Hanford Site Infrastructure

Robert Wilkinson

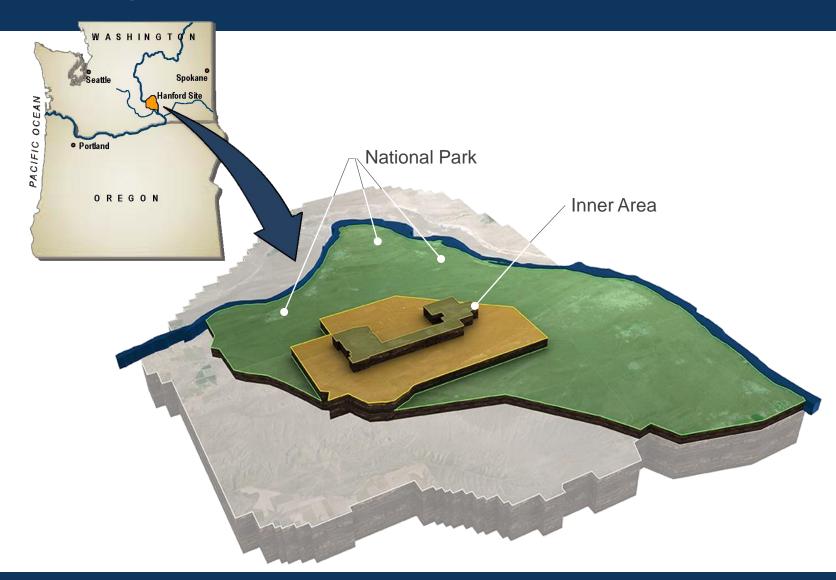
Chief Operations Officer, MSA







Hanford Site







Hanford & Mission Support Alliance









Lead Sitewide Integration



Right-Size the Infrastructure



Implement Service Delivery Model





Realize Innovations and Cost Savings



Excel in Safe and Secure Performance of Work



Prepare for the Future

MSA

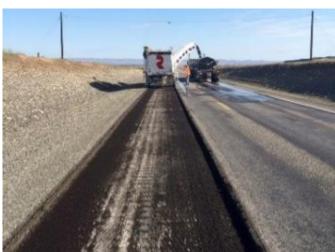
Fixed M&O **FAR UBS Unit Rate**





Roads – Challenges & Needs

- 350 miles of primary roadway
- 7,669 average daily trips (entire site, average weekday)
- 10,000 freight items per month
- 1 million square yards of paved surfaces













Electrical Utilities – Challenges & Needs

- 4 substations
- 600 transformers
- Nearly 6,000 wood poles
- Over 180 miles of electrical lines













Water Systems – Challenges & Needs

- Over 100 miles of buried piping
- 4 pump houses, 4
 major reservoirs, and
 2 supplies from
 Columbia River
- 130,000 gpm combined pumping and 50M gallons storage
- 400M gallons of raw water annually













Sewer System – Challenges & Needs

- 37 septic tanks and soil absorption systems
- 31 acre evaporation lagoon with 55,000 gallon capacity
- 10 equalization basin holding tanks











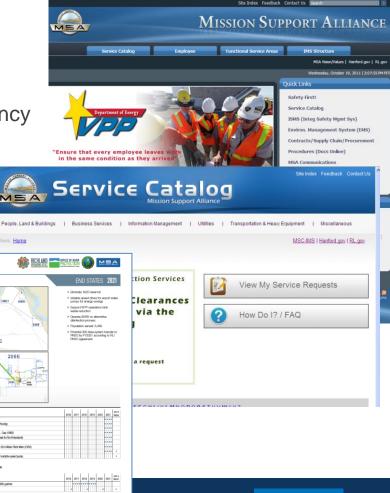


Opportunity/Process

- User based services
- Integrated sitewide infrastructure planning
- Right-size the infrastructure
 - Mission assurance based reliability and redundancy

Water Roadmap: Export, Raw, and Potable

- Just-in-time
- Integrated service delivery model
- Employee attrition
 - Connect Tri-Cities







Sitewide Benefits

- Increased visibility of service delivery and understanding of conditions and infrastructure
- Infrastructure costs are now visible opposed to hidden on projects
- Modified behavior of excessive/under-utilized consumption on services through usage-based charging
- Cross-contractor collaboration improves overall delivery of services
- Realizing significant cost savings





Cost Savings & Avoidance







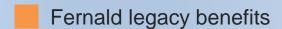
Hanford Site Infrastructure

Thank you





FY14-FY16 Cost Savings & Avoidance Summary



- Scope absorption without additional funding
- Workforce restructuring from prior years
- Operating excellence and innovations
- Hanford benefits funding strategy
- Labor skill mix and strategy



All cost savings and avoidance artifacts are provided to DOE annually



