e) each member of the legislature in whose assembly or senate district the facility or any alternative location listed in the application is to be located;
(f) any agency, department or instrumentality of the federal government that has jurisdiction, whether concurrent with the state or otherwise, over any matter that would be affected by such facility;
(g) each state department, agency and commission named in subsection (h) of section 16-50j.

A1. *Docket 409A is a re-opening of Docket 409 and procedurally held pursuant to Section 4-181a(b) of the Connecticut General Statutes (C.G.S.). The notice requirements of C.G.S. Section 4-181a(b) apply to this proceeding. In accordance with C.G.S. Section 4-181a(b), AT&T's motion was served on parties and intervenors in Docket 409. While not required, AT&T also provided copies of the Siting Council's hearing public notice to all abutting property owners and those agencies and entities that might otherwise receive notice in accordance with other statutory provisions. See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 1 for a list of abutters and other agencies provided with a copy of the hearing notice as well as proof of mailing. Notice was also provided by the posting of a sign at the entrance to the site with*

*hearing details. A copy of the sign posting affidavit is included in as an exhibit to AT&T's Pre-Hearing Information, dated April 23, 2013.*

Q2. Please provide a copy of the notice of the application given to the general public pursuant to C.G.S. §16-50l(3)(b) and in accordance with (1) of C.G.S. §16-50l(3)(b) to serve "substantially to inform the public of such application and to afford interested persons sufficient time to prepare for and to be heard at the hearing prescribed in section 16-50m." (CGS 16-50l(3)(b).

A2. *See Response 1 above.*

Q3. Please provide a copy of the notice of the application given to the general public pursuant to C.G.S. §16-50l(3)(b).

A3. *See Response 1 above and the Siting Council Hearing Notice dated March 25, 2013.*

Q4. Please provide a copy of the notice of the application and proofs of service of same for the proposed facility under Docket 409A in compliance with C.G.S. §16-50l(3)(b) that the Applicant has made "each person appearing of record as an owner of property which abuts the proposed primary or alternative sites on which the facility would be located."

A4. *See Response 1 above.*

Q5. Please provide the Falls Village Inland Wetland Commission a copy of New Cingular Wireless PSC, LLC's complete application in accordance with Conn. Gen. Stat. §16-50l.

A5. *See Response 1 above with respect to the scope of the proceeding of Docket 409A. All of AT&T's submissions in Docket 409 and 409A have been served on the Falls Village Inland Wetland Commission, a party in the proceeding.*

Q6. In AT&T's "Application for Certificate of Environmental Compatibility", dated October 18, 2010 (Docket No. 409), detailed plans were submitted for the proposed site access (Section 3: Maps CO1, CO2A, CO2B, CO2C, and CO2D). Plans were also included in this application for proposed drainage strategies in conjunction with the site access (Section 5: Figures 4A,4B, 4C, 4D, 4E, 5A, 5B, 5C, 5D, and 5E). These maps and figures detailed plans for significant amount of cutting and filling along the access drive as well as construction of swales, outfalls and check dams. Much of this activity was proposed to occur on lands outside the 30-foot right of way. "In AT&T's "Responses To Siting Council's Request For Additional Information" (Docket 409, May 20, 2011), AT&T, under "AT&T Supplemental Information, #1", submitted a "Revised Access Drive Design". This revised access drive design, while keeping the 30-foot right of way/access drive virtually the same, eliminates any proposed activity occurring outside the right of way; cut and fill contours stop abruptly at the edge of the right of way.

(a) Please explain how you intend to accomplish construction of the access to the site (including, but not limited to, the necessary filling and drainage measures) solely within the 30' right of way.
(b) How will limiting activity to within the 30-foot right of way alter the road design?
(c) Will the grade be the same?
(d) Describe the nature of the slopes of the final constructed access drive.

A6. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 2 for details regarding the existing and proposed access road for the Modified Site facility and which respond to the above referenced questions.*

Q7. In the "revised access drive design", drainage was not addressed, in contrast to the plan under Docket 409 where extensive water control was proposed.
(a) Please produce drawings showing intended drainage strategy.
(b) Explain absence of swales, outfalls and check dams.

A7. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 3 for a drainage report for the Modified Site facility.*

Q8. Please provide technical details (including, but not limited to, grade changes, cut and fill, drainage measures) for the proposed additional 1,600 + feet of the access drive and the construction of the compound area (clearing, grading and drainage).

A8. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tabs 2 and 3 for details regarding the access road for the Modified Site facility.*

Q9. Has the actual location of the original deeded right of way been field verified? Please provide complete documentation.

A9. *The proposed access drive extends from Barnes Road along an existing access drive and logging trail that is benefited by a recorded perpetual easement and right-of-way for all purposes for which a public highway may be used, including utilities and is shown on the survey included in AT&T's application materials and the drawings included behind Tabs 2 and 3 of AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013.*

Q10. The application proposes to relocate the access drive. Please provide documentation that the property owner on whose land this change is proposed has agreed to said relocation.

A10. *See Response 9 above and note that any relocated portion of the access drive would be located on land owned by the Dorothy A. Forino Estate, AT&T's landlord and for which a lease agreement controls development of the facility.*

Q11. Please provide documentation (including title research) that the current location of the right of way/access drive is the same as the right of way originally deeded in 1964 to Peter J. Prestipino, Anthony J. Forino and Michael Migaldi from Nancy H. Cortesi (Town of Canaan Land Records Vol. 35, Pg. 425).

A11. *This request for information is not relevant to the scope of this proceeding and the Siting Council's jurisdiction.*

Q12. Tab 4, page 4 of the Application under Docket 409, "Tree Inventory" by CHA states that a total of 127 trees will be removed "within the area of the proposed access road and compound which need to be removed for construction of the facility." Please describe how many trees will be removed to accommodate the proposed drainage systems for the new site, and please state the site total tree removal for the entire project, not just the access road and facility construction.

A12. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 2 for a tree inventory noting that 297 trees with a 6" dbh will be removed for construction of the facility including the now longer access road.*

Q13. Tab 5, page 3 of the original Application under Docket 409 refers to "Hydrologic Evaluation." Please provide all hydrologic engineering studies of the changes to the watershed to be caused by the proposed new facility including access road, tower, compound and power shed.
(a) Please provide hydrologic studies based upon the proposed removal of trees (interrogatory 12);
(b) and please provide hydrologic studies based upon removal of the additional trees necessary to accommodate the drainage systems proposed (see interrogatory numbers 6-8, 12).

A13. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 3 for a drainage report for the Modified Site facility. Any additional details regarding the drainage design for the facility would be provided as part of any D&M Plan required by the Siting Council.*

Q14. Please provide topographic map with precise location of proposed tower and access drive.

A14. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 2.*

Q15. Does AT&T intend to utilize the existing tower to the north on Church Hill in the town of North Canaan? If so, how does it propose to achieve connectivity between the proposed new further-east site on Cobble Hill and the Church Hill site in North Canaan?

A15. *The existing tower to the north is the location of the Litchfield County Dispatch tower and AT&T already maintains a facility on that tower (AT&T's Site #1134). See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 8 for a coverage plot showing coverage from this site and AT&T's Section 4-181a(b) Motion dated February 15, 2013, Tab 4 for coverage plots showing existing coverage and proposed coverage from the Modified Site location.*

Q16. AT&T's response to IW/CC Interrogatory Q27 dated February 10, 2011 stated in part, "…post install (sic) monitoring is not required and cannot be legally required," and cited *Cellular Phone Taskforce v. FCC*, 205 F.3d 82 (2nd Cir. 2000) as authority. Please cite the specific provision in this ruling, the TCA, the FCC regulations or other authority that prohibits states or municipalities from requiring wireless operators to demonstrate compliance with FCC RF emissions regulations by monitoring or other means.

A16. *See Docket 409, AT&T's Exhibit 4, dated February 10, 2011, Response 27. See AT&T's power density analysis included in Tab 1 demonstrating compliance with all applicable emissions regulations for the Modified Site facility.*

Q17. AT&T's response to IW/CC Interrogatory Q72 dated February 10, 2011 stated in part, "…details of future co-locators' facilities are not available at this time, a cumulative calculation is not feasible." Given that AT&T has vast experience with co-location facilities throughout the United States and given that AT&T has previously made good-faith estimates of future cumulative power density for facilities designed for co-location (see for example, Special Permit Application for New Cingular Wireless/Florida Tower Partners/ North Atlantic Towers (North Atlantic/AT&T) Wireless Service Facility at 580 Oblong Road, Williamstown, MA dated June 23, 2011), please provide all details of future co-locators' facilities.

A17. *The tower and facility compound have been designed for collocation generally with three additional platforms shown on the tower and equipment space in the compound as shown on the drawings behind Tab 2 of AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013. AT&T generally refers the IW/CC to numerous regulatory filings maintained by the Siting Council related to power density at collocated tower sites and FCC regulations. Details will be provided by any future co-locators if and when they seek to co-locate on the facility as part of regulatory filings required by the Siting Council which include power density information reviewed by the Siting Council for compliance with federal requirements.*

Q18. Please provide estimates/information for the following:
(a) the types of fuel that will be used at the compound and the maximum amount of said fuels that will be stored at the compound at any given time, assuming full capacity;
(b) the on-site fuel capacity of the proposed emergency generator (internal, external, or both);
(c) the run time of the generators with on-site fuel;
(d) the specific manner in which the various fuels will be delivered to the site in view of the steep grade and the potential for extended adverse weather conditions.

A18. *The only fuel stored at the facility will be diesel fuel for the back-up generator. See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Response 13 and the generator specifications annexed hereto in Tab 2 for information regarding the back-up generator which has a storage capacity of approximately 210 gallons and a run time of 48 hours at full demand. A fuel truck will make deliveries and refueling is done approximately every 3 months which can be scheduled in advance.*

Q19. Please describe/detail AT&T's objectives with the new tower other than filling coverage gaps for emergency purposes and providing local cellular phone service.

A19. *AT&T seeks to provide wireless services to the public. Wireless services involve more than emergency and local cellular phone coverage and include among other things access to wireless broadband data throughput for use in a variety of applications.*

Q20. In AT&T's bulk filing (October 2010), a 120' tower was proposed on or near the peak of Cobble Hill. In the subsequent application for Docket 409 (October 18, 2010) the proposed location was moved considerably to the west. It was stated that this "…revised location coupled with an increase in the proposed height of the tower from 120' to 150' AGL would provide improved AT&T service in the area and minimize the need for additional sites in the future." In view of the current proposal to site the tower further east, does AT&T, as was previously suggested, anticipate the need for an additional tower(s) to achieve its desired coverage? Please provide maps detailing location of these additional sites.

A20. *At this time, AT&T does not have any additional search rings for the Falls Village area of the State and has proposed the Modified Site tower facility, and corresponding reduction in coverage, in the context of settlement of pending litigation.*

Q21. Please provide a field-verified viewshed analysis of the two mile study area of the proposed settlement location. Compare and contrast said field-verified viewshed analysis with the "CSC Certificate Location" viewshed analysis. What is the total acreage for the combined seasonal and year-round visibility within the 2 mile study area? How does this compare with a comparable visibility analysis with the Certificate Location? In what areas within the study area will the tower be most visible?

A21. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 4 and Response 4 which includes detailed information responsive to these questions.*

Q22. Why is there a reference to an "Existing Site" on the coverage maps in Exhibit 4 of the February 15, 2013 AT&T motion to the CSC, when no existing site is shown? Please provide a map showing the referenced "Existing Site" and confirm if and how this "Existing Site" plays into AT&T's coverage?

A22. *See Docket 409, AT&T's Exhibit 1, Tab 1 for details of AT&T's existing facilities in this area of the State. The coverage plots in AT&T's Section 4-181a(b) Motion dated February 15, 2013 show coverage from these existing sites. The physical locations of AT&T's existing sites are off the map due to its scale and therefore the existing site locations themselves are not visible on the coverage plot.*

Q23. Section 9.2.6.b of the Town of Canaan Planning and Zoning Regulations requires applicants to make provisions to adjust tower height and visibility if future technologies

make the original height unnecessary. How does AT&T propose to comply with this section?

A23. *Pursuant to C.G.S. Section 16-50x, no local land use, zoning, wetland or other permits are required for AT&T's Modified Site facility. Thus, compliance with Section 9.2.6.b of the Town of Canaan Planning and Zoning Regulations is not required.*

Q24. Please describe and provide a map showing the outer limits of the projected maximum reliable coverage of operating frequency 880 MHz from the proposed site.

A24. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Response 17 indicating that the frequency for the coverage plots is 850 MHz cellular frequency.*

Q25. Please describe and provide a map showing the outer limits of the projected maximum reliable coverage of operating frequency 1900 MHz from the proposed site.

A25. *See Response 24 above.*

Q26. Please provide Cingular Wireless's plans for after-built monitoring for compliance with projected power densities throughout the life of the facility.

A26. *See Docket 409, AT&T's Exhibit 4, dated February 10, 2011, Response 27.*

Q27. Please describe (a) any site visit made by the SHPO or officer thereof.

A27. *A visit by the SHPO is not expected given the June 30, 2011 SHPO no effect determination for the CSC Certificate Location (see Docket 409 AT&T's Exhibit 10) and the fact that the Modified Site location is less visible than the CSC Certificate Location and will not be visible from the South Canaan Meeting House.*

Q28. At page 6 of the narrative, the application states "The company's member corporation is licensed by the Federal Communications Commission ("FCC") to construct and operate a personal wireless services system, which has been interpreted as a 'cellular system', within the meaning of CGS Section 16-50i(a)(6)."
(a) Please describe all services that the proposed facility will support.
(b) Please list all communities the proposed signals will serve.
(c) Please detail/explain why 9-1-1 services cannot be accomplished through booster antennas.
(d) Please detail/explain what determines that high-tension power line tower supports running from southeast to west to north will not serve the proposed coverage.

A28. *See AT&T's Section 4-181a(b) Motion dated February 15, 2013 and Docket 409, AT&T's Exhibit 4 dated February 10, 2011, Response 71.*

Q29. Please explain (a) what is meant by "worst case calculation of power density" (Tab 4, at E) Application Dkt 409? and (b) how is that different from power density output with four co-located carriers on the proposed tower when the tower is operational? (c) what provision is there for independent after-built monitoring of the power output by the applicant?

A29. *See the power density report for the Modified Site facility included in Tab1 for an explanation of the worst case calculation. Any future co-locators are required to demonstrate compliance with the applicable power density requirements. See Response 26 above.*

Q30. Please describe the broadband capabilities of the proposed facility and its projected reliable coverage area.

A30. *AT&T's proposed Modified Site facility will include LTE (long term evolution) services, which is the highest speed broadband data service provided by AT&T at this time. See AT&T's Section 4-181a(b) Motion dated February 15, 2013, Tab 4 for coverage plots.*

Q31. Please describe and provide a map of the complete existing reliable coverage area from AT&T Site 1134 in relation to (a) the 880 MHz signal; and (b) the 1900 MHz signal.

A31. *Coverage from AT&T's existing Site 1134 located at the Litchfield County Dispatch tower is shown on all coverage plots, see AT&T's Section 4-181a(b) Motion dated February 15, 2013, Tab 4.*

Q32. Please describe the steps taken by New Cingular to ascertain the presence of State and Federal Endangered Species within the effective proposed coverage area.

A32. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 5 and Response 5 and Docket 409 AT&T's Exhibit 1, Tab 7; AT&T's Exhibit 3, Attachment E and AT&T's Exhibit 8, Tab 3. The proposed coverage area is not the relevant species review area. The appropriate review area is the area of the Modified Site facility and Cobble Hill generally.*

Q33. Please provide all documentation of Cingular Wireless's procedure for determining whether a Section 7 consultation is needed and how to avoid or minimize effects for specific projects.

A33. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 5 and Response 5. Moreover, given that no federally listed species are known on the host property or are expected to be impacted by the Modified Site facility, Section 7 consultation is not warranted.*

Q34. Please list all alternatives considered by the applicant in order to comply with the Siting Council's mandate to encourage co-location on existing towers, to avoid tower proliferation, in keeping with the Town's Plan of Conservation and Development.

A34. *The record in the Docket 409 proceeding, which record is administratively noticed in this proceeding, clearly demonstrates that there are no existing tower locations for providing service in this area of Falls Village, a finding previously made by the Siting Council in its original decision in Docket 409.*

Q35. NOAA Satellite and Information Service/National Climatic Data Center (Annual Precipitation Connecticut) has projected an increase in the intensity of precipitation events, particularly in the Northeast. In light of the steep grade of the road and potential for erosion, what additional provisions have you made for monitoring the access drive during these intense precipitation events to guarantee uninterrupted access on the drive and to the compound area?

A35. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 3 for drainage calculations in compliance with the ConnDOT requirements of safely conveying storm peak flows for roads. Long term use of the driveway will be limited involving principally periodic maintenance visits and fuel deliveries to the tower site. Ongoing maintenance of the site including the access driveway will be overseen by the Siting Council as part of any Certificate issued.*

Q36. Please describe extent and nature of any land clearing/canopy opening/ tree removal for both additional access drive footage and tower site/compound area.

A36. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 2 for tree removal information. The existing access drive occupies approximately 1.45 acres of land on the approximately 70 acre site. The proposed access drive, regarding, drainage improvements and equipment compound area for the Modified Site location will result in the dedication of an additional approximately 1.69 acres of land for joint access to the 70 acre site and development of the tower facility.*

Q37. Please describe any investigations regarding the occurrence of any wetlands/ watercourses/seeps/springs/vernal pools at or below the extended access road to the proposed tower site as well as in and around the compound area. In the absence of any submitted topographic map showing the proposed tower site location, please describe the watershed in which the proposed activity is located. How does this watershed relate to Wangum Brook, Wangum Brook Valley and Robbins Swamp? What erosion control measures are you proposing to avoid any potential negative impact to the watershed and its associated wetlands and watercourses during and subsequent to construction of the access drive?

A37. *On March 29, 2013 and April 21, 2013, Dean Gustafson, a Connecticut registered professional soil scientist, conducted inspections of the subject property to determine the presence or absence of wetlands and watercourses associated with the extended access and proposed Modified Site facility. A Wetland Inspection Report is included in Tab 3. A topographic map depicting the proposed tower site location and surrounding resources is included in the report. No on-site wetlands were documented.*

*Provided the project is approved, a comprehensive soil erosion and sediment control plan would be developed as part of the Connecticut Siting Council's D&M Plan process. The project engineer, CHA of Rocky Hill, Connecticut, has incorporated designed elements into the facility that meet applicable stormwater runoff requirements. See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 3 for drainage design. These features, combined with proper erosion control measures installed and maintained in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control (DEEP Bulletin 34), would result in no direct or indirect impacts to wetlands or watercourses occurring during and subsequent to construction.*

Q38. Has an inventory of flora and fauna in the vicinity of the additional access drive and new tower site been conducted? Please provide full inventory and name and contact information for those who performed it.

A38. *Yes. See the Flora Survey Report included in Tab 4.*

Q39. If so, please describe the nature of the inventory and specific dates/time of year it was conducted.

A39. *See the Flora Survey Report included in Tab 4.*

Q40. Please provide a species list resulting from the inventory.

A40. *See the Flora Survey Report included in Tab 4.*

Q41. Please detail all studies completed by AT&T of the proposed Facility to comply with Section 9.2 of the Zoning Regulations of the Town of Canaan as those studies relate to:
(a) preserving environmentally sensitive areas;
(b) preserving unique wildlife habitats;
(c) preserving wetlands;
(d) preserving historic and archaeological resources.

A41. *Pursuant to C.G.S. Section 16-50x, no local land use, zoning, wetland or other permits are required for AT&T's Modified Site facility. Thus, compliance with Section 9.2 of the Town of Canaan Planning and Zoning Regulations is not required. The IW/CC is generally referred to all of the studies completed by AT&T is it relates to environmental resources that were studied and included in Docket 409 and 409A materials.*

Q42. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to the Wangum Lake Brook.

A42. *The closest point of the Modified Site location compound area to Wangum Lake Brook is approximately 1,940 feet and the closest point of the access drive for the Modified Site location to Wangum Lake Brook is approximately 1,370 feet.*

Q43. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to Robbins Swamp.

A43. *The closest point of the Modified Site location compound area to Robbins Swamp is approximately 5,000 feet and the closest point of the access drive for the Modified Site location to Robbins Swamp is approximately 800 feet.*

Q44. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to the closest wetland other than the foregoing (interrogatories 4 and 42) and provide a description of same.

A44. *The distance from the Modified Site location equipment compound area and access drive to the nearest wetland is approximately 500 feet to the east-southeast. For a description of the identified resources, please see the Wetlands Inspection Report in Tab 3.*

Q45. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any amphibian habitat, and provide a description and location of the habitat(s).

A45. *The distance from the Modified Site location equipment compound area and access drive to the nearest wetland is approximately 500 feet to the east-southeast. For a description of the identified resources, please see the Wetlands Inspection Report in Tab 3.*

Q46. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any potential bog turtle habitat, and provide a description and location of the habitat(s).

A46. *See Docket 409 AT&T's Exhibit 6, Response 42 dated February 11, 2011.*

Q47. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any Eastern box turtle habitat, and provide a description and location of the habitat(s).

A47. *See Docket 409 AT&T's Exhibit 6, Response 43 dated February 11, 2011.*

Q48. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any timber rattlesnake habitat, and provide a description and location of the habitat(s).

A48. *See Docket 409 AT&T's Exhibit 6, Response 44 dated February 11, 2011.*

Q49. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any northern metalmark butterfly habitat, and provide a description and location of the habitat(s).

A49. *See Docket 409 AT&T's Exhibit 6, Response 45 dated February 11, 2011.*

Q50. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any small whorl pogonia habitat, and provide a description and location of the habitat(s).

A50. *See Docket 409 AT&T's Exhibit 6, Response 46 dated February 11, 2011.*

Q51. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any Blue-spotted salamander habitat, and provide a description and location of the habitat(s).

A51. *See Docket 409 AT&T's Exhibit 6, Response 47 dated February 11, 2011.*

Q52. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any Northern spring salamander habitat, and provide a description and location of the habitat(s).

A52. *See Docket 409 AT&T's Exhibit 6, Response 48 dated February 11, 2011.*

Q53. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any Northern slimy salamander habitat, and provide a description and location of the habitat(s).

A53. *See Docket 409 AT&T's Exhibit 6, Response 49 dated February 11, 2011.*

Q54. Please provide (in feet) the distances from closest point of (a) the compound area; and (b) the access drive, to any five-lined skink habitat, and provide a description and location of habitat(s).

A54. *According to the Connecticut Department of Energy and Environmental Protection (DEEP), skink populations are found in four widely separated areas in western Connecticut. Five-lined skinks have been documented on bluffs bordering the Housatonic River in southwestern Litchfield County; on ledges bordering the Housatonic River in northwestern New Haven County and the Naugatuck River; and along ledges in southwestern Hartford County. The common five-lined skink is a state-threatened species in Connecticut. The Housatonic River is located over two miles west of the project area.*

Q55. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any American bittern habitat, and provide a description and location of the habitat(s).

A55. *See Docket 409 AT&T's Exhibit 6, Response 50 dated February 11, 2011.*

Q56. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any Bald eagle habitat, and provide a description and location of the habitat(s).

A56. *See Docket 409 AT&T's Exhibit 6, Response 51 dated February 11, 2011.*

Q57. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any whippoorwill habitat, and provide a description and location of the habitat(s).

A57. *See Docket 409 AT&T's Exhibit 6, Response 53 dated February 11, 2011.*

Q58. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any golden eagle habitat, and provide a description and location of the habitat(s).

A58. *See Docket 409 AT&T's Exhibit 6, Response 54 dated February 11, 2011.*

Q59. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any ruffed grouse habitat, and provide a description and location of the habitat(s).

A59. *See Docket 409 AT&T's Exhibit 6, Response 55 dated February 11, 2011.*

Q60. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any yellow ladies slipper habitat, and provide a description and location of the habitat(s).

A60. *See Docket 409 AT&T's Exhibit 6, Response 56 dated February 11, 2011.*

Q61. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any showy ladies slipper habitat, and provide a description and location of the habitat(s).

A61. *See Docket 409 AT&T's Exhibit 6, Response 57 dated February 11, 2011.*

Q62. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any northern leopard frog habitat, and provide a description and location of the habitat(s).

A62. *See Docket 409 AT&T's Exhibit 6, Response 58 dated February 11, 2011.*

Q63. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any Scotts Spleenwort habitat, and provide a description and location of the habitat(s).

A63. *Small boulders, including glacial erratic, of limestone are present on Cobble Hill, particularly along the northern slope, in the general area of the Modified Site location extended access and equipment compound. No formal inventory was conducted of the*

*specific locations of glacial erratics relative to the Modified Site location and its access however, it is similar in nature to that of the CSC Certificate Location. Scott's spleenwort is not a federal- or state-listed rare species in Connecticut.*

Q64. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any "Limestone Erratics" – limestone boulders supporting sensitive ferns, including the "walking fern" and "Scotts Spleenwort" specific to limestone habitats, and provide a description and location of the habitat(s).

A64. *Small boulders, including glacial erratic, of limestone are present on Cobble Hill, particularly along the northern slope, in the general area of the Modified Site location. The species listed are not federal- or state-listed rare species in Connecticut. No formal inventory was conducted of the specific locations of glacial erratics relative to the Modified Site location and its access however, it is similar in nature to that of the CSC Certificate Location.*

Q65. Please provide (in feet) the distances from the closest points of (a) the compound area; and (b) the access drive, to any Burbot habitat, and provide a description and location of the habitat(s).

A65. *See Docket 409 AT&T's Exhibit 6, Response 52 dated February 11, 2011.*

Q66. Please identify and provide copies of any submissions by the applicant to the federal communications Commission pursuant to 47 C.F.R. §1.1307(3) relating to the subjects of interrogatories 37 to 64.

A66. *See Responses 37 to 64 above.*

Q67. Please describe the boundaries of the "site" submitted to (a) the U.S. Fish and Wildlife Service, and (b) Connecticut D.E.P. for determination of the extant populations of any Federal or State endangered, threatened or special concern species relating to this application.

A67. *See Docket 409 AT&T's Exhibit 6, Response 64 dated February 11, 2011.*

Q68. Please identify all endangered, threatened or special concern species located anywhere in the reliable coverage area for the proposed facility, describing the location of their habitats in relation thereto.

A68. *See Response 32 above regarding the appropriate review area.*

Q69. Please provide the date and title of the most recent field study of state endangered, threatened or special concern species conducted by the Connecticut DEP relied upon in any part of the application.

A69. *No information regarding on-site field studies is provided by CTDEEP. The CTDEEP compiles and maintains data that is depicted on its Natural Diversity Data Base (NDDB) maps. The data represent approximate locations of endangered, threatened and special concern species and significant natural communities in Connecticut. The locations of species and natural communities depicted on the maps are based on data collected over the years by DEEP staff, scientists, conservation groups, and landowners. In some cases an occurrence represents a location derived from literature, museum records and specimens. See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 5 and Response 5 showing the Modified Site location outside of any shaded areas on the NDDB Map dated December 2012.*

Q70. Please provide the date and title of the most recent field study of federally listed, threatened or endangered species conducted by any Federal agency relied upon in any part of the application.

A70. *AT&T is not aware of recent field studies conducted by any federal agency. According to the U.S. Fish & Wildlife Service, two federally listed endangered and/or threatened species are located in Litchfield County (Small whorled Pogonia and Bog Turtle); neither specifies is listed as occurring in Falls Village. See the listing provided in Tab 5 and available at http://www.fws.gov/newengland/pdfs/CT%20species%20by%20town.pdf. This agency has determined that individual project review for certain types of activities associated with telecommunication towers is not required and that applicants may confirm that no species and/or suitable habitat are known to occur at a specific project location. Please see U.S. Fish & Wildlife tower policy letter dated January 7, 2013 provided in Tab 6.*

Q71. Did the Applicant or any consultant on its behalf meet or communicate with any representative of the following agencies and entities concerning the issue of "critical habitat" relating to the new site:

(a) United States Fish and Wildlife Service
(b) Connecticut Department of Environmental Protection
(c) The Nature Conservancy
(d) U.S. Environmental Protection Agency

If yes, please provide all inquiries, responses and materials obtained from each agency, especially as to each agency's definition of "critical habitat," as referred to on NEPA Screen Map, Tab 7, page 5 of the Application under Docket 409.

A71. *See Docket 409A AT&T's Responses to Siting Council Interrogatories, dated April 15, 2013, Tab 5 and Response 5.*

CERTIFICATE OF SERVICE

I hereby certify that on this day, a copy of the foregoing was sent electronically and by overnight delivery to the Connecticut Siting Council with copy to:

Ellery W. Sinclair
Town of Canaan (Falls Village)
201 Under Mountain Road
Falls Village, CT 06031
(860) 824-7454
wml61@comcast.net

Patty & Guy Rovezzi
36 Barnes Road
Falls Village, CT 06031
(860) 824-0358
rovezzi2005@yahoo.com

Frederick J. Laser
Town of Canaan
Planning and Zoning Commission
Town Hall
108 Main Street
P.O. Box 47
Falls Village, CT 06031
(860) 824-0707
zonelaser@aol.com

Marc Rosen and Susan Pinsky
6 Barnes Road
Falls Village, CT 06031
860-824-5367
pinskyrosen@me.com

Dated: April 23, 2013

Lucia Chiocchio

Lucia Chiocchio

cc: Michele Briggs, AT&T
David Vivian, SAI
Anthony Wells, C Squared
Dean Gustafson, APT
Michael Libertine, APT
Peter Perkins, CHA
Paul Lusitani, CHA
Christopher B. Fisher, Esq.

Tony Wells
C Squared Systems
65 Dartmouth Drive
Auburn, NH 03032
603-644-2800
Tony.Wells@csquaredsystems.com

C Squared Systems, LLC

April 16, 2013

Connecticut Siting Council

Subject: New Cingular Wireless, Canaan, CT

Dear Connecticut Siting Council:

C Squared Systems has been retained by New Cingular Wireless to investigate the RF Power Density at the proposed site located at 8 Barnes Road in Canaan, CT.

Calculations were done in accordance with FCC OET Bulletin 65. These worst-case calculations assume that all transmitters are simultaneously operating at full power and pointing directly at the ground. The calculation point is 6 feet above ground level to model the RF power density at the head of a person standing at the base of the tower.

| Location | Carrier | Antenna Centerline Height Above Ground Level (Ft.) | Operating Frequency (MHz) | Number of Trans. | Effective Radiated Power (ERP) Per Transmitter (Watts) | Power Density ($mw/cm^2$) | Limit | % FCC MPE Limit General Public/ Uncontrolled |
|---|---|---|---|---|---|---|---|---|
| Ground Level | AT&T UMTS | 120 | 880 | 1 | 500 | 0.0138 | 0.5867 | 2.36% |
| | AT&T UMTS | 120 | 1900 | 1 | 500 | 0.0138 | 1.0000 | 1.38% |
| | AT&T LTE | 120 | 734 | 1 | 500 | 0.0138 | 0.4893 | 2.83% |
| | AT&T GSM | 120 | 880 | 3 | 296 | 0.0246 | 0.5867 | 4.19% |
| | AT&T GSM | 120 | 1900 | 1 | 427 | 0.0118 | 1.0000 | 1.18% |
| | | | | | | | **Total** | **11.94%** |

**Summary**: Under worst-case assumptions, the RF Power Density at the proposed site located at 8 Barnes Road in Canaan, CT will not exceed 11.94% of the FCC MPE limit for General Public/Uncontrolled Environments.

Sincerely,

anthony wells

Anthony Wells
Managing Partner

# SD050

**CUSTOM MODEL**

GENERAC® | INDUSTRIAL POWER

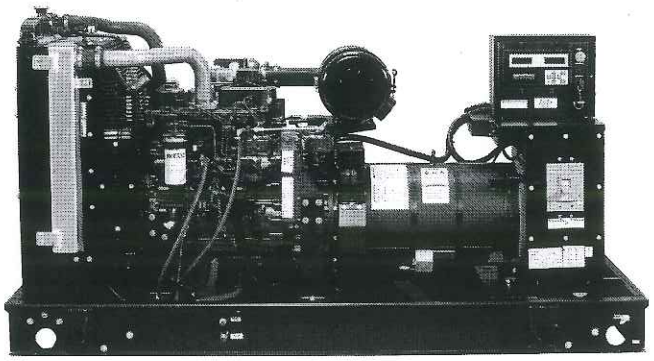
## Industrial Diesel Generator Set

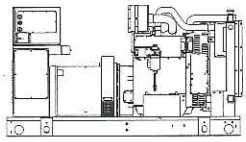
**EPA Emissions Certification: Tier III**

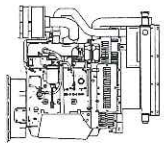
**50 kW Diesel**

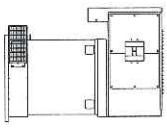


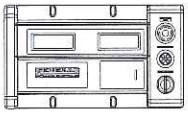
Standby Power Rating
**50KW 60 Hz**











| features | benefits |
|---|---|
| **Generator Set** | |
| • PROTOTYPE & TORSIONALLY TESTED | ▶ PROVIDES A PROVEN UNIT |
| • UL2200 TESTED | ▶ ENSURES A QUALITY PRODUCT |
| • RHINOCOAT PAINT SYSTEM | ▶ IMPROVES RESISTANCE TO ELEMENTS |
| • SOUND LEVEL 2 ENCLOSURE | ▶ 71dbA @ 7 METERS (23FT) |
| **Engine** | |
| • EPA TIER CERTIFIED | ▶ ENVIRONMENTALLY FRIENDLY |
| • INDUSTRIAL TESTED, GENERAC APPROVED | ▶ ENSURES INDUSTRIAL STANDARDS |
| • POWER-MATCHED OUTPUT | ▶ ENGINEERED FOR PERFORMANCE |
| • INDUSTRIAL GRADE | ▶ IMPROVES LONGEVITY AND RELIABILITY |
| **Alternator** | |
| • TWO-THIRDS PITCH | ▶ ELIMINATES HARMFUL 3RD HARMONIC |
| • LAYER WOUND ROTOR & STATOR | ▶ IMPROVES COOLING |
| • CLASS H MATERIALS | ▶ HEAT TOLERANT DESIGN |
| • DIGITAL 3-PHASE VOLTAGE CONTROL | ▶ FAST AND ACCURATE RESPONSE |
| **Controls** | |
| • ENCAPSULATED BOARD W/ SEALED HARNESS | ▶ EASY, AFFORDABLE REPLACEMENT |
| • 4-20mA VOLTAGE-TO-CURRENT SENSORS | ▶ NOISE RESISTANT 24/7 MONITORING |
| • SURFACE-MOUNT TECHNOLOGY | ▶ PROVIDES VIBRATION RESISTANCE |
| • ADVANCED DIAGNOSTICS & COMMUNICATIONS | ▶ HARDENED RELIABILITY |

primary codes and standards

NEMA · cULus LISTED · NFPA · ASTM INTERNATIONAL · ISO

# SD050

## application and engineering data

### ENGINE SPECIFICATIONS

**General**

| | | |
|---|---|---|
| Make | Iveco / FPT | |
| EPA Emissions Compliance | Tier III | |
| EPA Emissions Reference | See Emissions Data Sheet | |
| Cylinder # | 4 | |
| Type | Diesel | |
| Displacement - L (cu. in.) | 4.5 | (274) |
| Bore - mm (in.) | 105 | (4.1) |
| Stroke - mm (in.) | 132 | (5.2) |
| Compression Ratio | 17.5:1 | |
| Intake Air Method | Turbocharged | |
| Cylinder Head Type | 2 Valve | |
| Piston Type | Aluminum | |
| Crankshaft Type | Forged Steel | |
| Engine Block Type | Cast Iron / Wet Sleeve | |

**Engine Governing**

| | |
|---|---|
| Governor | Electronic Isochronous |
| Frequency Regulation (Steady State) | +/- 0.25% |

**Lubrication System**

| | | |
|---|---|---|
| Oil Pump Type | Gear | |
| Oil Filter Type | Full Flow | |
| Crankcase Capacity - L (gal)(qts) | 13.6 (3.6) | (14.4) |

**Cooling System**

| | |
|---|---|
| Cooling System Type | Closed |
| Water Pump | Belt Driven Centrifugal |
| Fan Type | Pusher |
| Fan Blade Number | 2538 (10) |
| Fan Diameter (in.) | 26 |
| Coolant Heater Wattage | 1500 |
| Coolant Heater Standard Voltage | 120 |

**Fuel System**

| | |
|---|---|
| Fuel Type | Ultra Low Sulfur Diesel Fuel |
| Fuel Specifications | ASTM |
| Fuel Filtering (microns) | 5 |
| Fuel Inject Pump Make | Standyne |
| Fuel Pump Type | Engine Driven Gear |
| Injector Type | Mechanical |
| Engine Type | Direct Injection |
| Fuel Supply Line - mm (in.) | 1/4 inch Npt |
| Fuel Return Line - mm (in.) | 1/4 inch Npt |

**Engine Electrical System**

| | |
|---|---|
| System Voltage | 12VDC |
| Battery Charging Alternator | 90 Amp |
| Battery Size (at 0 oC) | Optima Redtop |
| Battery Group | 34 |
| Battery Voltage | 12VC |
| Ground Polarity | Negative |

### ALTERNATOR SPECIFICATIONS

| | |
|---|---|
| Standard Model | 390 |
| Poles | 4 |
| Field Type | Revolving |
| Insulation Class - Rotor | H |
| Insulation Class - Stator | H |
| Total Harmonic Distortion | < 3.5% |
| Telephone Interference Factor (TIF) | < 50 |
| Standard Excitation | PMG |
| Bearings | Single Sealed Cartridge |
| Coupling | Direct, Flexible Disc |
| Load Capacity - Standby | 100% |
| Load Capacity - Prime | 100% |
| Prototype Short Circuit Test | Y |

| | |
|---|---|
| Voltage Regulator Type | Digital |
| Number of Sensed Phases | All |
| Regulation Accuracy (Steady State) | +/- 0.25% |

### CODES AND STANDARDS COMPLIANCE (WHERE APPLICABLE)

NFPA 99
NFPA 110
ISO 8528-5
ISO 1708A.5
ISO 3046
BS5514
SAE J1349
DIN6271
IEEE C62.41 TESTING
NEMA ICS 1

Rating Definitions:
Standby – Applicable for a varying emergency load for the duration of a utility power outage with no overload capability. (Max. load factor = 70%)
Prime – Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. (Max. load factor = 80%) A 10% overload capacity is available for 1 out of every 12 hours.

# SD050

# operating data (60Hz)

## POWER RATINGS (kW)

| | STANDBY | | |
|---|---|---|---|
| Single-Phase 120/240VAC @1.0pf | 50 | Amps: | 208 |
| Three-Phase 120/208VAC @0.8pf | - | Amps: | - |
| Three-Phase 120/240VAC @0.8pf | - | Amps: | - |
| Three-Phase 277/480VAC @0.8pf | - | Amps: | - |
| Three-Phase 346/600VAC @0.8pf | - | Amps: | - |

NOTE: Generator output limited to 200A.

## STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

| | | 480VAC | | | | | | 208/240VAC | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alternator* | kW | 10% | 15% | 20% | 25% | 30% | 35% | 10% | 15% | 20% | 25% | 30% | 35% |
| Standard | 50 | - | - | - | - | - | - | 26 | 39 | 52 | 65 | 77 | 90 |
| Upsize 1 | | - | - | - | - | - | - | - | - | - | - | - | - |
| Upsize 2 | | - | - | - | - | - | - | - | - | - | - | - | - |

*All Generac industrial alternators utilize Class H insulation materials. Standard alternator provides less than or equal to Class B temperature rise. Upsize 1 provides less than or equal to Class B temperature rise. Upsize 2 provides less than or equal

## FUEL

Fuel Consumption Rates

Fuel Pump Lift - in (m)

36(.9)

| STANDBY | | |
|---|---|---|
| Percent Load | gph | lph |
| 25% | 1.52 | 5.75 |
| 50% | 2.33 | 8.82 |
| 75% | 3.08 | 11.65 |
| 100% | 4.15 | 15.71 |

## COOLING

Coolant System Capacity - Gal (L)

4.5 (17.44)

Maximum Radiator Backpressure

1.5" $H_2O$ Column

| | | STANDBY |
|---|---|---|
| Coolant Flow per Minute | gpm (lpm) | 32.7(123.8) |
| Heat rejection to Coolant | BTU/min | 123,000 |
| Inlet Air | cfm (m3/min) | 6,360 (180.0) |
| Max. Operating Radiator Air Temp | F° (C°) | 122(50) |
| Max. Operating Ambient Temperature | F° (C°) | 122(50) |

## COMBUSTION AIR REQUIREMENTS

| | | STANDBY | |
|---|---|---|---|
| Intake Flow at Rated Power | cfm (m3/min) | 247 | (7.00) |

## EXHAUST

Exhaust Outlet Size (Open Set)

3.0"

Maximum Backpressure (Post-Silencer)

1.5" Hg

| | | STANDBY |
|---|---|---|
| Exhaust Flow (Rated Output) | cfm (m3/hr) | 534(906.7) |
| Maximum Backpressure | inHg (Kpa) | 1.5 (5.1) |
| Exhaust Temp (Rated Output) | °F (°C) | 930(498.8) |

## ENGINE

| | | STANDBY |
|---|---|---|
| Rated Engine Speed | rpm | 1800 |
| Horsepower at Rated kW | hp | 93 |
| Temperature Deration | | Consult Factory |
| Altitude Deration | | Consult Factory |

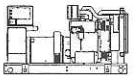
* CA units include aftertreatment

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

# SD050

# standard features and options

## GENERATOR SET



| | |
|---|---|
| ● Genset Vibration Isolation | Std |
| ● Factory Testing | Std |
| ● Extended warranty | Std |
| ● Padlockable Doors | Std |
| ● Steel Enclosure (Enclosed Models) | Std |
| ○ Remote Emergency Shutdown | Opt |

## ENGINE SYSTEM

**General**

| | |
|---|---|
| ● Oil Drain Extension | Std |
| ● Air Cleaner | Std |
| ● Industrial Exhaust Silencer (Open Sets, ship loose) | Std |
| ● Critical Exhaust Silencer (Enclosed Sets) | Std |
| ● Stainless steel flexible exhaust connection | Std |

**Fuel System**

| | |
|---|---|
| ● Primary Fuel Filter with Water Separator | Std |
| ● Flexible Fuel Lines | Std |
| ● UL142 Fuel Tank, 48 Hr Runtime | Std |
| ● 2 Gal Overflow Containment with Alarm | Std |

**Cooling System**

| | |
|---|---|
| ● 120VAC Coolant Heater (3-wire connection cord) | Std |
| ● 50%/50% Coolant | Std |
| ● Level 1 Guarding (Open Sets) | Std |
| ● Closed Coolant Recovery System | Std |
| ● UV/Ozone resistant hoses | Std |
| ● Factory-Installed Radiator | Std |
| ● Radiator Drain Extension | Std |
| ● Fan guard | Std |
| ● Radiator duct adapter (Open Sets) | Std |
| ● | |

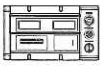
**Engine Electrical System**

| | |
|---|---|
| ● Battery charging alternator | Std |
| ● Battery cables | Std |
| ● Battery tray | Std |
| ● 75W 120VAC Battery heater | Std |
| ● Solenoid activated starter motor | Std |
| ● 10A UL float/equalize battery charger | Std |
| ● Weather Resistant electrical connections | Std |
| ● Duplex GFCI Convenience Outlet | Std |

## ALTERNATOR SYSTEM

| | |
|---|---|
| ● UL2200 GENprotect™ | Std |
| ● 100% Rated 200A Main Line Circuit Breaker | Std |

## CONTROL SYSTEM



**Control Panel**

| | |
|---|---|
| ● Digital H Control Panel - Dual 4x20 Display | Std |
| ● Programmable Crank Limiter | Std |
| ● 7-Day Programmable Exerciser (requires H-Transfer Switch) | Std |
| ● Special Applications Programmable PLC | Std |
| ● RS-232 | Std |
| ● RS-485 | Std |
| ● All-Phase Sensing DVR | Std |
| ● Full System Status | Std |
| ● Utility Monitoring (Req. H-Transfer Switch) | Std |
| ● 2-Wire Start Compatible | Std |
| ● Power Output (kW) | Std |
| ● Power Factor | Std |
| ● Reactive Power | Std |
| ● All phase AC Voltage | Std |
| ● All phase Currents | Std |
| ● Oil Pressure | Std |
| ● Coolant Temperature | Std |
| ● Coolant Level | Std |
| ● Low Fuel Pressure Indication | Std |
| ● Engine Speed | Std |
| ● Battery Voltage | Std |
| ● Frequency | Std |
| ● Date/Time Fault History (Event Log) | Std |
| ● UL2200 GENprotect™ | Std |
| ○ Low-Speed Exercise | Opt |
| ● Isochronous Governor Control | Std |
| ● -40deg C - 70deg C Operation | Std |
| ● Weather Resistant Electrical Connections | Std |
| ● Audible Alarms and Shutdowns | Std |
| ● Not in Auto (Flashing Light) | Std |
| ● On/Off/Manual Switch | Std |
| ● E-Stop (Red Mushroom-Type) | Std |
| ○ Remote E-Stop (Break Glass-Type, Surface Mount) | - |
| ○ Remote E-Stop (Red Mushroom-Type, Surface Mount) | - |
| ○ Remote E-Stop (Red Mushroom-Type, Flush Mount) | - |
| ● NFPA 110 Level I and II (Programmable) | Std |
| ● Remote Communication - RS232 | Std |

**Alarms (Programmable Tolerances, Pre-Alarms and Shutdowns)**

| | |
|---|---|
| ● Low Fuel | Std |
| ● Oil Pressure (Pre-programmed Low Pressure Shutdown) | Std |
| ● Coolant Temperature (Pre-programmed High Temp Shutdo | Std |
| ● Coolant Level (Pre-programmed Low Level Shutdown) | Std |
| ● Engine Speed (Pre-programmed Overspeed Shutdown) | Std |
| ● Voltage (Pre-programmed Overvoltage Shutdown) | Std |
| ● Battery Voltage | Std |

Other Options

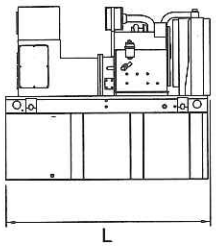
● Single Side Service

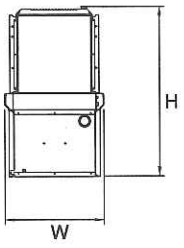
●

○

# SD050

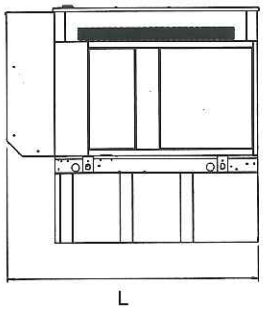
## dimensions, weights and sound levels

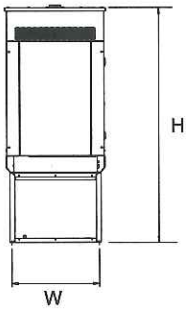



**OPEN SET**

| | TANK SIZE | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | RUNTIME HOURS | CAPACITY (GAL) | TANK VOLUME | L | W | H | WT | dBA* |
| ○ | - | - | - | - | - | - | - | |
| ○ | - | - | - | - | - | - | - | |
| ○ | - | - | - | - | - | - | - | |
| ○ | - | - | - | - | - | - | - | 84 |
| ○ | - | - | - | - | - | - | - | |
| ● | 48 | 210 | 210 | 76 | 38 | 87 | 3400 | |
| ○ | - | - | - | - | - | - | - | |
| ○ | - | - | - | - | - | - | - | |




**LEVEL 2 SOUND ENCLOSURE**

| | TANK SIZE | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | RUNTIME HOURS | CAPACITY (GAL) | TANK VOLUME | L | W | H | WT | dBA* |
| ○ | - | - | - | - | - | - | - | |
| ○ | - | - | - | - | - | - | - | |
| ○ | - | - | - | - | - | - | - | |
| ○ | - | - | - | - | - | - | - | 71 |
| ○ | - | - | - | - | - | - | - | |
| ● | 48 | 210 | 210 | 94.8 | 38 | 99 | 3935 | |
| ○ | - | - | - | - | - | - | - | |
| ○ | - | - | - | - | - | - | - | |

LxWxH= 7'11"x3'2"x8'3" Weight 3935lbs

*Required gallons based on 100% of standby rating. Weights consider steel enclosure and are without fuel in tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

| YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER |
|---|
| |

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

# WETLAND INSPECTION REPORT

ALL-POINTS TECHNOLOGY CORPORATION

**April 22, 2013**

**SAI Communications**
**500 Enterprise Drive**
**Rocky Hill, CT 06067**

**APT Project No.: CT193970**

**Attn: David Vivian**

**Re: Wetland Inspection**
**Proposed AT&T Modified Location**
**8 Barnes Road**
**Falls Village, Connecticut**

Dear Mr. Vivian,

At your request, Dean Gustafson, a Connecticut registered professional soil scientist with All-Points Technology Corp., P.C. ("APT") conducted inspections of 8 Barnes Road, Falls Village, Connecticut ("Subject Property") on March 29 and April 21, 2013 to determine the presence or absence of wetlands and watercourses within 200 feet of the proposed development ("Study Area"), including the proposed access and the newly proposed tower location (the "Modified Location"). . Please refer to the enclosed Wetland Investigation Map for the approximate location of the Study Area. The delineation methodology followed was consistent with both the Connecticut Inland Wetlands and Watercourses Act (IWWA) and the 1987 Corps of Engineers Wetland Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0 (January 2012).

No wetlands or watercourses were identified within the Study Area. The nearest wetland/watercourse resource to the proposed development project is located approximately 200 feet north of the access drive entrance from Barnes Road. A residence and maintained lawn and landscaped front and rear yards are located on the north side of Barnes Road separating the road from the nearest wetland area to the north (in the rear yard of the residential property). The nearest regulated area to the proposed Modified Location is an intermittent stream feature, located approximately 500 feet to the east-southeast. Please refer to the enclosed Wetland Investigation Map for the approximate location of the identified resource area. General weather conditions encountered during the above-referenced inspections included low 40 ° F and 70 ° F temperatures with generally sunny skies, respectively.

**Regulation of Wetlands:**

**Town of Canaan (Falls Village):** The Town of Canaan (Falls Village) Inland Wetlands and Watercourses Commission regulates activities within wetlands and watercourses, but does not regulate any buffer to wetlands and watercourses, through administration of the Connecticut Inland Wetlands and Watercourses Act (IWWA).

**State of Connecticut:** The IWWA requires the regulation of activities affecting or having the potential to affect wetlands under Sec. 22a-36 through 22a-45 of the Connecticut General Statutes. The IWWA is administered through local municipalities. The IWWA defines wetlands as areas of poorly drained, very poorly drained, floodplain, and alluvial soils, as delineated by a soil scientist. Watercourses are defined as bogs, swamps, or marshes, as well as lakes, ponds, rivers, streams, etc., whether natural or man-made, permanent or intermittent. Intermittent watercourse determinations are based on the presence of a defined permanent channel and bank, and two of the following characteristics: (1) evidence of scour or deposits of recent alluvium or detritus; (2) the presence of standing or flowing water for a duration longer than a particular storm incident; and (3) the presence of hydrophytic vegetation.

**U.S. Army Corps of Engineers:** The U.S. Army Corps of Engineers ("Corps") regulates the discharge of dredged or fill material into waters of the United States under Section 404 of the Clean Water Act. Waters of the United States are navigable waters, tributaries to navigable waters, wetlands adjacent to those waters, and/or isolated wetlands that have a demonstrated interstate commerce connection. The Corps Wetlands Delineation Manual defines wetlands as "[t]hose areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

## Site Description:

The 75± acre Subject Property consists of two separate and abutting parcels that lie generally on the top of Cobble Hill. A small hunting lodge is located on the Subject Property. Land use within the vicinity of the host Property consists generally of a mix of undeveloped woodlands and marsh, low-density residential development and agricultural land. The site currently under consideration (the "Modified Location") is located approximately 1,600 feet northeast of the hunting cabin, at an approximate ground elevation of 1,198 feet above mean sea level ("AMSL"). Access to the proposed Modified Location will be provided over an existing access drive and logging trail originating on Barnes Road, a distance of approximately 4,100 feet.

## Soil Description:

Soil types encountered during field investigation of the Study Area were generally consistent with digitally available soil survey information obtained from the Natural Resources Conservation Service. No wetland soils were identified in the Study Area. The non-wetland soil field-identified within the Study Area is classified as Hollis-Chatfield-Rock outcrop complex, a description of which is provided below.

**Upland Soils:**

The **Chatfield** series consists of moderately deep, well drained, and somewhat excessively drained soils formed in till. They are nearly level to very steep soils on glaciated plains, hills, and ridges. Slope ranges from 0 to 70 percent. Crystalline bedrock is at depths of 20 to 40 inches. The soils formed in a moderately thick mantle of glacial till overlying granite, gneiss, or schist bedrock. Rock outcrops are rare to common and are limited to the more resistant bedrock.

The **Hollis** series consists of shallow, well drained and somewhat excessively drained soils formed in

a thin mantle of glacial till derived mainly from gneiss, schist, and granite. They are nearly level to very steep upland soils on bedrock controlled hills and ridges. Depth to hard bedrock ranges from 10 to 20 inches. Bedrock outcrops vary from few to many.

**Conclusion:**

No wetlands or watercourses are located within or proximite to the Study Area. The nearest wetland/watercourse resource to the proposed development is located approximately 200 feet north of the access drive entrance from Barnes Road. A residence and maintained lawn and landscaped front and rear yards are located on the north side of Barnes Road separating the road from the nearest wetland area to the north (in the rear yard of the residential property). The nearest wetland resource area to the proposed Modified Location is approximately 500 feet to the east-southeast. Therefore, there will be no earth disturbance or other construction-related activities in or within close proximity to wetlands or watercourses.

Provided the project is approved, a comprehensive soil erosion and sediment control plan would be developed as part of the Connecticut Siting Council's Development and Management Plan process. The project engineer, CHA of Rocky Hill, Connecticut, has incorporated designed elements into the proposed development that meet applicable stormwater runoff requirements. These features, combined with proper erosion control measures installed and maintained in accordance with the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control (DEP Bulletin 34)*, would result in no direct or indirect impacts to wetlands or watercourses occurring during and subsequent to construction.

Sincerely,

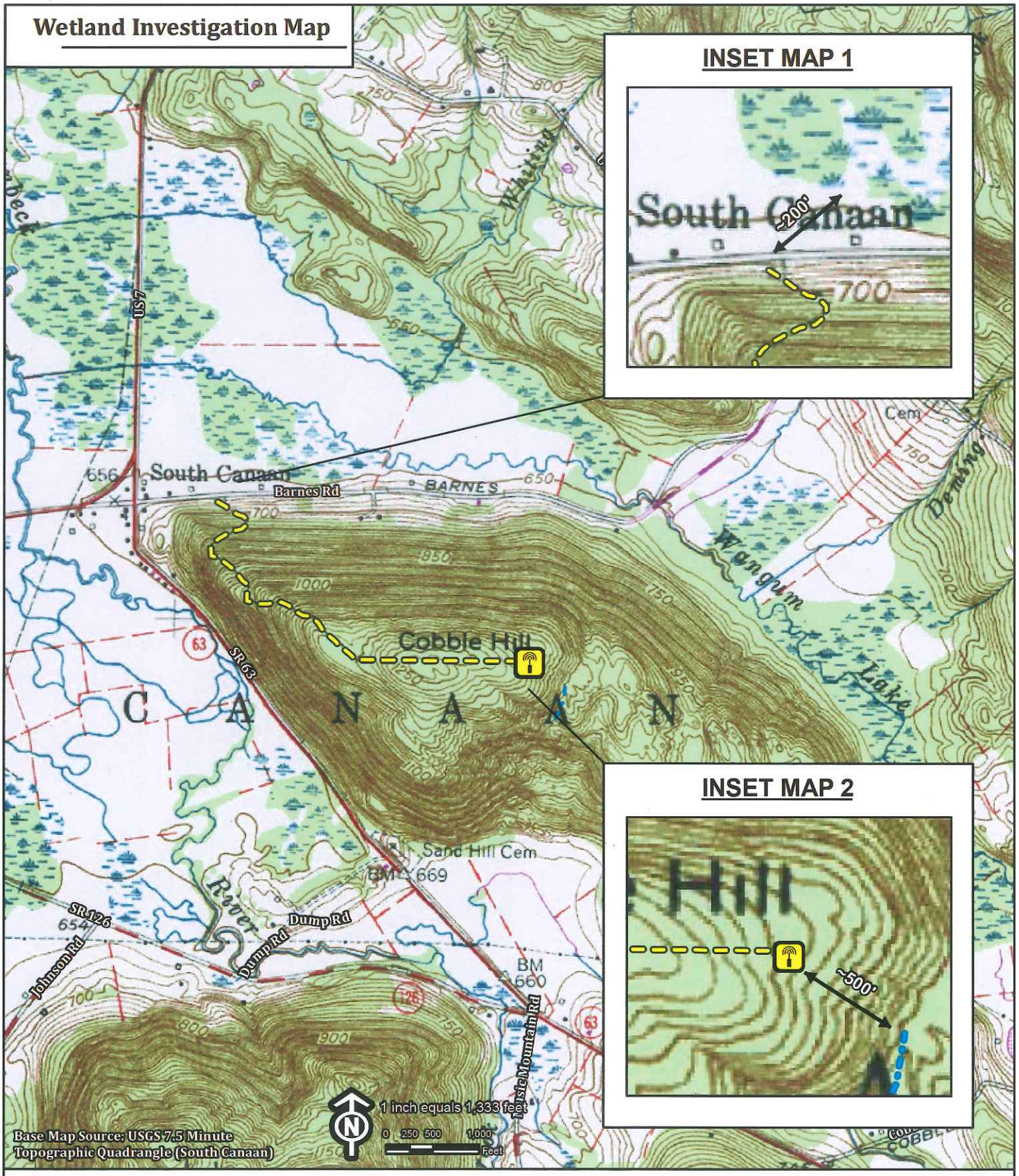
All-Points Technology Corporation, P.C.

Dean Gustafson

Professional Soil Scientist

Enclosure

# Wetland Investigation Map




**Legend**

- Proposed Modified Location
- Proposed Access
- Approximate Wetland Location
- Approximate Wetland Location

**8 Barnes Road**
**Falls Village, Connecticut**

**Monday, April 22, 2013**

at&t

ALL-POINTS TECHNOLOGY CORPORATION

ALL-POINTS TECHNOLOGY CORPORATION

# Flora Survey Report

April 22, 2013

**SAI Communications**
**500 Enterprise Drive**
**Rocky Hill, CT 06067**

**APT Project No.: CT193970**

**Attn: David Vivian**

**Re:**
**Proposed AT&T Facility**
**8 Barnes Road**
**Falls Village, Connecticut**

Dear Mr. Vivian,

All-Points Technology Corp., P.C. ("APT") conducted a preliminary habitat evaluation on April 21, 2013 to document the habitat characteristics associated with the potential development areas. The field inspected "Study Area" consisted of the proposed Modified (tower) Location, access drive, and areas generally within 100 to 200 feet of proposed development. The subject property primarily consists of undeveloped forest with an existing gravel drive located along the northwestern slope of Cobble Hill providing access to a private hunting cabin. The general habitat of the Study Area was characterized as Northern red oak-Black oak-Chestnut oak (*Quercus rubra – Quercus velutina – Quercus primus*) forest[1]. This forest community occurs on shallow rocky soils on upper slopes and summits, such as those encountered at the Study Area. Eastern white pine (*Pinus strobus*), pignut hickory (*Caryn glabra*), and white oak (*Quercus alba*) are also a component of the canopy. The predominant size class is poletimber to sawtimber (6-12 inches diameter at breast height), with saplings, seedlings, and scattered larger wolf trees also present. The average height of trees in this area is 40 to 50 feet. The shrub layer is generally undeveloped due to a closed canopy and limited resources for abundant vegetation to colonize the understory. The sparse vegetation that does exist in the shrub layer includes downy serviceberry (*Amelanchier arborea*), northern arrowwood (*Viburnum recognihmr*), lowbush blueberry (*Vaccinium palllidrmr, V. angustifolia, V. stamineum*) and chestnut oak seedlings/saplings. A relatively small field (1.25± acres) southeast of the hunting cabin and approximately 800 feet west of the Modified Location was cleared circa 2006 to improve habitat for whitetail deer. Due to seasonal restrictions limiting the ability to identify certain species, the herbaceous layer was not documented because many herbaceous species have yet to germinate or exhibit diagnostic features.

Sincerely,

All-Points Technology Corporation, P.C.

Matthew Gustafson

Forester and Environmental Scientist

[1]Metzler, K.J., Barrett, J.P. *State Geological and Natural History Survey of Connecticut, The Vegetation of Connecticut, A Preliminary Classification*, Connecticut Department of Environmental Protection, Report of Investigations No. 12. 2006

## FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN CONNECTICUT

| COUNTY | SPECIES | FEDERAL STATUS | GENERAL LOCATION/HABITAT | TOWNS |
|---|---|---|---|---|
| Fairfield | Piping Plover | Threatened | Coastal Beaches | Westport, Bridgeport and Stratford |
| | Roseate Tern | Endangered | Coastal beaches, Islands and the Atlantic Ocean | Westport and Stratford |
| | Bog Turtle | Threatened | Wetlands | Ridgefield and Danbury. |
| Hartford | Dwarf wedgemussel | Endangered | Farmington and Podunk Rivers | South Windsor, East Granby, Simsbury, Avon and Bloomfield. |
| Litchfield | Small whorled Pogonia | Threatened | Forests with somewhat poorly drained soils and/or a seasonally high water table | Sharon. |
| | Bog Turtle | Threatened | Wetlands | Sharon and Salisbury. |
| Middlesex | Roseate Tern | Endangered | Coastal beaches, islands and the Atlantic Ocean | Westbrook |
| | Piping Plover | Threatened | Coastal Beaches | Clinton, Westbrook, Old Saybrook. |
| | Puritan Tiger Beetle | Threatened | Sandy beaches along the Connecticut River | Cromwell, Portland |
| New Haven | Bog Turtle | Threatened | Wetlands | Southbury |
| | Piping Plover | Threatened | Coastal Beaches | Milford, Madison and West Haven |
| | Roseate Tern | Endangered | Coastal beaches, Islands and the Atlantic Ocean | Branford, Guilford and Madison |
| | Indiana Bat | Endangered | Mines, Caves | |
| New London | Piping Plover | Threatened | Coastal Beaches | Old Lyme, Waterford, Groton and Stonington. |
| | Roseate Tern | Endangered | Coastal beaches, Islands and the Atlantic Ocean | East Lyme, New London and Waterford. |
| | Small whorled Pogonia | Threatened | Forests with somewhat poorly drained soils and/or a seasonally high water table | Waterford |
| Tolland | None | | | |

-Eastern cougar, gray wolf, Indiana bat, Seabeach amaranth and American burying beetle are considered extirpated in Connecticut.
-There is no federally-designated Critical Habitat in Connecticut.

7/31/2008

# United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
http://www.fws.gov/newengland

January 7, 2013

To Whom It May Concern:

The U.S. Fish and Wildlife Service's (Service) New England Field Office has determined that individual project review for certain types of activities associated with communication towers **is not required.** These comments are submitted in accordance with provisions of the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

Due to the rapid expansion of the telecommunication industry, we are receiving a growing number of requests for review of **existing** and **new** telecommunication facilities in relation to the presence of federally-listed or proposed, threatened or endangered species, critical habitat, wilderness areas and/or wildlife preserves. We have evaluated our review process for proposed communications towers and believe that individual correspondence with this office is not required for the following types of actions relative to **existing** facilities:

1. the re-licensing of existing telecommunication facilities;
2. audits of existing facilities associated with acquisition;
3. routine maintenance of existing tower sites, such as painting, antenna or panel replacement, upgrading of existing equipment, etc.;
4. co-location of new antenna facilities on/in existing structures;
5. repair or replacement of existing towers and/or equipment, provided such activities do not significantly increase the existing tower mass and height, or require the addition of guy wires.

In order to obviate the need to contact this office in the future for individual environmental review for **existing** communication towers or antenna facilities, please note that we are not aware of any federally-listed, threatened or endangered species that are being adversely affected by any existing communication tower or antenna facility in the following states: Vermont, New Hampshire, Rhode Island, Connecticut and Massachusetts. Furthermore, we are not aware of any **existing** telecommunication towers in federally-designated critical habitats, wilderness areas or wildlife preserves. Therefore, no further consultation with this office relative to the impact of the above referenced activities on federally-listed species is required.

January 7, 2013

Future Coordination with this Office Relative to New Telecommunication Facilities

We have determined that proposed projects are not likely to adversely affect any federally-listed or proposed species when the following steps are taken to evaluate new telecommunication facilities:

1. If the facility will be installed within or on an existing structure, such as in a church steeple or on the roof of an existing building, no further coordination with this office is necessary. Similarly, new antennas or towers in urban and other developed areas, in which no natural vegetation will be affected, do not require further review.

2. If the above criteria cannot be met, your review of our lists of threatened and endangered species locations within Vermont, New Hampshire, Rhode Island, Connecticut and Massachusetts may confirm that no federally-listed endangered or threatened species are known to occur in the town or county where the project is proposed.

3. If a listed species is present in the town or county where the project is proposed, further review of our lists of threatened and endangered species may allow you to conclude that suitable habitat for the species will not be affected. Based on past experiences, we anticipate that there will be few, if any, projects that are likely to impact piping plovers, roseate terns, bog turtles, Jesup's milk-vetch or other such species that are found on coastal beaches, riverine habitats or in wetlands because communication towers typically are not located in these habitats.

For projects that meet the above criteria, there is no need to contact this office for further project review. A copy of this letter should be retained in your file as the Service's determination that no listed species are present, or that listed species in the general area will not be affected. Due to the high workload associated with responding to many individual requests for threatened and endangered species information, we will no longer be providing response letters for activities that meet the above criteria. This correspondence and the species lists remain valid until January 1, 2014. Updated consultation letters and species lists are available on our website:

(http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm)

Thank you for your cooperation, and please contact Mr. Brett Hillman of this office at 603-223-2541 if you need further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office