



Annex 1

LIU-PSB Rings - Safety documents (for Safety file)

DATE: 8/31/2016

EDMS : 1577172

The scope of this Annex is to provide a tailored list of Safety documents, to be stored in the Safety File of LIU-PSB Rings, in order to prove the compliance with the applicable Safety Requirements mentioned in the Launch Safety Agreement.

All the documents listed below are compulsory for the Safety File and shall be made available prior to the transition of each phase in the project's life-cycle, as defined in CERN Safety Rules. The documents needed during the Technical Reception/Inspection are described in the dedicated column.

1. Project Phase

2.1. General Documents

<i>General Documents</i>				
The 'general' documents listed below cover all the Safety domains present within the project				
Document	EDMS number	Verified by	Comments	Deadline
- Design and engineering phases				
Technical Specifications	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Technical Design Reports	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Engineering Design Reports	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Risk Assessments	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Diagrams, schematics	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
- Manufacture and assembly phases				
Manufacturing drawings	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Execution drawings	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Factory Acceptance test	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception

2.2. Pressure Equipment

<i>Pressure Equipment</i>				
Document	EDMS number	Verified by	Comments	Deadline
- Design and engineering phases				
General description of the equipment/system	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
P&ID of the system	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Design and construction drawings	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture



Risk Assessment	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Result of design calculations	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
- Manufacture and assembly phases				
Fabrication inspection and Testing plan	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Material certificates	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Records of tests	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Welding Plan	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Qualifications of welders	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Welding Procedure Qualification Records (WPQR)	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Records of NDT of welds	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
- Arrival at CERN				
EC Declaration of Conformity	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Manufacturer's instruction manual	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
- Commissioning phase				
CERN Safety Inspection Service acceptance report	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
Operational procedures	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation

2.3. Machinery

<i>Machinery</i>				
Document	EDMS number	Verified by	Comments	Deadline
- Design and engineering phases				
Description of the equipment	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Result of design calculations	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Risk Assessment	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Calculation of machine safety performance level	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
- Manufacture and assembly phases				
Safety components certificates	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Fabrication inspection and Testing plan	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Electrical, hydraulic and pneumatic drawing	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
- Arrival at CERN				
EC Declaration of Conformity	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Manufacturer's instruction manual	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
- Commissioning phase				
CERN Safety Inspection Service acceptance report	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
Safety data sheet	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation



2.4. Electrical Safety

<i>Electrical Safety</i>				
Document	EDMS number	Verified by	Comments	Deadline
- Design and engineering phases				
Electrical single line diagrams	[EDMS number]	[name of Safety specialist]	[Enter comments]	For Design Clearance
Results of design calculations	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Technical specification of the equipment and cables	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Drawings: - Earthing grid - Connections points - Electrical networks	[EDMS number]	[name of Safety specialist]	[Enter comments]	For Design Clearance
Risk assessment for lightning as per EN 62305	[EDMS number]	[name of Safety specialist]	[Enter comments]	For Design Clearance
- Manufacture and assembly phases				
List of cables with technical characteristics	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
HSE report with pictures (foundation, earth electrode and earthing connections)	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Safety Inspection
- Commissioning phase				
As built file: - Electrical diagrams - Data sheets of the equipment and cables - Safety installations - Earthing grid - Results of calculations	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Safety Inspection
Instruction manual (operation & maintenance instructions)	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation

2.5. Non-Ionizing Radiation

<i>Non-Ionizing Radiation</i>				
Document	EDMS number	Verified by	Comments	Deadline
- Design and engineering phases				
Specify activity and associated hazard control measure	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Magnetic / electromagnetic field Risk Assessment	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
- Manufacture and assembly phases				
Stray magnetic field map	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
- Arrival at CERN				
EC declaration(s) of conformity	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Instruction Manual(s)	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
- Commissioning phase				
Records of measurements of electromagnetic fields	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
Records of the assessment of the risk of electromagnetic leakage	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation



Records of magnetic / Electromagnetic field measurements	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
Electromagnetic field warning devices	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation

2.6. Chemical Safety

<i>Chemical Safety</i>				
Document	EDMS number	Verified by	Comments	Deadline
- Arrival at CERN				
Safety data sheets for chemical agents concerned	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Safety Inspection
Chemical Risk assessment (Safety Form C-0-0-1)	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Safety Inspection
- Commissioning phase				
Training records	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
Acceptance test report. (e.g. LEV, eye washer)	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
Storage plans and inventories for hazardous chemical agents;	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Safety Inspection
Standard operating procedures for safe handling, transport and storage of hazardous chemical agents;	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Safety Inspection
Emergency procedures	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Safety Inspection
Fit-Test Reports for wearers of RPE (Respiratory Protective Equipment)	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation

2.7. Noise

<i>Noise</i>				
Document	EDMS number	Verified by	Comments	Deadline
- Design and engineering phases				
Acoustic study with recommendations on material and layout	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Expected level of emission and impact on emission level	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
- Manufacture and assembly phases				
Technical sheets of elements and materials with acoustic properties	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
Noise level of critical equipment (for ex, compressor, refrigerating unit...)	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Technical Reception
- Commissioning phase				
Results of noise level measures	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation



2.8. Workplace

<i>Workplace</i>				
Document	EDMS number	Verified by	Comments	Deadline
- Design and engineering phases				
Drawing and description of the workplace and working areas	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Drawing and description for accessibility and evacuation for disabled people	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
Lighting study	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Manufacture
- Commissioning phase				
As-built drawing	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation
Lighting measurements	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Operation

2.9. Environmental Protection

<i>Environmental Protection</i>				
Document	EDMS number	Verified by	Comments	Deadline
- Design and engineering phases				
Layout of the retention measures for hazardous or polluting substances	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Installation
Waste inventory	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Safety Reception
- Commissioning phase				
Results of the water leak test for retention areas	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Safety Reception

2.10. Worksite

<i>Worksite</i>				
Document	EDMS number	Verified by	Comments	Deadline
- Design and engineering phases				
Report of Asbestos survey before works	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before Tendering
- Invitation to tender phase				
Work and Safety coordination Plan (WSCP or PCTS) – (CAT1 or technical stop)	[EDMS number]	[name of approver]	[Enter comments]	Before Tendering
- Work/activity at CERN				
Prevention plan (Cat2)	[EDMS number]	[name of contract responsible]	[Enter comments]	Before start of works
Work description with safety assessment (if no prevention plan) – (Cat2 or technical stop)	[EDMS number]	--	[Enter comments]	Before start of works
Special Health and Safety Protection Schedule (SSHPP or PPSPS) – one per activity/contractor	[EDMS number]	--	[Enter comments]	Before start of works
Impact declarations and linked documents (fire permit/IS37...) are automatically registered in the IMPACT tool.				
Minutes of common inspections (VICs)	[EDMS/IMPACT number]	[name of responsible]	[Enter comments]	Before start of works



Inspection proofs for worksite equipment/installation	[EDMS number]	[name of expert]	[Enter comments]	Before start of works
Waste management plan	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before start of works
Layout of the retention measures for hazardous or polluting substances	[EDMS number]	[name of Safety specialist]	[Enter comments]	Before start of works

2. Operation Phase

<i>General Documents</i>			
Document	EDMS number	Verified by	Comments
- Operation phase			
Records of inspections, maintenance and non-conformities	[EDMS number]	[name of Safety specialist]	[Enter comments]
HSE periodic inspection reports	[EDMS number]	[name of Safety specialist]	[Enter comments]
Other periodic inspection reports	[EDMS number]	[name of Safety specialist]	[Enter comments]
Exposure monitoring for hazardous chemicals	[EDMS number]	[name of Safety specialist]	[Enter comments]
Programmes and records of performance checks for all prevention and protection measures (e.g. Local Exhaust Ventilation system)	[EDMS number]	[name of Safety specialist]	[Enter comments]
Records of evacuation drills	[EDMS number]	[name of Safety specialist]	[Enter comments]