# PARTS Asset Management Solutions (PAMS)

# fact sheet

# GEH PAMS ... A Custom PARTS Solution to Help Ensure the Lifetime Availability, Reliability & Performance of Your Electronics Systems

#### Do You Have Quality Parts Available To Keep Your Systems Operational?

If your answer is "Maybe", "No", or "I don't know", you are not alone. Due to obsolescence, the risk of counterfeits and various supply chain constraints, ensuring a sufficient quantity of quality spare parts are on hand to safeguard that your plant is operational is challenging. As the industry leader in Boiling Water Reactor (BWR) technology, GE Hitachi Nuclear Energy (GEH) offers a wide range of products and services that help ensure the safe operation and maintenance of the plant, while bringing greater efficiency and output. GEH PARTS Asset Management Solutions (PAMS) provides nuclear plant customers a proven methodology that will enable the proactive identification of spare part issues and their associated solutions. Implementing PAMS will enable you to confidently answer "Yes! I do have quality parts available to keep my systems operational."

#### PARTS Asset Management Solutions (PAMS) Methodology

The four steps to successfully deploying PAMS:



1: Scope

#### Key Tasks:

- Site team and GEH define project scope, i.e. the systems and parts that will be evaluated to determine issues and associated solutions
- Define operational meanings of key terms, i.e. critical parts, obsolescence, inventory management parameters, etc.

#### **Deliverables:**

• Project scope defined

 GEH completes a comprehensive analysis of the parts in scope and using GEH's proprietary database, generates a System Health Report (SHR)

2: Assessment

- SHR will identify obsolescence, end of life, shelf life, counterfeit risks and inventory management issues
- System Health Report
- Customized recommended solutions

- Site Team and GEH collaborate to develop action plan
- GEH deploys resources to implement action plan

**3: Execution** 

• Update System Health Report with current data for parts in scope

4: Refresh

 Repeat steps 1 – 3 for new systems added to scope

- Deploy Customized GEH Solutions
- Generate System
  Improvement Report
- Up-to-Date System Health Report

# **GEH System Health Report**

Customer: xxxxxx Plant: xxxxxx System: NUMAC

Date: July 20, 2011

Spare Part Details					Inventory Management							Risk Categories					
GEH Equip. Package Number	Part number	Part Description	Qual Class	Total Install Unit 1	Total Install Unit 2	Customer Part Number	Inventory Qty	Qty On Order	Recom. 3-Year Spares	Recom. Qty To Order	Shelf Life (Months)	Shelf Life Risk	Obsolescence Rating	Failure Risk	Counterfeit Risk	Criticality (H, M, L)	
64.xxxx	237xxxxxxxx	Thermal Limit Monitor	NS	2	2	22203xxxxxx	0	1		0	36					L	
64.xxxx	234xxxxxxxx	Logic Card	NS	4	4	022203xxxxx	1	0	1	0	36					L	
64.xxxx	234xxxxxxxx	Module	NS	2	2	022203xxxxx	1	0	1	0	36					L	
64.xxxx	234xxxxxxxx	I-O Board	NS	2	2	022203xxxxx	0	1	1	0	36					L	
64.xxxx	<b>304</b> xxxxxxxx	Logic Processor Monitor	S	4	4	22203xxxxxx	0	2		0	36					н	
64.xxxx	148xxxxxxxxx	RCVR Card Assembly	s	8	8	022203xxxxx	0	0	2	2	36					н	
64.xxxx	148xxxxxxxx	XMITR Card Assembly	s	12	12	022203xxxxx	0	0	2	2	36					н	

# **GEH Solutions**



# Spare Parts

- Quote-to-Order
  parts fulfillment
- Inventory Management
- OEM Certified

# Expanded Exchange Services Program (EESP)

- Obsolescence Managed by GEH
- Parts shipped in 24 hours
- 5 Year Partnership

## Engineering Services (ES)

- Obsolescence solutions identified during quote phase
- OEM Certified Replacements
- Better Alternative Than 3rd Party Reengineering

#### **Inventory Management:**

**Objective:** Identify situations where Customer inventory quantities are less than "recommended spares" quantities

#### Legend:



Customer inventory quantity less than recommended spares quantity

Customer inventory quantity greater or equal to recommended spares quantity

Action Plan: Assess if order quantities highlighted in "Recommended Oty To Order" column need to be ordered

## Shelf Life Risk:

Objective: Highlight parts whose shelf life has expired

#### Legend:



Shelf Life Expired



80% Shelf Life Used



Less Than 50% Shelf Life Used

Action Plan: Determine if expired shelf life parts are usable. GEH Engineering Services (ES) can provide options on how to extend shelf life periods

### **Counterfeit Risk:**

Objective: Highlight parts that are linked to counterfeit components

#### Legend:



Counterfeit identified



No known counterfeits

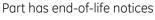
Action Plan: GEH Engineering Services (ES) can provide details on the counterfeit components, i.e. manufacturer & methods to confirm counterfeits

### **Obsolescence Risk:**

Objective: Highlight parts that are obsolete or have end-of-life notices



Part is obsolete or has obsolete components



Part available

Action Plan: GEH provides the following solutions to resolve obsolescence issues:

- Expanded Exchange Service Program (EESP): GEH managed Inventory of obsolete part
- Engineering Services (ES): Transactional • obsolescence solutions

#### **Failure Risk:**

**Objective:** Identify parts that historically have failed across the global fleet





Part failure rate  $\geq 10\%$ 



Part failure rate < 10%

Action Plan: GEH provides Engineering Services (ES) to proactively identify solutions to mitigate high failure rate parts

# **Criticality:**

Objective: Customizable field used to prioritize issues

#### Legend:



Per customer definition, highest priority



Per customer definition, medium priority

Per customer definition. lowest priority

Action Plan: Site Team and GEH use criticality ratings to prioritize which parts issues to resolve



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