Who is Fluor?

- One of the world’s largest engineering, procurement, fabrication, construction and maintenance companies
- Designs, builds and maintains capital-efficient facilities for clients on six continents
- Delivers integrated solutions for clients in the energy, chemicals, government, industrial, infrastructure, mining and metals and power market sectors
- Serving more than 4,000 clients in over 100 countries
- #155 on the 2016 FORTUNE® 500 list with revenue of $18.1 billion in 2015
- More than 60,000 employees executing projects globally
- 105-year Fluor legacy

Fluor Corporate Headquarters
Dallas, Texas
SoCal Office

- Southern California Offices: (Aliso Viejo and Long Beach)
- Executing Projects globally as well as locally and these two offices employ about 950 people.
- Expertise in project management; front-end engineering; full engineering, procurement, and construction project execution; and key process technologies. The offices focus on the following areas:
  - Petroleum refining
  - Gas processing
  - Power generation
  - Gasification and IGCC Sulfur recovery
  - Carbon dioxide recovery
  - Infrastructure
  - Life Sciences
Engineering Skills

- Able to work in a team
- Good communication skills
- Curiosity - “how & why”
- Creative - solve problems
- Imaginative - new ideas
- Good math and science skills

http://www.sciencebuddies.org/fluor-challenge
http://www.discovere.org
Chevron Coke Drum Replacement Project

- Replace 6 existing coke drums in existing derrick structure
- Heavy complex lifts in close quarters and with minimal active construction time
- Took several years of planning for two weeks of execution
Modularization

- Modularization is an execution approach for engineering, procurement and construction that shifts construction hours away from the site.

- Goal of improving construction schedule and reducing safety risk.
The decision to modularize on a project has required many project teams to embrace innovation as the work process is very different.
Modularization – Why?

- Remote Site Location
  - Arctic & desert locations
  - Crowded area with limited plot space
- Adverse weather conditions at site
- Short supply of local skilled craft labor
  - Greater labor efficiency at an outside yard
- Insufficient local infrastructure to support a large labor force
- Need a suitable area available to receive and handle modules
Modularization Logistics – Construction Sequence

Fabrication Site → Module Loadout → Module Sealift

Final Location

Transportation to Site

Module Offload
If you worked for Fluor, you might . . .

- Change People's Lives
- Provide Power to the World
- Turn Ideas into Reality
- Apply Science to Solve Practical Problems
- Keep People Healthy and Safe
- Improve People’s Lives
Thank You!