



Procedure: C-A-OCR-EXP-OSH
Revision: 01
Revision Date: 05/26/04

COLLIDER-ACCELERATOR DEPARTMENT

Title: Operational Control Record, Experiments

Preparer: A. Etkin

Group: ESH&Q

Approvals

Signature on File Date: _____
ESH&Q Division Head

Signature on File Date: _____
Collider-Accelerator Department Chairman

(Indicate additional signatures)

- Y N
- x FS Representative: _____ Date: _____
- x Radiological Control Coordinator: _____ Date: _____
- x Chief ME: _____ Date: _____
- x Chief EE: _____ Date: _____
- x ESH Coordinator: _____ Date: _____
- x QA Manager: _____ Date: _____
- x Other: Chair ESRC _____ Date: _____

**C-A OSH
OPERATIONAL CONTROLS RECORD**

Operational Controls Record For Occupational Safety and Health Hazards	Completed By: <u>A. Etkin</u> Date: <u>5/26/2004</u>
1. Operations: Experiment Construction, Operations, Testing, Maintenance and Emergency Response	
2. Activities:	
<ul style="list-style-type: none"> • Experiment Detector Setup and Operations • Maintenance • Detector or Experimental Area Upgrades • Emergencies • Experimental Equipment Development and Test • Material Handling • Equipment Fabrication 	
3. Controls – Experiment Operations, Access, Experiment Safety Review and Personal Protective Equipment, Emergency Response:	
<p>All controls at the C-A complex are under a Formal Conduct of Operations (CO) and are described in detail in the C-A Operational Procedures (OPM). Most operations procedures at experiments are under the purview of the Users; however, safety significant procedures are included in the C-AD OPM.</p> <ul style="list-style-type: none"> • Experiment Operations Controls: OPM Chapter 11 - Experimental Procedures (BRAHMS, PHOBOS, STAR, PHENIX, E949, etc.) • Access Controls: OPM Chapter 4 - Access Control System Testing, Sweep and Reset Requirements • Operational Controls: OPM Chapter 2 - Conduct of Operations, LOTO, Maintenance, Work Planning • Experimental Safety Review and Personnel Protective Equipment: OPM Chapter 9 - Radiation Safety, ESH Committees, ESH Review, ALARA, Safety Inspection, Cryogenic Safety • Emergency Response Controls: OPM Chapter 3, Emergency Procedures 	
4. Maintenance:	
<ul style="list-style-type: none"> • OPM Chapter 2 - LOTO, Maintenance, Work Planning • OPM Chapter 8 - Subsystems, Rad- Storage,-Chipmunks,-Fencing, Experimental Areas, Water, Waste • CAS Group Procedures – Collider-Accelerator Support Procedures 	

5. Actions to be Taken if Controls Fail:		
<ul style="list-style-type: none"> • CO Chapter 4 - Communications • CO Chapter 6 - Investigation of Abnormal Occurrences • OPM Chapter 3 - Emergency Procedures • OPM Chapter 10 – Occurrence Reporting 		
6. Records:		
<ul style="list-style-type: none"> • CO Chapter 10 - Independent Verification • CO Chapter 11 - Logkeeping • OPM Chapter 13 - Quality Assurance 		
7. Responsibilities: (a) to ensure controls are in place; (b) to ensure controls keep working; (c) to take action when controls fail; (d) to create and keep records relative to operational controls		
<ul style="list-style-type: none"> • R2A2s • OPM Chapter 1 - Policies for Authorization, Training, Environment, Safety, Procedures, Minors, Visitors • CO Chapter 1 - Organization and Administration 		
Name		Responsibility
Responsible and authorized personnel are listed and maintained in the C-A Operational Procedures Manual		OPM Chapter 1 - Authorization OPM 1.11 - Department Requirements for Interaction with C-A OPM 10.1 - Occurrence Reporting and Processing of Operations Information
8. Training:		
Name	Training	Training Policy
Training data is maintained in BTMS	See specific Job Training Assessments (JTAs) in BTMS	OPM 1.12 – Training and Qualification Plan