

Repair Assessment Reporting RAR

Randy Michaud "Stay-Treat...July 16, 2015"

What is it?

Pre-2010, referred to as *Escalation Report*

January 16, 2015

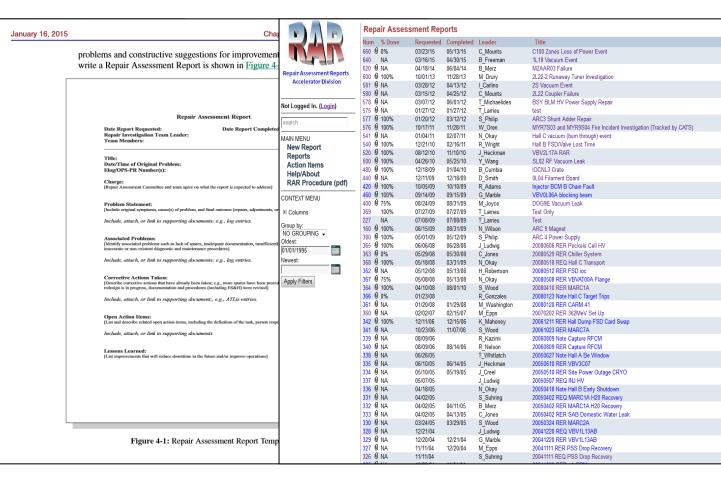
Bypassed interlocks in out-of-service equiperson installing the bypass must fill out a tag when the interlock is bypassed. This tainstalling the bypass, the date, the purpose number is not required for out-of-service attached to the equipment until the bypass separate tag, and the tag must be placed in installing the equipment. If a tagged piece accelerator (i.e., the interlock is still bypas an Accelerator Bypassed-Interlock Log en generated when the log entry is made must to the equipment.

4.2.6 Repair Assessment Reporting

The Repair Assessment Committee (RAC accelerator repair events and determines if event could potentially improve accelerate learned. If the RAC determines that additionable with the appropriate managers to appropriate mana

Details of the repair assessment reporting document, <u>Accelerator Repair Assessmen</u> assessment reporting process, establishes events, and defines RAC and Repair Invest

Repair Assessment Reports focus on the recorrecting these problems, and lessons lead contain names of individuals; rather, it em







Who is it?

Repair Assessment Committee (RAC)

Brian Clyde Randy Scott



During OPS, review downtime weekly for RAR "opportunities" and make team assignments.

RARs

Requested	Completed	Leader	Title
03/23/15	05/13/15	C_Mounts	C100 Zones Loss of Power Event
03/16/15	04/30/15	B_Freeman	1L18 Vacuum Event
04/18/14	06/04/14	B_Merz	MZAAR03 Failure
10/01/13	11/28/13	M_Drury	2L22-2 Runaway Tuner Investigation
03/28/12	04/13/12	I_Carlino	2S Vacuum Event
03/15/12	04/25/12	C_Mounts	2L22 Coupler Failure
03/07/12	06/01/12	T_Michaelides	BSY BLM HV Power Supply Repair
01/27/12	01/27/12	T_Larrieu	test
01/20/12	03/12/12	S_Philip	ARC3 Shunt Adder Repair
10/17/11	11/28/11	W_Oren	MYR7S03 and MYR9S04 Fire Incident Investigation (Tracked by CATS)
01/04/11	02/07/11	N_Okay	Hall C vacuum (burn through) event
12/21/10	02/16/11	R_Wright	Hall B FSD/Valve Lost Time
08/12/10	11/10/10	J_Heckman	VBV2L17A RAR

Recent Process Improvements	Continued Improvement Opportunities
Quality of written reports	100% report team engagement
Short, direct action items	Long, vague, unassignable action items
Tracking completed actions	Completing assigned action items
Defined process	Inconsistent use of process
Root Cause/Direct cause focus	Root Cause tools not fully utilized

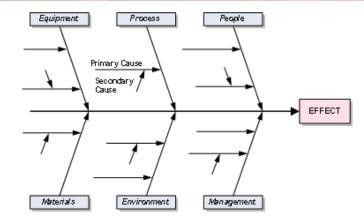
Focus on Root Cause Analysis



analysis. I'll begin by saying it's not my fault."

Step 2. Develop the Cause Map (using 5 Why's method) have signals and operate WHY? beat and is Valve won't 9.25 hours Defective Gasket hole Improper available gasket (reused) Air leak from Hardware Solenoid/ witch failur Potential for **Findparts**



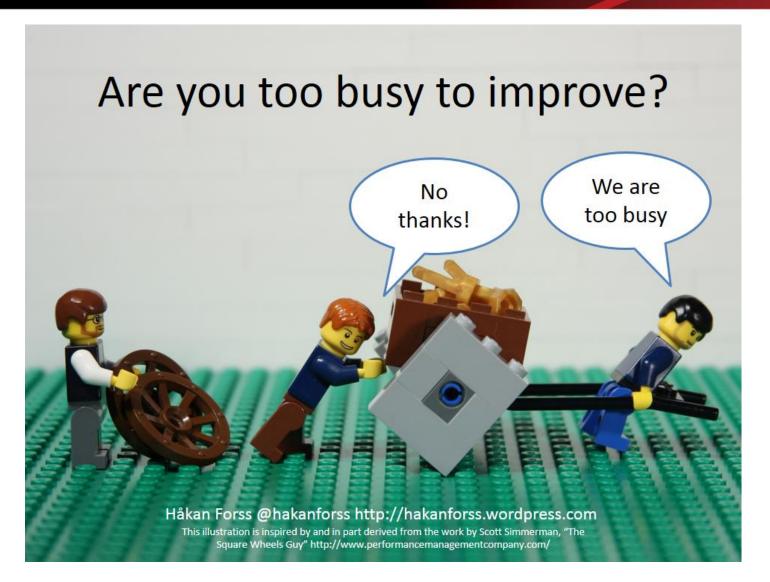


- Fix the problem use root cause analysis to understand how to *prevent* the event from happening again.
- If a team "knows the answer" without working through the tools or investigation, secondary factors may become primary factors when the failure happens again;)

Machine Improvement Examples

- Vacuum valve control boxes to the VAC Group, proactive replacement of gaskets, switches, and air lines.
- C100 tuner controls software, firmware, and mechanical upgrades.
- Hot Checkout Process developed.
- ABIL Process developed.
- Linac viewer bellows replacement.

Continuous Improvement





Discuss - "Arsonist-Fireman Syndrome"

"Arsonist-Fireman Syndrome is a cultural phenomenon...Its most prominent symptom is a focus on "firefighting" (i.e. troubleshooting a problem once it has happened) rather than "fire prevention" (i.e. preventing the problem in the first place)." -Robert Reid, PEX, 2012

Does our culture?

- Celebrate the fireman vs. those who prevented a fire?
- Use resources to create new value vs. put out fires?
- Focus mostly on daily priorities vs. long term priorities?

Interesting article:

"Reward Firefighting And You'll Create A Culture Of Arsonists"

Forbes, Jimmy Leppert -Kotter International Contributor, July 2013

