

# AECOM – Nuclear Decommissioning Capabilities & Experience

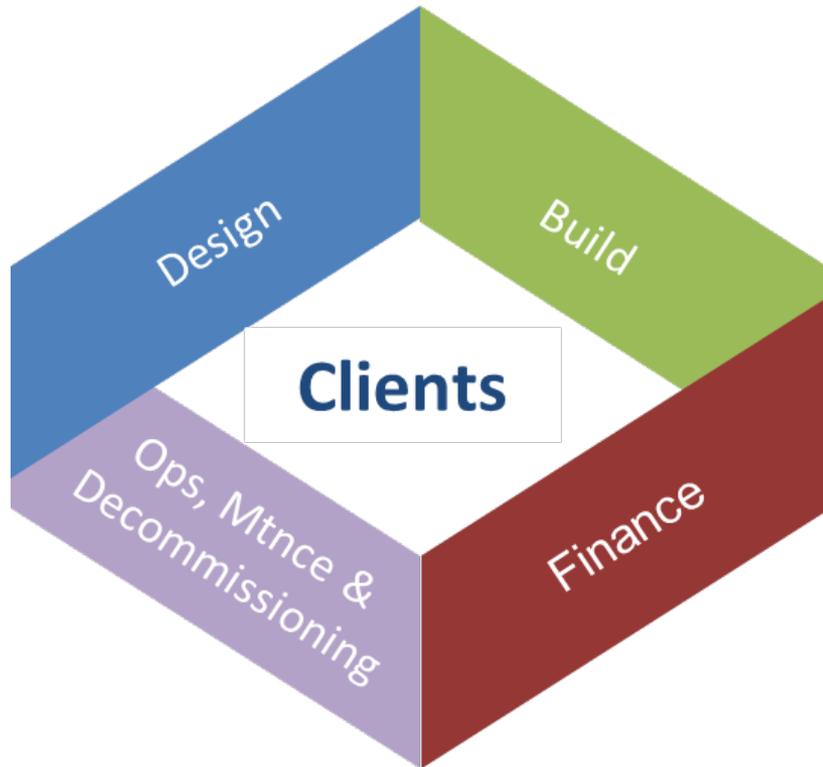
3<sup>rd</sup> Japan-US Forum on Fukushima  
Recovery & Decommissioning

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Tim Carraway, Director, International Projects

February 24, 2016

**AECOM**

# Who is AECOM?



## – Global, Integrated Service Provider :

- Design, Construct, Operate, Maintain, Decommission
- Almost 90,000 employees in nearly 150 countries

## – Leading Engineering & Construction Company

- Engineering News-Record rankings:
  - #1 Top 500 Design Firms (2015)
  - #1 Top 150 Global Design Firms (2014)
  - #1 Pure Design (2014)
  - #1 Transportation (2014)
  - #1 General Building (2014)

**~\$20B (¥2.2 Trillion) Nuclear, Industrial & Environmental Company**

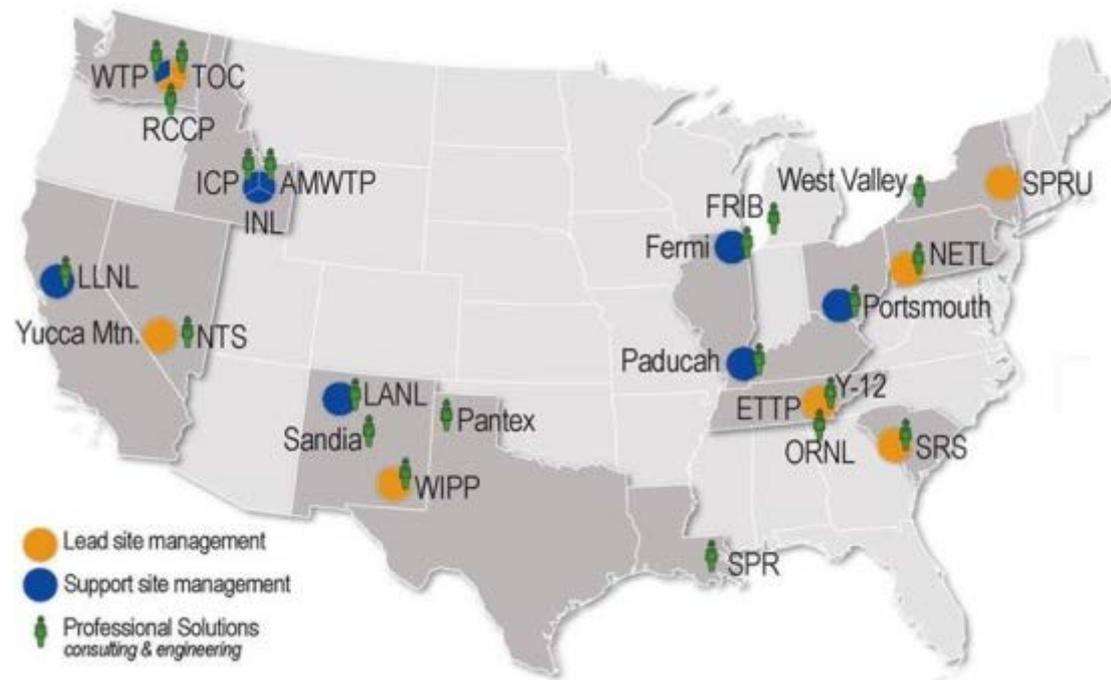
# AECOM's "Nuclear & Environment" Business



Nuclear & Environment

- Combined talent of leading nuclear and industrial companies
- 30 Years' Experience in Nuclear Decommissioning & Clean Up
  - ~20,000 people involved in decommissioning
  - Over 150 "Site-Years" of managing complex, high hazard sites
  - Commercial Reactors : the 3 "Yankees" (Rowe, Connecticut & Maine), Shippingport, Fort St Vrain, Three Mile Island
  - Over 1,650 facilities decommissioned at 9 sites, including 20 production and test reactors
  - 1,290 waste sites cleaned up
  - Design and Construction of needed Infrastructure Upgrades and Waste Treatment and Disposal Facilities
- Trusted by US & UK Governments
  - Annually, we manage \$5B (¥560B) of Government spending on nuclear decommissioning
  - We have SAVED our customers over \$2.3B (¥258B)

# Market Leader on US Complex, High-hazard Nuclear Sites



## – Nuclear facility management, decontaminating & decommissioning (D&D) and waste operations for the U.S. Department of Energy (DOE)

- Lead at 7 and partner at 5 DOE sites
- Technical support at 5 DOE national labs
- Total spend managed in US ~\$3.8B (¥426B) pa

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# Market Leader on UK Complex, High-hazard Nuclear Sites

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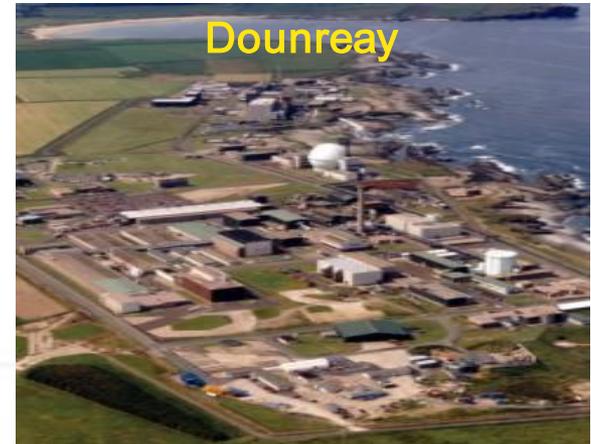
- Lead manager at Sellafield Nuclear Complex (over 1,000 facilities, 100 decommissioning projects)
- Lead manager at UK's National Low-level Waste (LLW) Repository and responsible for national strategy
- Fuel and Waste Scope at Dounreay
- Total spend managed in UK ~\$1.2B (¥134B) pa



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# Experience on Complex, High-hazard Nuclear Sites

## Completed Decommissioning

- 1,650 Facilities
- 20 reactors

## Waste Disposal

- >3 million m<sup>3</sup> LLW
- 5,260 m<sup>3</sup> TRU

## Spent Fuel

- >3000 Fuel Elements transferred from wet to dry storage

## Repositories

- Manage many LLW disposal facilities
- Responsible for UK national program
- Design and Build of Waste Storage and Disposal Facilities

## Billion \$ Programme Management

- Lead at 9 sites
- Partner at 6
- \$5B (¥560B) annual budgets

## HLW Vitrification

- Managing all UK and U.S. plants

## Technology Deployment

- We've used most of them – we know what works well and what doesn't
- Proven, off-the-shelf, modified to suit = most cost effective

どうもありがとうございます

Thank you

February 24, 2016

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