

VIEW FROM *the* TOP

A newsletter from Commonwealth Dynamics, Inc., Specialists in Tall Structures



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- Salem Harbor Energy Project
- AEP/SWEPCO Welsh Station, Pittsburg, Texas
- Chimney Demolition, Cardinal Station, Ohio





SALEM HARBOR ENERGY PROJECT (SEE COVER PHOTO)

Footprint Power

**674MW Salem Harbor Energy Project
Combined-Cycle Gas Turbine Facility
Salem, Massachusetts**

The new Salem Harbor Station will be a 674MW natural gas fired, quick start combined cycle facility, and will replace the old coal and oil fired power plant which closed in June 2014. The new technology will make this plant one of the most efficient gas-fired plants in New England. Spanish EPC Contractor, Iberdrola, has selected Commonwealth to design and build the 230' tall chimney which will service the new Units 5&6. What is especially unique about this particular chimney project are the large cutouts at the top of concrete shell designed for architectural interest and visual appeal. Commonwealth topped out the shell in early Fall 2015 and is currently erecting the two (2) steel liners. The Commercial Operation Date (COD) for the plant is June 1, 2017.



895' CHIMNEY & LINER DEMOLITION PROJECT

**AEP/SWEPCO Cardinal Plant Unit 3
Brilliant, Ohio**

AEP's Cardinal Station Unit 3 stack was placed into service in 1977 and was decommissioned in 2011 due to the lack of a scrubber system. Commonwealth was hired to completely remove the 881' tall by 24' diameter interior steel liner, removal of all platforms, ladders, and other appurtenances, and removal of the upper 461' of the 895' tall reinforced concrete shell.

AEP/SWEPCO RETROFIT PROJECT

Welsh Generating Station Units 1&3 Pittsburg, Texas

Commonwealth was awarded a contract by AEP to design and build one (1) 531' tall x 63' outer diameter reinforced concrete chimney to service the newly retrofitted Units 1 & 3 to comply with an environmental deadline of Spring 2016.

Construction of the large diameter concrete shell was achieved by utilizing CDI's jumpform system with a 12-post derrick. The shell was constructed in 21 weeks (June 2014—October 2014) using approximately 4,300cy of concrete and 278 tons of reinforcing steel. Two (2) steel liners (Unit 1 & Unit 3) weighing approximately 589 tons total were pre-assembled and stored for erection; they were transported to the chimney base and erected in 15



weeks. Platforms, roof steel grillages, electrical, lightning protection, elevator and all other appurtenances were installed and completed ahead of schedule and under budget. Congratulations to our field team led by Dave Hostetler, Jimmy Franklin, Stacey Murray, Randy Haggard, Shawn Newsham and Jeff Robey, who were joined by Tom Hostetler to assist.

Right: 531' tall completed chimney shell at AEP Welsh Generating Station, TX
Left: Steel liner installation



DO YOU HAVE A CHIMNEY NOT IN SERVICE?

Commonwealth's engineering experts can assist our clients to evaluate the best use for a stack or chimney that has reached the end of its intended lifetime by completing an extensive analysis of the structure. Often the chimney or stack can be modified and utilized for another purpose, or if severely deteriorated may require complete demolition to ensure the safety of personnel and other surrounding equipment at the site. Please contact us to discuss your needs with one of our engineering and construction professionals.

COMMONWEALTH CELEBRATES 35TH YEAR ANNIVERSARY

On October 1, 2015 The Commonwealth Power Group marked 35 years of providing expert design and construction services for hundreds of stack and chimney projects around the globe. We extend our thanks and gratitude to our employees, clients, partners, and everyone who participated in our success. We look forward to reaching new heights in the coming years!



PLEASE CONTACT US!

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IN OUR NEXT ISSUE:

PROJECT UPDATE FOR TWIN COAL POWER PLANT, PUNTA CATALINA, DOMINICAN REPUBLIC

PRODUCTS

- Concrete Chimneys
- Steel Stacks
- Turbine Exhaust Systems
- Solar & Wind Support Towers
- Natural Draft Cooling Towers
- Storage Silos & Stacking Tubes
- Other Tall Specialized Structures

SERVICES

- Design & Engineering
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- Demolition
- Project Management
- Consulting

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