Employee Recognition Awards

#1

SAND2014-3995P

Nomination ID	12635
Team Name	Rod Control Modification Team
Division	1000
Team Nomination Description	Recognizes teams whose exceptional contributions are critically enabled by teamwork, and model the values of people working together toward a common goal, proactively looking for and acting upon opportunities to improve, while being fully accountable for their performance.
Status	Submitted
Winner/Nova	No/No
Synopsis	*This Synopsis will appear on award certificates and will be read by the presenter during the award ceremony.* Three projects were completed in parallel to address a control rod motion anomaly at the ACRR to minimize down time and customer impacts.
Criterion A	***Quality of Team:*** *Customer focused (cost/performance/schedule); noteworthy creativity and dedication; synergy/shared responsibility.* The team was united in the goal of returning the ACRR to operation in a timely fashion while following the processes of TA-V and adhering to the nuclear safety culture principles. There were three different efforts taking place in parallel: forensics project, modification project, and an external red team project from LLNL. The three efforts had to communicate to each other so that the likely cause was determined, effective solutions could be put in place, and an external review team could follow and recommend the process taken by TA-V. Members of the teams included staff from all departments in 1380. Multiple possible solutions were identified, and based on the forensics findings, three solutions were chosen to be implementrd. A schedule was devised to guide the work during installation and the teams only deviated from the completion date by a few days. This can be attributed to the team's ability to work together efficiently.
Criterion B	***Significance of Team:*** *Completed project or milestone that brings distinction to Sandia or solves a problem with broad impact; unique approach or innovative solutions.* The rod control anomaly added to the lack of stakeholder confidence of a safety system at the ACRR. The process of shutting down and completing three projects and a Readiness Assessment Checklist, following all of the processes in TA-V in a timely manner, gained back some of that confidence lost in the system. The team was able to show through engineering changes, USQD, QA, and testing processes that the system could meet its

	safety requirements. The RA checklist provided even more confidence that the team did an exceptional job on the projects.
Criterion C	***Supporting Evidence:*** *Exceptional advances made, e.g. "Best Practices," productivity, cost savings, enhanced reputation of Labs, awards, patents, etc.* After completion of these projects, the RA did not find any pre-start findings and identified three noteworthy practices: peer review of software modifications, detailed notes highlighting software changes, and a comprehensive review of the existing system documentation to ensure CM. A CMMI SCAMPI C appraisal was done on the project and the results were compared to a previous SCAMPI B assessment of 1380. The projects showed significant signs of improvement in conducting work at TA-V over the past year. These projects had high visibility in the NNSA complex, all the way back to headquarters. The processes followed by the team were highlighted as something that should be become standard across the complex.
Criterion D	***Clearly and concisely, and through the use of specific examples, describe how the performance of this work modeled behavior and commitment to Sandia's safety, security, quality, diversity & inclusion, ethics, integrity, and/or core values.*** Conducting three projects in parallel meant that there was an enormous amount of teamwork with all of the organizations in TA-V. The teams included members from all areas, including engineering, operations, safety basis, quality assurance, software quality, experimenters, SFO, and management. Everyone on the team trusted that other members of the team would complete their part/processes to allow work to be completed on schedule. The design portion of the project included coming up with innovative ideas to address new management concerns with the ACRR system. The team adapted to these concerns and made an extra effort to ensure all the concerns were addressed in the final design (adding a RO enable relay and the Drive Motion Watchdog). Starting with the initiating event that led to these projects where the reactor operator followed nuclear safety culture practices and performed a manual SCRAM and ending with a self-imposed readiness assessment, safety was the major theme of the projects. Management elected to shutdown the facility until a plausible solution was found and modifications were in place to prevent it from occurring again. For all aspects of the work, the team ensured correct procedures/policies were utilized to maintain configuration management of the projects and the quality of the modification and documents.
Supplement	After a rod control anomaly shut the ACRR down, the teams pulled together to determine the best solution based on their forensics study and management concerns. This led to three creative modifications being completed to address the issues. Review from an external red team from LLNL recommended the team was on an appropriate path. The work was completed in a timely manner, while still assuring quality and safety were integral

	in every step. The team was able to finish the project within two weeks of the aggressive scheduled end- date and the readiness review found three best practices from the team's work, without having a pre-start finding. Because of the efforts of the team, there was minimal impact to experimenters' milestones: QASPER fell behind a few weeks to a month and the ALT-88 milestones were not impacted.
Originator	Patrick Snouffer, Org. 01385, Job Title: Research & Development
Nominator(s)	Paul H. Helmick, Org. 01385, Job Title: Research & Development Patrick Snouffer, Org. 01385, Job Title: Research & Development
Team Rep	Patrick Snouffer, Org. 01385, Job Title: Research & Development
Team Members	James F. Arnold, Org. 01385, Job Title: Research & Development Raymond D. Beets, Org. 01385, Job Title: Research & Development Michael Kenneth Black, Org. 01385, Job Title: Research & Development Matthew J. Burger, Org. 01380, Job Title: Research & Development Ralph D. Clovis, Org. 01381, Job Title: Engineering and Operations Kevin Charles Dussart, Org. 01387, Job Title: Project Management Joshua Emmer, Org. 01381, Job Title: Engineering and Operations John T. Ford, Org. 01381, Job Title: Engineering and Operations Paul H. Helmick, Org. 01385, Job Title: Research & Development Shawn Cameron Howry, Org. 01382, Job Title: Quality Krista Irene Kaiser, Org. 01381, Job Title: Engineering and Operations James Oscar Klein, Org. 01381, Job Title: Engineering and Operations Lance L. Lippert, Org. 01381, Job Title: Engineering and Operations Lonnie E. Martin, Org. 01381, Job Title: Engineering and Operations Anthony R Matta, Org. 01385, Job Title: Information Technology Carol Suzanne Mistretta, Org. 01385, Job Title: Union - Administrative Support Ken Mulder, Org. 01385, Job Title: Engineering and Operations Kayla Chantel Nowlen, Org. 01385, Job Title: Research & Development Richard James Pratt, Org. 01382, Job Title: Quality Norman F. Schwers, Org. 01381, Job Title: Engineering and Operations Robert K. Zaring, Org. 05794, Job Title: Research & Development