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Most innovative protective glazing project

Henry M. Jackson Federal Building *Hartung Glass Industries / Walters & Wolf*

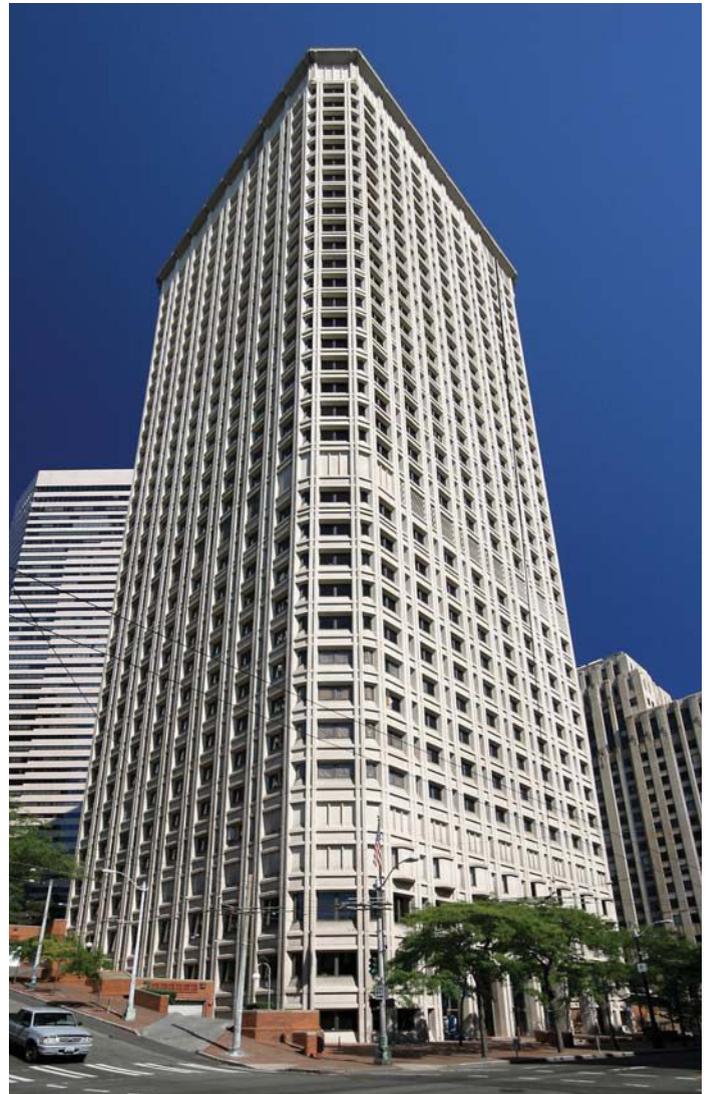
The Henry M. Jackson Federal Office Building in Seattle underwent a major renovation in 2011 that included upgrading the building's monolithic glass to a more efficient and secure glazing system. The 35-floor government building now features 3,500 insulating glass units fabricated by Hartung Glass Industries, www.hartung-glass.com. All of the IG units incorporate Solarban 70XL solar-control low-E from PPG Industries, www.ppg.com, on the second surface and argon gas. The first 2,000 units on floors one through 20 include 6 mm Safflex 0.030-inch clear ATRP blast-resistant laminated glass lites on the inboard as manufactured by Lami Glass Products, a division of Hartung Glass Industries, www.lamiglass.ca. The IGUs on the top half of the building from floors 21-35 were manufactured with 6 mm clear lites on the interior.

"The biggest challenge was coming up with a solution that met the multiple new design requirements," says Brian Norfolk, project manager for glazing contractor Walters & Wolf, www.waltersandwolf.com. "We were upgrading a ¼-inch monolithic-style window to an insulating glass system that required a redesign of the stops while the frame remained the same and accomplished the bomb-blast requirements."

"We took out several frames for analysis of the removal protocols, glass stop design and sealant adhesion testing," Norfolk explains. "That enabled us to study and design a solution before moving forward with the final shapes and an installation plan."

After weeks of testing and design, the Walters & Wolf design team developed an approach that was approved by the bomb-blast consultant.

Adding to the challenge was the fact that the building



was continuously occupied during the retrofit. Its high security workplace status not only restricted worker access, but installation and delivery schedules as well.

"We had to work at night due to security reasons," Norfolk says. "There was no room for stocking in an occupied, high security building."

"Everything went very well," however, he says. "Once we were on the job, things fit like they were designed. The biggest thing was having the material here on time, and Hartung did a great job at that. They would deliver several floors at a time, on time, which is what we were counting on."

Bassetti Architects, www.bassettiarch.com, and John Graham & Co., now part of DLR Group, www.dlrgroup.com, were the original building architects.