



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

September 14, 2001

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

Thomas J. Regan, Esq.
Brown, Rudnick, Freed & Gesmer, P.C.
185 Asylum Street, CityPlace I
Hartford, CT 06103-3402

RE: **TS-SPRINT-107-010831** - Sprint Spectrum, L.P. request for an order to approve tower sharing at a telecommunications facility to be located at Orange Transfer Station, South Orange Center Road, Orange, Connecticut.

Dear Attorney Regan:

At a public meeting held September 12, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated August 31, 2001.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Mitchell R. Goldblatt, First Selectman, Town of Orange
Paul Dinice, Zoning Enforcement Officer, Town of Orange

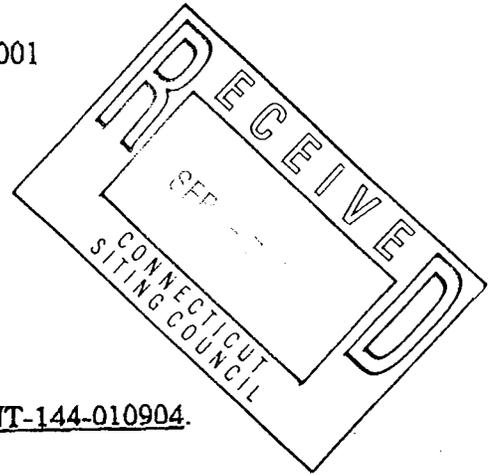
BR
FG BROWN
RUDNICK
FREED &
GESMER

THOMAS J. REGAN
Direct Dial Telephone: (860) 509-6522
E-MAIL: tregan@brfg.com

Via Fax

September 6, 2001

Mr. Robert K. Erling
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051



Re: TS-SPRINT-107-010831 and TS-SPRINT-144-010904.

Dear Bob:

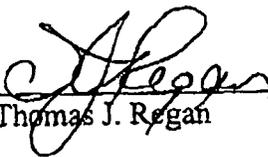
In accordance with your request, I am providing the following information regarding the above referenced tower sharing applications:

1. TS-SPRINT-107-010831. The tower is owned by the Town of Orange and will be located at the Town's transfer station. The Town filed an application with its Planning and Zoning Commission for approval of the tower on July 2, 2001. The application was approved by the Planning and Zoning Commission on July 17, 2001. The Town has reserved space on the tower for public service antennas, but has not finalized its plan to use the space.
2. TS-SPRINT-144-010904. The tower will be located on property owned by the Town of Trumbull. The Trumbull Planning and Zoning Commission recommended approval of the tower at this location on August 16, 2000. The Town has reserved that top spot on the tower for location of its public safety antennas, which are shown on the site plan submitted with the application.

If you have any questions or comments, please do not hesitate to contact the undersigned.

Very truly yours,

BROWN, RUDNICK, FREED & GESMER

By: 
Thomas J. Regan

A Partnership of
Professional Corporations

CITYPLACE I
185 ASYLUM STREET
HARTFORD, CONNECTICUT 06103-3402
860-509-6500
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Boston / Providence / London / Belgium



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Phone: (860) 827-2935
Fax: (860) 827-2950

September 4, 2001

Honorable Mitchell R. Goldblatt
First Selectman
Town of Orange
Town Hall
617 Orange Center Road
Orange, CT 06477-2423

RE: **TS-SPRINT-107-010831** - Sprint Spectrum, L.P. request for an order to approve tower sharing at an existing telecommunications facility located at Orange Transfer Station, South Orange Center Road, Orange, Connecticut.

Dear Mr. Goldblatt:

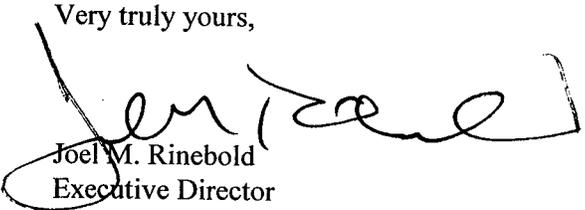
The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for September 12, 2001, at 1:30 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,



Joel M. Rinebold
Executive Director

JMR/RKE/laf

Enclosure: Notice of Tower Sharing

c: Paul Dinice, Zoning Enforcement Officer, Town of Orange



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

September 4, 2001

Honorable Mitchell R. Goldblatt
First Selectman
Orange Town Hall
617 Orange Center Road
Orange, CT 06477-2499

RE: Telecommunications Facility located in Orange, Connecticut.

Dear Mr. Goldblatt:

Thank you for your correspondence dated August 27, 2001.

Thank you for your interest and concern in this very important matter. Your letter will be made part of the record if an application is made.

Yours very truly,

A handwritten signature in black ink, appearing to read 'Joel M. Rinebold', written over a circular stamp or mark.

Joel M. Rinebold
Executive Director

JMR/laf



Town of Orange, Connecticut

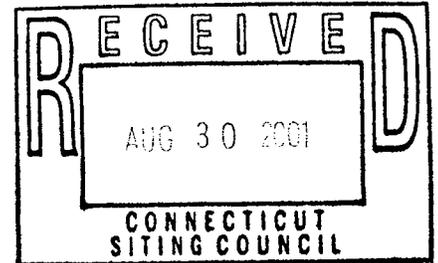
Office of the First Selectman

TOWN HALL
617 ORANGE CENTER ROAD
ORANGE, CONNECTICUT 06477-2499

TELEPHONE: (203) 891-2122
FAX: (203) 891-2185

August 27, 2001

Joel M. Rinebold, Executive Director
State of Connecticut
Connecticut Siting Council
Ten Franklin Square
New Britain, Connecticut 06051



Dear Mr. Rinebold,

It is my understanding that Sprint Spectrum LP will be making an application to the Connecticut Siting Council to co-locate a telecommunications wireless antenna on a soon-to-be constructed monopole at the Orange Transfer Station on South Orange Center Road, Orange.

Please be advised that the Town of Orange is a co-applicant in this application and hereby requests approval of this particular application. The monopole to be constructed by AT&T Wireless is on Town-owned property and has been approved by the Orange Town Plan and Zoning Commission.

If there are any questions or concerns, please contact me.

Thank you for your consideration.

Sincerely,

Mitchell R. Goldblatt
First Selectman

Copy: Town Attorney Brian Stone
Douglas L. Culp, Network Building and Consulting, LLC.

THOMAS J. REGAN
ATTORNEY AT LAW

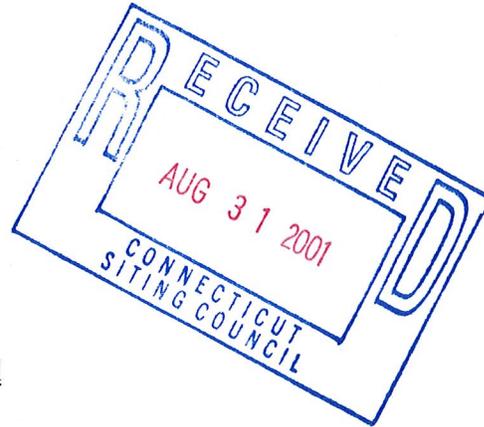
Direct Dial: 860.509.6522
E-Mail: tregan@brfg.com

<http://www.brownrudnick.com>

August 31, 2001

VIA HAND DELIVERY

Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051



RE: Tower Sharing Proposal

Dear Chairman Gelston:

Enclosed please find an original and twenty-five copies of Sprint Spectrum, L.P.'s Tower Sharing Proposal to co-locate on the tower under construction located at the Orange Transfer Station on South Orange Center Road in Orange, Connecticut. Also enclosed is a check for \$500.00 to cover the filing fee.

The First Selectman of the Town of Orange was sent a complete copy of this Tower Sharing Proposal.

Very truly yours,

BROWN RUDNICK FREED & GESMER, P.C.

By: 
Thomas J. Regan

TJR/cmm
Enclosures
cc: Mr. Mitchell R. Goldblatt, First Selectman

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860-509-6500
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CONNECTICUT SITING COUNCIL

In re:

Request of Sprint Spectrum, L.P. d/b/a Sprint :
PCS for the Approval of the Shared Use of the :
Existing Telecommunications Facility Located at :
the Orange Transfer Station on South Orange :
Center Road in Orange, Connecticut : August 31, 2001

TOWER SHARING PROPOSAL

Sprint proposes herein to share a telecommunications tower ("Tower") and associated compound located at the Orange Transfer Station, South Orange Center Road in Orange, Connecticut (collectively, the "Facility"). Pursuant to Connecticut General Statutes § 16-50aa (the "Statute"), Sprint requests a finding from the Connecticut Siting Council ("Council") that the shared use of this Facility is technically, legally, environmentally and economically feasible, will meet public safety concerns, will avoid the unnecessary proliferation of towers and is in the public interest. Sprint further requests an order approving the proposed shared use of this Facility.

The purpose of this request is to use an existing facility to meet Sprint's coverage needs in the Orange area and to avoid the construction of an additional tower in Orange.

A. Existing Facility

The Facility is located at the Orange Transfer Station on South Orange Center Road and is owned by the Town of Orange (the "Town"). (Exhibit A – title sheet with location map).

AT&T Wireless PCS, LLC ("AT&T") is in the process of constructing the one hundred eighty foot (180') the monopole at the Facility (the "Tower") for the Town. AT&T's antenna centerline will be at one hundred seventy-seven feet nine inches (177'-9"). (Exhibit A – drawing SC-1, elevation plan).

B. Proposed Project

Sprint proposes the installation of twelve (12) antennas mounted on a triangular platform with four (4) antennas per sector, with the centerline at one hundred twenty-seven feet nine inches (127'-9"). Sprint also proposes the installation of a small global positioning system antenna at fifty feet (50') on the southwest side of the Tower. The base station equipment associated with the antennas will be located in a fifteen feet by twenty-five feet (15' x 25') lease area at the base of the Tower inside the existing compound area. The concrete equipment pad measures approximately eight feet and six inches by twenty feet (8'-6" x 20') and is equipped with a ten foot by twenty foot (10' x 20') ice cover. (Exhibit A - drawing SC-1, elevation plan).

C. Technical Feasibility

Consistent with the requirements of the Statute, it is technical feasible for Sprint to co-locate on this Tower. The existing monopole was designed and constructed to support six (6) carriers. Sprint will be the second carrier located on the Tower. The structural capability of the Tower is described in a Structural Tower Analysis from URS Corporation dated August 29, 2001, which is attached as Exhibit B.

Sprint has reviewed AT&T's proposed communication facility for this Tower and has determined interference is unlikely due to the position and vertical separation of Sprint's antennas. If any interference should occur, Sprint will correct it after the antennas are installed.

D. Legal / Economic Feasibility

Sprint has entered into a license agreement with the Town of Orange for the purpose of locating Sprint's antennas and associated equipment at the Facility. The Council has the authority pursuant to the Statute to issue orders approving the shared use of the Facility. Therefore, consistent with the Statute, the proposal is both economically and legally feasible.

E. Environmental Feasibility

Pursuant to the Statute, the proposal will be environmentally feasible for the following reasons:

- The overall impact on the Town of Orange will be decreased with the sharing of a singular tower versus the proliferation of many towers.
- The proposal will not increase the height of the Tower or the size of the compound.
- The proposal will have an insignificant visual impact with the addition of four panel antennas per sector.
- There will be no increased impact on any wetlands or water resources.

- There will be no increased impact on air quality because no air pollutants will be generated during the normal operation of the Facility.
- There will only be a brief, slight increase in noise pollution during the construction of the equipment building pad and the attachment of the antennas.
- During construction, the proposed project will generate a small amount of traffic as workers arrive and depart and materials are delivered. Upon completion, traffic will be limited to an average of one monthly maintenance and inspection visit.
- The total frequency electromagnetic radiation of the power density measured at the site will not be at or above the standard adopted by the Federal Communications Commission. Attached as Exhibit C is a worst case power density analysis for the operation of Sprint PCS's antennas at the Facility as measured at the base of the Tower and a cumulative analysis for Sprint's and AT&T's antennas. The power density for the proposed installation, calculated at the base of the existing Tower, is 0.148213 mW/cm^2 for Sprint and 0.009770 mW/cm^2 for AT&T. The cumulative maximum permissible exposure is 15.7983% based on the NCRP standard. These calculations show that Sprint will be well below the FCC mandated limits in all locations around the existing Tower, even with extremely conservative assumptions.

F. Public Safety Concerns / Benefits

In accordance with the Statute, there are no known public safety concerns associated with this proposal. Moreover, Sprint will be enhancing the communication needs of the citizens of the community. This section of Orange is a mixture of residential and commercial properties and contains roads with significant levels of traffic. By locating its antennas on this Tower, Sprint will be providing coverage to the southeast section of Orange. More specifically, Sprint will provide coverage for approximately three and four tenths (3.4) miles along I-95, four and six tenths (4.6) miles along Route 1, two and one tenth (2.1) miles along Route 162, two (2) miles along Indian River Road, two and one tenth (2.1) miles along Old Tavern Road, one and one tenth (1.1) miles along Peck Lane, one (1) mile along Woodruff Road and nine tenths (.9) of a mile along Orange Center Road.

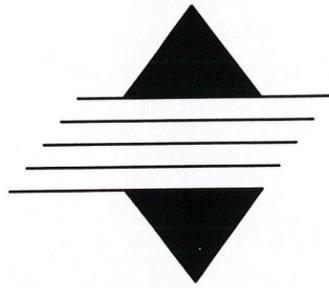
Conclusion

For the reasons stated above, the attachment of Sprint's antennas to this Tower would meet all the requirements set forth in the Statute. This proposal is technically, legally, environmentally and economically feasible and meets all public safety concerns. Therefore, Sprint respectfully requests that the Council approve this request for the shared use of the existing telecommunications facility located at the Orange Transfer Station located at South Orange Center Road in Orange, Connecticut.

Sprint Spectrum, L.P.
d/b/a Sprint PCS

By:  _____
Thomas J. Regan, Esq.
Brown, Rudnick, Freed & Gesmer, P.C.
185 Asylum Street, CityPlace I
Hartford, CT 06103-3402
Phone - (860) 509-6522
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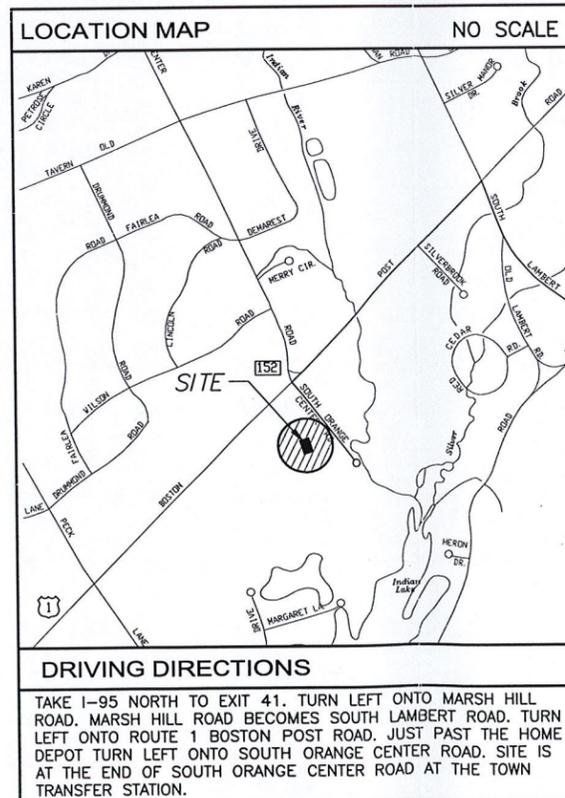


Sprint PCS

SITE I.D.# CT13XC263

ORANGE TRANSFER STATION
 SOUTH ORANGE CENTER ROAD
 ORANGE, CONNECTICUT 06477

GENERAL NOTES	
1. ADA COMPLIANCE: FACILITY IS NOT STAFFED AND NOT NORMALLY OCCUPIED, THEREFORE, NO SEPTIC OR POTABLE WATER IS REQUIRED. 2. REFERENCE IS MADE TO THE SURVEY MAP ENTITLED "PARTIAL BOUNDARY & TOPOGRAPHIC SURVEY LAND OF TOWN OF ORANGE, SOUTH ORANGE CENTER RD. ORANGE, CONNECTICUT --PREPARED FOR SPRINT PCS".	
PROJECT DESCRIPTION	
INSTALLATION OF A WIRELESS TELECOMMUNICATIONS FACILITY TO BE LOCATED IN AN EXISTING COMPOUND. SPRINT PCS ANTENNAS TO BE LOCATED ON AN EXISTING 180' MONOPOLE AND EQUIPMENT WILL BE GROUND MOUNTED.	
LEGAL DESCRIPTION	
SITE NAME:	ORANGE TRANSFER STATION
ASSESSOR'S PARCEL NO.:	MAP -13 LOT - 1A BLOCK - 7
PROPERTY OWNER:	TOWN OF ORANGE 617 ORANGE CENTER ROAD ORANGE, CT. 06477
CONTACT PERSON:	MITCHELL R. GOLDBLATT - FIRST SELECTMAN 617 ORANGE CENTER ROAD ORANGE, CONNECTICUT 06477
PROJECT INFORMATION	
SITE ADDRESS:	SOUTH ORANGE CENTER RD. ORANGE, CONNECTICUT 06001
PROJECT DIRECTORY	
APPLICANT:	SPRINT SPECTRUM PL dba SPRINT PCS 1 INTERNATIONAL BOULEVARD 8th, FLOOR MAHWAH, NJ 07495
ENGINEER:	URS CORPORATION, A.E.S. 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067 (860) 529-8882
LAND SURVEYOR:	URS CORPORATION, A.E.S. 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067 (860) 529-8882
SHEET INDEX	
T-1	TITLE SHEET
SC-1	ELEVATION AND PARTIAL SITE PLAN



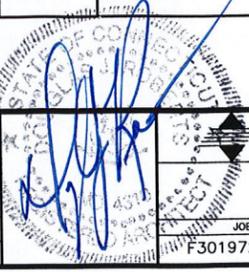
P:\Telecom\F03\T-1.dwg, 08/31/01 09:43:31 AM

URS CORPORATION AES
 500 ENTERPRISE DRIVE
 ROCKY HILL, CONNECTICUT
 1-(860)-529-8882

ORANGE TRANSFER STATION
 SOUTH ORANGE CENTER ROAD
 ORANGE, CONNECTICUT 06477
 CT13XC263

Sprint PCS
 HARTFORD MTA

NO.	DATE	REVISIONS	BY	CHK	APP'D



Sprint PCS
 TITLE SHEET
 JOB NO. F301972.78/F03
 DRAWING NUMBER T-1
 REV 2



August 29, 2001

Mr. Mortimer A. Gelston
Chairman
Connecticut State Siting Council
10 Franklin Square
New Britain, CT 06051

**Reference: Proposed Telecommunications Facility
Sprint Site No.: CT13XC263
South Orange Center Road
Orange, Connecticut
F300001972.78**

Dear Mr. Gelston:

URS has performed a review and evaluated the proposed 180' monopole to be located at South Orange Center Road in Orange, CT. The purpose of our review was to evaluate the effect of the proposed Sprint PCS communication antenna arrangement on the monopole designed by Paul J. Ford and Company, Project No. 20501-0701 dated August 7, 2001 and its revised foundation dated August 28, 2001. The proposed and existing antenna inventory and mounts considered in this evaluation are listed below.

<u>Antennas and Platform</u>		<u>Antenna Center Elevation</u>
(12) EMS RR90-17-02DP with low profile platform and associated 1 5/8" coax cable within monopole	AT&T (proposed)	@ 180' elevation
(12) DB980H65T2E-M with low profile platform and associated 1 5/8" coax cable within monopole	Sprint (proposed)	@ 127' 9" elevation

This evaluation is based on the requirement that all carrier antenna cables be placed within the monopole. It is our determination that the existing monopole as designed and its foundation are in compliance with the CT State Building Code and have the capacity to carry the proposed AT&T and Sprint PCS antennas as specified above.

The above evaluation is based on requirements of EIA/TIA-222-F dated March 1996.

Sincerely,

URS Corporation AES

Mohsen Sahirad
Mohsen Sahirad, P.E.
Senior Structural Engineer



MS/mks

cc: B. Phair - Sprint PCS
John Luisi - Pyramid
Alitz Abadjian - URS
D.R. - URS
I. A. - URS
CF/Book

URS Corporation
500 Enterprise Drive, Suite 3B
Rocky Hill, CT 06067
Tel: 860.529.8882
Fax: 860.529.3991

Power Density Analysis Table

Site Name: CT13XC263 - South Orange Center Road, Orange, CT
 Worst Case Power Density Analysis of Sprint PCS Antennas @ Base of Tower. Assumes Max ERP & No Antenna Pattern Adjustment

Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Total ERP (Watts)	Antenna Height (Feet)	Distance From Base of Tower (Feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure*	%MPE
1962.5	11	603.67	6640.37	127	0	0.148213	1	14.8213%
1962.5	11	603.67	6640.37	127	50	0.128323	1	12.8323%
1962.5	11	603.67	6640.37	127	100	0.091490	1	9.1490%
1962.5	11	603.67	6640.37	127	150	0.061884	1	6.1884%
1962.5	11	603.67	6640.37	127	200	0.042590	1	4.2590%
1962.5	11	603.67	6640.37	127	250	0.030403	1	3.0403%
1962.5	11	603.67	6640.37	127	300	0.022525	1	2.2525%
1962.5	11	603.67	6640.37	127	350	0.017244	1	1.7244%
1962.5	11	603.67	6640.37	127	400	0.013573	1	1.3573%
1962.5	11	603.67	6640.37	127	450	0.010934	1	1.0934%
1962.5	11	603.67	6640.37	127	500	0.008983	1	0.8983%

*Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992

CT13XC263 - South Orange Center Road, Orange, CT
 Cumulative Power Density Analysis of Sprint PCS & AT&T Antennas

Operator	Operating Frequency (MHz)	Distance to Target (ft)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE
<i>Sprint</i>	1962.5	127	0.148213	1.0000	14.8213%
<i>AT&T</i> ¹	1965-1970	180	0.009770	1.0000	0.9770%
Total Percentage of Maximum Permissible Exposure					15.7983%

¹ Information taken from 04/10/2001 Power Density Information prepared by AT&T.

*Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992