

Ice Team Briefing Reports

Date	Time	Device	Analysis	Fault	Status
4-Jan	All Day	Blue & Yellow CQS Magnet Trees	Quenches in both rings starting around 00:53 in the morning due to multiple ice balls forming around the voltage	Ice build up on multiple CQS magnet trees	De-iced
15-Jan	Maint-Day	Sector12	Ice ball forming on 8 magnets (Q17 thru Q21). Turns out that the neutral wire on the AC power feed to the din connector on Q20 was loose. Tightened wire and heaters came back to life.	Ice build up on multiple CQS magnet trees	Loose Neutral wire to the AC power.
17-Jan	Maint-Day	I-10D8Q9	We received word via Rich Meier that the thermostat Mitch reported last maintenance was definitely installed incorrectly at I-10D8Q9. Mitch installed it correctly.	Installed Wrong	Corrected
30-Jan	Maint-Day	Thermostats	voltage tap / power leads tree to fail allowing ice ball build up.	Thermostat	Replaced
6-Feb	Maint-Day	b8-dhx magent	A little more ice than usual, floor fan was not turned on, re-energized fan and notified P.K. Feng who will look into a possible fault. He reports all is well.	Floor fan turned off	Turned fan on
6-Feb	Maint-Day	Spin Rotators sector-8	All four power lead trees felt cold, ice forming on the sides. P.K. Feng to look into the problem and says the heaters appear okay.	Ice Ball	Nothing to report.
6-Feb	Maint-Day	Thermostats	bypassed them out for now so the heaters are on all the time.	Thermostat	Bypassed
19-Feb	Maint-Day	8Q20 Therm.	Thermostat failed, replaced.	Thermostat	Replaced
19-Feb	Maint-Day	9Q8 Therm.	Thermostat failed, replaced.	Thermostat	Replaced
26-Feb	Maint-Day	I-09Q4	Failed and was replaced.	Thermostat	Replaced
26-Feb	Maint-Day	I-09Q5	Failed and was replaced.	Thermostat	Replaced
26-Feb	Maint-Day	O-11Q20	11Q20 is bypassed and needs to be replaced next maintenance day.	Thermostat	No further action taken
26-Feb	Maint-Day	Thermostat List	1Q21, 11Q4, 12Q7, 12Q13, 9Q17, 12Q17, 8Q20, 9Q8, 9Q4 and 9Q5.	Thermostat	Replaced
5-Mar	Maint-Day	O-10Q15D15	Faulty thermostat, bypassed and needs to be replaced.	Thermostat	Bypassed
5-Mar	Maint-Day	O-10Q8D8	The upper heating element on the CQS tree found to be faulty. Ice was not forming but the flange was sweating meaning the other two heaters are doing the job. With no spares at this time, it needs to be replaced next maintenance day. (Heater current = 0.23amps meaning only half the heater is working and needs to be replaced)	Routine Maint.	No further action taken
5-Mar	Maint-Day	O-11Q20	Replaced thermostat with a new one.	Thermostat	Replaced
11-Mar	Down-time	11-DX	(DX) Heater does not appear to be working, floor fan seems to be keeping the ice off for now. However, Ice is forming on the opposite side flange where the fan is not cooling.	Heating Element	No further action taken
11-Mar	Down-time	4-DX	(DX) Heater does not appear to be working, floor fan seems to be keeping the ice off for now. However, Ice is forming on the top portion of the tree where the fan is not cooling.	Heating Element	No further action taken
11-Mar	Down-time	I-02Q4	(Cold to Warm) Heater does not appear to be working, Ice is forming up the horizontal top portion of the tree towards the power lead box.	Heating Element	No further action taken
11-Mar	Down-time	O-03Q21	(CQS370) Heater does not appear to be working, Ice is forming up the horizontal top portion of the tree towards the power lead box.	Routine Maint.	No further action taken
11-Mar	Down-time	O-09Q10	(CQS10) Found the Thermostat bypassed.	Routine Maint.	No further action taken
11-Mar	Down-time	O-10Q2-Q3	(Triplet) Found Thermostat not connected to the tree, Ice beginning to form around the flange. (Checked during	Thermostat	No further action taken
11-Mar	Down-time	O-12Q2	(Triplet) Heater does not appear to be working, floor fan seems to be keeping the ice off for now. However, Ice is forming on the opposite side flange where the fan is not cooling.	Routine Maint.	No further action taken
12-Mar	15:00:07	I-02Q4	Electricians didn't find anything wrong during the day (Ref to 12-Mar at 18:45:07 where there was a problem)	Routine Maint.	No further action taken
12-Mar	18:45:07	I-02Q4	(Ref to 11-Mar) After replacing a corrector power supply in Alcove 3A, noticed that the top flange had developed more frost. Looking under the top cover, hard ice build up was discovered. (This affected yi2-tv4-ps and yi2-octd-ps)	Heating Element	Cleared Ice and installed a cooling fan until heating element can be replaced.
12-Mar	Maint-Day	11-DX	Both connector found loose on O-11Q1 causing power loss to this heater.	Routine Maint.	Tighten loose connection
12-Mar	Maint-Day	4-DX	Found that heaters are working properly.	Routine Maint.	Checks Okay

## Ice Team Briefing Reports

RHIC Physics 2002-2003

12-Mar	Maint-Day	O-03Q21	Electricians replaced Thermostat	Thermostat	Replaced
12-Mar	Maint-Day	O-09Q10	Replaced thermostat with a new one.	Thermostat	Replaced
12-Mar	Maint-Day	O-10Q15D15	Replaced thermostat with a new one.	Thermostat	Replaced
12-Mar	Maint-Day	O-12Q2	Electricians replaced Thermostat	Thermostat	Replaced
19-Mar	Maint-Day	bo6-rot3-1.4	Ice build up, not to crucial.	Possible Thermostat control	Expert to look at system, all seems well.
19-Mar	Maint-Day	I-02Q4	Nothing found wrong, Ice is clear, Heating element checked okay reading 0.42amps	Routine Maint.	Working Fine
19-Mar	Maint-Day	O-10Q2-Q3	Checked good with thermostat tied to pipe, no frost reported behind it and the heater appeared to be working fine.	Routine Maint.	Working Fine
19-Mar	Maint-Day	O-10Q8D8	No AC Power, further investigation showed that the entire string of inner and outer Q4's thru Q8's also lost AC power. Found breaker in panel PN11Q51 tripped. Reset okay but heater in question, only half working. Replaced heater and cleaned interior of feed thru box because it had frost build up.	Heating Element	Replaced
25-Mar	Maint-Day	10Q4	Checked the heater as this one was questionable and found nothing wrong.	Routine Maint.	No further action taken
25-Mar	Maint-Day	4-DX	Thermostat replaced.	Thermostat	Replaced
25-Mar	Maint-Day	I-02Q4		Routine Maint.	No further action taken
2-Apr	Maint-Day	I-04Q9		Heating Element	Replaced
2-Apr	Maint-Day	I-07Q8	Voltage Tap box sweating, heating elements not able to keep up with the flow allowing excessive Ice build up. A fan was installed to help remove the condensation.	Insufficient Heat	Installed an external Fan
2-Apr	Maint-Day	Spin Rotators sector-7	Ice build up, found that the two thermostat were in series and only one had closed.	Dual Thermostats, One is Open	No further action taken
9-Apr	Maint-Day	I-02Q9	Inspection Team discovered a possible heating problem as Ice seems to be building up faster then normal. Okay for now but should be re-inspected on the next maintenance day.	Ice Build up	To be re-checked Next Maintenance Day
9-Apr	Maint-Day	I-07Q8	Check on cooling fan that was added last time to help keep the ice down, checks well.	Routine Maint.	No further action taken
9-Apr	Maint-Day	O-01Q18	Horizontal Heater not fully operational, only half working.	Heating Element	Replaced
16-Apr	Maint-Day	Floor Fans	Glued down floor fans in many locations but not all.	Routine Maint.	
16-Apr	Maint-Day	I-7Q9D8	look and agreed that a fan was desirable so we installed one.	Ice Build Up	Installed an external Fan
16-Apr	Maint-Day	O-08Q11	replaced it.	Thermostat	Replaced
17-Apr	Maint-Day	I-02Q9	I was not around for the check of I-02Q9 noted as a possible problem last pass through. Mitch passed by this	Routine Maint.	To be re-checked Next Maintenance Day
17-Apr	Maint-Day	O-09Q8	George Ganetis stopped us in the tunnel at the 9:00 Snake Magnet and requested that we put a fan on any one of the nearby magnets. No particular reason was given. We installed a fan at O-09Q8. We need to go back and re-visit this fan because we noticed that the 120 Vac wires for the heaters are likely to be chaffed by the fan bracket. We did not have anything with us to deal with this problem at the time.	Ice Build Up	Installed an external Fan
23-Apr	Maint-Day	Fans		Routine Maint.	Preventative Maint.
23-Apr	Maint-Day	I-02Q20		Thermostat	Bypassed
23-Apr	Maint-Day	I-02Q9	This was the questionable one from last week. It was worse this week with condensation on the voltage tap box so we de-iced it for now. Heater was working.	Possible Thermostat control	Monitoring Device
23-Apr	Maint-Day	I-08Q3	Lower tree had a lot of ice. Found one of the four heater wires loose. De-iced and tightened.	Heater Wire Loose	Tighten loose connection
23-Apr	Maint-Day	I-10Q7	Was very well frosted so we de-iced it for now. The heater was working.	Possible Thermostat control	Monitoring Device
23-Apr	Maint-Day	O-07Q13	Five minutes ago Jeff reported two perhaps marginal magnets to look at but we were already done at that point so these need to wait till next week. These are O-07Q7 and O-07Q13.	Routine Maint.	No further action taken
23-Apr	Maint-Day	O-07Q7	Five minutes ago Jeff reported two perhaps marginal magnets to look at but we were already done at that point so these need to wait till next week. These are O-07Q7 and O-07Q13.	Routine Maint.	No further action taken
23-Apr	Maint-Day	O-09Q8	From last weeks fan installation seemed OK and did not need any wire dressing.	Routine Maint.	No further action taken

## Ice Team Briefing Reports

RHIC Physics 2002-2003

23-Apr	Maint-Day	O-9WTCQ3	thermostat not cycling. After much investigation Mitch and I believe it to be normal. George and Wing originally asked for the thermostat to be replaced but for now they / we are just going to watch it.	Routine Maint.	Monitoring Device
1-May	Maint-Day	I-02Q20	Replaced the thermostat on I-02Q20.	Thermostat	Replaced
1-May	Maint-Day	O-07Q13	<a href="#">(Ref 23-Apr)</a> Checked out okay.	Routine Maint.	<a href="#">No further action taken</a>
1-May	Maint-Day	O-07Q7	<a href="#">(Ref 23-Apr)</a> Checked out okay.	Routine Maint.	<a href="#">No further action taken</a>
1-May	Maint-Day	O-9WTCQ3	<a href="#">(Ref 23-Apr)</a> Checked out okay.	Routine Maint.	<a href="#">No further action taken</a>
1-May	Maint-Day	Ring Check	Rich - 3GI1 CW to Star - No problems noted.	Routine Maint.	<a href="#">No further action taken</a>
1-May	Maint-Day	Ring Check	Tom - Phenix CW to 3GI1 - No problems noted including O-9WTCQ3.	Routine Maint.	<a href="#">No further action taken</a>
1-May	Maint-Day	Ring Check	Joe - Star CW to Phenix - No problems noted including O-07Q7 and O-07Q13.	Routine Maint.	<a href="#">No further action taken</a>
9-May	Maint-Day	I2Q13D13	constraints it was decided to install fans rather than replace the heaters. The heaters should be replaced at a later date when there is sufficient time.	Heating Element	Fan Installed
9-May	Maint-Day	I2Q13D19	constraints it was decided to install fans rather than replace the heaters. The heaters should be replaced at a later date when there is sufficient time.	Heating Element	Fan Installed
9-May	Maint-Day	Spin Rotators 5C	Rich Conte had called Ed Weigand while down in the tunnel about the blue spin rotator at 5:00. The heater was taking care of these heaters as well according to Ed.	Lower Thermostats not working	Jumped out
16-May	Maint-Day	Ring Check	magnets (I2Q13D13 and I2Q13D19) receiving fans last week.	Routine Maint.	All Clear
27-May	Maint-Day	I02Q16	Frosted over Tree at I02Q16. Mitch and Rich C checked it and found the thermostat open. After defrosting the leads and tap boxes we jumped out the thermostat temporarily.	Thermostat	Bypassed
27-May	Maint-Day	blue rotator, bi8-rot3?		Thermostat	Bypassed
27-May	Maint-Day	I06Q10	The vertical portion of the heaters not working at I06Q10. Fans have been installed for now. This exhausted our supply of fans and line cords although we still have brackets.	Heating Element	Fan Installed
27-May	Maint-Day	O07Q13	The vertical portion of the heaters not working at O07Q13. Fans have been installed for now. This exhausted our supply of fans and line cords although we still have brackets.	Heating Element	Fan Installed