

# ROBERT M. BALL FEDERAL BUILDING WOODLAWN, MARYLAND

## KEY PARAMETERS

- Type of Facility – Existing Building (EB)
- Function – Government / Office Building
- Area – 5-story, 1,200,000 sf
- Project Completed – 2016

**Challenges:** Energy reduction, sustainability, and green design parameters that meet federal requirements of MERV 13 minimum air filtration. The Robert M. Ball Building is the headquarters of the Social Security Administration. Repair and alteration of the building's mechanical systems were critical components of a master plan to modernize the complex's aging buildings.



**Solution:** Dynamic V8 Air Cleaning Systems were selected for several important reasons: Firstly, the air cleaners offered significant savings as an energy conservation measure when compared to traditional MERV 13 passive filters.

Secondly, the Dynamic V8 offered back-end savings on service and maintenance. Filter service cycles had historically been run four times a year, requiring storage, time and labor to



move replacement filters to the appropriate AHU and dirty filters back again to the loading dock, and disposal. Dynamic V8 replacement media pads have an average service life of four years and are a fraction of the size and weight of conventional filters.

Lastly, because the Dynamic V8 traps odors and VOCs in addition to ultrafine particles, the past air quality problems were addressed.

**Results:** Dynamic V8 Air Cleaning Systems were installed in October 2016. Energy savings were readily apparent from daily static pressure measurements showing savings of over 1" S.P. As a case in point, AHU-3 operating SP dropped from .51" - 2.2" (design, passive filters) to an operating SP of between .27" - .33" (Dynamic V8) over the first year – with several more years of service life available.



According to Alden Bradstock III, PE, president of Veteran Design and Construction, Inc., "As the Design/Build company for a major portion of the Energy Savings Performance Contract, we found the Dynamic V8 air filtration technology extremely easy to design and install in the existing 144,000 CFM air handling unit. The client is very pleased with the results, which significantly reduced operating costs and filter replacement efforts."

## TEAM

- Client – U.S. General Services Admin
- Engineers – Veteran Design & Construction
- Construction Mgmt – Constellation Energy Services
- Air Filtration – Advanced Thermal Solutions

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