

Bell Atlantic NYNEX Mobile  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492  
Telephone: 203-269-8858

**RECEIVED**

AUG 01 1997

CONNECTICUT  
SITING COUNCIL  
August 1, 1997

Mr. Joel M. Rinebold, Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: Bell Atlantic NYNEX Mobile - Union Cell Site

Dear Mr. Rinebold:

Cellco Partnership d/b/a Bell Atlantic NYNEX Mobile (the "Company") plans to install cellular antennas and related equipment at the proposed tower facility owned by Wayne Kemp and Kathy Lee Kemp in Union, Connecticut. Please accept this letter as notice of intent, pursuant to R.C.S.A. Section 16-50j-73, of the placement of associated equipment on an existing non-facility tower pursuant to R.C.S.A. Section 16-50j-72(c). In further compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the First Selectman of Union.

The existing non-facility tower is a 160' lattice tower located at 1050 Buckley Highway, Union, Connecticut. The Company plans to install twelve panel-type cellular antennas and one G.P.S. antenna on the tower. The Company will also install a single story, approximately 12' x 30' equipment building which will contain radio transmission equipment. In addition, Bell Atlantic NYNEX Mobile will install a diesel generator for emergency use. The generator will be installed following receipt of the required DEP permit.

The addition of Bell Atlantic NYNEX Mobile's antennas and equipment to the tower site does not constitute a substantial environmental affect since such additions do not cause a significant change or alteration in the physical and environmental characteristics of the site (see attached site sketch). Rather, the planned changes to the existing non-facility tower falls squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(c).

First, the height of the existing tower will be unaffected. Twelve antennas, Swedcom Model ALP-E 9011 will be mounted, four per sector on a triangular platform to be attached to the tower. The center of radiation will be 150' AGL. The G.P.S. antenna will be mounted from the tower leg at approximately 90' AGL. The tower will not require any structural modification to support the proposed attachments.

Second, the proposed addition will not extend the site boundaries. The proposed equipment building will be located within the tower compound area on a parcel of land

approximately 50' x 50' which will be leased to Bell Atlantic NYNEX Mobile (see attached site sketch).

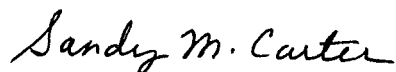
Third, the proposed addition will not increase the noise levels at the existing facility by six decibels or more.

Fourth, operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to a level at or above the ANSI standard. A worst case calculation at the base of the tower indicates that Bell Atlantic NYNEX Mobile's operation would result in a power density level of 0.030 mW/cm<sup>2</sup>. This power density level is 5.21% of the standard for cellular frequencies (875 Mhz) of 0.583 mW/cm<sup>2</sup>.

Finally, the necessary municipal approvals and permits have been received for the project. Attached is a signed copy of the zoning and special permit for the facility and the building permit.

For the foregoing reasons, Bell Atlantic NYNEX Mobile seeks a ruling that its proposed additions to the non-facility tower would not cause a significant change or alteration in the physical and environmental characteristics of the site pursuant to R.C.S.A. Section 16-50j-72(c)(1). The Company further submits that the changes comply with R.C.S.A. Sections 16-50j-72(c), (2) through (5) and therefore request a determination that the placement of the antennas and equipment on the existing non-facility tower site does not constitute a substantial environmental effect under R.C.S.A. Section 16-50j-72(c).

Very truly yours,



Sandy M. Carter, Manager  
Real Estate/Zoning

Attachments

cc: Honorable Albert L. Goodhall, Jr., Town of Union

	<p><b>TOWER LOCATION PLAN</b></p>
<p>PROJECTED FOR WAYNE KELAP</p>	<p>194TH, GRAND CLEVELAND</p>
<p>CONTRACT NO. 171</p>	<p><b>NOBBLON ENGINEERING</b></p>
<p>CITY ENGINEERING AND LAND PLANNING</p>	<p>315 BERT STREET - PORTLAND, OREGON 97204 (503) 837-8118</p>
<p>DATE: 12/18/81</p>	<p>BY: [Signature]</p>
<p>FOR: [Signature]</p>	<p>12/18/81</p>

Bell Atlantic NYNEX Mobile  
20 Alexander Drive  
P.O. Box 5029  
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August 1, 1997

The Honorable Albert L. Goodhall, Jr., First Selectman  
Town of Union  
Town Hall  
Route 171, 1024 Buckley Highway  
Union, Connecticut 06076

Dear First Selectman Goodhall:

Bell Atlantic NYNEX Mobile (the "Company") plans to install antennas and associated equipment at the proposed tower facility owned by Wayne and Kathy Lee Kemp and located at 1050 Buckley Highway in Union. As required by Section 16-50j-73 of the Regulations of Connecticut State Agencies (R.C.S.A.), please accept this letter and the attached letter to the Connecticut Siting Council dated August 1, 1997, as notice of intent of the placement of associated equipment on a proposed non-facility tower pursuant to R.C.S.A. Section 16-50j-72(c).

The attached letter fully sets forth the Company's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please contact the undersigned at (203)294-8519 or Mr. Joel Rinebold, Executive Director, Connecticut Siting Council at (860)827-2935.

Sincerely,

*Sandy M. Carter*

Sandy M. Carter, Manager  
Real Estate/Zoning

Enclosure

TOWN OF UNION

# BUILDING PERMIT

Date 7-27-97No. 9719Est. Value \$ 32,000Bldg. Permit Fee 296<sup>00</sup>Land Use #TOTAL FEE 296<sup>00</sup>**A PERMIT MUST BE OBTAINED AND FEE PAID BEFORE BEGINNING WORK.**

This card must be kept posted until final inspection has been made and bottom half returned to the Building Inspector's Office before the building is occupied and a Certificate of Occupancy is issued.

The undersigned hereby applies for permit to do work according to the following specifications, same to be in all respects in accordance with the laws and building regulations of the State of Connecticut, Basic Building Code, Land Use regulations and ordinances of the Town of Union, Connecticut. A final inspection is required before the building can be occupied or a Certificate of Use or Occupancy is issued.

APPLICATION MUST BE TYPED OR PRINTED

Owner Wayne Kemp Street 1050 Buckley Highway Phone 684-3060

Lot No. \_\_\_\_\_ House No. \_\_\_\_\_ Road \_\_\_\_\_

Owner of land Same Address \_\_\_\_\_ Phone \_\_\_\_\_Builder Same Address \_\_\_\_\_ Phone \_\_\_\_\_

Architect \_\_\_\_\_ Address \_\_\_\_\_ Phone \_\_\_\_\_

Type of building 160' Tower Size of building \_\_\_\_\_

Floor area 1st floor \_\_\_\_\_ 2nd floor \_\_\_\_\_ Total \_\_\_\_\_

Type of heat: Hot Water ☐ Hot Air ☐ Steam ☐ Electric ☐ Wood ☐Type of work: Original ☐ Alteration ☐ Addition ☐ Repair ☐ Demolish ☐Approvals: Septic Perc ☐ Wetlands ☐ Driveway ☐ Fire Marshal ☐ Planning ☐

Signature \_\_\_\_\_ Building Official \_\_\_\_\_

**DO NOT DESTROY OR MUTILATE.  
POST THIS CARD SO IT IS VISIBLE FROM STREET.  
INSPECTIONS MUST BE APPROVED AND THIS CARD  
RETURNED TO THE BUILDING DEPT. OFFICE  
BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED.**

Owner of land \_\_\_\_\_ Address \_\_\_\_\_ Phone \_\_\_\_\_

BUILDING INSPECTION APPROVALS	PLUMBING INSPECTION APPROVALS	ELECTRICAL INSPECTION APPROVALS	
1 FOOTINGS	1 ROUGH	1 ROUGH	
2 FOUNDATION	2 FINISH	2 FINISH	
3 FRAMING	HEATING INSPECTION APPROVALS	FIREPLACE	CHIMNEYS
	1 ROUGH	1 ROUGH	
4 INSULATION	2 FINISH	2 FINISH	

Work shall not proceed until the Inspector has approved the various stages of construction.

PERMIT WILL BECOME NULL AND VOID IF CONSTRUCTION WORK IS NOT STARTED WITHIN SIX MONTHS OF DATE THE PERMIT IS ISSUED AS NOTED ABOVE.

Inspections indicated on this card can be arranged for by telephone or personal written notification.

Building Official

Copy Distribution:

White - Planning & Zoning Commission  
Yellow - Building Inspector - Ed Staveski 974-1555  
Blue - Assessor  
Green - Applicant

ZP # Nº 505  
Date 6-4-77

TOWN OF UNION, CONNECTICUT

ZONING PERMIT

This is to certify that the Planning and Zoning Commission of the Town of Union, Connecticut, acting upon the application of WANDA REMO presently residing at 1050 ROCKLEY HILLWAY do hereby approve and grant said applicant a Zoning Permit for:

1.2500 TOWER  
sized 15' x 20' x 10' H

to be located at the following location: 1050 ROCKLEY HILLWAY

Be it understood that the requirements of the Zoning Regulations of the Town of Union Connecticut be fulfilled and that before occupancy of said structure or use of such building an Occupancy/Use Permit must be obtained from the Building Inspector and the Planning & Zoning Commission.

This document is not a Building Permit but is an approval from the Zoning Board that what you propose to do complies with the Town of Union Zoning Regulations.

A BUILDING PERMIT MUST BE OBTAINED BEFORE CONSTRUCTION BEGINS. PLEASE BE SURE TO CONTACT THE BUILDING INSPECTOR BEFORE PROCEEDING WITH ANY CONSTRUCTION.

PLANNING AND ZONING COMMISSION  
TOWN OF UNION, CONNECTICUT

James D. Mac  
Chairman  
Deborah Williams  
Secretary

**PLANNING AND ZONING COMMISSION****TOWN OF UNION, CONNECTICUT**

Mail Address: 1024 Buckley Highway, Union, CT 06076

HE101

**SPECIAL PERMIT****Description of Premises:**

1050 Buckley Highway  
Union CT

**Nature of Special Permit:**

TO PERMIT THE CONSTRUCTION  
OF A TELECOMMUNICATIONS  
FACILITY

**Applicable Regulation(s):**

Union PZ Section 3.11

**Owners of Record:**

WAYNE & KATHY KEMP

**Date Issued:**

JUNE 4, 1997

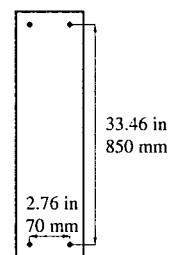
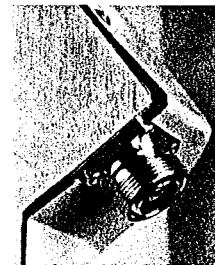
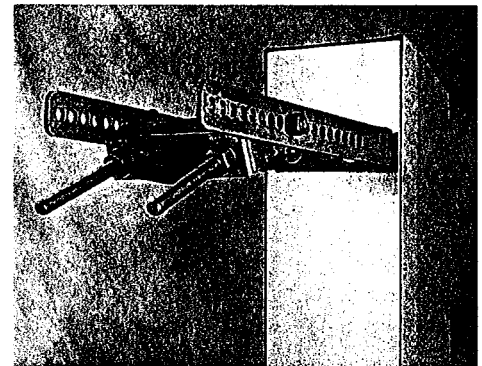
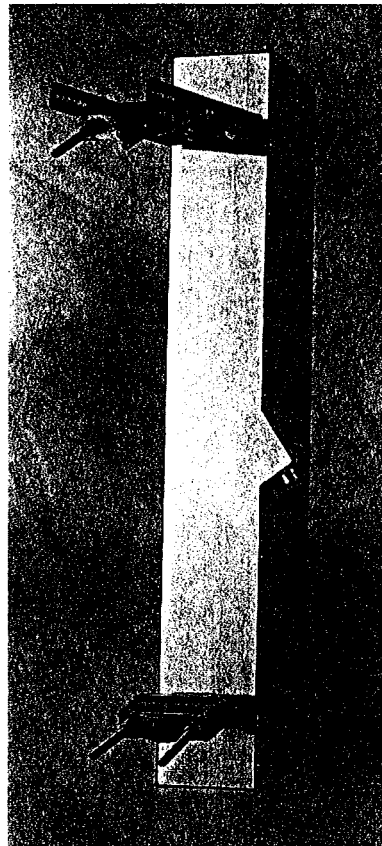
  
Chairman Union Planning & Zoning

# ALP-E 9011-Din

*Enhanced Log-Periodic Antenna*

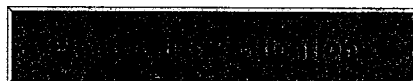
## Features:

- ☐ Small Size
- ☐ Aesthetically Pleasing
- ☐ Suitable For TDMA/CDMA
- ☐ High Return Loss
- ☐ Low Intermodulation
- ☐ High FTB
- ☐ Broadbanded
- ☐ Side-lobe Suppression
- ☐ Sturdy Design
- ☐ Down-Tilt Brackets Incl.



The distance between the center of the bolts (on the back of the antenna) are shown in the drawing above.

Bolt diameter is: **3/8-16**  
[comes with lock nut].



Frequency Range:	<b>800-900 MHz</b>
Impedance:	<b>50 ohm</b>
Connector Type:	<b>7/16 Din</b>
Return Loss:	<b>20 dB</b>
Polarization:	<b>Vertical</b>
Gain:	<b>&gt; 11 dBd</b>
Front To Back Ratio:	<b>&gt; 30 dB</b>
Side-Lobe Suppression:	<b>18 dB</b>
Intermodulation (2x25W):	<b>IM3 &gt; 146 dB</b> <b>IM5 &gt; 153 dB</b> <b>IM7/9 &gt; 163 dB</b>
Power Rating:	<b>500 W</b>
H-Plane (-3 dB point):	<b>85 - 92°</b>
V-Plane (-3 dB point):	<b>16 - 18°</b>
Lightning Protection:	<b>DC Grounded</b>



Overall Height:	<b>43 in</b>	<b>[1092 mm]</b>
Width:	<b>6.5 in</b>	<b>[165 mm]</b>
Depth:	<b>8 in</b>	<b>[203 mm]</b>
Weight Including Tilt-Brackets:	<b>20 lbs</b>	<b>[9.1 Kg]</b>
Rated Wind Velocity:	<b>113 mph</b>	<b>[180 Km/h]</b>
Wind Area (CxA/Side):	<b>2.3 sq. ft.</b>	<b>[0.22 sq.m]</b>
Lateral Thrust At Rated Wind		
Worst Case:	<b>112 lbs</b>	<b>[500 N]</b>



Radiating Elements:	<b>Aluminum</b>
Extrusion:	<b>Aluminum</b>
Radome:	<b>Grey PVC</b>
Tilt-Bracket:	<b>Hot Dip Galvanized Steel</b>
Antenna Bolts:	<b>Stainless Steel</b>

*The ALP-E 9011-Din is made in U.S.A.*