

Putting Your Investment in Enterprise Technology to Work

“Shifting” the Focus

Nuclear Council Overview



Rory Shaffer
SAP Labs LLC
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THE BEST-RUN BUSINESSES RUN SAP™





August 2005 – First SAP Nuclear Council meeting held at American Nuclear Society's annual Utility Working Conference

Stated Objectives were to:

- Develop **two-way communication** between SAP and the nuclear power customers,
- Nuclear power customers to **Understand** the process around product direction, SAP's partners and how enhancements occur, and
- Provide insights and **thought-leadership** for future product enhancements and direction focused on nuclear.

Since then, the SAP Nuclear Council has met annually at the ANS UWC, held quarterly Webex meetings. Adhoc meetings at the SAP Centric EAM conferences have become formal working sessions, and the Council has initiated the concept of working groups, benchmarking, and recognition of best practices, modeled on industry Communities of Practice

Today's Nuclear Council Chartered Objectives



Solutions Benchmarking: Exchange implementation and productive operation experiences from the usage of SAP for Utilities solutions and any cooperating software. Identify SAP nuclear best practices.

Solutions Strategy: Identify significant trends within the Nuclear Industry and determine their effects on SAP for Utilities and partnering products. This will provide a forum for deeper work and collaboration with SAP and unearth opportunities for SAP platform and application evolution.

Custom Development Collaboration: Participating members will collaborate on business requirements and funding for custom developments for emerging business needs outside of standard SAP solution offerings.

Product Strategy: Support SAP by recommending content and chronological order of developments and services in order to improve the value and overall usability of SAP for Utilities. Provide network and growth opportunities to SAP nuclear customers

How Do Participating Utilities Benefit?



- Identification of SNPM process **best practices** at peer US Nuclear facilities will allow utilities to optimize their SAP configurations to improve process effectiveness
- **Collaboration** with peer SAP utilities will allow for cost sharing for common development needs (e.g., exploration of NRC Work Rule solutions options) that will have a higher possibility of becoming core SAP functionality in future releases reducing total cost of ownership (TCO)
- Allow the SAP Nuclear fleet to **influence** SAP on product direction and future functionality

Who Is Involved Today?



Nuclear Stakeholders in North America (15 units):

- Cooper Station (NPPD)
- Diablo Canyon (PG&E)
- SONGs (SCE)
- STP (NRG Energy, Austin, San Antonio)
- Davis Besse, Perry, Beaver Valley (First Energy)
- Hope Creek, Salem (PSEG)
- Point Lepreau (NB Power)



TM



New Dimension Solutions Inc.





Process and Portfolio Benchmarking

Have completed initial CAP (corrective action) documentation process and are working on a valuation model to identify best practices and innovation

Establishing WM, CM, OP, MS and ER Working Groups

Special Projects

NRC Work Rule Focus Group to determine if common solution should be pursued

- Refining common requirements
- Allows for opportunity to share costs if we choose to participate in development phase
- Will enable possibility of solution to become core product after initial development if a common solution can be defined / found that merits global common applicability

SAP Based Corrective Action Process Basics

Corrective Action Process Summary (High level Summary)

The performance improvement process provides a means to ensure business results are achieved through effectively monitoring performance, identifying specific actions to improve less-than-expected performance, and implementing change to improve performance. It includes incorporation of operating experience and analysis of adverse conditions to prevent recurrence. This process applies to overall plant performance, process performance, human performance, and material condition.

Defined Sub-Processes

- Problem Identification
- Triage & Screening
- Assessment & Evaluation
- Corrective Actions
- Trending & Reporting

These will be the same for each Utility to allow for benchmarking and comparison.



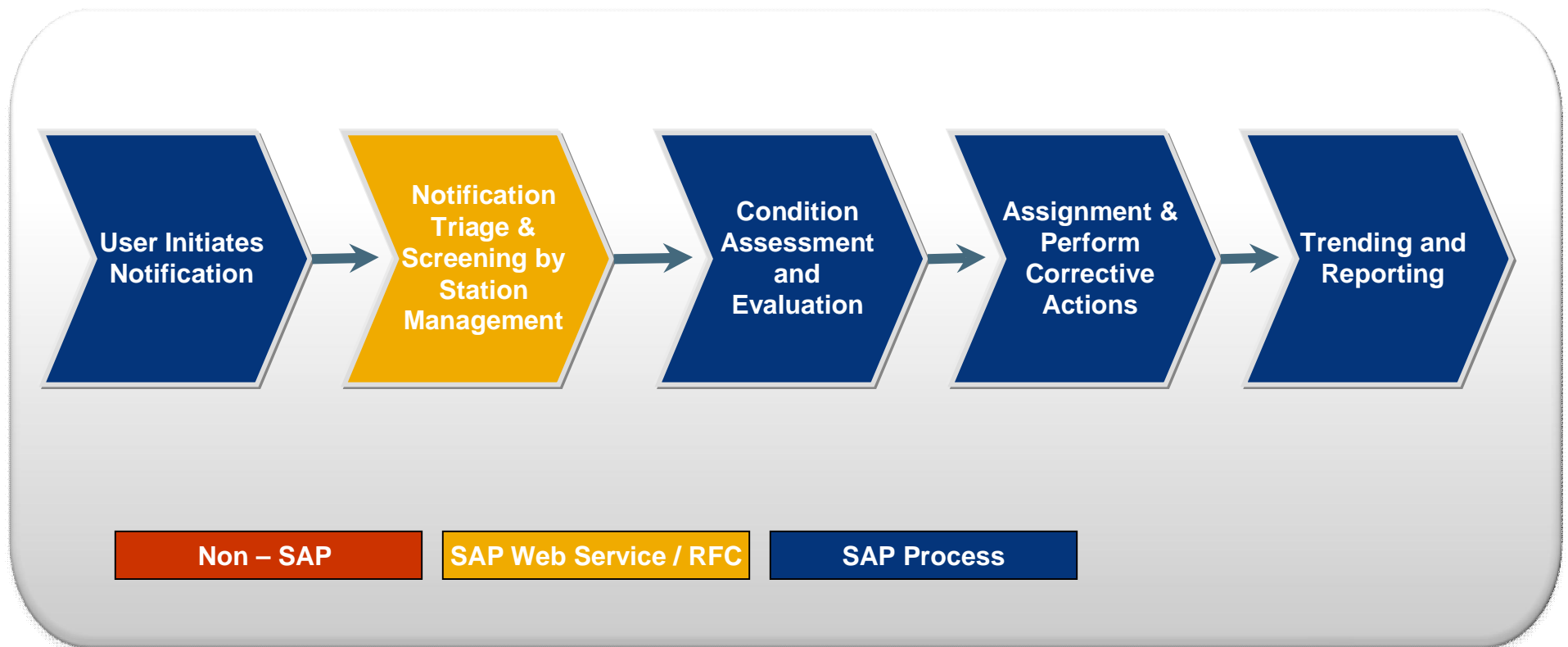
PSEG Nuclear

- 3 Unit Nuclear Site
- Hope Creek GE BWR (1)
- Salem Generating Stations W PWR (2)

SAP Based Corrective Action Process - PSEG



High Level Process Summary:



SAP Based Corrective Action Process - PSEG

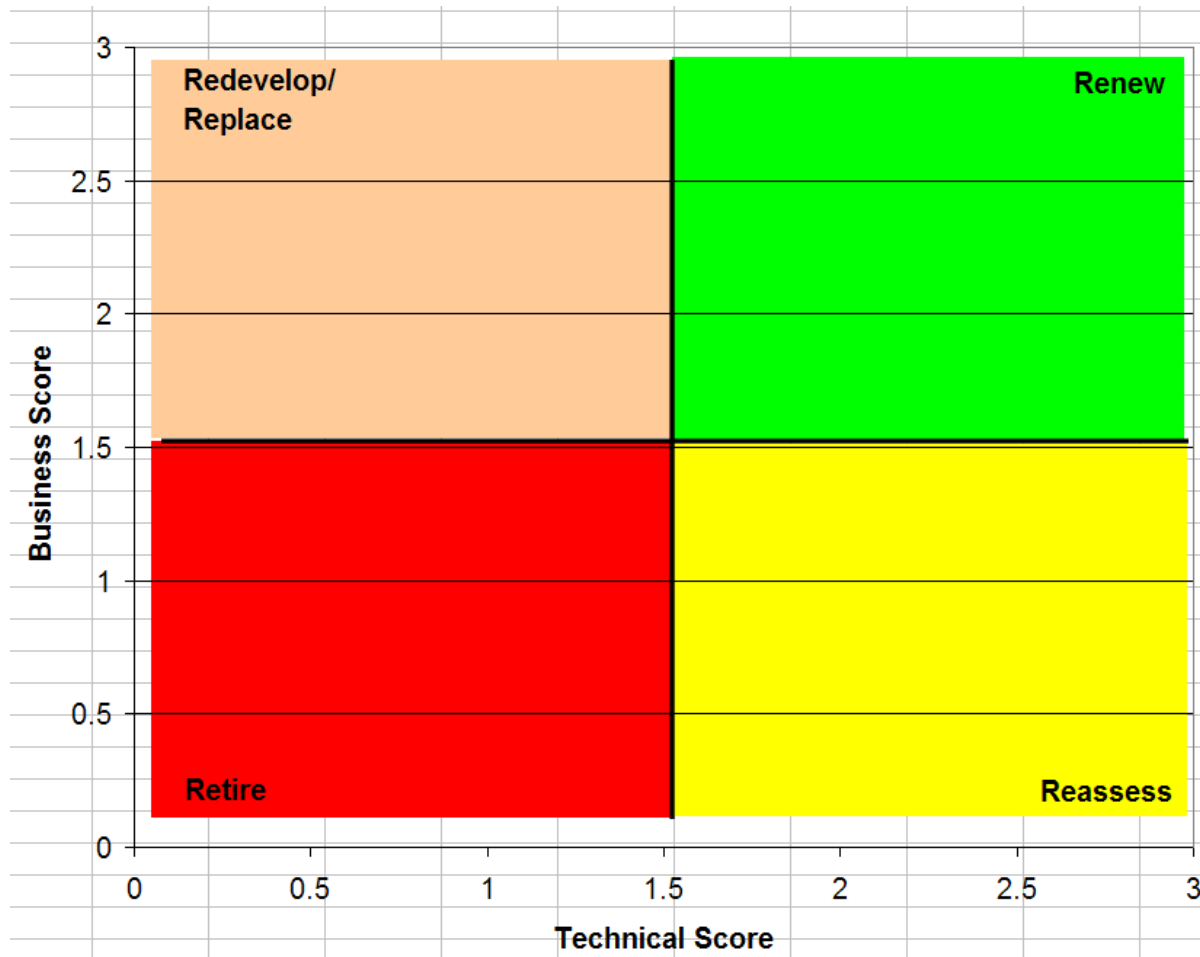


High Level Process Summary:

Key Design Characteristics	Details		
High Level Solution Description	Problem identification, screening, resolution, trending, reporting and feedback within SAP and Web based tools.		
SAP Version, Modules, Objects used	SAP Version: ECC6.0 Module: Plant Maintenance Objects: Orders and Notifications		
Key Process Points	Allows for resource / capacity management of CAP process. Process includes labor charging against CAP items and CAP process costs at the plant component, system, process or procedure level. Allows for CAP work items to be treated and managed by the user as individual work items. All work items including CAP are in same queue. All items including procedures are defined as functional locations to enable full CAP reporting		
Benefits & Productivity / Efficiency	No duplicate configuration / system required to do full work and cost management of the CAP process.		
Cost Savings Impact			
Innovation Areas	Web integration, Initiator Feedback, Online triage process, Date compliance monitoring, Human error trap preventions		
Process Areas not within SAP	Notification Screening & triage use SAP Web Service (ESOA)		
Annual Process Volumes / Throughput	30,000 Notifications Total and 12,400 associated with Corrective Action Process		
Years in Service.	9	Solution Complexity Initial Realization (1-10, 10 High) = 7 Continued Process Management (1-10, 10 High) = 3	
Future Optimization Areas	Optimized formatting, storage and text searching of completed reports		

Process Portfolio Goals

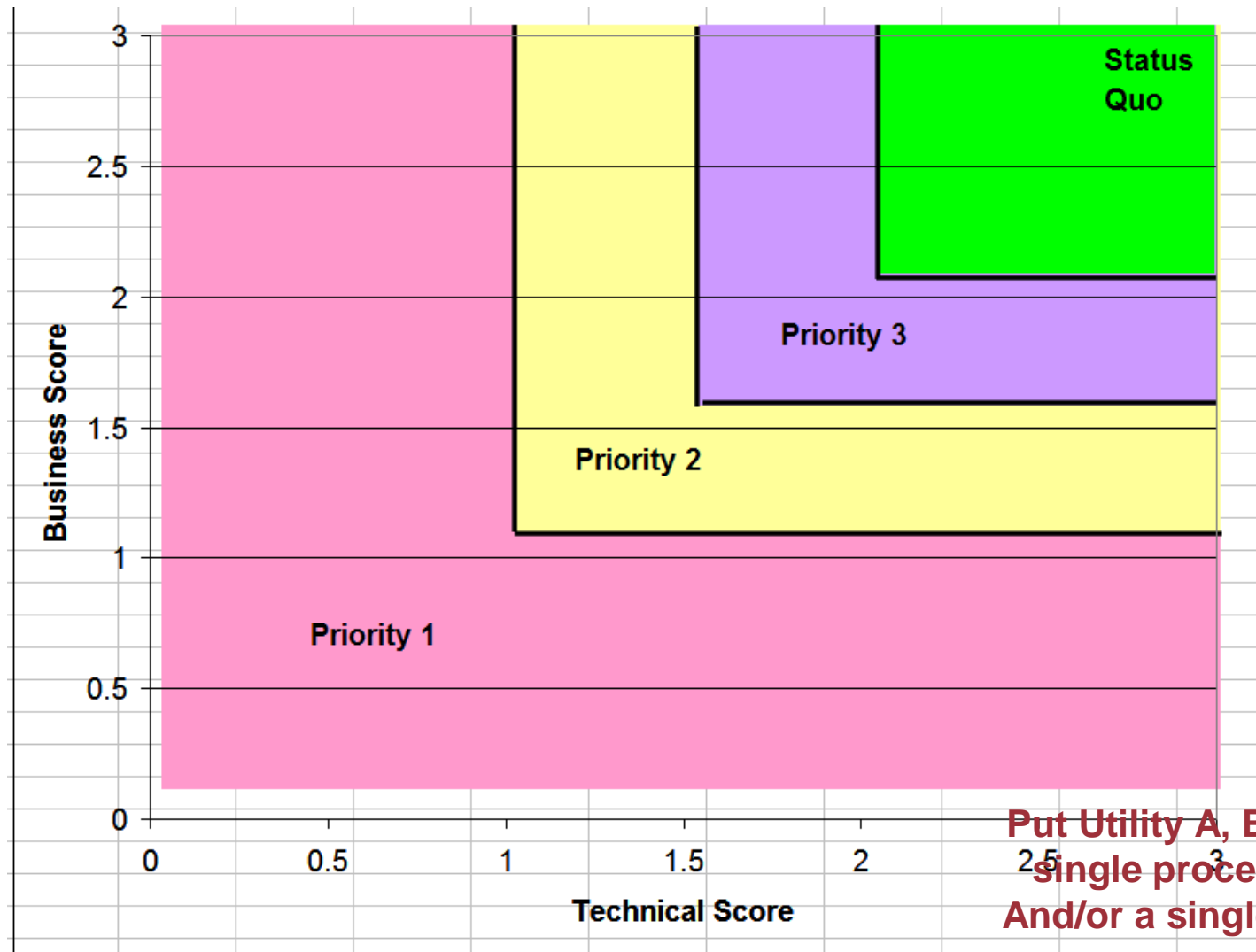
How Valuable is the Process?



**Put Utility A, B, C, etc. for a single process, e.g., LP002
And/or a single utility for all processes**

Process Portfolio Goals

What Happens Next?



Put Utility A, B, C, etc. for a single process, e.g., LP002
And/or a single utility for all processes

Council Promotes Collaboration And Change Management



Strategies

**Knowledge
Development**

Control Costs

**Knowledge
Preservation**

**Mitigate
Risk**



Continuous improvement - follows the SNPM!



Shared new solution development – meet reg demand!



“SAP Nuclear Cookbook” – for you chickens out there!



Align solution priorities with business needs and trends

Identification of Best Practices



Criteria based upon nuclear TIP award process started by NEI

- Safety
- Cost savings impact
- Innovation
- Productivity / efficiency
- Transferability

Acknowledgement within the SAP ecosystem and the broader Nuclear community

2008 TIP AWARDS

Recognition Brings Rewards

Every day you bring the best to your job. When it comes to improving safety and efficiency, you are innovative and resourceful—leaders in creating the high standards that make the nuclear industry successful. Now all you need to do is tell us about it!

Since 1994, the Top Industry Practice (TIP) Awards have highlighted and rewarded the new ideas and techniques that you have developed. In seeking and sharing best practices, you help your company have a profound and direct impact on the success of the nuclear energy industry.

Sponsored by the Nuclear Energy Institute (NEI), in conjunction with Nuclear Steam Supply System (NSSS) vendors AREVA, GE Energy and Westinghouse Electric Company, the TIP Awards symbolize the U.S. nuclear industry's highest recognition of excellence.

2008 Award Categories

Fourteen awards will be presented this year.

4 NSSS Vendor Awards (\$3,000 each)

- AREVA
- GE Energy
- Westinghouse Design
- Westinghouse-Combustion Engineering Design

Each NSSS vendor will choose a winner from its group of entries.

9 NEI Process Awards (\$2,000 each)

- Operate Plant
- Configuration Management
- Work Management
- Equipment Reliability
- Materials and Services
- Management Processes and Support Services
- Loss Prevention
- Training
- Nuclear Fuel

Winners will be selected by the TIP Committee—an industry panel chaired by NEI—with representation from each NSSS vendor sponsor, the Institute of Nuclear Power Operations and the Electric Power Research Institute.

Vision and Leadership Award Based on the standard TIP judging criteria/metrics, entries that score well but do not win an award may be considered for a TIP Vision and Leadership Award.

Recognition for vision and leadership will be awarded only in cases where the committee identifies an entry (or entries) that fit the established criteria. It is not required that a TIP Vision and Leadership Award recipient be selected each year.

Best of the Best NEI will choose an overall award winner from the NEI Process and NSSS Vendor Award winners. The prize is an additional \$5,000 and the B. Ralph Sylvia Best of the Best trophy.

Award Criteria

Who The TIP Awards are open to individuals and teams from U.S. companies that have created and implemented transferable new practices— or improved processes and equipment—within the past three years. Entrants must be members of both NEI and their sponsoring NSSS vendor owner groups. Entries will be accepted from Nov. 5, 2007, to Feb. 4, 2008.

What To be considered for a TIP Award, the new process or practice must be implemented and address the following criteria:

- Safety** The entry should maintain or enhance nuclear safety, radiation protection safety and/or industrial safety, as applicable.
- Cost-Savings Impact** The entry should include a clear description of how the process or practice demonstrates significant, tangible cost savings. Quantitative or qualitative information should be included.
- Productivity/Efficiency** The entry should clearly define the measurable increase in employee/organization productivity that were gained. If applicable, state how the improvement was collaborative.
- Innovation** The entry should illustrate how the improvement is unique. Explain how it offers a fresh approach to a standard problem.
- Transferability** The entry should explain how this new knowledge is transferable across the industry or within a fleet.

All TIP Award winners will be recognized at a special gathering during the Nuclear Energy Assembly—the annual meeting of the Nuclear Energy Institute—on May 5-7, 2008, at the Fairmont in Chicago, Ill.

All entries will be posted on the NEI member Web site.

Enter Online

Coming up with the innovation is the hard part. This is the easy part.

Log on to tipinvention.org. You can obtain a password from your company's NEI administrative point of contact or by e-mailing NEI at membership@nei.org. Click on "TIP Awards honor innovation" on the NEI member home page.

Review the complete Standard Process Definitions for 2008. The process categories are aligned with the NEI Standard Nuclear Performance Model.

Browse through previous winners and their project summaries to see a snapshot of past TIP success stories.

View previous resolutions online to see how past winners presented their projects.

Submit all entries via the Internet. No material submitted to NEI will be returned, nor will NEI be responsible for lost or damaged entries.

If you have any questions about the entry process, please contact Erika Darns at 202.27.39.8150 or ed@nei.org.

NEI
NUCLEAR ENERGY INSTITUTE

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The goal is to increase collaboration. This requires

- Active participation from a combination of interests – Business, IT, Business Partners (Consultants), SAP
- Gathering information from your business in the form of projects focused on specific objectives
- Commitment
- Support from leadership

Wider utility participation envisioned



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