

Microwave Transmission Systems

Engineer, Furnish, and Install Service Capabilities

CarrierClass Deployment Services, LLC (CCDS)

offers a comprehensive service portfolio for the design, engineering, and deployment of point-to-point microwave and point-to-multipoint wireless transmission systems.

CCDS's ownership has more than 20 years of hands-on experience in the broadband telecom arena. We have worked directly with every major wireless service provider, governmental bodies, major tower companies, and real estate portfolio owners.

Our Services

- Preliminary path design, surveys, engineering, coordination, and licensing
- Radio system design and engineering; installation, testing, & turn up
- Site NEPA/SHPO/FCC/FAA compliance filings & certifications
- Antenna system installation, testing and certification
- Power systems engineering and installation, including all DC plant batteries, chargers, generators, local utility interface and service upgrades
- Ancillary transmission systems engineering and installation including multiplexing, test access, alarming, cell site and MSC interface.
- Transmission system support infrastructure engineering, construction, and installation including alarm systems, HVAC, room and shelter construction and renovations.

Recent Project Experience

- Site acquisition, zoning, and ancillary system project management for a 7 site, 9 – OC-3 6 GHz microwave system in New Jersey for a cellular carrier.

- Site acquisition, zoning, and ancillary system project management for a 4 site, 9 – OC-3 6 GHz microwave system in New York for a cellular carrier.
- Design and construction of a microwave terminal installation as a part of mobile switching center located within an ATT Com facility. Met a very tight time deadline--and 25% under budget.
- Site acquisition for more than 30 unlicensed spread spectrum radio sites for a cellular carrier.
- E F & I of a generator sound barrier system in compliance with extremely stringent local sound control regulations.
- Re-use and modernization of 38+ year old analog microwave junction site including all new state-of-the-art digital radios, mux systems, power facilities, antennas, and lines, all implemented in a manner that avoided a lengthy and cost-consuming zoning and permitting cycle.
- Management of all microwave DS-3 circuit cutovers for a cellular carrier
- Engineering and project management of power system upgrade at a cellular system microwave junction site including increase of generator capacity (from 40 to 100 Kw) and upgrade of local utility service.
- Turnkey project from system design through cutover of a 4 x OC-3 digital microwave system interconnecting two mobile switching center.

For more information on CCDS's microwave deployment capabilities and how we can assist you, please contact CEO Jim Innes at 267.481.1461 or by email to james.innes@carrierclasstowers.com. We look forward to working with you.