



Volume 59

4th Quarter 2016

Thinking Outside The Box

By: Kenneth H. Nelson, P.E.

Not all of the services we provide fall strictly in the category of design. We can sometimes add value to our clients' operations by providing an objective third party perspective or helping to think "outside the box".

Anticipating Client Needs

One of the services we can provide is helping clients do "big picture" thinking to anticipate challenges to their operations and help them be prepared to meet them. Years ago when I was in the chemical plant of a client, a torrential rainstorm hit one afternoon. I rode around the plant, mapped the areas that were flooding, and put the sketches in a folder for future reference. About two weeks later I got an urgent call from one of the plant engineers who said management was concerned over the recent flooding and that they would need us to do a study of how to fix it. I told him that would be no problem, I had sketches of the flooding situation in my file and we could start working on a solution immediately. He wondered how, and I told him I had been there the day it happened and could see this was going to need to be the next thing on their agenda.

My indoctrination into this kind of thinking began from hearing about my father's experiences during World War II as an engineer on the construction of training facilities for U.S.

Army troops at Camp Claiborne near Alexandria, Louisiana. The camp was expanding so fast that the sanitary facilities used by the thousands of new troops began to overwhelm the existing sewage treatment plant. He knew this situation could not long be tolerated due to the public health implications, so in his "spare" time (an inside joke for those who know how fast the pace was during World War II) he drew up plans for a treatment plant that could handle the increased load from the thousands of newly arriving troops. He got bids from some of the contractors already working onsite and put them in a file, waiting for someone in Washington D.C. to reach the obvious conclusion he had seen and prepared for. Some weeks later, a panicked call came from Washington that the troops were being exposed to unsanitary living conditions and that the situation needed to be dealt with immediately. Waldemar told the officer who delivered the message not to worry, that the work could start within the week. The officer stammered that was impossible, since plans would need to be prepared, bids received and evaluated, and an approved contractor engaged. Waldemar explained how all the necessary steps had been taken per regulation, and that construction could indeed start within a few days. Taken aback, the officer said he needed to figure out how he could report all this back to Washington. Waldemar sug-



gested they contemplate how to accomplish this over a drink in the officers' club, which they did, and the officer went back to Washington with a copy of the plans in hand and assurance that the problem had been dealt with in accordance with all the procurement rules. It was a fine example of how to anticipate and meet a client's changing needs. In the current turbulent economy, we are watchful for such opportunities and eager to help our clients meet their challenges.

One service we provide that makes use of anticipatory thinking is called HAZOP analysis, which is the exercise of looking at everything that

5 Years

Ryan M. Adams
 April C. Antoine
 Elizabeth B. Bahr
 Brooks J. Berggren
 Justin Bertheaud
 Daniel R. Borst
 Angelic M. Boudreaux
 Stephanie H. Breen
 Harold Brown, Jr.
 Tameeka C. Bullock
 Eugene Byrd
 Darrell D. Daws
 Michael S. Delatte
 Thomas L. Du
 Deborah L. Fulton
 Courtney H. Gaudet
 Patrick T. Hildebrand
 George T. Kosanovich
 Kristy-Le T. Nguyen
 Jared A. Leach
 Karen L. Matlock
 Jonathan S. McBride
 Slobodanka Muzdeka
 Robert J. O'Bryan
 Alvin L. Phelps
 Dave Pinner
 Hermon B. Russom
 Nicole K. Sciacca
 Jimmie Snyder Jr.
 Frank P. Tanguis
 George A. Treuil, III
 Ian S. Walsdorf
 Darrell A. Walsh
 Jaime A. Zamora



10 Year

I to r: Tom Grehan, Vincent Bologna, Lauren King, J.B. Shelley, Paul Sciortino, Tiphane Giroir, James Green, Daryl Hattier, Liem Ly, Raphael Magnotta, Stan Lafaver, Jason Frisch, Thu Quach, Marie Vonderheide, Jim Cheron and Clay Kirby



15 Year
Kenny Leaber



5 Years

I to r: Roy Phelps, Dave Pinner, Danny Borst, Boba Muzdeka, Justin Bertheaud, Harold Brown, Kristy Nguyen, April Antoine, Tameeka Calvin, Patrick Hildebrand, Brooks Berggren, Nicole Sciacca, Karen Matlock, Darrell Daws, Ian Walsdorf, Mike Delatte, Robert O'Bryan, Frank Tanguis.



Jim Lane and
Deborah Fulton
(5 years)



Hermon Russom
(5 years) and Jim
Lane



Jim Lane and Larry
Koeplinger
(10 years)



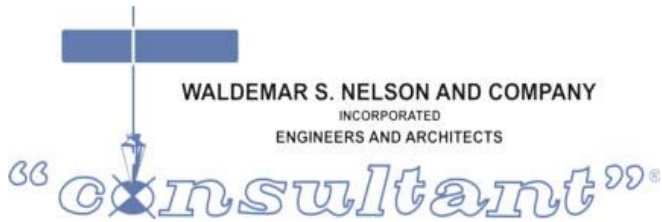
10 and 5 Years

I to r: Kevin Houghton (10 years), Thomas Du, Angel Boudreaux, Stephanie Breen, Elizabeth Bahr, and Jaime Zamora (5 years)



Scott McBride (5 years) & Kent Davis





1200 ST. CHARLES AVENUE
NEW ORLEANS, LA 70130

RETURN SERVICE REQUESTED

PRSR STD
U.S. POSTAGE
PAID
New Orleans, La.
Permit No. 650

Page 4

For an electronic version of the "Consultant" log on to www.wsnelson.com

4th Quarter, 2016

9th Annual Louisiana Engineering Society New Orleans Chapter Golf Tournament



The NELSON team participated in the 9th Annual Louisiana Engineering Society New Orleans Chapter golf tournament at Audubon Golf Club, October 7, 2016. Team participants were Dean Bickerton (Reynolds Company) Roy Phelps, Joe Lawton, Steven Mitchell (Freeport McMoran), Mike Fernandez (CTI), Daryl Daws, Joel Dorsa and Wayne Settoon.
Congratulations to Mike Fernandez with CTI who won the putting and gambling hole contests.