

Database for Open Radiation Issues

October 1998

History Report

Oct 28 1998

All Locations

All Items

Location ID	Date	Type	Description	Reference	RSC	Closed
General						
41	Oct 23 1997	2	Vents. Fences and/or Posting	Memo. to S. Musolino from A.J. Stevens, Subj: Scaling Gollon's Duct and Labyrinth Calculations	No	No
41	Mar 10 1998	1	A better estimate of fault level near vents needed. This would be CASIM plus Lahet		No	No
41	Sep 09 1998	1	Better calculation complete; 550 mrem 3 ft. above ground (cover); 233 mrem 1 ft. away. (Both Inc X2 QF)	A.J. Stevens, "Improved Estimation of Dose Near Vent Exits in the RHIC Collider Tunnel," AD/RHIC/RD-122	No	No
45	Feb 27 1998	2	Specification of Berm over alcoves in all sextants	Memo. to R. Foukal from A.J. Stevens, Subj: Specification of Berm Contours in Regions of Sextant Penetrations	No	No
53	Sep 10 1998	1	Better calculations needed of Dose near exits of Survey Shafts [CK-RHIC-0-01]	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	Yes	No
54	Sep 10 1998	2	Need Specification of Barriers around all Survey Shafts in Arcs	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	No	No
54	Oct 19 1998	1	Initial set of LCS estimates of dose outside shafts presented. (> 2 rem for 22" dia shafts).	Minutes, RSC, sub-committee, Subj: 10 o'clock Area, Straight Penetrations, Perimeter Fence Specifications	No	No
Sextant 1						
42	Feb 03 1998	2	Berm, Tunnel inspection needs to be performed		No	No
42	Sep 10 1998	2	Inspection Performed	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	No	Yes
57	Sep 10 1998	2	Repair of berm where erosion has occurred on ring-center side. Several places near B alcove. Needed after Year 1 [CK-RHIC-1-01]	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	Yes	No
2 o'clock						
4	Oct 22 1997	2	Fence with locked gate preventing ladder access near South cryopipe penetration [CK-RHIC-2 o'clock-1]	Minutes, RSC, sub-committee, Subj: RHIC 2 o'clock Shield Wall	Yes	No

Location ID	Date	Type	Description	Reference	RSC	Closed
5	Oct 22 1997	2	Posting Requirement that access to high areas is prohibited with beam on [CK-RHIC-2 o'clock-2]	Minutes, RSC, sub-committee, Subj: RHIC 2 o'clock Shield Wall	Yes	No
6	Oct 22 1997	2	Locked fence to prevent access with ladders if practical [CK-RHIC-2 o'clock-3]	Minutes, RSC, sub-committee, Subj: RHIC 2 o'clock Shield Wall	Yes	No
7	Feb 02 1998	1	If request for horizontal dog-legs for cableways, must re-evaluate	Minutes, RSC, sub-committee, Subj: RHIC 2 o'clock Shield Wall	No	No
31	Feb 10 1997	2	Stub at 2 o'clock; Block off and Fence	Memo to J. Mills from A.J. Stevens, Subj: Shielding Needs and Access Restrictions at Exit of 2 o'clock Spectrometer Tunnel	No	No
58	May 01 1998	2	Perimeter fence to avoid roof. Specification by A. Stevens probably conservative. No RSC meeting.		No	No
58	Oct 19 1998	2	Perimeter Fence Approved Subj to Dose Estimate on north side (near road in back of 2 o'clock roof) [CK-RHIC-2-04]	Minutes, RSC, sub-committee, Subj: 10 o'clock Area, Straight Penetrations, Perimeter Fence Specifications	Yes	No
58	Oct 28 1998	1	The Road is lower than 2 o'clock roof. Direct dose through end wall estimated at < 1 mrem at fence, 0.3 mrem at road		No	No
Sextant 3						
25	Jan 22 1997	2	Additional berm required over 3Q5 Exp. Loop and 1003-A alcove	Memo. to G. Capetan, R. Marascia, T. Robinson from A.J. Stevens, Subj: Berm in the Sextant 3 Region	No	No
26	Feb 03 1998	2	No berm, tunnel inspection to date except by A. Stevens		No	No
26	Sep 10 1998	2	Inspection Performed	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	No	Yes
56	Sep 10 1998	2	Repair of Berm where erosion exists on ring-center side near vent shaft needed after Year 1 [CK-RHIC-3-01]	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	Yes	No
4 oclock						
36	Feb 03 1998	1	Calculations needed for current shield design		No	No
36	Apr 01 1998	1	Calculations completed and reviewed by RSC	A.J. Stevens, "Dose Estimates in the 4 o'clock Region," Attachment to RSC meeting minutes dated 4/1/98.	No	Yes
46	Apr 01 1998	2	Required changes to physical configuration at 4 o'clock before run	Minutes, RSC, sub-committee, Subj: RHIC 4 o'clock shielding and Fencing	No	No

Location ID	Date	Type	Description	Reference	RSC	Closed
46	Apr 01 1998	2	Post corridor adjacent to RF Service Bldg, "Radiation Area, Film Badge/TLD Required for Entry" [CK-RHIC-01]	Minutes, RSC, sub-committee, Subj: RHIC 4 o'clock shielding and Fencing	Yes	No
46	Apr 01 1998	2	Post All Fenced Areas "No Access with Beam On" [CK-RHIC-03]	Minutes, RSC, sub-committee, Subj: RHIC 4 o'clock shielding and Fencing	Yes	No
46	Apr 01 1998	2	Additional fences across berm are required 60 ft. from existing fences [CK-RHIC-06]	Minutes, RSC, sub-committee, Subj: RHIC 4 o'clock shielding and Fencing	Yes	No
46	Oct 19 1998	2	Fence Design drawings approved (RSC)	Minutes, RSC, sub-committee, Subj: 10 o'clock Area, Straight Penetrations, Perimeter Fence Specifications	No	No
Sextant 5						
30	Oct 05 1994	2	Beam Loss on Injection septum. Is monitoring a concern?	Memo. to S. Musolino from A.J. Stevens, Subj: Berm Near Injection Septum	No	No
6 o'clock						
1	Oct 20 1996	2	Modify STAR shield wall design; add 10 ft. high blocks extending into IR	Minutes, RSC, sub-committee, Subj: Design of STAR Shield Wall	No	No
1	Jan 09 1997	2	Shield Wall design modified	Memo. to D. Beavis, A. Pendzick, K. Reece, R. Thorn from A.J. Stevens, Subj: Final STAR Shield Wall Design	No	Yes
2	Oct 20 1996	2	Modify STAR shield wall design to eliminate or seal crack near midplane	Minutes, RSC, sub-committee, Subj: Design of STAR Shield Wall	No	No
2	Jan 09 1997	2	Design modified to eliminate crack near midplane	Memo. to D. Beavis, A. Pendzick, K. Reece, R. Thorn from A.J. Stevens, Subj: Final STAR Shield Wall Design	No	Yes
3	Oct 20 1996	2	Shield 2 specific cracks in STAR shield wall using 3 to 4 inches of polyethylene [CK-STAR-01]	Minutes, RSC, sub-committee, Subj: Design of STAR Shield Wall	Yes	No
3	Sep 17 1997	1	Better calculation of low-E dose using Lahet shows concern about possible "thick Fe" effects in this case was not warranted. Action item rescinded. [CK-STAR-01]	Minutes, RSC, sub-committee, Subj: CASIM vs. LCS for Neutron Dose Estimates	Yes	Yes
34	Jun 10 1995	2	Fence required downstream of ends of 6 o'clock hall where exposed (for perhaps 260 ft.)	A.J. Stevens, "End Wall Dose Equiv. Estimates at 6 o'clock", AD/RHIC/RD-91	No	No
34	May 05 1998	2	A. Stevens specifies perimeter fence (for Year 1). Must check length		No	No

Location ID	Date	Type	Description	Reference	RSC	Closed
34	Oct 19 1998	2	Perimeter fence approved. Sufficiency post year 1 running not yet established as regards end wall problem	Minutes, RSC, sub-committee, Subj: 10 o'clock Area, Straight Penetrations, Perimeter Fence Specifications	No	No
35	Aug 23 1996	2	Fence around 6 o'clock cryo bypass holes	Memo. to S. Musolino from A.J. Stevens, Subj: Fence Locations Around Cryogenic Bypass Holes	No	No
43	Feb 17 1998	2	Modification to STAR Shield wall which adds steel to base of stacked wall	Memo. to Alan Stevens from Ralph Brown, Subj: Proposed Modification to the STAR Shield Wall	No	No
43	Mar 06 1998	2	Crack between steel base plate and floor is an issue. See Minutes for suggestions which include grout and blocking crack [CK-STAR-02]	Minutes, RSC, sub-committee, Subj: Modification of STAR Shield Wall Design	Yes	No
43	Mar 06 1998	2	Request photographs of the installed steel base plate for shield wall [CK-STAR-03]	Minutes, RSC, sub-committee, Subj: Modification of STAR Shield Wall Design	Yes	No
44	Mar 20 1998	1	Need Lahet calculation of effect of 1 inch crack at floor.	Minutes, RSC, sub-committee, Subj: Modification of STAR Shield Wall Design	No	No
60	Oct 19 1998	2	Cooling Tower: Barrier and Posting needed across front [CK-RHIC-6-04]	Minutes, RSC, sub-committee, Subj: 10 o'clock Area, Straight Penetrations, Perimeter Fence Specifications	Yes	No
Sextant 7						
27	Feb 03 1998	2	Berm, tunnel inspection needs to be performed		No	No
27	Sep 10 1998	2	Inspection Performed	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	No	Yes
55	Sep 10 1998	2	Inspection and analysis of the adequacy of berm over Injection Structure to be done by A. Stevens [CK-RHIC-7-01]	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	Yes	No
8 o'clock						
8	Oct 20 1997	2	Labyrinth door should have 1.5 inch poly backing [CK-PHENIX-01]	Minutes, RSC, sub-committee, Subj: PHENIX Shield Wall Design	Yes	No
9	Oct 20 1997	1	Reduction of PHENIX laby door due to poly must be re-estimated [CK-PHENIX-02]	Minutes, RSC, sub-committee, Subj: PHENIX Shield Wall Design	Yes	No
9	Jun 22 1998	1	Done, excess dose small, about 30 mrem	S. Kahn, A.J. Stevens, "Estimates of Dose Equivalent Associated with Penetrations in the PHENIX Shield Wall," AD/RHIC/RD-120	No	Yes

Location ID	Date	Type	Description	Reference	RSC	Closed
10	Oct 20 1997	1	Re-estimate dose outside movable door in PHENIX shield wall [CK-PHENIX-03]	Minutes, RSC, sub-committee, Subj: PHENIX Shield Wall Design	Yes	No
10	Jun 22 1998	1	Done, < 33 mrem whole body excess	S. Kahn, A.J. Stevens, "Estimates of Dose Equivalent Associated with Penetrations in the PHENIX Shield Wall," AD/RHIC/RD-120	No	Yes
11	Oct 20 1997	2	Person plug-door in PHENIX shield wall must be integrated into PASS [CK-PHENIX-04]	Minutes, RSC, sub-committee, Subj: PHENIX Shield Wall Design	Yes	No
12	Oct 20 1997	1	Dose estimates for cabling penetrations in PHENIX shield wall [CK-PHENIX-05]	Minutes, RSC, sub-committee, Subj: PHENIX Shield Wall Design	Yes	No
12	Jun 22 1998	1	Done, excess estimated at 26 mrem	S. Kahn, A.J. Stevens, "Estimates of Dose Equivalent Associated with Penetrations in the PHENIX Shield Wall," AD/RHIC/RD-120	No	Yes
13	Oct 20 1997	1	Dose estimates through movable wall tracks in PHENIX shield wall [CK-PHENIX-06]	Minutes, RSC, sub-committee, Subj: PHENIX Shield Wall Design	Yes	No
13	Jun 22 1998	1	Done, excess estimated at about 40 mrem	S. Kahn, A.J. Stevens, "Estimates of Dose Equivalent Associated with Penetrations in the PHENIX Shield Wall," AD/RHIC/RD-120	No	Yes
14	Oct 20 1997	2	Place local shielding around penetrations/tracks as possible/practicable [CK-PHENIX-07]	Minutes, RSC, sub-committee, Subj: PHENIX Shield Wall Design	Yes	No
15	Oct 20 1997	2	Liaison engineer & physicist to ensure during construction that cracks do not exceed specified limits [CK-PHENIX-08]	Minutes, RSC, sub-committee, Subj: PHENIX Shield Wall Design	Yes	No
16	Oct 20 1997	1	Dose estimates required for horizontal cracks in Movable PHENIX wall [CK-PHENIX-09]	Minutes, RSC, sub-committee, Subj: PHENIX Shield Wall Design	Yes	No
16	Jun 22 1998	1	Done (but for large - 1/4 inch - crack). Inspection of actual wall required	S. Kahn, A.J. Stevens, "Estimates of Dose Equivalent Associated with Penetrations in the PHENIX Shield Wall," AD/RHIC/RD-120	No	No
17	Jan 21 1998	2	Fence must exist prohibiting access near 8 o'clock South-side shielding [CK-PHENIX-10]	Minutes, RSC, sub-committee, Subj: PHENIX Side Shield Wall	Yes	No
18	Jan 21 1998	2	HP lock or other "controlled" lock on fence by South wall shielding [CK-PHENIX-11]	Minutes, RSC, sub-committee, Subj: PHENIX Side Shield Wall	Yes	No
19	Jan 21 1998	2	Posting for fence outside South side shield should read "No Access with Beam ON. Contact MCR for Entry" [CK-PHENIX-12]	Minutes, RSC, sub-committee, Subj: PHENIX Side Shield Wall	Yes	No

Location ID	Date	Type	Description	Reference	RSC	Closed
20	Jan 21 1998	2	Laby on South side shield requires permanent roof [CK-PHENIX-13]	Minutes, RSC, sub-committee, Subj: PHENIX Side Shield Wall	Yes	No
21	Jan 21 1998	2	Posting for Laby roof: "Do Not Climb. No Access to Roof with Beam ON. Contact MCR for Access" [CK-PHENIX-14]	Minutes, RSC, sub-committee, Subj: PHENIX Side Shield Wall	Yes	No
22	Jan 21 1998	2	Procedure for controlling South side area as "low occupancy" [CK-PHENIX-15]	Minutes, RSC, sub-committee, Subj: PHENIX Side Shield Wall	Yes	No
23	Jan 21 1998	2	Fence location on South side must be far back enough to shadow punch-through [CK-PHENIX-16]	Minutes, RSC, sub-committee, Subj: PHENIX Side Shield Wall	Yes	No
23	May 01 1998	2	A. Stevens specifies perimeter fence. (Much further back than needed to shadow punch-through)		No	No
23	Oct 19 1998	2	Perimeter Fence design approved (RSC).	Minutes, RSC, sub-committee, Subj: 10 o'clock Area, Straight Penetrations, Perimeter Fence Specifications	No	No
24	Jan 21 1998	2	Investigate extending Laby, fence, & Laby. roof 4 ft. from edge of pad [CK-PHENIX-17, CK-PHENIX-18, CK-PHENIX-19]	Minutes, RSC, sub-committee, Subj: PHENIX Side Shield Wall	Yes	No
24	Mar 20 1998	2	Memorandum from PHENIX agreeing to low occupancy and extension of fence on South side of Assembly Bldg.	Memo. to A. Stevens from P. Kroon, Subj: Personnel Access Near Shielding Southeast of Bldg. 1008	No	No
33	Aug 12 1997	2	Liner, additional earth, fence over/around collimators	Memo. to G. Capetan, J. Mills, R. Marascia, T. Robinson from A.J. Stevens, Subj: Input for Berm Reconstruction at 10 o'clock and 8 o'clock	No	No
37	Jul 19 1995	2	Block Magnet Access tunnel 4 ft gets < 160 mrem	Memo. to S. Musolino from A.J. Stevens, Subj: Magnet Access Penetrations at 8 o'clock, Required Exit Shield	No	No
40	Oct 23 1997	2	High dose due to coll source. Needs (best solution) poly door	Memo. to S. Musolino, T. Robinson from A.J. Stevens, Subj: 8 o'clock Labyrinth Simulation	No	No
Sextant 9						
28	Feb 03 1998	2	Berm, tunnel inspection needs to be performed		No	No
28	Sep 10 1998	2	Inspection Performed	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	No	Yes

Location ID	Date	Type	Description	Reference	RSC	Closed
10 o'clock						
32	Aug 12 1997	2	Liner, Additional earth, Fence at dumps	Memo. to G. Capetan, J. Mills, R. Marascia, T. Robinson from A.J. Stevens, Subj: Input for Berm Reconstruction at 10 o'clock and 8 o'clock	No	No
39	Feb 03 1998	1	End of Leg-1 Laby needs to be blocked. Calculation needed		No	No
39	Oct 19 1998	1	Dose < 56 mrem for design shield - RSC approval of this shield	Minutes, RSC, sub-committee, Subj: 10 o'clock Area, Straight Penetrations, Perimeter Fence Specifications	No	Yes
59	Aug 29 1998	2	A. Stevens specifies fence around cryo. penetrations. No RSC review of 10 o'clock as of August 98		No	No
59	Oct 19 1998	2	Fence Approved	Minutes, RSC, sub-committee, Subj: 10 o'clock Area, Straight Penetrations, Perimeter Fence Specifications	No	No
Sextant 11						
29	Feb 03 1998	2	Berm, tunnel inspection needs to be performed		No	No
29	Sep 10 1998	2	Inspection Performed	Minutes, RSC, sub-committee, Subj: Inspection of RHIC Berm	No	Yes
12 o'clock						
38	Feb 03 1998	2	Block magnet Access tunnel. 8.5 ft. gets < 1 rem, 12 ft < 160mrem	Memo. to S. Musolino from A.J. Stevens, Subj: Magnet Access Penetrations at 12 o'clock, Required Exit Shield	No	No
47	Jul 20 1998	1	Calculations of Radiation Levels in Vicinity of 12 o'clock	A.J. Stevens, "Dose Equivalent Estimates at the 12 O'clock IR," AD/RHIC/RD-121	No	Yes
48	Jul 29 1998	2	Shield Design at 12 o'clock. Design on Ring-center side accepted by RSC. Shield to be in place by start of Physics Run [CK-12oclock-1]	Minutes, RSC, sub-committee, Subj: Shielding and Access Configuration at 12 o'clock	Yes	No
48	Jul 29 1998	2	Shield at 12 o'clock. Two additional blocks, 5 by 5 by 10 ft. to be added to side opposite Ring-center. Required after Year-1 Run [CK-12oclock-4]	Minutes, RSC, sub-committee, Subj: Shielding and Access Configuration at 12 o'clock	Yes	No
49	Jul 29 1998	2	Barriers to be constructed over cryo. penetration exits. Required before start of Physics Run. A. Stevens Responsible [CK-12oclock-3]	Minutes, RSC, sub-committee, Subj: Shielding and Access Configuration at 12 o'clock	Yes	No

Location ID	Date	Type	Description	Reference	RSC	Closed
50	Jul 29 1998	2	Perimeter Fence Approved by RSC to be in place by start of Physics Run [CK-12oclock-2]	Minutes, RSC, sub-committee, Subj: Shielding and Access Configuration at 12 o'clock	Yes	No
51	Jul 29 1998	2	Additional Fence around cryo. exits. To be topped with razor or barb wire. To be in place after Year-1. [CK-12oclock-6]	Minutes, RSC, sub-committee, Subj: Shielding and Access Configuration at 12 o'clock	Yes	No
52	Jul 29 1998	2	Perimeter light-beam sensors to monitor across end walls. Subject to being practical. Not safety device nor in PASS. After Year 1 (S. Musolino to investigate) [CK-12oclock-5]	Minutes, RSC, sub-committee, Subj: Shielding and Access Configuration at 12 o'clock	Yes	No