

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Internet: ct.gov/csc

November 24, 2008

Carrie L. Larson, Esq. Pullman and Comley, LLC 90 State House Square Hartford, CT 06103-3702

RE: **DOCKET NO. 365** - Optasite Towers LLC and Omnipoint Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 39 Maennerchor Avenue, Taftville, Connecticut.

Dear Attorney Larson:

By its Decision and Order dated November 20, 2008, the Connecticut Siting Council (Council) granted a Certificate of Environmental Compatibility and Public Need (Certificate) for the construction, maintenance and operation of a telecommunications facility located at 39 Maennerchor Avenue, Norwich.

Enclosed are the Council's Certificate, Findings of Fact, Opinion, and Decision and Order.

Very truly yours,

S. Deux Philipse.

S. Derek Phelps Executive Director

SDP/CDM/jb

Enclosures (4)

c: Julie Kohler, Esq., Cohen & Wolf, P.C.





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CERTIFICATE

OF

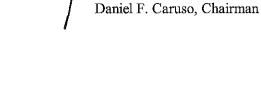
ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED DOCKET NO. 365

Pursuant to General Statutes § 16-50k, as amended, the Connecticut Siting Council hereby issues a Certificate of Environmental Compatibility and Public Need to Optasite Towers LLC for the construction, maintenance and operation of a telecommunications facility located at 39 Maennerchor Avenue, Taftville, Connecticut.

This Certificate is issued in accordance with and subject to the terms and conditions set forth in the Decision and Order of the Council on November 20, 2008.

By order of the Council,

November 20, 2008



DOCKET NO. 365 - Optasite Towers LLC and Omnipoint } Connecticut Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the } Siting construction, maintenance and operation of a telecommunications facility located at 39 Maennerchor Avenue, in the Taftville } Council section of Norwich, Connecticut.

November 20, 2008

Findings of Fact

Introduction

- 1. Pursuant to Chapter 277a, Sections 16-50g et seq. of the Connecticut General Statutes (CGS), as amended, and Section 16-50j-1 et. seq. of the Regulations of Connecticut State Agencies (RCSA), Optasite Towers LLC (Optasite) and Omnipoint Communications, Inc. (T-Mobile) applied to the Connecticut Siting Council (Council) on June 11, 2008 for the construction, operation, and maintenance of a telecommunications facility to be located at 39 Maennerchor Avenue in the Taftville section of the City of Norwich, Connecticut. (Applicants 1, p. 1)
- 2. Optasite is a Delaware limited liability company with offices at One Research Drive, Suite 200C, Westborough, Massachusetts. It would be the Certificate holder and be responsible for constructing and maintaining the proposed facility. (Applicants 1, p. 2)
- 3. T-Mobile is a Delaware corporation with a Connecticut office at 35 Griffin Road South, Bloomfield, Connecticut. The company and its affiliated entities are licensed by the Federal Communications Commission (FCC) to construct and operate a personal wireless services system in Connecticut. T-Mobile does not conduct any other business in the State of Connecticut other than the provision of wireless services under FCC rules and regulations. (Applicants 1, p. 3)
- 4. The parties in this proceeding are the applicants, Optasite and T-Mobile. (Transcript, September 2, 2008, 3:00 p.m. [Tr. 1], p. 5)
- 5. The proposed facility would provide service along State Highway 12, State Highway 97, State Highway 169, and within the Taftville section of Norwich. (Applicants 1, p. 1; Applicants 3, A21)
- Pursuant to CGS § 16-50m, the Council, after giving due notice thereof, held a public 6. hearing on August 21, 2008, beginning at 3:00 p.m. and continuing at 7:00 p.m. in Room 335 of the Norwich City Hall, 100 Broadway, Norwich, Connecticut. (Tr. 1, p. 2 ff.)
- The Council and its staff conducted an inspection of the proposed site on August 21, 2008 7. beginning at 2:00 p.m. On the day of the field inspection, the applicants flew a balloon from approximately 8:00 a.m. to 6:00 p.m. to simulate the height of the proposed tower. The weather conditions were excellent for the balloon flight. (Tr. 1, pp. 15-16)

- 8. The applicants conducted a supplemental balloon float on Tuesday, September 30, 2008. The balloon was raised at approximately 3:45 p.m. and remained continuously aloft until approximately 7:05 p.m. at the tower's proposed height of 120 feet. (Applicants' Affidavit Regarding Balloon Height dated October 2, 2008)
- 9. Pursuant to CGS § 16-50*l*(b), notice of the applicants' intent to submit this application was published on June 4 and 5, 2008 in the <u>Norwich Bulletin</u>. (Applicants 9 <u>Norwich Bulletin</u> Affidavit of Publication dated June 5, 2008)
- 10. In accordance with CGS § 16-50*l*(b), Optasite sent notices of its intent to file an application with the Council to each person appearing of record as owner of property abutting the property on which the site is located. (Applicants 1, pp. 4-5, Exhibit F)
- 11. Optasite received certified mail receipts from all abutting property owners to whom notice was sent. (Applicants 2, Response 1)
- 12. Pursuant to CGS § 16-50*l* (b), Optasite provided notice to all federal, state, regional, and local officials and agencies listed therein. (Applicants 1, p. 4, Exhibit D)
- 13. On August 7, 2008, Optasite posted a sign on the 39 Maennerchor Avenue property informing the public of its pending application, including the height of the proposed tower the time, date, and location of the public hearing on the application, and contact information for the Council. (Applicants 4, Answer to Q8, Exhibit 1)

State Agency Comments

- 14. Pursuant to CGS § 16-50*l*, the Council solicited comments on this application from the following state departments and agencies: Department of Environmental Protection (DEP), Department of Public Health, Council on Environmental Quality, Department of Public Utility Control, Office of Policy and Management, Department of Economic and Community Development, and the Department of Transportation. The Council's letters requesting comments were sent on July 25, 2008 and August 22, 2008. (CSC Hearing Package dated July 25, 2008; Letter to State Department Heads dated August 22, 2008)
- 15. The Connecticut Department of Transportation responded to the Council's solicitation with no comments. (Letter from Connecticut Department of Transportation dated August 11, 2008)
- 16. Other than the Department of Transportation, the Council did not receive any comments from state agencies. (Record)

Municipal Consultation

17. On June 28, 2007, Optasite submitted a letter and a technical report with information about the proposed facility to the City of Norwich. (Applicants 1, p. 18)

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- 18. On August 20, 2007, Optasite representatives met with the Norwich City Council to discuss the proposed facility. The City Council requested that Optasite investigate several other alternate sites, including Mohegan Park and transmission lines in the area of the proposed facility. Optasite investigated the sites suggested by the City Council and determined that they would not provide coverage to T-Mobile's target area. (Applicants 1, p. 18; Applicants 2, Response 6; Tr. 1, pp. 39-40)
- 19. Optasite representatives also contacted the Norwich City Attorney in May, 2008 as an additional follow-up. (Applicants 1, p. 18)
- 20. The Norwich Fire Department has notified Optasite of its interest in locating antennas on the proposed tower. (Applicants 2, Response 8, Exhibit 1)
- 21. The Norwich Police Department has expressed an interest in locating antennas on the proposed tower. (Tr. 1, p. 10)

Public Need for Service

- 22. In 1996, the United States Congress recognized a nationwide need for high quality wireless telecommunications services, including cellular telephone service. Through the Federal Telecommunications Act of 1996, Congress seeks to promote competition, encourage technical innovations, and foster lower prices for telecommunications services. (Council Administrative Notice Item No. 7)
- 23. In issuing cellular licenses, the Federal government has preempted the determination of public need for cellular service by the states, and has established design standards to ensure technical integrity and nationwide compatibility among all systems. (Council Administrative Notice Item No. 7)
- 24. The Telecommunications Act of 1996 prohibits local and state bodies from discriminating among providers of functionally equivalent services. (Council Administrative Notice, Telecommunications Act of 1996)
- 25. The Telecommunications Act of 1996 prohibits any state or local agency from regulating telecommunications towers on the basis of the environmental effects of radio frequency emissions to the extent that such towers and equipment comply with FCC's regulations concerning such emissions. This Act also blocks the Council from prohibiting or acting with the effect of prohibiting the provision of personal wireless service. (Council Administrative Notice, Telecommunications Act of 1996)
- 26. In an effort to ensure the benefits of wireless technologies to all Americans, Congress enacted the Wireless Communications and Public Safety Act of 1999 (the 911 Act). The purpose of this legislation was to promote public safety through the deployment of a seamless, nationwide emergency communications infrastructure that includes wireless communications services. (Applicants 1, p. 6)

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- 27. As an outgrowth of the 911 Act, the Federal Communications Commission (FCC) required wireless carriers to provide enhanced 911 (E911) services as part of the communications networks. (Applicants 1, p. 7)
- 28. The proposed facility would be an integral component of T-Mobile's E911 network. (Applicants 1, p. 7)
- 29. Optasite has received an application from New Cingular Wireless PCS (AT&T) for locating antennas on the proposed tower. AT&T would locate its antennas at a centerline height of 107 feet. (Applicants 2, Response 9; Applicants 2, Exhibit 2; Tr. 1, pp. 18-19)
- 30. Optasite would allow the City of Norwich to use the proposed tower for no charge. (Applicants 2, Response 10)

Site Selection

- 31. T-Mobile initiated a search ring for a facility in this area on April 22, 2005. The site search area centered on the intersection of Routes 12, 97, and 169 in Norwich. The diameter of the search ring was two miles. (Applicants 3, A13, Attachment A)
- 32. Optasite assumed site search responsibilities from T-Mobile and commenced its activities in December, 2005. (Applicants 2, Response 12)
- 33. Optasite identified 13 communications towers, either existing or proposed, within approximately four miles of its proposed site. None of these towers would provide adequate coverage in T-Mobile's target area. The towers are listed in the following table. Of the towers listed, T-Mobile has antennas on the towers at: 1 Chestnut Street at a centerline height of 84 feet, 50 Clinton Avenue at a centerline height of 150 feet, 2 Hinckley Hill Road at a centerline height of 150 feet, and 20 Nygren Road (26 Mell Road) at a centerline height of 195 feet. (table continued on next page)

Tower Location	Height and Type of Tower	Tower Owner	Approx. Distance and Direction
1 Chestnut Street,	81', lattice tower on	SNET	2.6 miles to SW
Norwich	building top		
50 Clinton Avenue,	150', monopole	T-Mobile	3.1 miles to W
Norwich			
2 Hinckley Hill Road,	140', lattice tower	Cordless Data	3.1 miles to S
Norwich		Transfer	
292 Plain Hill Road,	180', monopole	SBA Properties	3.1 miles to W
Norwich			
1 Cuprak Road,	356', guyed lattice	WICH	1.3 miles to SW
Norwich			
1 Cuprak Road,	356', guyed lattice	WICH	1.3 miles to SW
Norwich			
1 Cuprak Road,	356', guyed lattice	WICH	1.3 miles to SW
Norwich			

Tower Location	Height and Type of Tower	Tower Owner	Approx. Distance and Direction
413 Plain Hill Road, Norwich	305', guyed lattice	Comcast	3.4 miles to NW
20 Nygren Road, (26 Mell Road), Lisbon	195', monopole	SBA	2.8 miles to NE
21 Nygren Road, (20 Mell Road), Lisbon	180', monopole	SBA	2.8 miles to NE
446 North Main Street, Norwich	50', rooftop lattice	Norwich Fire Dept	1.7 miles to S
446 Plain Hill Road, Norwich	100', lattice tower	State of Connecticut	3.6 miles to NW
442 Plain Hill Road, Norwich	100', monopole	E. Wisneske	3.6 miles to NW

(Applicants 1, Exhibit H; Applicants 2, Response 15)

- 34. T-Mobile would have to locate antennas at 250 feet above ground level (agl) on the AM towers at 1 Cuprak Road in order to reach its target area due to the terrain between the towers and the target area. Antennas at this height would cause interference concerns with T-Mobile's existing sites and redundant coverage along the I-395 corridor. (Applicants 3, A30)
- 35. During its initial search for a facility location, Optasite considered several other properties in addition to the proposed site. These properties and assessments of their suitability are listed in the table below (table continued on next page):

Location Considered	Suitability
72 Jewett City Road, Norwich	Planned expansion of Bob's Discount
	Furniture property precluded ability to
	locate facility at this location
768 Boswell Avenue (two properties),	These properties are cemeteries and
Norwich	owner was not interested in leasing
	space for cell tower
15 Bolduc Lane, Norwich	Property is only ¼ acre in size and has
	no natural screening on it
139 Norwich Avenue, Norwich	Not enough available ground space for
	facility on site
20 Norwich Avenue, Norwich	Not enough available ground space for
	facility on site
30 Hunters Road, Norwich	Property owners not interested in
	leasing space for cell tower
44 Norwich Avenue, Norwich	Property is mobile home park, and
	tower at this location would impact
·	large number of residences
68 Roosevelt Avenue, Preston	Property is too far from target area to
	provide adequate coverage
72 Roosevelt Avenue, Preston	Property is too far from target area to
	provide adequate coverage

Location Considered	Suitability
Rockwell Street, Norwich	Inadequate coverage from site
197 Old Canterbury Turnpike, Norwich	Inadequate coverage from site
167 Merchants Avenue, Norwich	Inadequate coverage from site
555 Norwich Avenue, Norwich	Inadequate coverage from site
Mohegan Park Road, Norwich	Inadequate coverage from site
652 River Road, Lisbon (power mount)	Inadequate coverage from site
Utility poles in area	Inadequate coverage from site

(Applicants 1, Exhibit H)

- 36. At the suggestion of the Norwich City Council, Optasite investigated a site in Mohegan Park in Norwich. This site was rejected by T-Mobile because it was too far to the west and signals from here would not extend over a hill to provide coverage along Routes 12, 97, and 169. (Applicants 2, Response 7; Tr. 1, p. 21)
- 37. Optasite explored the possibility of co-locating on CL&P transmission line structures in the area or leasing property from CL&P to construct a new tower. T-Mobile rejected locating its antennas on the existing transmission line structures because they were not high enough to successfully cover the target area. Optasite was also unable to reach an agreement with CL&P to build a tower on property owned by the utility. (Applicants 2, Response 7)
- 38. Repeaters, microcell transmitters, distributed antenna systems and other types of transmitting technologies are not a practicable or feasible means to provide service within the coverage gap T-Mobile is seeking to cover due to significant terrain variations and tree cover in the area, as well as other practical considerations. (Applicants 1, pp. 7-8)

Site Description

- 39. Optasite's proposed facility is located on a seven-acre property at 39 Maennerchor Avenue. The property is owned by Maennerchor Club, which has its club building on the property. The rest of the property is undeveloped. The site of the proposed facility is approximately 750 feet northwest of the intersection of Routes 12 and 97 in the Taftville section of Norwich. (Applicants 1, p. 2; Exhibit B)
- 40. The Maennerchor Club property is located within an R-20 residential district. The City of Norwich's zoning regulations explicitly do not regulate wireless communications towers that come under the Council's jurisdiction. (Applicants 1, pp. 15-16)
- 41. On the Maennerchor Club property, Optasite would lease a 70-foot by 70-foot parcel within which it would develop a 65-foot by 65-foot compound, including a 120-foot monopole tower. The compound would be enclosed by an eight-foot high chain link fence. (Applicants 1, p. 9; Exhibit B, Compound Plan)
- 42. The tower would be located at 41° 33' 30.5" north latitude and 72° 3' 4.6" west longitude. Its ground elevation would be 155 feet above mean sea level. (Applicants 1, Exhibit P; Exhibit A, Sheet A02)

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- 43. Optasite's tower would be designed in accordance with the specifications of the Electronic Industries Association Standard ANSI/TIA-222-G "Structural Standards for Steel Antenna Towers and Antenna Support Structures" in accordance with the International Building Code. The diameter of the tower at its top would be approximately 24 inches and at its base approximately 44 inches. The tower would be designed to accommodate the antennas of four wireless carriers and the antennas of the City of Norwich's emergency services, if requested. (Applicants 1, pp. 9-10; Applicants 2, Response 2)
- 44. Optasite would design its tower to be extendable by 30 feet, as is its customary practice. (Tr. 1, pp. 29, 79)
- 45. T-Mobile would initially install three antennas, one per 120 degree sector at a centerline height of 117 feet agl. It could install a total of up to nine antennas (three antennas per sector) based upon future demand. (Applicants 1, p. 9; Tr. 1, p. 17)
- 46. T-Mobile would mount its antennas on a low profile platform. (Tr. 1, p. 17)
- 47. T-Mobile could mount antennas on T-arm mounts without affecting coverage from the site. T-arm mounts, however, would affect the site's capacity. The same is true if T-Mobile were to flush-mount its antennas. (Tr. 1, pp. 80-81)
- 48. Limiting antenna installations to flush-mounting could require some carriers to need two different elevations for their antennas. (Tr. 1, p. 81)
- 49. T-Mobile would use batteries as back up power at this facility. (Applicants 3, A16)
- 50. Site development would require approximately 236 cubic yards of cut and 122 cubic yards of fill. (Applicants 2, Response 4)
- 51. Vehicular access to the facility would extend from Beauregard Street along a proposed gravel driveway for a distance of approximately 363 feet. (Applicants 1, p. 10)
- 52. The access road would be laid out to avoid a small knoll that has a significant quantity of ledge visible. (Tr. 1, p. 68)
- 53. Utility service for the facility would extend underground from Beauregard Street and would follow the access driveway to the facility compound. (Applicants 1, p. 10; Exhibit B, Sheet A02)
- 54. Exposed ledge is visible on the host property so it is possible that ledge could be encountered during excavation for the facility. The presence of ledge would be confirmed by a geotechnical investigation. Should ledge be encountered, chipping would be preferred to blasting. (Applicants 2, Response 5)
- 55. The tower's setback radius would be contained within the limits of the Maennerchor Club property. (Applicants 1, Exhibit B, Sheet A02)
- 56. There are 70 residences within 1,000 feet of the proposed tower. (Applicants 1, Exhibit B)

Docket 365: Norwich Findings of Fact Page 8

- 57. The nearest residence is located 200 feet to the north of the proposed tower at 24 Beauregard Street. It is owned by Kevin C. Godaire. (Applicants 1, Exhibit B; Applicants 2, Response 3)
- 58. Land use in the vicinity of the proposed facility consists of medium-density residential parcels with some commercial establishments along Route 12 to the east and south. (Applicants 1, Exhibit J, p. 1)
- 59. Optasite's estimated cost of construction for the proposed facility, not including carriers' antennas and support equipment, is:

Tower and foundation	\$ 74,000
Site development	66,000
Utility installation	_28,000
Total costs	\$168,000

(Optasite 1, p. 20)

60. The approximate cost of T-Mobile's equipment that would be installed at the proposed facility would be between \$125,000 and \$150,000. (Applicants 3, A29)

Environmental Considerations

- 61. Kleinfelder East Inc., a consultant working for Optasite, conducted a Phase I Cultural Resources Reconnaissance Survey as part of a National Environmental Policy Act (NEPA) assessment of the proposed facility. The survey concluded that no impacts to cultural resources would be anticipated. The State Office of Historic Preservation reviewed the reconnaissance survey and deemed no further archaeological investigations to be necessary. (Applicants 1, Exhibit K Phase I Cultural Resources Reconnaissance Survey Final Report, p. 10; Exhibit M Letter from State Historic Preservation Office dated February 8, 2008)
- 62. Optasite's proposed site is located approximately 2,390 feet to the south of the Taftville Historic District and may be partially or seasonably visible from areas within the district. Despite this, the facility should have no adverse effect upon historic, architectural and archaeological resources associated with the National Register historic district. (Applicants 1, Exhibit M, Letter from State Historic Preservation Office dated February 8, 2008; Applicants 1, Exhibit K)
- 63. According to the Connecticut Natural Diversity Database, there are no state or federally listed species or significant natural communities located at or in the immediate vicinity of the proposed facility. (Applicants 1, Exhibit K, p. 5)
- 64. The proposed facility is located within a wooded, upland ecological community consisting of mixed mature second-growth hardwoods that include black cherry, sugar maple, red oak, and white oak. (Applicants 1, Exhibit L, p. 2)

- 65. Fifteen trees with diameters of six inches or greater at breast height would have to be taken down for the proposed facility. (Applicants 1, Exhibit B-CHA Tree Removal Count)
- 66. There are no wetlands on the Maennerchor Club property. (Applicants 1, Exhibit L, p. 3)
- 67. Based upon an aeronautical study conducted by the Federal Aviation Administration, the proposed tower would not be a hazard to air navigation and no marking or lighting would be necessary. (Applicants 1, Exhibit P, p. 1)
- 68. The maximum power density from the radio frequency emissions of T-Mobile's proposed antennas was calculated to be 3.78% of the standard for Maximum Permissible Exposure, as adopted by the FCC, at the base of the proposed tower. This calculation was based on a methodology prescribed by the FCC Office of Engineering and Technology Bulletin No. 65E, Edition 97-01 (August 1997) that assumes all antennas would be pointed at the base of the tower and all channels would be operating simultaneously. (Applicants 1, Exhibit N)

Visibility

- 69. The proposed tower would be at least partially visible year-round from approximately 175 acres within a two-mile radius study area. (Applicants 1, p. 12; Exhibit J, p. 5)
- 70. The tower would be seasonally visible from approximately an additional 64 acres, which are generally located within a 0.25 mile radius surrounding the proposed facility. (Applicants 1, Exhibit J, p. 5)
- 71. The visibility of the proposed tower from different vantage points in the surrounding vicinity is summarized in the following table. (See Figure 6)

<u>Location</u>	<u>Visible</u>	Approx. Portion of (120') Tower Visible (ft.)	Approx. Distance and Direction to Tower
1 – 48 Maennerchor Avenue	Yes	60'	630 feet; S
2 – 64 Maennerchor Avenue	Yes	70'	630 feet; SE
3 – 9 Laporte Drive	Yes	70'	1,320 feet; SE
4 – 27 Schiller Street	Yes	15'	790 feet; SE
5 – 51 Hunters Road	Yes	50'	580 feet; NE
6 – 815 Boswell Avenue	Yes	25'	3,320 feet; N
7 – 14 McKay Street	Yes	20'	2,530 feet; N
8 – 11 Hunters Road	Yes	35'	790 feet; N
9 – Starrwood Food Market on Boswell Ave	Yes	50'	2,640 feet; N
10 – Intersection of Norwich Ave, Hunters Rd, and Prentice St	Yes	40'	1,100 feet; N
11 – Norwich Ave and Blissville Road	Yes	20'	630 feet; NW
12 – Prentice Street near Norwich Ave intersection	Yes	40'	950 feet; N

(table continued on next page)

<u>Location</u>	<u>Visible</u>	Approx. Portion of (120') Tower Visible (ft.)	Approx. Distance and Direction to Tower
13 – 10 Prentice Street	Yes	20'	790 feet; N
14 – Intersection of Germania Street and Maennerchor Avenue	Yes	10'	1,260 feet; S
15 – 24 Maennerchor Avenue	Yes	20'	1,050 feet; S
16 – 33 Bolduc Lane	Yes	40'	1,100 feet; NW
17 – Bob's Furniture Warehouse on Norwich Avenue	Yes	15'	1,000 feet; W
18 – Route 12 intersection with Lower Blissville Road	Yes	40'	1,850 feet; W
19 – 220 Bungy Hill Road	Yes	10'	4,110 feet; SW
20 – Route 12, east of Lower Blissville Road	Yes	50'	2,850 feet; W
21 – Intersection of Route 169 and Route 97	Yes	30'	3,220 feet; SW

(Applicants 1, Exhibit J)

- 72. There are approximately 30 residences that will have at least partial year-round views of the proposed tower. (Applicants 1, Exhibit J, p. 5)
- 73. An additional 14 residences would have seasonal views of the proposed tower. (Applicants 1, Exhibit J, p. 5)
- 74. The visual impact of the proposed compound on neighboring properties would be minimized by the screening effect of the existing vegetation on the Maennerchor Club property. (Applicants 1, p. 12)
- 75. Optasite would landscape the perimeter of the proposed compound to help reduce its visual impact. (Applicants 1, Exhibit B, Compound Plan)

Existing and Proposed Wireless Coverage

76. T-Mobile is licensed to operate at the following frequencies in the Norwich area:

Global System for Mobile communications (GSM) Transmit: 1935 to 1945 MHz (A Band) GSM Receive: 1855 to 1865 MHz (A Band)

and

GSM Transmit: 1983 to 1984 MHz (C Band) GSM Receive: 1903 to 1904 MHz (C Band)

Universal Mobile Telecommunications System (UMTS) Transmit: 2140 to 2145 MHz

UMTS Receive: 1740 to 1745 MHz

(Applicants 3, A17)

- 77. T-Mobile's minimum design receive signal threshold is -84 dBm for in-vehicle coverage. For in-building coverage, the minimum design receive signal threshold is -76 dBm. (Applicants 3, A18)
- 78. The existing signal strength in the area T-Mobile seeks to cover from the proposed facility ranges from -85 dBm to -110 dBm. (Applicants 3, A19)
- 79. The coverage gaps on the state highways T-Mobile is seeking to cover from the proposed site are:
 - 2.2 miles on Route 12,1.1 miles on Route 97, and2.3 miles on Route 169.(Applicants 3, A22)
- 80. The distances T-Mobile could cover from the proposed site on these state highways are:
 - 2.4 miles on Route 12,
 - 1.4 miles on Route 97, and
 - 2.5 miles on Route 169.

(Applicants 3, A23)

- 81. The total area T-Mobile could cover from the proposed site is approximately 3.6 square miles. (Applicants 3, A20)
- 82. The neighboring sites with which T-Mobile's antennas would hand off signals from the proposed site are:

Site ID	Address	Town	Facility Type	Antenna Ht.	Structure Ht.
CT11254B	2 Hinckley Hill	Norwich	Lattice Tower	150' agl	140 feet
	Road			(on pipe mast)	
CT11151B	114 River Road	Lisbon	Shell Gas Sign	65' agl	80 feet
CT11150D	26 Mell Road	Lisbon	Monopole	195' agl	195 feet
	(Nygren Road)		_		
CT11149A	77 Reservoir Road	Norwich	Water Tank	160' agl	162 feet
CT11331A	50 Clinton Avenue	Norwich	Monopole	150' agl	150 feet
CT11263A	1 Chestnut Street	Norwich	Lattice Tower	84' agl	81' feet
				(on mast)	

(Applicants 3, A24)

- 83. The minimum height at which T-Mobile's antennas could achieve this site's coverage objective is 117 feet agl. (Applicants 3, A25)
- 84. T-Mobile used a software propagation prediction program to determine the area that could be covered from the proposed site. The results of the software program were confirmed through drive testing, which included having a transmitter lifted to different heights close to the proposed tower site by a crane. (Tr. 1, pp. 23-24)

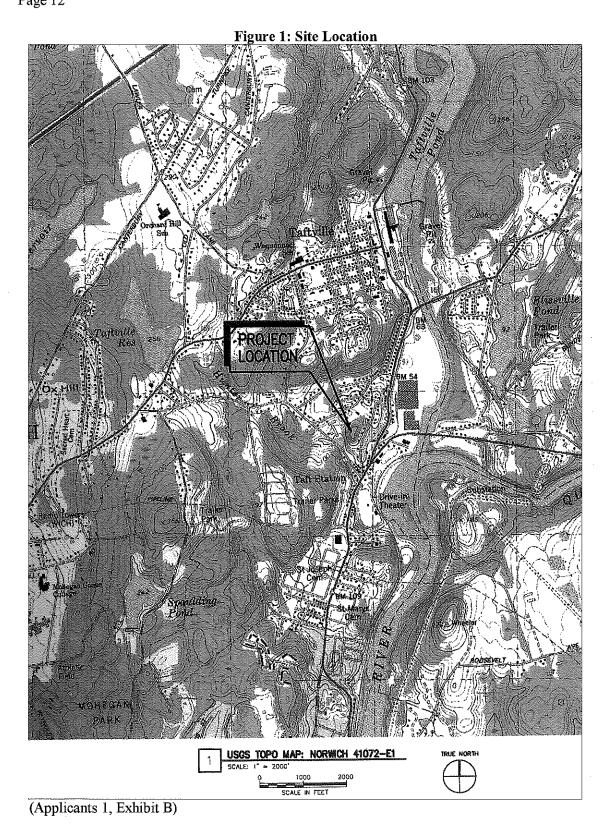


Figure 2: Aerial Photograph of Site Location agede (di) Mg(614 etg) 2004 AERIAL PHOTO SCALE: 1" = 1000" (Applicants 1, Exhibit B)

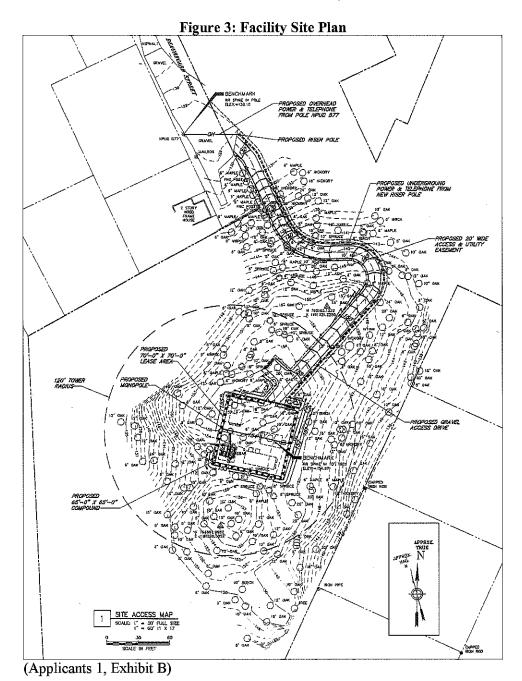


Figure 4: Existing T-Mobile Coverage

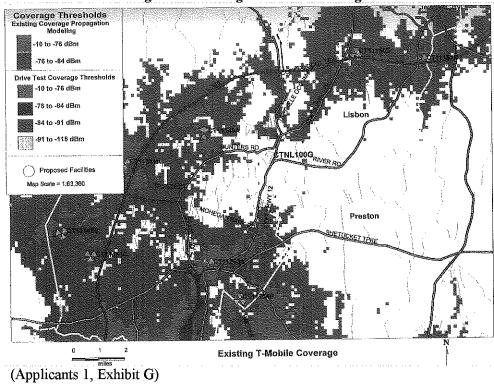
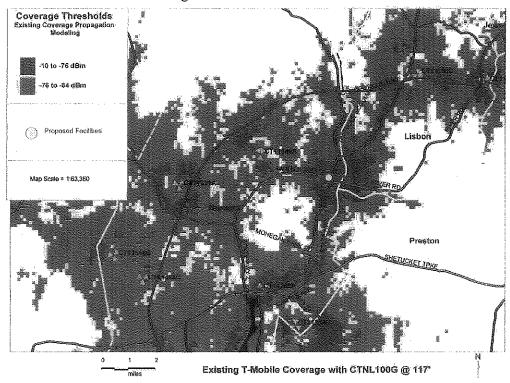
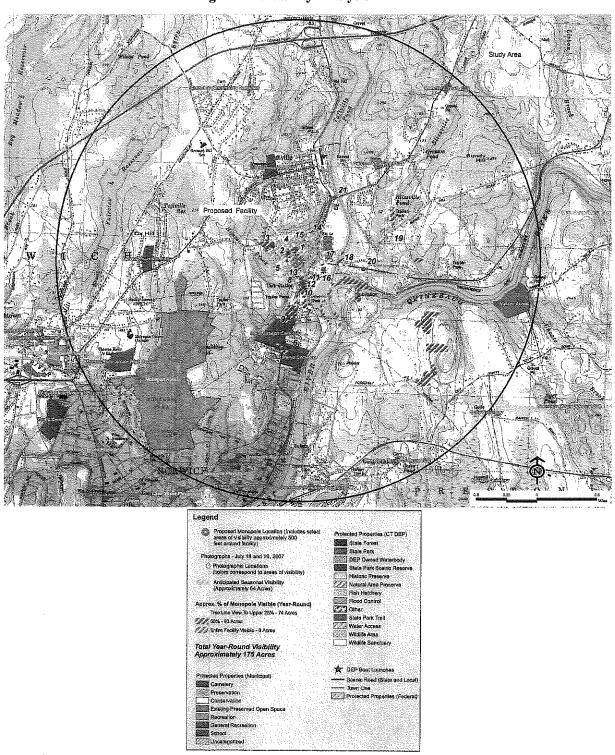


Figure 5: Drive Test Results



(Applicants 3, Attachment D)

Figure 6: Visibility Analysis



(Applicants 1, Exhibit J)

DOCKET NO. 365 - Optasite Towers LLC and Omnipoint }

Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the } Siting construction, maintenance and operation of a telecommunications facility located at 39 Maennerchor Avenue, in the Taftville }

Section of Norwich, Connecticut.

November 20, 2008

Opinion

On June 11, 2008, Optasite Towers LLC (Optasite) and Omnipoint Communications, Inc. (T-Mobile) applied to the Connecticut Siting Council (Council) for a Certificate of Environmental Compatibility and Public Need (Certificate) for the construction, maintenance and operation of a wireless telecommunications facility to be located at 39 Maennerchor Avenue in the Taftville section of Norwich, Connecticut. Optasite and T-Mobile are seeking to develop a facility on a seven acre parcel owned by the Maennerchor Club. The Maennerchor Club property was being used as a social club at the time of application. The applicants' objective in locating a facility at this location is to provide service along State Highway 12, State Highway 97, State Highway 169, and within the Taftville section of Norwich.

Optasite proposes to construct a 120-foot steel monopole within a 65-foot by 65-foot fenced compound on a small knoll in a wooded area of the southerly portion of the Maennerchor Club property. The proposed tower's setback would lie completely within the Maennerchor Club property. Although the facility would be located in a well-wooded area, site plans in the application indicate that trees would be planted around the compound's perimeter to provide additional screening of the equipment at the base of the monopole. Vehicular access to the proposed facility would extend from Beauregard Street approximately 363 feet over a new gravel drive. The driveway would be designed to avoid an outcropping of ledge, resulting in no direct line of sight of the compound from Beauregard Street. Utility service for the proposed facility would be extended underground from an existing utility pole on Beauregard Street and would run adjacent to the gravel access drive. The tower would be designed to accommodate up to four antenna platforms and equipment and Norwich public safety functions. The City of Norwich's fire and police departments have indicated an interest in locating antennas on this tower. Consequently the Council directs the Certificate Holder to the consult with the City of Norwich and incorporate the city's communications needs into the Development and Management Plan.

The proposed tower would be at least partially visible year round from approximately 175 acres within a two-mile radius of the site. It would also be seasonally visible from an additional 64 acres. Most of this acreage is located within one-quarter mile of the tower location. Approximately 30 residences would have partial year round views of the proposed tower, and 14 additional residences would have seasonal views of the proposed tower.

The existing vegetation in the vicinity of the proposed facility consists primarily of mixed mature second-growth hardwoods that include black cherry, sugar maple, red oak, and white oak. The average height of the mature trees in the area is 60 feet. Fifteen trees with a diameter of six inches or more at breast height would be removed during the development of the facility. There are no wetlands present on the Maennerchor Club property. Neither are there any state or federally listed species or significant natural communities located at or in the immediate vicinity of the proposed facility.

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The proposed site is located approximately 2,390 feet to the south of the Taftville Historic District and may be partially or seasonably visible from areas within the district. Despite this, the State Historic Preservation Office has concluded that facility should have no adverse effect upon historic, architectural and archaeological resources associated with the National Register historic district.

The visibility of the proposed tower is of some concern to Council members in this proceeding. However, given the amount of development and terrain in the Taftville area, there are few properties in the near vicinity that could provide an alternate, less intrusive site that would still enable T-Mobile to achieve its coverage objectives.

According to a methodology prescribed by the FCC Office of Engineering and Technology Bulletin No. 65E, Edition 97-01 (August 1997), the combined radio frequency power density levels of the antennas proposed to be installed on the tower have been calculated by Council staff to amount to 3.78% of the FCC's Maximum Permissible Exposure, as measured at the base of the tower. This percentage is well below federal and state standards established for the frequencies used by wireless companies. If federal or state standards change, the Council will require that the tower be brought into compliance with such standards. The Council will require that the power densities be recalculated in the event other carriers add antennas to the tower. The Telecommunications Act of 1996 prohibits any state or local agency from regulating telecommunications towers on the basis of the environmental effects of radio frequency emissions to the extent that such towers and equipment comply with FCC's regulations concerning such emissions.

Based on the record in this proceeding, the Council finds that the effects associated with the construction, operation, and maintenance of the telecommunications facility at proposed site, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with policies of the State concerning such effects, and are not sufficient reason to deny this application. Therefore, the Council will issue a Certificate for the construction, operation, and maintenance of a telecommunications facility that includes a 120-foot steel monopole at 39 Maennerchor Avenue, Norwich, Connecticut.

DOCKET NO. 365 - Optasite Towers LLC and Omnipoint	}	Connecticut
Communications, Inc. application for a Certificate of		
Environmental Compatibility and Public Need for the	}	Siting
construction, maintenance and operation of a telecommunications		
facility located at 39 Maennerchor Avenue in the Taftville section	}	Council
of Norwich, Connecticut.		
		November 20, 2008

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Optasite Towers LLC, hereinafter referred to as the Certificate Holder, for a telecommunications facility at 39 Maennerchor Avenue, Norwich, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

- 1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Omnipoint Communications, Inc. and other entities, both public and private, but such tower shall not exceed a height of 120 feet above ground level.
- 2. Should the certificate holder wish to extend the height of the tower at any time in the future, it shall submit a Petition for a Declaratory Ruling seeking permission of the Council to do so.
- 3. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the City of Norwich for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and

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- b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
- 4. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
- 5. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
- 6. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
- 7. The Certificate Holder shall provide reasonable space on the tower for no compensation for any City of Norwich public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
- 8. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
- 9. Any request for extension of the time period referred to in Condition 8 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the City of Norwich. Any proposed modifications to this Decision and Order shall likewise be so served.
- 10. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
- 11. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.

Docket 365: Norwich Decision and Order

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12. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Norwich Bulletin.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

<u>APPLICANT</u>

Optasite Towers LLC One Research Drive, Suite 200C Westborough, MA 01581

Omnipoint Communications, Inc. 100 Filley Street Bloomfield, CT 06002

ITS REPRESENTATIVE

Carrie L. Larson, Esq. Pullman and Comley, LLC 90 State House Square Hartford, CT 06103-3702

Julie Kohler, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604

CERTIFICATION

The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in **DOCKET NO. 365** - Optasite Towers LLC and Omnipoint Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 39 Maennerchor Avenue, Taftville, Connecticut, and voted as follows to approve the proposed telecommunications site located at 39 Maennerchor Avenue, Taftville, Connecticut:

Council Members	Vote Cast
Daniel F. Caruso, Chairman	Yes
Colin C. Tait, Vice Chairman	Yes
Commissioner Donald W. Downes Designee: Gerald J. Heffernan	Yes
Commissioner Gina McCarthy Designee: Brian Golembiewski	No
Philip T. Ashton	No
Daniel P. Lynch, Jr.	Yes
James J. Murphy. M.	Yes
Burbara Currier Bell Dr. Barbara Currier Bell	Yes
Edward S. Wilensky Edward S. Wilensky	Yes
1/	

Dated at New Britain, Connecticut, November 20, 2008.



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Internet: ct.gov/csc

November 24, 2008

TO:

Parties and Intervenors

FROM:

S. Derek Phelps, Executive Director

RE:

DOCKET NO. 365 - Optasite Towers LLC and Omnipoint Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility

located at 39 Maennerchor Avenue, Taftville, Connecticut.

By its Decision and Order dated November 20, 2008, the Connecticut Siting Council granted a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 39 Maennerchor Avenue, Taftville, Connecticut.

Enclosed are the Council's Findings of Fact, Opinion, and Decision and Order.

SDP/CDM/jb

Enclosures (3)

c: State Documents Librarian



STATE OF CONNECTICUT)
ss. New Britain, Connecticut	:
COUNTY OF HARTFORD)

I hereby certify that the foregoing is a true and correct copy of the Findings of Fact, Opinion, and Decision and Order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

Fred Cunliffe //
Supervising Analyst Supervisor
Connecticut Siting Council

I certify that a copy of the Findings of Fact, Opinion, and Decision and Order in Docket No. 365 has been forwarded by Certified First Class Return Receipt Requested mail, on November 24, 2008, to all parties and intervenors of record as listed on the attached service list, dated June 25, 2008.

ATTEST:

Jessica Brito Office Assistant Connecticut Siting Council

LIST OF PARTIES AND INTERVENORS $\underline{\textbf{SERVICE LIST}}$

	Status Holder	Representative
Status Granted	(name, address & phone number)	(name, address & phone number)
Applicant	Optasite Towers LLC Omnipoint Communications, Inc.	Carrie L. Larson, Esq. Pullman and Comley, LLC 90 State House Square Hartford, CT 06103-3702 860-424-4312 860-424-4370 clarson@pullcom.com Julie Kohler, Esq. Cohen and Wolf, P.C. 1115 Broad Street
		Bridgeport, CT 06604 (203) 368-0211 (203) 394-9901 <u>jkohler@cohenandwolf.com</u>



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Internet: ct.gov/csc

November 24, 2008

TO:

Classified/Legal Supervisor

365080909

Norwich Bulletin 66 Franklin Street Norwich, CT 06360

Classified/Legal Supervisor

365080909

New London Times Day 47 Eugene O'Neill Drive

P.O. Box 1231

New London, CT 06320

FROM:

Jessica Brito, Office Assistant

RE:

DOCKET NO. 365 - Optasite Towers LLC and Omnipoint Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 39 Maennerchor Avenue, Taftville, Connecticut.

Please publish the attached notice as soon as possible, but not on Saturday, Sunday, or a holiday.

Please send an affidavit of publication and invoice to my attention.

Thank you.

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STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Internet: ct.gov/csc

NOTICE

Pursuant to General Statutes § 16-50p (d), the Connecticut Siting Council (Council) announces that, on November 20, 2008, the Council issued Findings of Fact, an Opinion, and a Decision and Order approving an application from Optasite Towers LLC and Omnipoint Communications, Inc. for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 39 Maennerchor Avenue, Taftville, Connecticut.

This application record is available for public inspection in the Council's office, Ten Franklin Square, New Britain, Connecticut

