

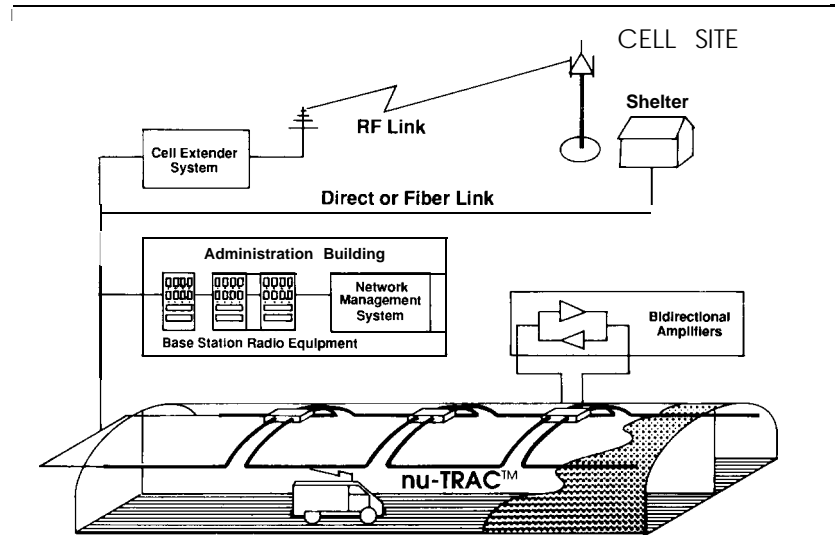
# Applications

Radiating cables are frequently used to increase the RF coverage of communication systems in structures which inhibit RF propagation. Examples of areas which are difficult to cover with point source antennas include tunnels, mines, subways, metal-hulled ships, nuclear power plants and buildings with metal supporting structures.

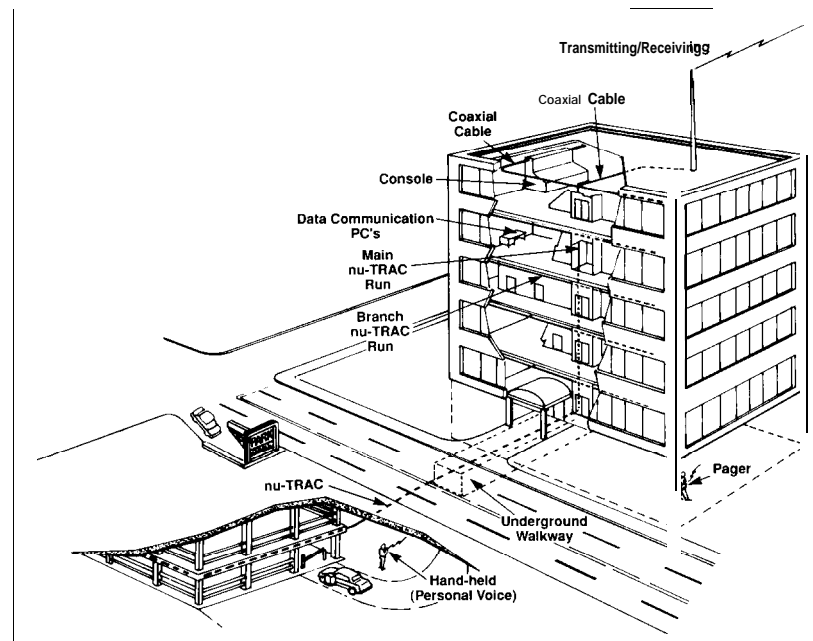
Radiating cables are also used instead of point source antennas because they emit RF at very low power levels, reducing the potential for interference with other nearby systems using the same frequencies and allowing for frequency reuse. Examples are the creation of mini-cells within a building and low level, roadside AM broadcast systems.

Radiating cables can be used to extend coverage for many types of systems including cellular, paging, two way radio, broadcast radio/TV, and data. In-building applications can include any of the above. An important trend is the development of Wireless Local Area Networks or LAN's. By using radio waves to connect computers and telephones within an office environment, the cost and time required to run new cables to accommodate growth and changes is greatly reduced.

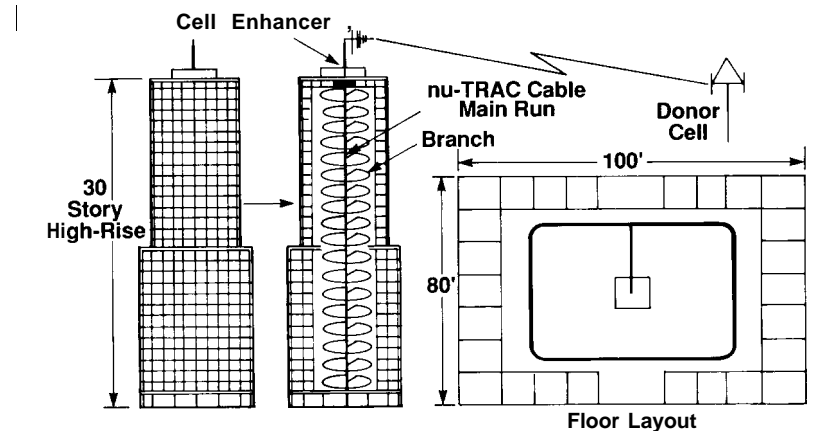
Other innovative uses for radiating cable include hospital patient monitoring systems which allow patients freedom of movement, automatic highway toll recording systems and shipboard below decks communications systems. nu-TRAC radiating cable's capabilities allow the design engineer to create innovative solutions to many RF coverage problems,



Typical Tunnel Application Schematic



Building Specific Coverage for Voice and Data



Typical High Rise Buildings Application Schematic