RPCs	Not logged in
🕅 🌗 🕨 🕅 Logi	in   Logout   Find   Help
	Email sent to <b>22 recipients</b>
Message ID: 196 Ent	ry time: Wed Sep 12 10:15:19 2012
Author:	Changguo Lu
Subject:	RPC gas system maintenance
Participants: DGUT g	RPC gas system maintenance report group (Zhijian Zhang, Shanfeng Li, etc.), Changguo Lu (Princeton Univ.)
From September 4 to since its commissior 1, EH#1 •Replaced a virus ir	September 13 we performed thoroughly system maintenance to solve all accumulated probler ning. Following is a list of all items we have repaired/replaced/serviced: nfected PC. The old PC name is phy-cg3, new PC name is phy-changguo. The new PC OS is
windows 7, which exe a 64 bits system fil this task, it is suc and EH#3 still use w	ecutes bubbler program quite well, but won't transfer GC data to phy-cg6 (because missing le), which is the host computer for MySQL data base. We therefore let phy-cg6 performing cceeded. The bubbler program looks more stable on Windows 7 platform than Windows XP (EH vindows XP OS).
•Replaced a HAD sens switch the leads ori oscillation between	sor's old control board with a new version board, related to this change we also need to iginally connected to Simpson HI RLY 1 "no" to "nc". It solves the HAD status O and 1 problem, now if HAD is in normal state, the DCS display 1.
•This system was ope start. We found one connector. After rep	erating with two short jumps (J2 and J3) plugged on Power Crate, otherwise it couldn't e pin (#4) on Status Crate J2 was pushed in, thus without making contact with cable side paired this pin, the system resumes normal operation.
•Returning humidity the humidity sensor. not adding water vap unreasonable humidit	sensors are bad. This is as expected because the output gas mix from RPC is harmful to If we need the humidity data, this sensor needs to be replaced often, but since we are for into the gas mix, we thus just let the bad sensor unchanged. We can ignore the ty reading for the return gas.
2, EH#2	
•The returning humic	lity sensor is bad, as explained above, we let it as is, ignore the DCS reading.
3, EH#3	
•Replace Force Flow DCS display is wrong Finally we found the malfunctioning. It h	digital scale display unit. The digital scale for Isobutane displays correct weight, but g, it was not varying when weight was changing. After the replacement it is still no good e readout board is mistakenly reversed the polarity of 15V DC supply, causing the circuit has been corrected now.
•Reduce gas pressure	es from ~29psig to ~20psig, which is similar to other two systems.
•Returning humidity	sensors are also bad, ignore them.
•DCS display for Bra Crate, it looks norm this problem.	anch #2 is wrong and unstable. Checked the output voltage level from Gas System FLowrate nal, so th eproblem might be due to DCS interface hardware. DGUT group will take care of
4, Routing GC mainte	enance
Field service eng maintenance service. The procedure is as down, turn off the p turn on the machine, chromatogram, compar During the service w office has been cont	gineer Xiangdong Hong from Bruker, Beijing came to Daya Bay performed routine GC All three GCs were powered off, opened, and thoroughly dusted with pressurized argon ga follows: stop the GC running sequence, execute Shutdown method until the temperature co power, open the GC case, use pressurized argon gas to blow away dust, reassemble the GC, run the sequence, wait until the machine warmed up and ready to take data. Checked the re to the previous GC spectrum before this maintenance to make sure they are normal. We found the oxygen filters have been saturated, need to be replaced. Bruker, Beijing cacted, the purchasing for three oxygen filters are under way.
	ELOG V2.9.0-2402