

BellSouth Cell Site Acceptance Checklist			
Date:		Inspected and/or approved by the following:	
Site Name:		Cell Site Provider/Agent:	
E-911 Address:		BST SPOC and/or Designer:	
		BST SSI&M Supervisor:	
		BST ICEP Engineer:	
Inspection Item	Yes	No	Comments / Observations
<i>Structure Requirements</i>			
Site Access			
1.	Can access to the site be gained by BellSouth employees, as necessary?		
2.	Is there a safe entrance, exit, and parking available?		
H-Frame Structures			
3.	Does H-Frame structure provide at least 60" of horizontal mounting space?		
4.	Is the height such that the top of the customer-provided weatherproof enclosure (See 5.2) is 66" above grade?		
5.	If the H-Frame structure is placed near a fence, is there at least 3' of space between the H-Frame and the fence?		
Weatherproof Enclosures			
6.	Is the enclosure minimum rated NEMA Type 3R?		
7.	Is NEMA enclosure sufficiently sized?		
8.	Is the NEMA enclosure properly mounted on an H-Frame, the side of a building, etc.?		

Inspection Item		Yes	No	Comments / Observations
Conduit				
9.	Is there at least 1 conduit to house the original facility?			
10.	Is the conduit at least 2" ID Schedule 40 PVC?			
11.	Are all bends in conduits long radius bends?			
12.	Are all conduit(s) turned up, taped or capped, to prevent debris from entering the conduit?			
13.	Do all conduit(s) have a 200-lb test pull twine installed end-to-end?			
14.	Do conduit runs contain more than 180 degrees in bends between the end turn-ups? (Preferably NO, if YES, see next requirement.)			
15.	In cases where a third ninety degree bend is needed, is there a pull box			
Inside Building Locations				
16.	Is there a sufficiently sized plywood backboard mounted on which to install BellSouth equipment?			
17.	Is there a ground bar installed on the backboard?			
18.	If required, is there a power outlet provided?			

Inspection Item	Yes	No	Comments / Observations	
<i>Minimum Grounding Requirements for the Structure at a Tower Site</i>				
19.	Two 8' X 5/8" ground rods			
20.	A ring ground connecting the above two (or more) rods, consisting of a minimum #2 AWG bare copper conductor buried at least 30" below grade			
21.	Connection of the ground rod and ring conductor must be made with either an exothermic weld or a listed irreversible compression connector.			
22.	Metallic objects within 6' of the ground ring must be bonded to the ground ring with a minimum #6 AWG bare copper conductor.			
Exterior Ground Ring				
23.	#2 AWG bare copper conductor, buried a minimum of 30" below grade			
24.	8' X 5/8" ground rods spaced between 10' and 15' apart			
25.	Rods bonded to ring with exothermic or listed irreversible compression connectors			
26.	The tower ground ring should be bonded to the exterior ground ring with at least one #2 AWG bare copper conductor with exothermic or listed irreversible connectors.			

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Interior (Halo) Ground Ring				
27.	A #2 AWG green insulated stranded conductor encircling the perimeter of all telecommunications and radio equipment, located within one foot of the ceiling.			
28.	The interior ground ring should be bonded to the exterior ground ring, with a #2 AWG solid tinned copper conductor at each corner of the building.			
29.	Telecommunications cable shields, splice cases, NCTE mountings and protectors should NOT be grounded to the Halo Ground.			
30.	Customer owned equipment bays or cable racks may be bonded to the Halo Ground by the customer.			
Wave Guide and Coaxial Cable Grounding				
31.	Waveguide and coaxial shields should be bonded to the tower at the top and bottom of the tower.			
32.	For towers taller than 200 feet, it is common for the waveguide or coax shield to be bonded to the tower at the midpoint.			
33.	For a structure that has a metallic waveguide or coaxial cable entrance plate, the entrance plate should be bonded to both the structure's interior and exterior ground ring.			

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Wave Guide and Coaxial Cable Grounding (<i>Continued</i>)			
34.	Where the waveguide or coaxial cable enters the structure, the waveguide or coaxial cable shield should be bonded to the structure's external ground ring. Once inside the building, the waveguide or coaxial cable shield should be bonded to the interior ground ring, as close as practical to the entrance.		
35.	The waveguide or coaxial shield should also be bonded to the exterior and interior of the metallic entrance plate.		
36.	Coaxial cable shall be protected by a lighting surge arrester which is bonded to the exterior ground electrode system.		
<i>Grounding Outside Plant Cable Terminating Inside a Structure</i>			
37.	A Telephone Ground Bar should be provided as close as possible to the point at which the outside plant cables enter the building, and as close as practical to the power service entrance.		
38.	Cable shields for both copper and optical fiber cables, as well as the primary protector ground(s) for copper cable pairs, should be bonded to the telephone cable ground bar with a #6 AWG stranded insulated conductor.		
39.	The telephone cable ground bar should be connected to power service ground bar with a 2 AWG insulated copper conductor.		

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Grounding Outside Plant Cable Terminating at an H-Frame			
40.	A ground bar should be placed inside the H-Frame cabinet and bonded to the tower grounding system or power system ground with a #6 AWG bare conductor.		
41.	Cable shields should be bonded to the ground bar with a #6 AWG insulated conductor.		
<i>AC Power Grounding</i>			
42.	The conductor used for AC power service grounding should be bonded to the external ground ring, either directly or through a ground bar.		

Notes:

1. See ANSI 334.2002, Electrical Protection of Communications Towers and Associated Structures, for electrical protection references.
2. No service will be provisioned to the cell site until the BellSouth Cell Site Acceptance Checklist has been signed by both BellSouth and the cell site provider. To the extent that the cell site provider or a member of the BellSouth team is unavailable for signature, acceptance can be so noted on the checklist in the appropriate approval space