Local Communications Facilities & The CMP

Policy & Implementation Committee
April 28, 2017
Overview

Why are we discussing this now?

- Pinelands Area Counties EMS
- Verizon Wireless/Tilson
- Mobilitie

Why is it beneficial to review?

- Complex
- History matters

Discussion on these developments to follow the review
Background
CMP Height Regulations 1981-1995

Purpose:
- Protect the significant scenic resources of the Pinelands Area

Height Limits:
- Regional Growth Area, Pinelands Towns = No limit
- Everywhere else = 35 foot limit
  - Some exemptions included
  - ...But not communications towers
  - 89% of the Pinelands Area
New Technology (c. 1994)
1995 CMP Amendment

1994 - 2nd Plan Review implementation
  • Cellular industry representatives raise concerns with height limitations
  • Pinelands Commission recognized legitimate need/federal regulations
  • Balance network coverage & protecting scenic resources

1994 - Plan Review Committee
  • Deliberate over revised regulations – multiple meetings

1995 - Rules adopted, effective August 21, 1995
  • Local Communications Facilities (LCF)

May be first ever regional tower siting program
Key principles

RGA and Pinelands Towns no height limits

Everywhere else – LCF can build up to 200 feet, provided that:

- Demonstrate need
- Colocation on existing suitable structures
- Design towers to accommodate other providers
- Siting standards for new towers
- Comprehensive planning
  - Applications for individual applications after
Comprehensive Planning

Plan submitted by providers of like service

- 5 and 10 year plan horizons
- Approximate location of all facilities
- Demonstrate least number of facilities necessary in:
  - PAD, FA, SAPA, select Villages
- Demonstrate likely consistency with LCF regulations

Requires certification from Commission

Amendments

- Builds upon planned network array of previous plans to ensure least number in PAD, FA, SAPA, and some Villages
Individual Applications

RGA and Pinelands Towns
- CMP environmental standards

Everywhere else – must be consistent with
- CMP environmental standards
- CMP LCF standards
- approved plan
- approved siting policy

Siting policy
- Provides flexibility in final siting
- Ensures least number in PAD, FA, SAPA, and select Villages
- Search area – based on technical considerations (typically 1 mile)
  - Hierarchy of preferred management areas
## Summary of Comprehensive Plans

<table>
<thead>
<tr>
<th>Plan</th>
<th>Certified</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellular Plan</td>
<td>9/11/1998</td>
<td>Bell Atlantic Mobile; Comcast/Cellular One; Nextel</td>
</tr>
<tr>
<td>PCS Plan</td>
<td>1/14/2000</td>
<td>Sprint; Omnipoint</td>
</tr>
<tr>
<td>AT&amp;T Plan</td>
<td>12/12/2003</td>
<td>AT&amp;T</td>
</tr>
<tr>
<td>T-Mobile Plan</td>
<td>11/10/2011</td>
<td>T-Mobile</td>
</tr>
<tr>
<td>Sprint Plan</td>
<td>11/8/2013</td>
<td>Sprint</td>
</tr>
<tr>
<td>County Public Safety Tower Plan</td>
<td>5/11/2012</td>
<td>Pinelands Counties</td>
</tr>
</tbody>
</table>

### Original Provider vs. Succeeded by

<table>
<thead>
<tr>
<th>Original Provider</th>
<th>Succeeded by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bell Atlantic Mobile</td>
<td>Verizon</td>
</tr>
<tr>
<td>Comcast</td>
<td>Cingular Wireless -&gt; AT&amp;T</td>
</tr>
<tr>
<td>Nextel</td>
<td>Sprint</td>
</tr>
<tr>
<td>Omnipoint</td>
<td>T-Mobile</td>
</tr>
</tbody>
</table>
## Summary of Build-Out

<table>
<thead>
<tr>
<th>LCF Planned Locations</th>
<th>On-Air</th>
<th>Not On-Air</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Wireless Carriers</td>
<td>105</td>
<td>58</td>
<td>167</td>
</tr>
<tr>
<td>RGA/Town</td>
<td>52</td>
<td>20</td>
<td>72</td>
</tr>
<tr>
<td>RDA/APA/MF/Select Villages</td>
<td>25</td>
<td>15</td>
<td>40</td>
</tr>
<tr>
<td>PAD/FA/SAPA/Select Villages</td>
<td>29</td>
<td>23</td>
<td>52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>County Public Safety Tower Plan</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RGA/Town</td>
<td>12</td>
<td>5</td>
<td>17</td>
</tr>
<tr>
<td>RDA/APA/MF/Select Villages</td>
<td>7</td>
<td>10</td>
<td>17</td>
</tr>
<tr>
<td>PAD/FA/SAPA/Select Villages</td>
<td>6</td>
<td>6</td>
<td>12</td>
</tr>
</tbody>
</table>

*Not all “on-air” locations are new towers
**Planned locations typically have multiple carriers
Recent Developments
County Public Safety Tower Plan

Siting Policy Amendment
- Expand search area - 3 mile radius
- Consider developed, publically-owned lands

Timeline
- Official submittal late May
- June P&I Review
- July Commission Review
Verizon Wireless/Tilson

Small Network Node Deployment

- Also known as oDAS
- Weaker signal range than towers (500 - 1,000 feet)
- Complementary not substitute for towers
- Improves network capacity

- Public R-O-Ws on Utility Poles
- Minimal issues for Pinelands Commission
- Municipalities and Counties?
Verizon Wireless Small Network Node

Existing Utility Pole  Under 35 ft?  New Utility Pole
Mobilitie

Neutral Host Provider

Working with Sprint in N.J.

Small Cell and Transport Facility Deployment

- **Small Cell Facility** (weak range; capacity)
  - Public R-O-Ws on utility poles
- **Transport Facility** (stronger range; coverage)
  - Public R-O-Ws
Mobilitie Facilities

Small Cell Facilities
35’-75’

Transport Facility
125’
Transport Facility
Small Cell Facility
Summary

Public Safety Tower Plan
- Siting Policy Amendment in development
- June P&I review

Verizon Small Network Node Deployment
- Awaiting more information from Verizon
- Working with municipalities regarding ordinances

Mobility Small Cell and Transport Facility Deployment
- Applications are beginning to come in
- Potential plan amendments if not aligned with approved plans