

IMPROVING SECURITY AT WASHINGTON STATE DEPARTMENT OF CHILDREN, YOUTH & FAMILIES JUVENILE REHABILITATION



Echo Glenn facility

At a glance

The Washington State Department of Children, Youth & Families (DCYF) Juvenile Rehabilitation (JR) serves high-risk underage criminals who have been sentenced to incarceration at youth correction facilities. Washington passed state legislation several years ago that raised the age cap for JR services to 25. Since the passage of the “JR to 25” legislation in 2018, the inmate population has become older with longer sentences, more gang connections and greater criminal histories. The Echo Glen Children’s Center and Green Hill School are medium to maximum security DCYF correction facilities. Echo Glen is in Snoqualmie, WA and serves young men under the age of 18 and young women up to the age of 25. The Green Hill School in Chehalis, WA houses young men aged 17 to 24.

Summary

- ▶ **Customer:** The Echo Glen Children’s Center and Green Hill School facilities
- ▶ **Task:** Replace the existing ionizing x-ray security screening systems and comply with the legislation
- ▶ **Challenge:** In late 2024, the Washington Administrative Code 246-230 set new safety limits for the general and limited use of ionizing x-ray security screening systems. WSR 25-01-051 was passed into law in early 2025, the new safety limits prohibit minors under the age of 18 from being exposed to systems that use ionizing x-rays.
- ▶ **Solution/product:** OPS201 quick personnel security scanners
- ▶ **Key benefits:** The QPS201 is a cutting-edge ultra-high-definition security scanner that uses non-ionizing low-power millimeterwave technology with a proven health and safety record. It can detect very small metallic and non-metallic contraband concealed on the body.

Case Study | Version 01.00

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Make ideas real



The QPS201 let both facilities scan residents without any health risks. Installed near the entrance to each facility along with a baggage scanner, it lets all visitors, volunteers, contractors and staff be screened. Since staff and contractors can freely exit and re-enter facilities several times a day, moving from random to 100% screening makes sure the process is consistent, unbiased and highly secure.

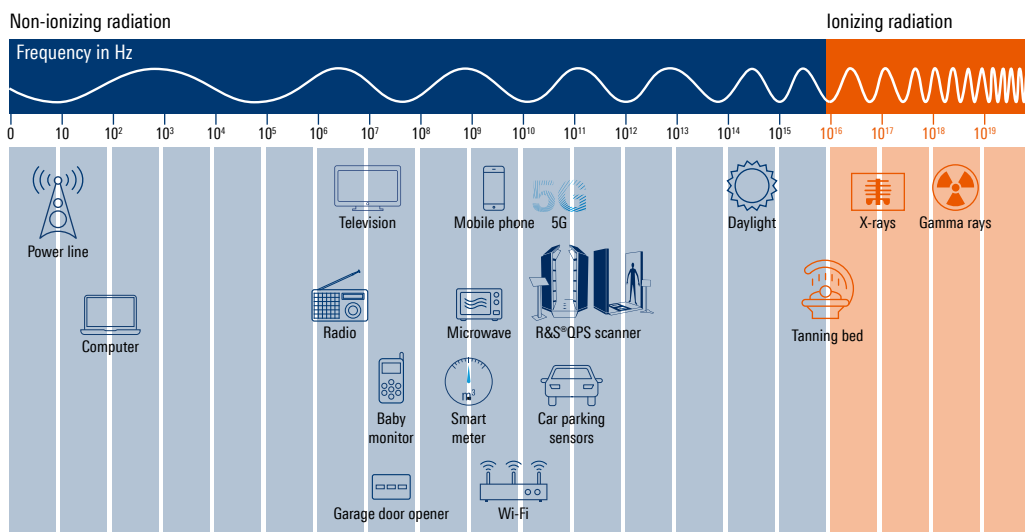
The QPS201 is the only personnel screening technology that meets the "Level IV" (highest) detection requirements defined by the Transportation Security Administration (TSA). The R&S®QPS system has been widely adopted and several thousand systems are now deployed at over 250 airports worldwide. The millimeterwave technology meets today's most challenging security needs for a wide variety of applications including critical infrastructure and utility protection, high-value asset protection, data center security, hospital security as well as customs and border control.

Health and safety benefits of the QPS201

- ▶ **Protect privacy:** No collection of personal data, ensuring complete confidentiality
- ▶ **Non-ionizing technology:** Signals are completely safe for the human body, similar in frequency range to automotive radar systems encountered every day, but with much lower power levels
- ▶ **Safe for all:** ICNIRP certified, proven risk-free environment
- ▶ **Respectful alarm display:** Gender-neutral alarm localization on a symbolic avatar
- ▶ **Hygienic and contact-free screening:** Fully touchless screening process

The electromagnetic spectrum

The 70 GHz to 80 GHz frequency band enables the R&S®QPS system to accurately detect and locate many objects that were transparent with X-ray technology.



"The learning curve on the R&S®QPS technology and the plain talk used to facilitate training on the system were very well received. The design also improves accessibility for maintenance. It also provided a safe technology alternative for use on staff, volunteers, visitors and contractors."

Duane Bailey, Senior Administrator Operational Safety & Security for Critical Infrastructure

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