

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@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

May 24, 2002

Kenneth C. Baldwin
Robinson & Cole
280 Trumbull Street
Hartford, CT 06103-3597

RE: **TS-VER-107-020508** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at South Orange Center Road, Orange, Connecticut.

Dear Attorney Baldwin:


At a public meeting held on May 21, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated May 8, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. 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 will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of 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.

Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/BM/laf

c: Honorable Mitchell R. Goldblatt, First Selectman, Town of Orange
Paul Dinice, Zoning Enforcement Officer, Town of Orange
Christopher B. Fisher, Esq., Cuddy & Feder & Worby LLP
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLP



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May 15, 2002

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

RE: **TS-VER-107-020508** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at South Orange Center Road, Orange, Connecticut.

Dear Mr. Goldblatt:

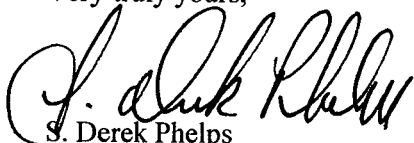
The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for May 21, 2002, 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,

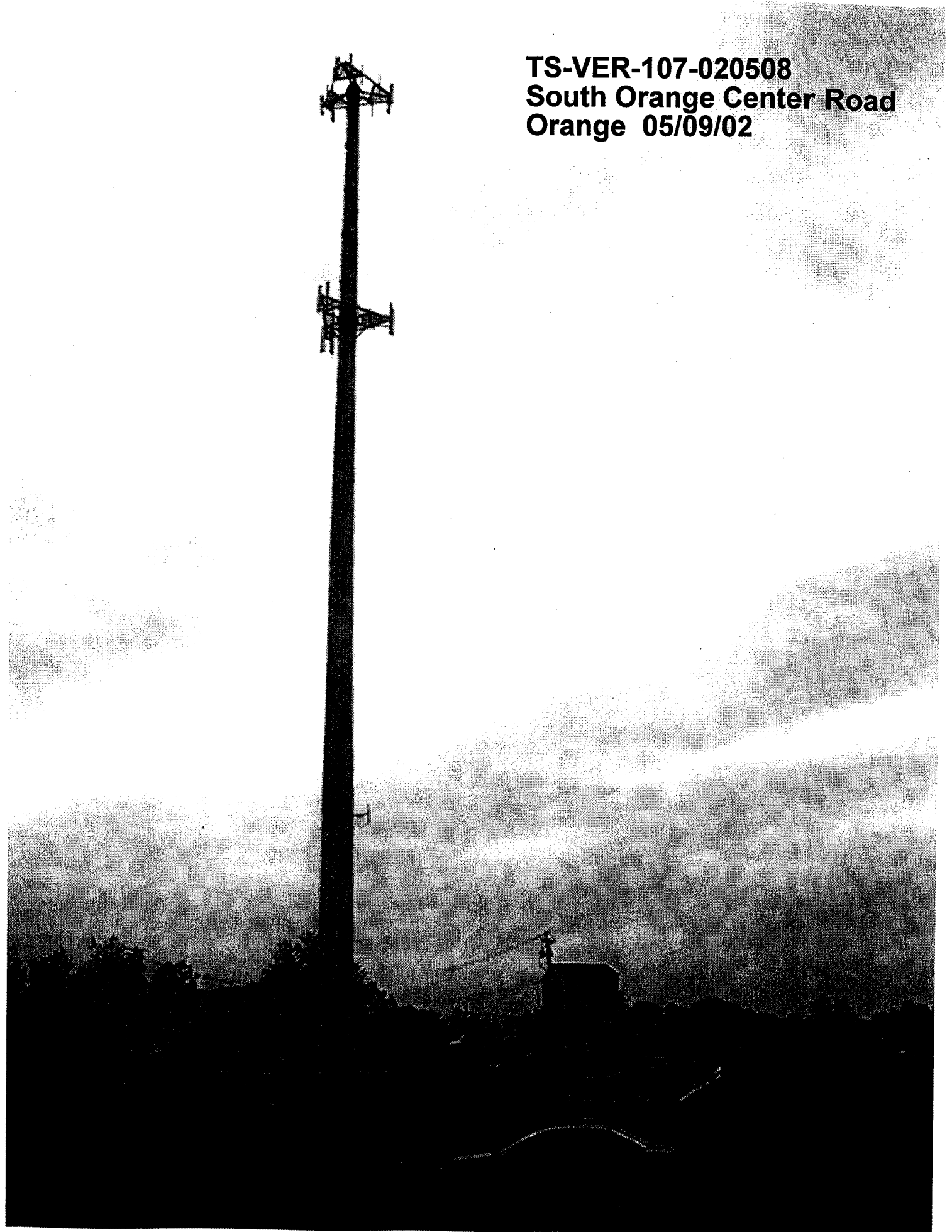

S. Derek Phelps
Executive Director

SDP/esc

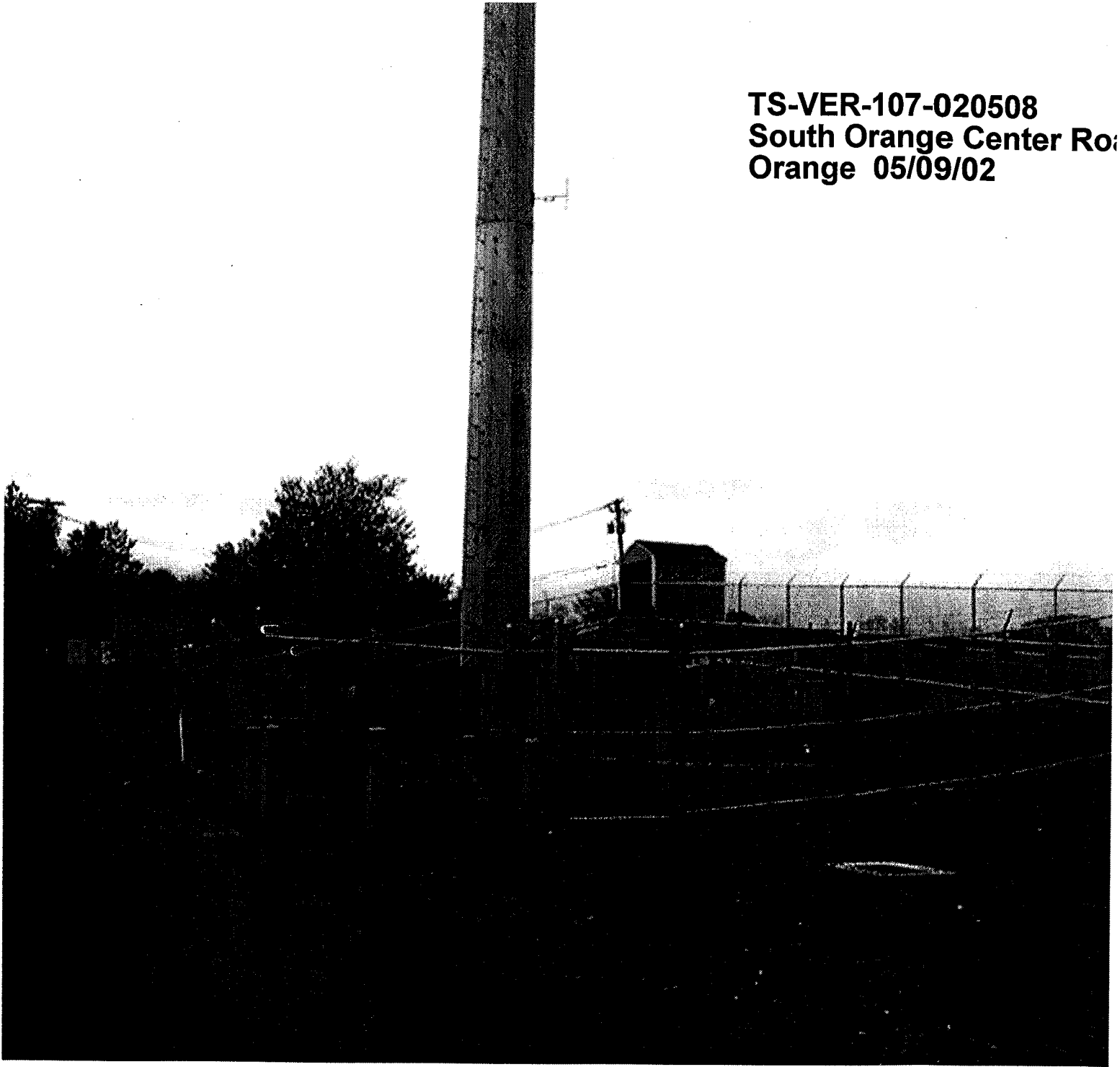
Enclosure: Notice of Tower Sharing

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

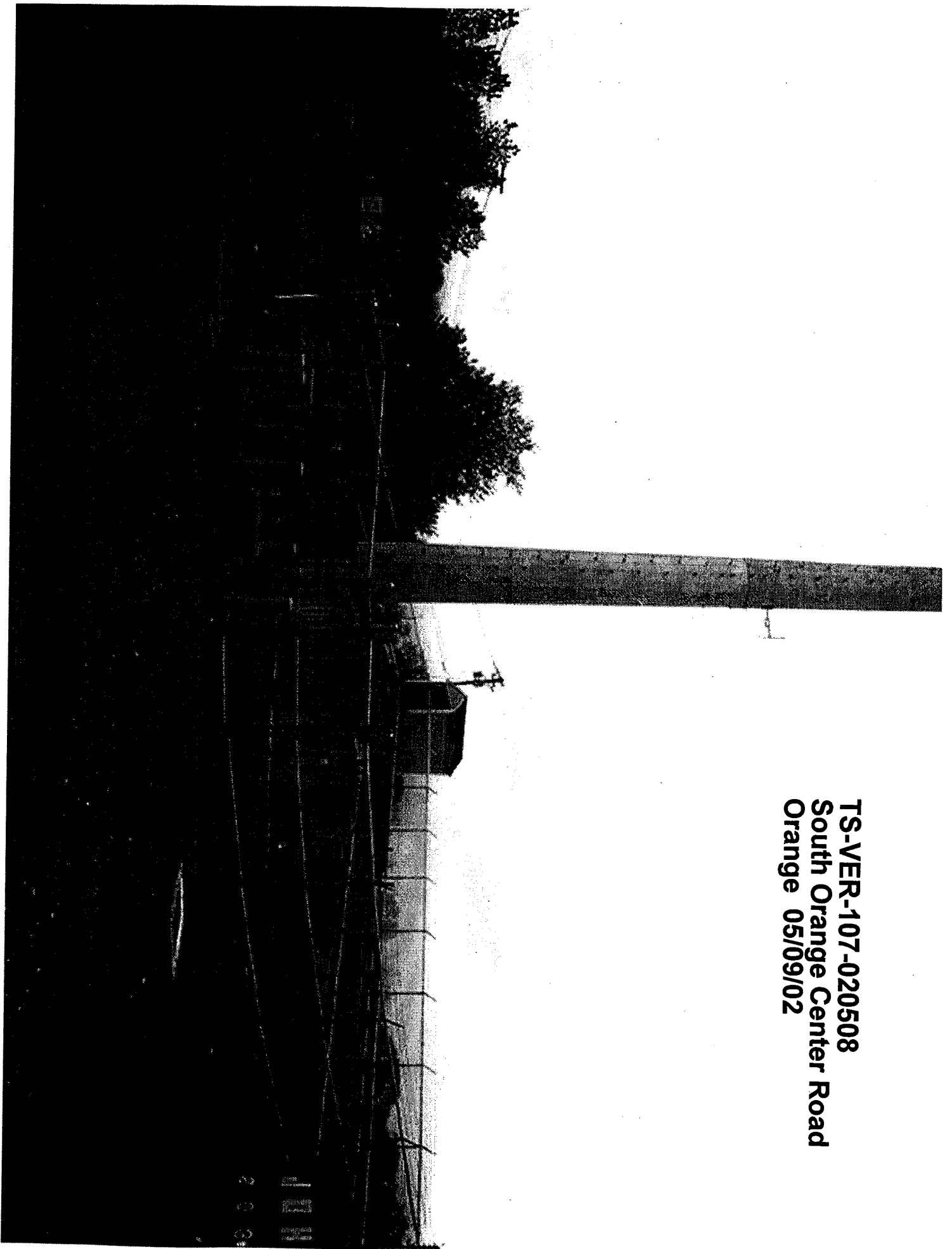
TS-VER-107-020508
South Orange Center Road
Orange 05/09/02



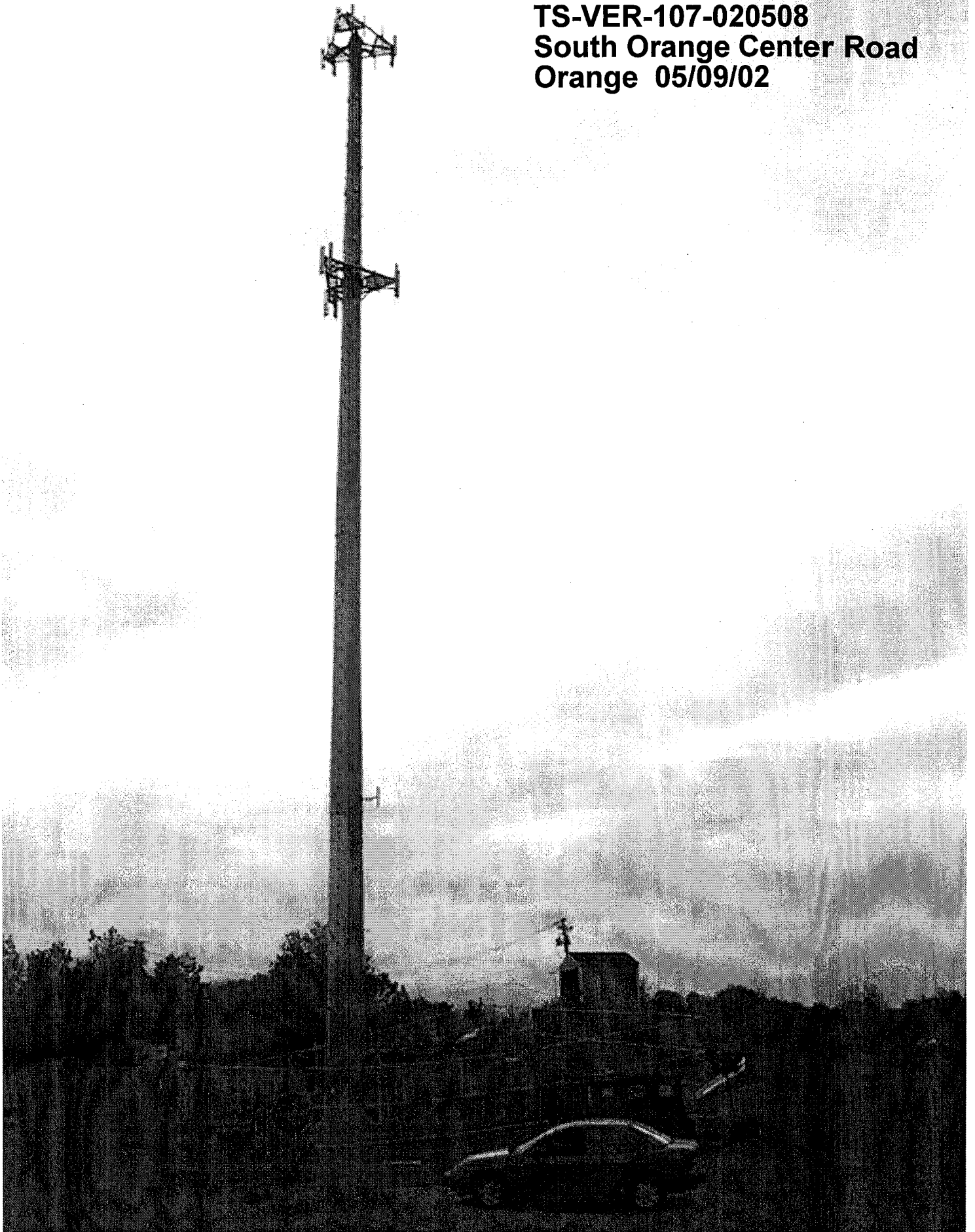
TS-VER-107-020508
South Orange Center Road
Orange 05/09/02



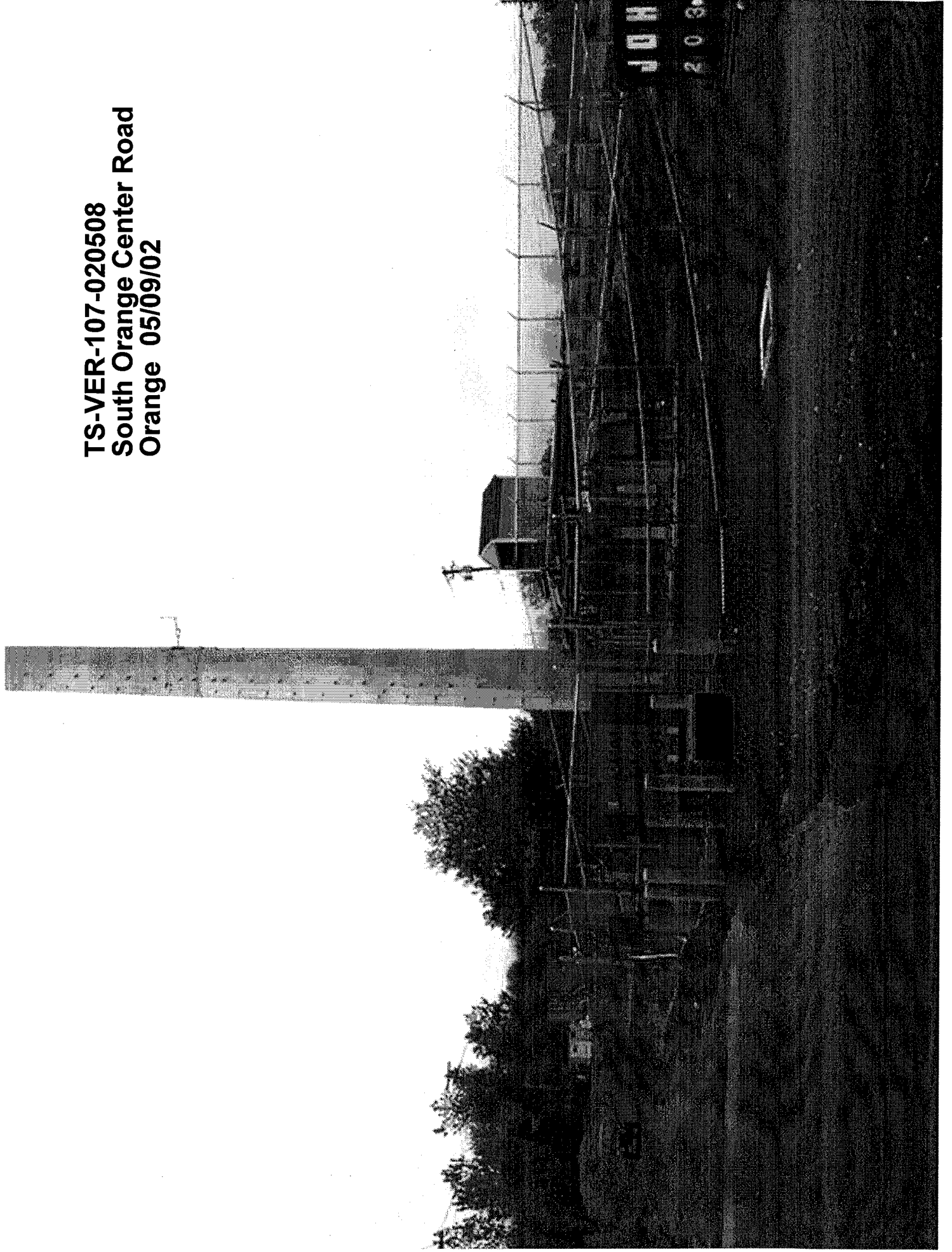
TS-VER-107-020508
South Orange Center Road
Orange 05/09/02

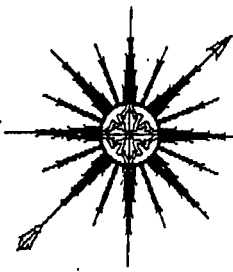


TS-VER-107-020508
South Orange Center Road
Orange 05/09/02



TS-VER-107-020508
South Orange Center Road
Orange 05/09/02





ALL-POINTS TECHNOLOGY CORPORATION, P.C.

July 31, 2003

Crown Castle Atlantic
500 West Cummings Park
Suite 3400
Woburn, MA 01801

Attn: Lincoln Erhard
Re: AT&T Wireless Antenna Additions
212' ROHN SSMW Tower
Clinton, Connecticut
Crown BU #806363

Dear Lincoln,

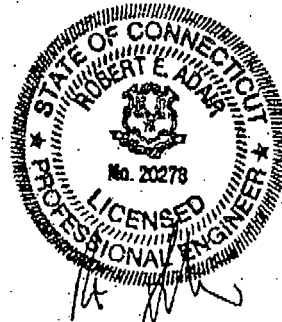
All-Points Technology Corporation, P.C. performed a structural analysis of Crown Castle's 212' ROHN SSMW tower located at 48 Cow Hill Road in Clinton, Connecticut. The tower was analyzed in accordance with EIA/TIA-222-F, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures for AT&T Wireless' proposed three DB978QNB120 panel antennas to be installed on existing mounts at 180'. Waveguide cables are to be twelve 1-5/8" and three 7/8" cables.

Our analysis indicates the tower and foundation are capable of supporting AT&T's proposed antennas. Waveguide cables must be installed on the inside of an existing waveguide ladder or stacked on existing waveguide cables.

We appreciate this opportunity to provide our services to you. Please call if you have any questions.

Sincerely,
All-Points Technology Corporation, P.C.

Robert E. Adair, P.E.
Principal



CT105392 Clinton 7-31-03 ltr.doc

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

May 8, 2002

Via Hand Delivery

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

RECEIVED

MAY - 8 2002

CONNECTICUT
SITING COUNCIL

Re: **Request of Cellco Partnership d/b/a Verizon Wireless for an Order to
Approve the Shared Use of a Tower Facility at South Orange Center Road,
Orange, Connecticut**

Dear Mr. Gelston:

Pursuant to Connecticut General Statutes §16-50aa, as amended, Cellco Partnership d/b/a Verizon Wireless ("Cellco") hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared use by Cellco of an existing tower, owned by the Town of Orange ("Town" or "Orange") located off South Orange Center Road, Orange, Connecticut. Cellco requests that the Council find that the proposed shared use of the tower satisfies the criteria stated in Connecticut General Statutes § 16-50aa and issue an order approving the proposed use.

Background

The Town of Orange tower off South Orange Center Road is a 180-foot self-supporting monopole structure within an approximately 50' x 90' fenced compound. The tower is currently owned and operated by the Town and shared by AT&T and Sprint.

Cellco is licensed by the Federal Communications Commission (FCC) to provide cellular wireless telephone service in the State of Connecticut, which includes the area to be served by Cellco's proposed Orange installation. Cellco and the Town have agreed to the proposed shared use of this tower pursuant to mutually acceptable terms and conditions, and the Town has authorized Cellco to act on its behalf to apply for all



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HART1-1019219-1

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Page 2

necessary local, state and federal permits, approvals, and authorizations which may be required for the proposed shared use of this facility.

Cellco proposes to install twelve (12) panel-type antennas at the 117-foot level on the tower. The radio transmission equipment associated with these antennas would be located in a new 12' x 30' equipment building located near the base of the tower. The building will house Cellco's radio equipment and a propane back-up generator. A 1,000 gallon propane tank will be installed approximately 15 feet south of the Cellco building.

C.G.S. § 16-50aa(c)(1) provides that, upon written request for approval of a proposed shared use, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use." The shared use of the tower satisfies those criteria as follows:

A. Technical Feasibility. The existing tower is structurally capable of supporting the proposed Cellco antennas. The proposed shared use of this tower therefore is technically feasible. Attached is a statement verifying that the tower can support the proposed antennas.

B. Legal Feasibility. Under C.G.S. § 16-50aa, the Council has been authorized to issue orders approving the proposed shared use of an existing tower facility, such as the facility off South Orange Center Road in Orange. This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. In addition, § 16-50x(a) directs the Council to "give such consideration to other state laws and municipal regulations as it shall deem appropriate" in ruling on requests for the shared use of existing towers facilities. Under the statutory authority vested in the Council, an order by the Council approving the requested shared use would permit the Applicant to obtain a building permit for the proposed installations.

The Council's authority notwithstanding, the Town asked Cellco to submit information for review and approval by the Orange Planning and Zoning Commission ("PZC"). On May 7, 2002, the PZC voted unanimously to approve the proposed shared use of the tower by Cellco.

C. Environmental Feasibility. The proposed shared use would have a minimal environmental effect, for the following reasons:



Mortimer A. Gelston

May 8, 2002

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1. The proposed installations would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing site. In particular, the proposed installations would not increase the height of the existing tower, and would not extend the boundaries of the tower site outside the limits of the existing site compound.
2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.
3. Operation of Cellco antennas at this site would not exceed the total radio frequency (RF) electromagnetic radiation power density level adopted by the Federal Communications Commission. A table of the "worst-case" exposure calculated for operation of this facility (i.e., calculated at the base of the tower) is attached.
4. The proposed installations, would not require any water or sanitary facilities, or generate air emissions or discharges to water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is complete the proposed installations would not generate any traffic other than periodic maintenance visits.

The proposed use of this facility would therefore have a minimal environmental effect, and is environmentally feasible.

E. Economic Feasibility. As previously mentioned, the Town and Cellco have entered into a mutual agreement to share the use of the replacement tower on terms agreeable to the parties. The proposed tower sharing is therefore economically feasible.

F. Public Safety Concerns. As stated above, the tower will be structurally capable of supporting the Cellco antennas. Cellco is not aware of any public safety concerns relative to the proposed sharing of the existing tower. In fact, the provision of new or improved phone service through shared use of the existing tower is expected to enhance the safety and welfare of area residents.



Mortimer A. Gelston

May 8, 2002

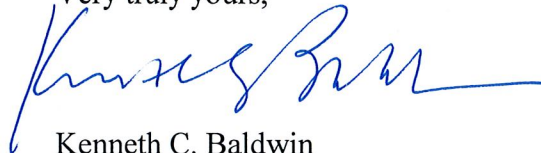
Page 4

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower off South Orange Center Road in Orange satisfies the criteria stated in C.G.S. § 16-50aa and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in Connecticut. The Applicant therefore requests that the Siting Council issue an order approving the proposed shared use.

Thank you for your consideration of this matter.

Very truly yours,



Kenneth C. Baldwin

KCB/kmd

Attachments

cc: Mitchell R. Goldblatt, Orange First Selectman
Brian M. Stone, Orange Town Attorney
Sandy M. Carter





May 1, 2002

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

**Reference: Proposed Telecommunications Facility
Verizon Wireless
Orange Transfer Station
Orange, Connecticut
F300001825.42**

Dear Mr. Gelston:

URS Corporation (URS) conducted a review and evaluated the existing 180' monopole structure located at the Orange Transfer Station in Orange, Connecticut. The purpose of this review was to evaluate the affect of the proposed Verizon Wireless antennas and mount on the monopole structure. The monopole and its foundation were designed by Paul J. Ford and Company project no. 20501-0701 dated August 7, 2001 and its revised foundation dated August 28, 2001. The structure is designed to support six telecommunications carriers between the elevations of 127' 9" - 180'. The tower currently supports two carriers. The proposed Verizon antennas and mount considered in this review are as listed below.

Antenna and Mount	Carrier	Antenna Center Elevation
(12) DB844H90 antennas on low profile platform with (12) 1 5/8" coax cables within the monopole	Verizon (proposed)	117'

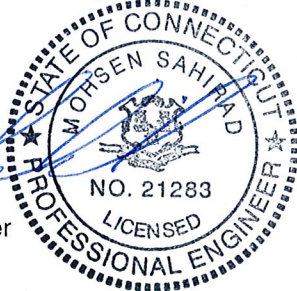
This evaluation is based on the requirements that all carrier antenna cables are to be placed within the monopole. It is our determination that the existing monopole and its foundation have sufficient structural capacity to support the existing two carriers and the proposed Verizon antennas and mount as specified above. This evaluation is based on requirements of the TIA/EIA-222-F dated March 1996 and the Connecticut State Building Code dated 1999 and the latest supplement and amendments.

If you should have any questions, please call.

Sincerely,

URS Corporation AES


Mohsen Sahirad, P.E.
Senior Structural Engineer



MS/rmn

Cc: Mark Gauger - Verizon
Douglas J. Roberts, AIA - URS
Naish Artaiz, AIA - URS
CF/Book

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

General Power Density

Site Name: Orange 4
Tower Height: Verizon - 117 Ft

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure (mW/cm ²)	Fraction of MPE (%)
Verizon	880	9	200	1800	117	0.0473	0.56733	8.34%
ATT	1900	8	100	800	180	0.0089	1	0.89%
Sprint	1900	11	122	1342	127	0.0299	1	2.99%

Total Percentage of Maximum Permissible Exposure

12.20%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power