

***If you are using a printed copy of this procedure, and not the on-screen version, then you MUST make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.***

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

9.2.1.e ESRC Review Checklist

| C-A-OPM procedure in which this attachment is used. |  |  |
|---|--|--|
| 9.2.1   |  |  |
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|   |  |  |

Hand Processed Changes

| <u>HPC No.</u> | <u>Date</u> | <u>Page Nos.</u> | <u>Initials</u> |
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Approved: \_\_\_\_\_ *Signature on File* \_\_\_\_\_  
 Collider-Accelerator Department Chairman Date

Y. Makdisi/P. Cirnigliaro

## ESRC Review Checklist

Experiment/Sub-System Name or Number: \_\_\_\_\_

Name of Liaison Physicist: \_\_\_\_\_ Date: \_\_\_\_\_

**Liaison Engineer/Liaison Physicist must initial all items. Leave no blanks:**

| Item   | Applies | Does Not Apply |
|--|---------|----------------|
| <b>Section 1 – Hazardous Chemicals or Materials</b>      |         |                |
| Any use of chemicals, including oils or solvents         |         |                |
| Use of beryllium, lead or asbestos                       |         |                |
| Use of explosive materials                               |         |                |
| Handling of radioactive materials or sources             |         |                |
| Use of biologically hazardous material                   |         |                |
| Any hazardous material being left at C-A                 |         |                |
| Transfer or storage of hazardous material                |         |                |
| Future legacy issues, e.g. Be or High z (>Fe) materials  |         |                |
| <b>Section 2 – Environmental</b>                         |         |                |
| Non-radioactive emissions or effluents                   |         |                |
| Radioactive emissions or effluents                       |         |                |
| Hazardous waste generated                                |         |                |
| Radioactive waste generated                              |         |                |
| Mixed waste generated                                    |         |                |
| Disposition of any hazardous material after finish       |         |                |
| New underground or above ground storage tanks            |         |                |
| Use of ozone depleting substance                         |         |                |
| Any changes to EMS as determined by ECR                  |         |                |
| <b>Section 3 – Mechanical Systems</b>                    |         |                |
| Pressure or vacuum vessels and windows                   |         |                |
| Compressed gas systems / Flammable gas systems           |         |                |
| Material handling devices                                |         |                |
| Structures supporting heavy loads                        |         |                |
| <b>Section 4 – Physical Hazards</b>                      |         |                |
| Surface temperatures less than 0°F or greater than 150°F |         |                |
| Radio frequency or $\mu$ wave power greater than 7 W     |         |                |
| Laser power greater than 1 mW                            |         |                |
| Use of ultraviolet lamps                                 |         |                |
| Sound levels generated greater than 80 dBA               |         |                |
| Magnetic fields generated greater than 4 Gauss           |         |                |
| Work in confined spaces                                  |         |                |
| Oxygen deficiency hazards                                |         |                |
| <b>Section 5 – Electrical Systems</b>                    |         |                |
| Exposed electrical terminals                             |         |                |
| Fusing required  |         |                |
| Emergency shut-off controls                              |         |                |
| Work on energized system                                 |         |                |
| Electrical equipment as a possible ignition source       |         |                |
| <b>Section 6 – Fire Protection/Life Safety</b>           |         |                |
| Combustible material in significant quantities           |         |                |
| Deviations from Life Safety Code                         |         |                |
| Change in risk level of fire protection                  |         |                |
| Deviations from standard electrical codes                |         |                |
| <b>Section 7 – Training</b>                              |         |                |
| Special training requirements                            |         |                |
| Required procedures                                      |         |                |
| Other committee reviews required (e.g. CSC, RSC, ALARA)  |         |                |