

● Callaway

● Diablo Canyon

● Palo Verde

● Wolf Creek

STARS Alliance LLC Update

May 2016

Desired Outcome

- Provide a meaningful overview of STARS Alliance LLC including focus areas and initiatives

What is STARS?

Limited Liability Company formed in 2012

- A tool for the Members to work together to improve nuclear plant performance and save money
- An alliance, not a fleet

Comprised of 4 nuclear generating stations (7 units) in 4 western states

- PWRs
- Similar age
- Region IV
- Westinghouse OEM

STARS Alliance LLC

- Union Electric Company d/b/a Ameren Missouri
 - Callaway (Missouri)
- Pacific Gas & Electric
 - Diablo Canyon (California)
- Arizona Public Service Company
 - Palo Verde (Arizona)
- Wolf Creek (Kansas)



How Big Is Our Alliance?

Fleet/Alliance	Number of Units
Exelon	22
USA	16
Duke	11
Entergy	10
NextEra	8
STARS	7
Dominion	6
Southern Company	6
TVA	6
First Energy	4
Xcel Energy	3
Independent	1

Vision: Excellence Through a Strong Alliance

Focus Areas

Manage Projects of Common Interest

- Where coordination beyond supply chain is needed
- Improves plant performance and reduces cost

Save Money Through Supply Chain

- Total cost of ownership
- Supplier partners

Improve Station Performance

- Functional Areas/Peer Teams
- Key performance indicators
- Leverage supplier experience
- Collaboration IT infrastructure

Progress to Date – a few examples

Accomplishments	2012	2016
Station Performance		
INPO Index (as an Alliance)	8 th	2 nd
Member Savings		
Savings to Members	\$7.8 million	\$17.23 million
Spend with Supplier Partners (SP)	7 Members / 55 SPs \$52 million	4 Members / 40 SPs \$150 million
Projects Members utilize same STARS Supplier Partner (SP)		
License Renewal Applications	3 of 4 Members w/Renewed Operating Licenses	
Emergency Action Level	3 of 4 Members w/Rev. 4 complete	
Fukushima	<ul style="list-style-type: none"> ✓ Common procurement for FLEX equipment ✓ Common SP for FLEX equipment preventative maintenance services (in progress) 	
Design Change Modification	Common “Mods” procedure	

Looking Forward – a few targets

Manage Projects of Common Interest

- Open Phase implementation
- Cyber Security
- Renewed Operating License implementation
- Obsolescence solutions

Save Money Through Supply Chain

- Efficient implementation of Delivering the Nuclear Promise
- Double Supply Chain savings by 2018

Improve Station Performance

- Hiring additional Functional Area Managers (FAM)
 - Operational Goal: Operational Excellence & NEI/DNP
 - Strategic Goal: FAM for each Peer Team
- Equipment Reliability (ER) focused assessments
 - Emergent issues process (in place)
 - Focused assessments by indicators (next up: Emergency A/C power)

Questions & Discussion