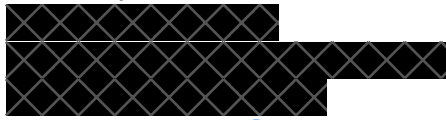


To: Citrus Heights Police Department

Subject: Public Safety Hazard – Radio Frequency Interference (RFI) from Edgewood HOA Camera System

Date: April 16, 2025



Email: shanehill@birdcageheights.com

Summary:

This report is being filed to formally document a serious and ongoing public safety hazard caused by unlawful levels of radio frequency interference (RFI) originating from the Edgewood Homeowners Association (HOA) located on Spyglass Lane in Citrus Heights. The interference is being generated by a defective security camera system installed around the HOA's clubhouse and RV parking area.

The offending system was installed by:

Mr. Security Camera of Sacramento / MSC Integration

This issue is being brought to your attention during **National Public Safety Telecommunications Week** due to the direct and dangerous impact on emergency services communications, cellular connectivity, Wi-Fi, television reception, and even life-critical medical devices (such as pacemakers and apnea monitors).

Details of the Hazard:

- The Edgewood HOA camera system, which includes Ubiquiti-brand power-over-ethernet switches and microwave dish antennas, has been identified as the primary source of high-power RFI.
- The system emits strong electromagnetic interference propagated by metal conduit and chain-link fencing, effectively creating unintentional antennas.
- The equipment's DC-DC power conversion circuitry and unshielded cabling are likely the main emitters of this interference.
- The RFI has been captured and analyzed using spectrum analysis equipment and correlates precisely with system uptime.
- When the system is powered off, the interference ceases immediately.
- The emissions impact the surrounding neighborhoods, including Kingswood Drive, Cypress Point Lane, and Doral Court.
- Communication with Edgewood HOA board member Russ has been unsuccessful despite repeated attempts to offer assistance and remediation.

Impact on Public Safety:

- Emergency phone calls (cellular) fail intermittently or are not completed at all.
- Residents report unreliable text and voice service, creating risk during emergencies.
- Public safety radio systems, such as police, fire, and EMT, may be compromised due to receiver saturation and signal distortion.
- Critical medical devices risk malfunction due to continuous RF exposure.
- RFI energy is also impacting aeronautical and military HF bands, with emission patterns directed vertically, potentially interfering with airborne systems.

Legal and Regulatory Context:

This situation constitutes a likely violation of FCC rules and the Communications Act, as the interference is:

1. Harmful, broad-spectrum, and continuous.
2. Generated by non-intentional transmitters.
3. Not mitigated despite being reported to those responsible.

The Federal Communications Commission (FCC) has the authority to investigate and enforce against such violations, and enforcement may include seizure of equipment, fines, or criminal penalties.

Action Requested:

I respectfully request that the Citrus Heights Police Department:

1. Initiate an incident record or community nuisance file.
2. Coordinate with local Code Enforcement and Public Safety Communications personnel.
3. Reach out to the HOA board or property management to encourage immediate deactivation of the offending system.
4. Share this report with any appropriate regional public safety telecommunications liaisons.
5. Assist residents in forwarding this case to the FCC Enforcement Bureau.

Attachments and Evidence:

- RFI Spectrum Analysis Images
- Technical documentation
- Website Reference (details of the problems):
<https://birdcageheights.com/2024/10/12/clubhouse-and-rv-parking-security-camera-system-rfi/>

Thank you for your time, service, and attention to this serious public safety matter. Please feel free to reach out for more details or to inspect the system in question.

