



Architect of the Capitol Fiscal Year 2015 Appropriations

Statement before the Subcommittee on Legislative Branch, Committee on Appropriations, U.S. House of Representatives

Tuesday, March 4, 2014



Mr. Chairman, Representative Wasserman Schultz and members of the subcommittee, thank you for the opportunity to testify today regarding the Architect of the Capitol's (AOC) Fiscal Year 2015 budget request.

We appreciate the support and trust Congress has placed in us to address critical construction projects across the Capitol campus, especially the ongoing U.S. Capitol Dome Restoration Project. The investments you have made in the AOC have created a healthier, safer and more vibrant workplace for employees. Visitors to the Capitol campus have experienced awe-inspiring facilities in a safe and secure environment. Funding has also enabled us to preserve history and ensure Congress can accomplish its daily functions.



A large piece of stone that fell from the Capitol Building

Stone preservation continues to emerge as one of our biggest priorities. Time and weather have not been kind to the

historic buildings entrusted to our care. For the long-term preservation and safety of our buildings, we must take measures to stop water infiltration and do what we can to abate the deterioration of historic stone.

The conditions of the exterior stone on most, if not all, of the buildings on Capitol Hill are rapidly deteriorating. This was evident in October 2013 when a large piece of stone broke away from the Cannon House Office Building and fell several stories to the ground. Fortunately, it was in an area where there is no pedestrian traffic. However, the piece was large enough that if it had fallen in a public area, it could have potentially caused great damage to anything or anyone below it. Many of our buildings are experiencing similar problems across the Capitol campus. The Capitol Building and the Supreme Court Building, in addition to the Cannon Building, have required the installation of unattractive and utilitarian netting systems to catch any falling stone. While the netting is a



AOC employees install netting on the Cannon Building to prevent additional stone from falling.

measure that will work temporarily, it is not a long-term solution. To prevent further deterioration, significant near-term investment is necessary.

The first phases of the Capitol Building and Russell Senate Office Building exterior stonework were funded by Congress in Fiscal Year 2014. Coordination is underway to survey and plan for the erection of scaffolding around portions of these buildings. You will see the next phases of these projects in our Fiscal Year 2015 request. This investment will pay long-term dividends, as we make critical improvements that both address the growing needs across the Capitol campus and preserve these historic buildings for decades to come.



We have developed our Fiscal Year 2015 budget request through a deliberative planning process using the best planning and predictive tools available. The recommendations we bring to you today are the result of this rigorous decision making, which balances our mandate to be both fiscally prudent and trusted stewards of the national treasures you place in our care.

In Fiscal Year 2015, we are requesting \$676.6 million – a 0.7 percent decrease from our Fiscal Year 2014 request.

To address capital projects categorized as urgent or immediate, we are requesting \$156.5 million. This is a \$1.8 million or 1.2 percent increase from our Fiscal Year 2014 request, leaving \$259.9 million in deferred maintenance work – work that still must be accomplished in a future request. While deferring maintenance increases costs and risk of facility failures, we recognize that current fiscal realities won't allow for every project to be funded.

Aging Infrastructure Requires Critical Prioritization

We specialize in repairing and restoring the historic buildings that provide both an effective workplace for Congress and a destination that millions of Americans visit and enjoy all year long. Our workforce has unique and specialized skills honed for our historic buildings. In many instances, the craftsmanship of our employees has successfully disguised the serious conditions or fragile states that facilities are in or has temporarily stemmed any further deterioration.

The key to successfully identifying these needs and the appropriate time to make these key investments is to prioritize projects to ensure resources go toward the most important work. Our Project Prioritization Process has never been more important than it is today. With vital work to be done and not enough resources to do it, the most urgent projects must rise to the top.

We employ our Project Prioritization Process to rank every necessary project using two primary drivers: the conditions of the facilities and the urgency in which the deficiencies need to be addressed. Our process also takes into account the need to protect key infrastructure, mission-critical work, preservation of heritage assets and our commitment to the efficient use of public funds. This has effectively allowed the AOC to identify and recommend to Congress the levels of investment and maintenance required to ensure that all the facilities on the Capitol campus remain safe, functional and protected.

As with all deferred maintenance, the longer necessary repairs and maintenance are postponed, the greater the risk of problems becoming worse over time and the repairs becoming more costly. The AOC continues to carefully monitor and maintain the facilities and systems to minimize the risk of catastrophic failure. However, delaying work on critical infrastructure and preventive maintenance puts even greater pressure on future fiscal years and on our employees to keep deteriorating systems running for much longer than best practices dictate.

Due to the constraints of available resources, we have found that in certain cases it is necessary to phase major projects to better manage the time and resources needed to complete them. The



ongoing Dome Restoration Project is a first-rate example of this practice's success. The was completed on time and below budget, and phasing the project provided the project team with valuable lessons learned for the future phases of the Dome Restoration Project.

In addition to maintenance and construction work necessary to preserve our infrastructure, we are also faced with additional responsibilities that must be addressed. In March 2014, we will begin leasing office space in the recently refurbished Thomas P. "Tip" O'Neill, Jr. Federal Building, located adjacent to the Ford House Office Building. The leasing of additional office space will facilitate the future restoration of the Cannon House Office Building in 2016. Additionally, to meet a new mission requirement, we are requesting funds for the leasing of space on four commercial antenna towers within the metropolitan area to support the U.S. Capitol Police Radio System.

Critical Projects

The buildings of the Capitol campus are well cared for by the dedicated men and women of the AOC who use their incredible talents and skills to maintain the buildings and grounds. However,

upon closer examination, it is evident that wear and tear, weather, and environmental factors have taken their toll on the buildings. Water in particular is very destructive to stone structures. The sandstone and marble façades of our historic buildings are cracking, spalling and, most seriously, stone is actually breaking away and falling from many buildings, as noted earlier.

To address stone failures across the Capitol campus, the AOC has been conducting a series of exterior stone surveys. The results of these evaluations continue to confirm our deepest concerns – the conditions of the exterior stone on most, if not all, of the buildings on Capitol Hill are rapidly deteriorating. The precarious



Cracked and spalling stone on the Capitol Building.

threat of falling stone is significant. Additionally, the temporary fixes that the AOC is undertaking to prevent catastrophic failures are not enough to prevent conditions from worsening. To fully address these issues, significant investments will need to be made.

In our Fiscal Year 2015 budget request, we have highlighted several exterior stone projects for which we are requesting funding to repair. The **U.S. Capitol South Extension Exterior Stone and Metal Preservation** request is the second of four planned phases and involves the stabilizing, cleaning, repairing and preserving of the exterior stone on the Capitol Building's north façade of the south extension and its connection to the main west façade. This work will help to stem the water infiltration that has been destroying the existing historic fabric of the building and protect members of Congress, staff and the public from the risk of falling stone.

The second phase of the five-phase Russell Senate Office Building Exterior Envelope Repair and Restoration project will address the east façade of the 105-year-old office building. The work



will repair the façade, windows and doors; repoint the masonry; restore and refinish the exterior metals and make structural repairs to the balustrades.

At the U.S. Botanic Garden (USBG) Conservatory, conditions at the exterior envelope continue to deteriorate with widespread cracking and spalling stone, and cornice and roof flashing failures. The **USBG Conservatory Exterior Stone Repair and Roof Replacement** request will repair hundreds of cracks and spalls across the Conservatory's façade; repoint and reseal masonry joints and remove the existing roofing systems and replace them with a new vegetative roofing system. Instead of replacing the roof in kind, a new vegetative roofing system will have a longer lifespan and will reduce water runoff.

These exterior stonework examples clearly show that the longer deferred maintenance projects are delayed, the more the conditions of these facilities will deteriorate. Instances of cracking and spalling stone will grow more serious, and ultimately, more costly to repair. Additional consequences from not addressing looming deferred maintenance projects are the continued crumbling of infrastructure; a loss of historic artwork and architectural features; continued system and building failures; and security threats.



Water infiltration into the Rotunda has caused damage to cast iron columns and threatens historic artwork.

Damage to our crucial building infrastructure is especially concerning, such as the deterioration of several garages. We are requesting appropriations for the first of four phases to address the necessary **Rayburn House Office Building Garage Rehabilitation** repairs, which will focus on the severe concrete delamination and improving the structural stability of the garage. Engineering studies have identified severe corrosion of the reinforcing steel as well as spalling and delaminating concrete in the ceiling and support columns.

At the Capitol Power Plant (CPP), the West Refrigeration Plant is more than 30 years old and has long-standing structural and waterproofing issues, which have led to failures in spandrel beams and falling concrete. The **CPP West Refrigeration Plant Chiller System Replacement** request would finish funding the third phase of the project, which includes repairs to the precast concrete connections, walls, columns and decks; applying water repellent coatings to the concrete roof deck and exposed surfaces and repairing flashing at column transitions.

Safety is a top priority for the AOC and a number of safety-related projects are included in the Fiscal Year 2015 budget request, including the second phase of the project to replace the exhaust system serving the main kitchen areas of the Dirksen Senate Office Building. The work will renovate the kitchen exhaust systems to comply with the current fire safety code. In addition, the request also includes funding needed to enclose the West Grand Stair in the Capitol Building to prevent smoke migration in the event of a fire. The work will address an Office of Compliance citation and will prevent the risk of smoke, heat and flames from spreading. Several projects in the Library of



Congress buildings are needed to address life-safety issues as well. The construction of new exit stairs in the Thomas Jefferson Building will allow for the direct discharge of building occupants to the exterior of the building, as required by current code. In the James Madison Memorial Building, the number of elevator breakdowns has increased, requiring a growing amount of maintenance. The modernization of several elevators will significantly decrease wait times, reduce power consumption and decrease the need for maintenance.

Our Fiscal Year 2015 budget request also includes funding for the final phase of the **Dome Restoration Project**, specifically to repair the interior of the Rotunda. The work will restore the interior walls, painted columns and pilasters, and the coffered ceiling that have sustained water damage and paint delamination. Over time, the infiltration of humidity and moisture in the Rotunda has deteriorated the condition of the metal, allowing daylight to be visible through parts of the coffered ceiling. The work will also include upgrading the Rotunda's mechanical and electrical systems to current codes, and installation of new fire alarm and communications systems.

Funding our recommended capital projects in Fiscal Year 2015 ensures that necessary investments are made in our historic infrastructure, and increases the safety and security of those who work in or visit the facilities on Capitol Hill. In future budget requests, we will continue to include multi-phased projects to restore and repair the damage to the exterior stone to ensure that we preserve the unique and historic masonry features of the buildings that serve Congress and the American people.

Working Leaner

The AOC's team of skilled craftsmen and professionals is our greatest resource and each employee's contribution is vital to our success. They understand that we must find new and innovative ways of doing business to improve efficiency and productivity. During Fiscal Years 2013 and 2014, we addressed the challenges of sequestration by undertaking cost avoidance measures to work smarter and leaner.

Even in a challenging fiscal climate, we continued to reduce our overtime costs by improving project planning, restructuring work shifts and establishing overtime budgets. As a result, the AOC cut more than 18,600 overtime hours from Fiscal Year 2012 to Fiscal Year 2013. A great example of this occurred in the Capitol Building jurisdiction, which reduced its overtime to less than five percent of the available hours.

Across the AOC, we are implementing a new initiative that capitalizes on the exchange of institutional and professional knowledge. The Exchange of Critical Expertise and Learning (ExCEL) Program uses internal resources for training in an effort to combat dwindling training budgets, a growing number of employee retirements and the loss of institutional memory, and filling gaps in essential workplace competencies due to ongoing hiring freezes. It's also an innovative opportunity for AOC jurisdictions to work together and share their knowledge and expertise with their fellow colleagues. Now when employees who have participated in the program are working on equipment and need assistance, they can reach out to others across the organization for guidance.

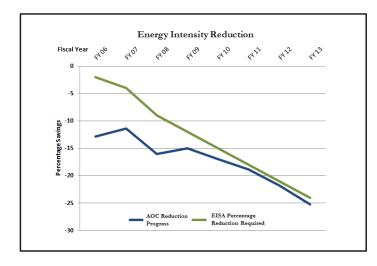


Another cost avoidance strategy that was developed and implemented was the Return to Work program, which is intended to return long-term workers' compensation employees to positions that have been designed to accommodate their limitations. This effort provides opportunities for these employees to be productive and affords reductions in workers' compensation costs for the AOC.

In Fiscal Year 2013, recognizing tight budgets and limited resources, we decreased our investment in employee training. Sensing a need, our Training and Employee Development Branch and Acquisition and Material Management Division worked together to enroll the agency in the Federal Acquisitions Institute, which offers courses and webinars on various topics for a nominal fee or at no cost to the AOC. By creatively approaching problems, we open up doors to new and additional resources to meet our growing demands with limited funds.

Saving Energy and Natural Resources

The AOC has successfully reduced energy consumption across the Capitol campus for the past several years. However, with the completion of the U.S. Capitol and U.S. Senate Energy Savings Performance Contracts (ESPCs) in Fiscal Year 2013, meeting the mandated energy reduction goals will be more difficult because the projects that yielded quick results have been completed. We will be required to achieve further operational energy savings to complement the energy savings performance projects that are ongoing or have been completed.



The ESPCs allowed the AOC to pursue energy and water conservation projects without incurring up-front capital costs or obtaining appropriations to pay for improvements. In the House Office Buildings, many facility infrastructure upgrades were made, including installing 33,000 energy-efficient lamps and ballasts, adding state-of-the-art lighting controls in select areas for daylight harvesting and dimming, and upgrading heating, ventilation and air conditioning controls.

In Fiscal Year 2013, we exceeded the Energy Independence and Security Act of 2007 (EISA 2007) energy reduction goal of 24 percent by achieving a 25.2 percent reduction. This marks our eighth consecutive year of meeting energy reduction goals outlined in EISA 2007, and represents approximately \$14.5 million in avoided annual utility costs.

We've continued to make improvements to building automation systems by installing direct digital controls on the air handling units and terminal equipment offices; reducing water usage; installing more efficient lighting systems, and further implementing energy curtailment strategies in the office buildings to reduce energy use across the Capitol campus.



The CPP continues to play an essential role in the AOC's long-term energy conservation efforts. The CPP has made several operational improvements that contributed greatly to the reduction in energy consumption including the commissioning of a new, half-size chiller in December 2013, as part of the Refrigeration Plant Revitalization project. Not only does this project increase the CPP's energy efficiency, it will reduce its long-term operating costs and increase cooling system reliability. In addition, the CPP continues to utilize a "free cooling" process where we use cold, outside air to create chilled water with running the old chillers, thereby conserving electricity.

We are always looking to the future and strategizing long-term on how to save energy and resources in innovative and forward-thinking ways such as Cogeneration at the CPP, which is an energy efficient and cost effective way to generate both steam and electricity using one source of fuel.

Pursuing Safety Excellence

Reducing energy consumption and conserving natural resources saves money, as does preventing injuries and accidents within the AOC's workforce. Our philosophy of *People First, Safety Always* serves as the foundation for continuous improvements in safety and safety systems.

The AOC strives to integrate safety into everything we do as we pursue our zero-injury safety culture. We are standardizing and coordinating operational best practices. Safety continues to be a top consideration in planning and allocating funds for capital projects.

As we pursue safety excellence, we continue to develop and rollout our agency-wide, safety enhancement programs. During Fiscal Year 2013, AOC employees experienced an injury rate reduction from 3.91 percent down to 3.28 percent. Specifically in the House Office Buildings, employees achieved an injury rate reduction of nearly 33 percent from January 2013 to January 2014. These gains were achieved by focusing on individual awareness, inspections and identifying and correcting at-risk behaviors through employee engagement.

Enhancing Visitor Experiences

The AOC is dedicated to creating a safe, welcoming and informative experience for all who visit Capitol Hill. For many visitors, this may be their first and only time seeing the nation's Capitol, and we work hard to ensure the experience is worthy of this working symbol of American democracy and freedom.

The U.S. Capitol Visitor Center (CVC), with its mission to "inform, involve and inspire," introduces visitors to Congress and the legislative process, as well as the history and development of architecture and art of the U.S. Capitol. On December 2, 2013, the CVC marked the fifth anniversary of the day its doors were first opened to the public. And since that day, the CVC team has welcomed more than 11 million people to the U.S. Capitol. The dedicated employees of the CVC team work to enhance customer service, hospitality and visitor engagement in a seamless, positive visitor experience. For example, the CVC staff initiated two new informational programs, "What's Happening in the Chambers," and "Encounters in Exhibition Hall." They also provided



tour training for nearly 4,000 congressional staffers. Overall, the CVC continues to welcome nearly two million visitors annually and ensure that visitors receive an enriching, memorable and inspirational tour experience.

The USBG is a living plants museum with a mission to educate the public about the value of plants in our society by providing visitors with a unique and inspiring experience. In 2013, the USBG had a record-setting year with a total annual visitation of nearly 1.7 million, an increase of almost 500,000 visitors over the previous record. With the one-day blooming of the titan arum (also known as the corpse flower) on July 22, 2013, the USBG had its highest visitation day on record with more than 22,000 people. During its 13-day public display, more than 140,000 people saw the titan arum in person and over 670,000 unique viewers watched on the live web stream, making it one of the most publicly viewed flowers in the history of U.S. gardens. In addition to displaying rare plants in bloom, the USBG also hosts special exhibits like the popular annual holiday show and a biennial orchid exhibit in partnership with Smithsonian Gardens. The enthusiastic employees of the USBG continue their dedication to educating the public about ways to nurture the plants that support life on our planet and explaining the importance of plants to the well-being of our nation and the world.

Accomplishments

Congress and the American people can trust that the AOC is an exceptional steward of the resources provided to us every year. We carefully manage taxpayer money to ensure the very best value and prudent use of funds.

The AOC is dedicated to meeting the highest standards of government reporting by cultivating an atmosphere of accountability and responsibility. For the second consecutive year, we were recognized by the Association of Government Accountants (AGA) with its Certificate of Excellence in Accountability Reporting (CEAR) Award for our Fiscal Year 2012 Performance and Accountability Report. The annual CEAR award recognizes high-quality Performance and Accountability Reports and Annual Financial Reports that effectively illustrate and assess financial and program performance, accomplishments and challenges, and cost and accountability. We also received our ninth consecutive Clean Audit Opinion from independent auditors on our financial statements. In addition, the AOC cleared the material weakness from past years regarding our Internal Control Program and for the first time have neither material weaknesses nor significant deficiencies resulting from our annual audit.

Small businesses are the cornerstone of our success and developing partnerships by working with local small companies is a sustainable practice on which we will continue to build. In Fiscal Year 2013, we exceeded all of our small business goals, even surpassing the accomplishments achieved in Fiscal Year 2012. Specifically, we beat our goals for women-owned, veteran-owned and HUBZone small businesses, and awarded more than \$25 million to small businesses.

In 2013, the AOC successfully completed the planning and construction activities in support of the Presidential Inauguration and the orchestration of 222 post-election office moves for the U.S.



House of Representatives and 32 office moves for the U.S. Senate. In addition, we completed the restoration of the House Chamber ceiling during the August District Work Period.

We are true professionals, recognized by our peers, and Congress can count on us to get the job done. Industry professionals regularly acknowledge our work on construction projects. For example, the Construction Management Association of America recognized the AOC with multiple awards, including for our work on the East and West House Underground Garages and the Capitol Dome Skirt Restoration project.

Conclusion

Members of the subcommittee, our mission is to care for and preserve the iconic buildings on Capitol Hill for generations to come. Continued deterioration and deferment of critical maintenance poses great challenges to the AOC, but we will continue to work with Congress to provide our best professional advice and counsel on how to address these projects.

We appreciate Congress' support, and that of the American people, as together we make the investments necessary to preserve and maintain our national treasures. We developed our Fiscal Year 2015 budget request by prioritizing projects that allow us to be good stewards of our buildings and taxpayer dollars. There is much work to be done, but we believe that preserving the historic fabric of our nation is well worth the effort.

We look forward to our continued collaboration with you to serve Congress and the American people, preserve the historic facilities entrusted to our care and inspire and educate those who visit the U.S. Capitol.