



**ADDITIONAL VISUAL INFORMATION RELATED TO  
MICROCELL AMENDMENTS**

- I. NORTEL COMPACT METRO CELL OUTDOOR  
CABINET INFORMATION**
- II. PHOTOS OF UTILITY AND LIGHT POLE  
INSTALLATIONS IN OTHER JURISDICTIONS**
- III. PHOTOS OF EXISTING UTILITY BOXES IN  
RAPID CITY**



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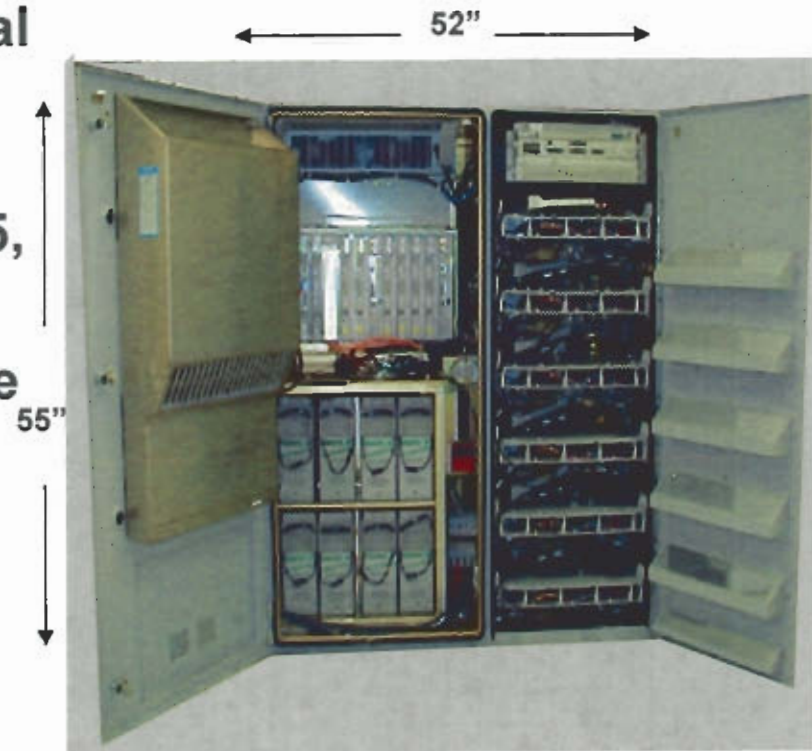
**I. NORTEL COMPACT METRO CELL OUTDOOR  
CABINET INFORMATION**



# CMO Overview

...CMO delivers substantially reduced footprint, reduced height and added network flexibility for our customers

- > **One Cabinet Solution for RF, Digital and Batteries**
- > **Complete investment protection with simultaneous support of IS-95, IX and 1X-EVDO**
- > **3U of free space to host microwave backhaul equipment or other customer electronics.**
- > **Supports remote radios**
- > **Under 50 ft<sup>3</sup> volume**
- > **Supports 450 MHz, 800 MHz, 1900 MHz**





# Product Specifications Summary

## Compact Metro Cell Specifications

<b>Dimensions</b>	54.8"H x 52"W x 30"D / volume 49.7 ft <sup>3</sup>	<b>Rx Sensitivity</b>	-127.5 dBm Typical
<b>Weight</b>	1000 lbs (3C3S), 2200 lbs max	<b>Air Interface</b>	IS95, 1xRTT, 1xEV-DO, DV (future)
<b>Backhaul</b>	18 T1/E1 twisted	<b>Frequency</b>	1900/800 @ launch; 450, 1900 G band (future)
<b>Input Voltage</b>	220 VAC		
<b>Power Consumption</b>	3C3S DC typical 1800W, max 3800 (6C3S)* AC typical 2773VA, max 5kVA (6C3S)		
<b>Integrated Battery Backup</b>	3C3S 1 string 4hrs, 2 strings 8 hrs 6C3S 2 strings 4 hrs Optional cabinet for additional backup as required		
<b>Environmental</b>	-40°C to 50°C Acoustic noise 60dBA @ 40°C		
<b>Configurations</b>	Omni/bi-sector/Tri-sector, Max 6 Carrier / 3 Sector (single cabinet) 12 Carrier / 3 Sector with 2 cabinets		
<b>Output Power</b>	~54 W (18W per carrier) @ 800MHz - parity ~35 W (12W per carrier) @ 1900MHz - parity		
<b>Regulatory</b>	EMC / EMI / Radio : CISPR & FCC Class B Safety : UL, CSA Environmental : Bellcore		
<b>Duplexer</b>	800MHz A & A", B & B', Full band 1900MHz band specific variants		



# CMO – Compact Metro Cell Outdoor



Compact Metro Cell Outdoor

**II. PHOTOS OF UTILITY AND LIGHT POLE  
INSTALLATIONS IN OTHER JURISDICTIONS**



**At Utility Substation in California**



**On parking lot light in Glen Ellyn, IL**



**Utility Pole Installation in Palos Verdes Estates, San Diego, CA**



**Modified Lightpole Installation in Reno, NV  
Residential Neighborhood**





**European Utility Pole Site**



**European Light Pole Site**



**Utility Pole Mount in Canada with Shelter behind fence in adjacent yard**

**III. PHOTOS OF EXISTING UTILITY BOXES IN  
RAPID CITY**



Located at 2733 West St. Patrick. Structure is 4' high, 1 1/2' deep and 3 1/2' wide.



Located on Meadowbrook Court.



Located on Meadowbrook Drive.

05OA006, 05OA007, 05OA008, 05OA009



Units located across from the beginning of Player Drive.



Located towards the bottom of Morningview Drive.





Located in front of Creekside Offices, facing Jackson Boulevard



Located at 3804 Minnetonka. The largest structure is 5' high, 4'6" wide and 2' deep.



Outside of Apartments on the northeast part of town.



Pole located in the alley off of Adams, ½ block away from Food Bank.



Units located behind Youth and Family Services and to the east of Food Bank.