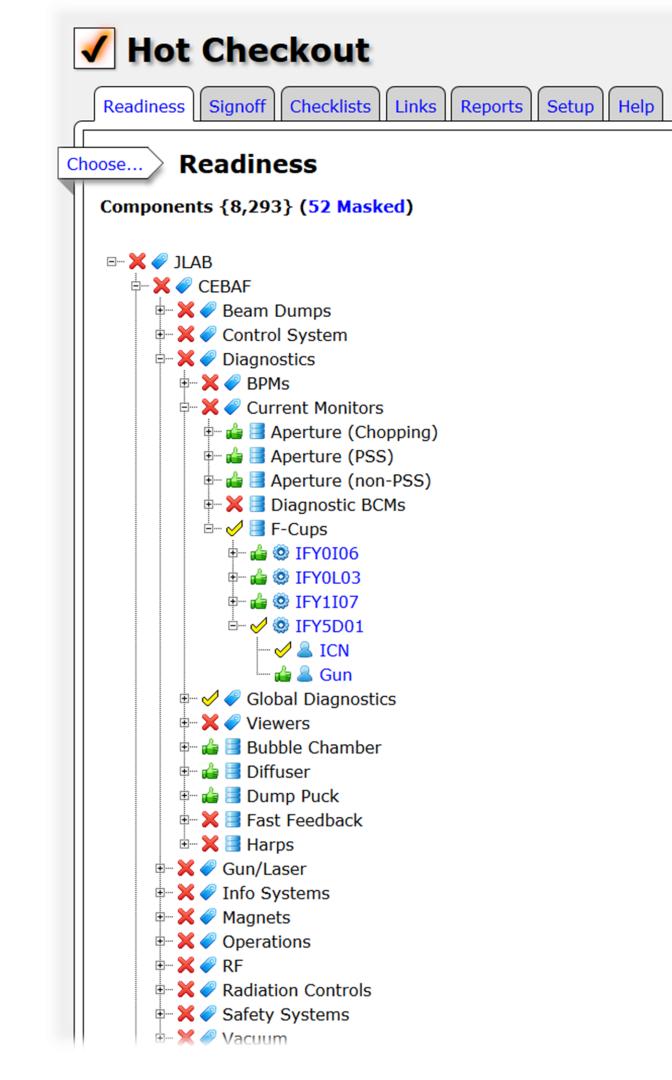
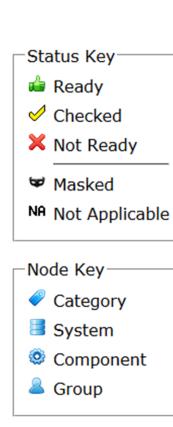
Readiness





ryans Logou

The machine readiness roll-up provides a shared dashboard for all hot checkout participants to track status and drill-in to find specific components and responsible group signoffs.

Checklists

Readiness Signoff	Checklists Links	Reports Setup Help	rya		
Checklists SRF	•				
Subsystem	Checklist Required	Published	Checklist		
Ion Pumps - SRF (VIP)	SRF RF Cavitie	s Checklist			
Cryomodules		nt ID: 325	Printer		
Waveguide SRF SRF Beamline Vacuum RF Cavities	Group: SRF Subsystem: RF Cavities Author: drury Submitted By: Drury, Michael (drury) Revision Number: 1 Revision Date: 2013-10-02 17:20 Revision Comment:				
	□ Confirm th □ Confirm th □ Confirm th □ Confirm th	s for RF: he He Pressure (CPIxLxx60) <= 0.045 atm. hat He Liquid Level (CLLxLxx50) > 88% . hat Cryomodule Insulating Vacuum VCGxLxx hat Cryomodule Insulating Vacuum VCGxLxx hat Cryomodule Beamline Vacuum VIPxLxxB hat Cavity Waveguide Vacuum <= 5e-8 torr.	(C100) <= 1e-6 torr <= 5e-9 torr.		

The list of checks that are performed by responsible groups are transparently documented in a centralized and easily accessible web server.



Hot Checkout for 12 GeV at Jefferson Lab*

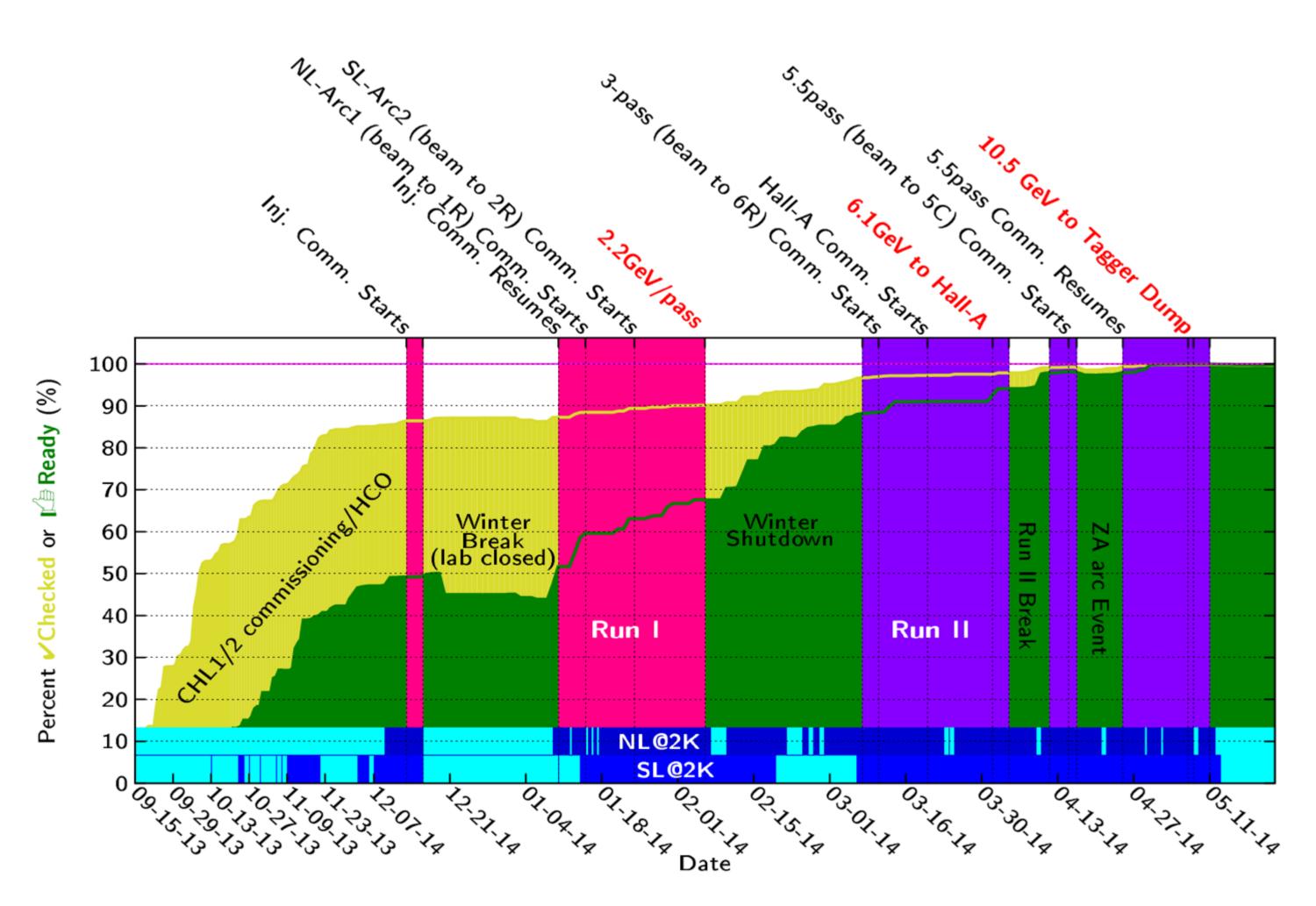
R. Slominski, JLab, Newport News, VA 23606, USA T. Larrieu, JLab, Newport News, VA 23606, USA



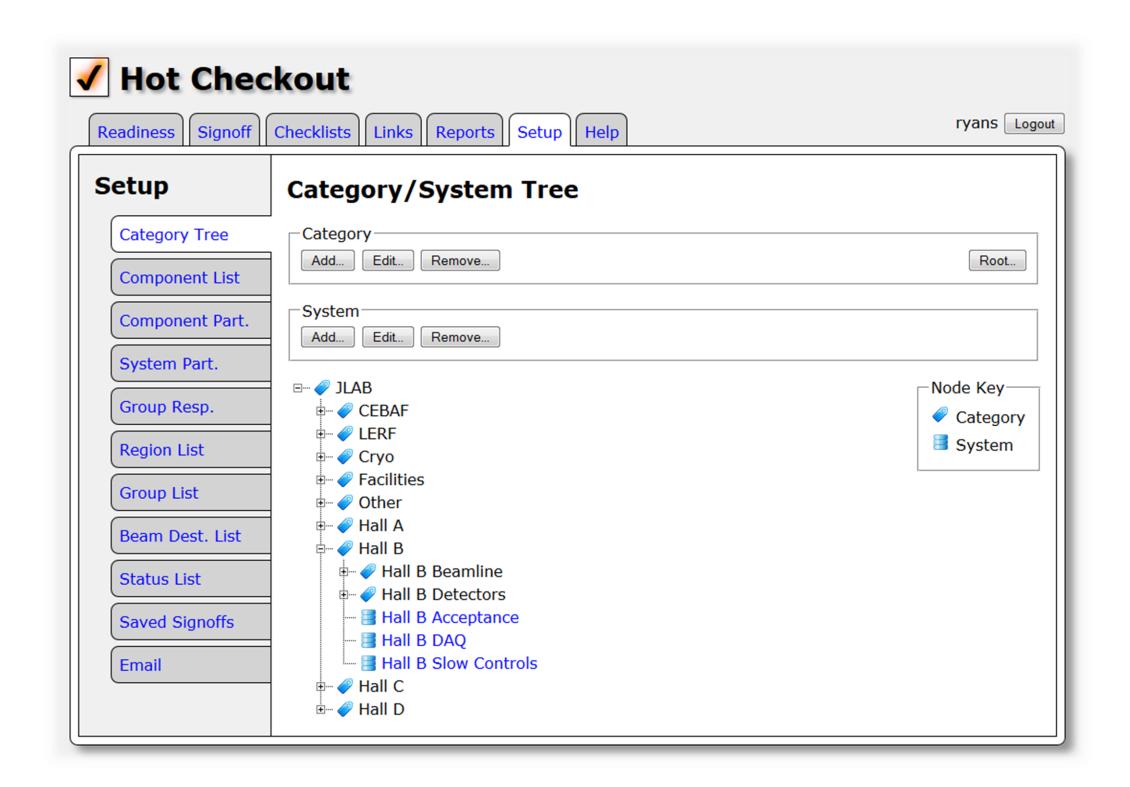
Motivated By Fire



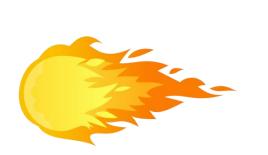
Preliminary modifications to the accelerator in 2011 for the forthcoming 12 GeV upgrade resulted in a YR septa magnet catching fire due to a lack of communication about machine readiness and was one of the motivating factors for creating a rigorous energized machine "pre-flight" readiness verification (hot checkout) process and supporting web application.



The new HCO process was utilized for the first time in September 2013 and as new regions of the machine were progressively verified project milestones were rapidly achieved allowing completion of program goals five months ahead of schedule.







Setup

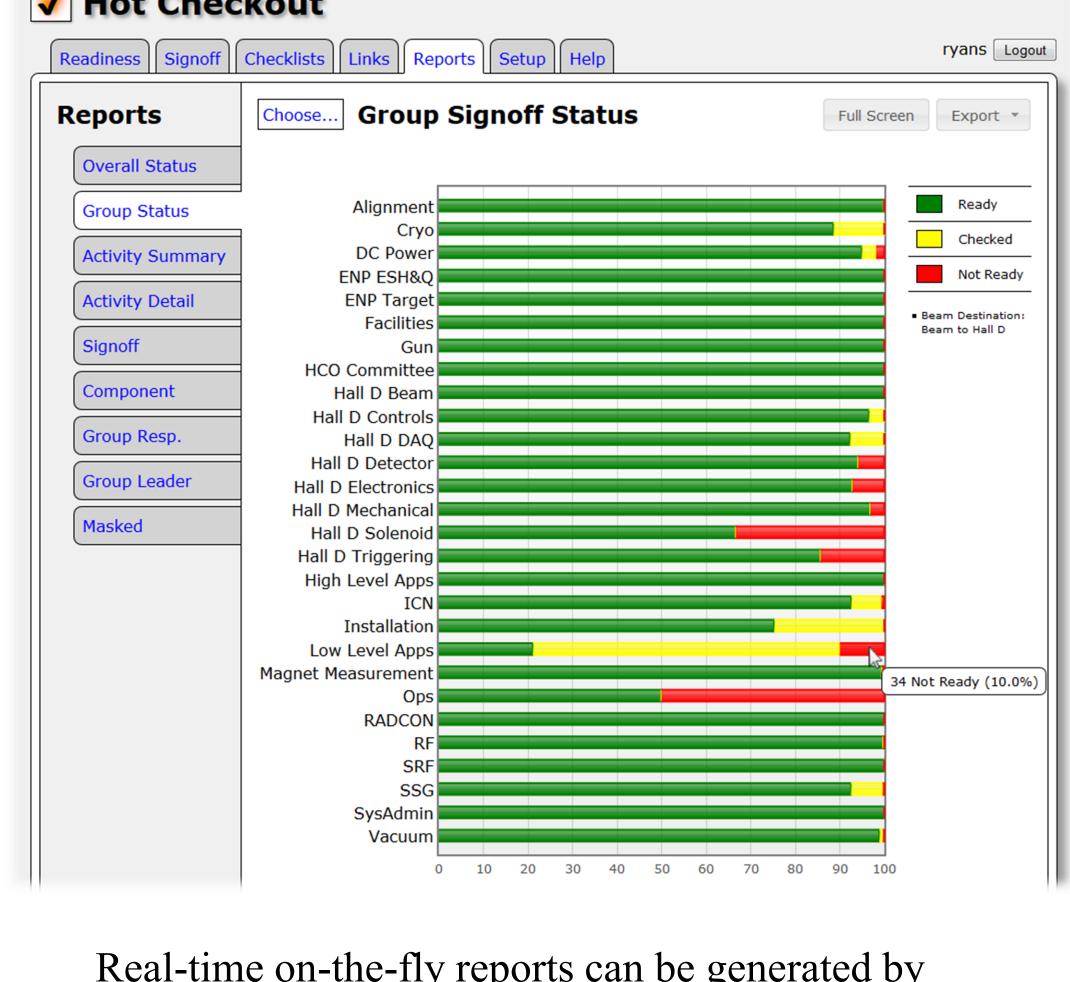
Many of the initial process setup tasks can be done via the admin interface including adding components to the database, organizing them into systems and categories, and assigning responsible groups.



Signoff	Start with Category/Sy					
Selected Unselect	All (Selected 3 Signof	nent" and Subsyste		Powered)"		
Component						
	1. Magnet Measurement	2. Installation	3. Vacuum	4. Alignment ⊻	5. DC Power	\$
MBLOR01	<u></u>	<i></i>	<u></u>	i i i i i i i i i i i i i i i i i i i	<i></i>	
MBLOR02	4	i 🔓	4	4	4	
MBL0R03	4	4	4	 Image: A start of the start of	×	
MBLOR04	4	i	4		×	
MBO0106	4	é	4		×	
MCA1L01	4	÷	4	1	4	
MCB1L01	4	Comment: Ready, no further work			4	
MCB1L01A	4	р	4			
MCB6T09V	4	Modified By: Dahlberg, Jim (dahlberg)			4	
MDL0L02	1	Modified Date: 2013-11-20 14:41			1	
MDS1101	4		- 5		4	

Every component that requires hot checkout is inventoried and is only considered ready for operations once all of the responsible groups have double checked the component.

Hot Checkout



Real-time on-the-fly reports can be generated by anyone at any time and are presented during the morning status update meeting.





*Authored by Jefferson Science Associates, LLC under U.S. DOE Contract No. DE-AC05-06OR23177

Signoff

Reports