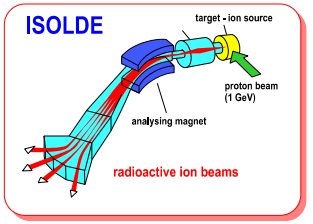
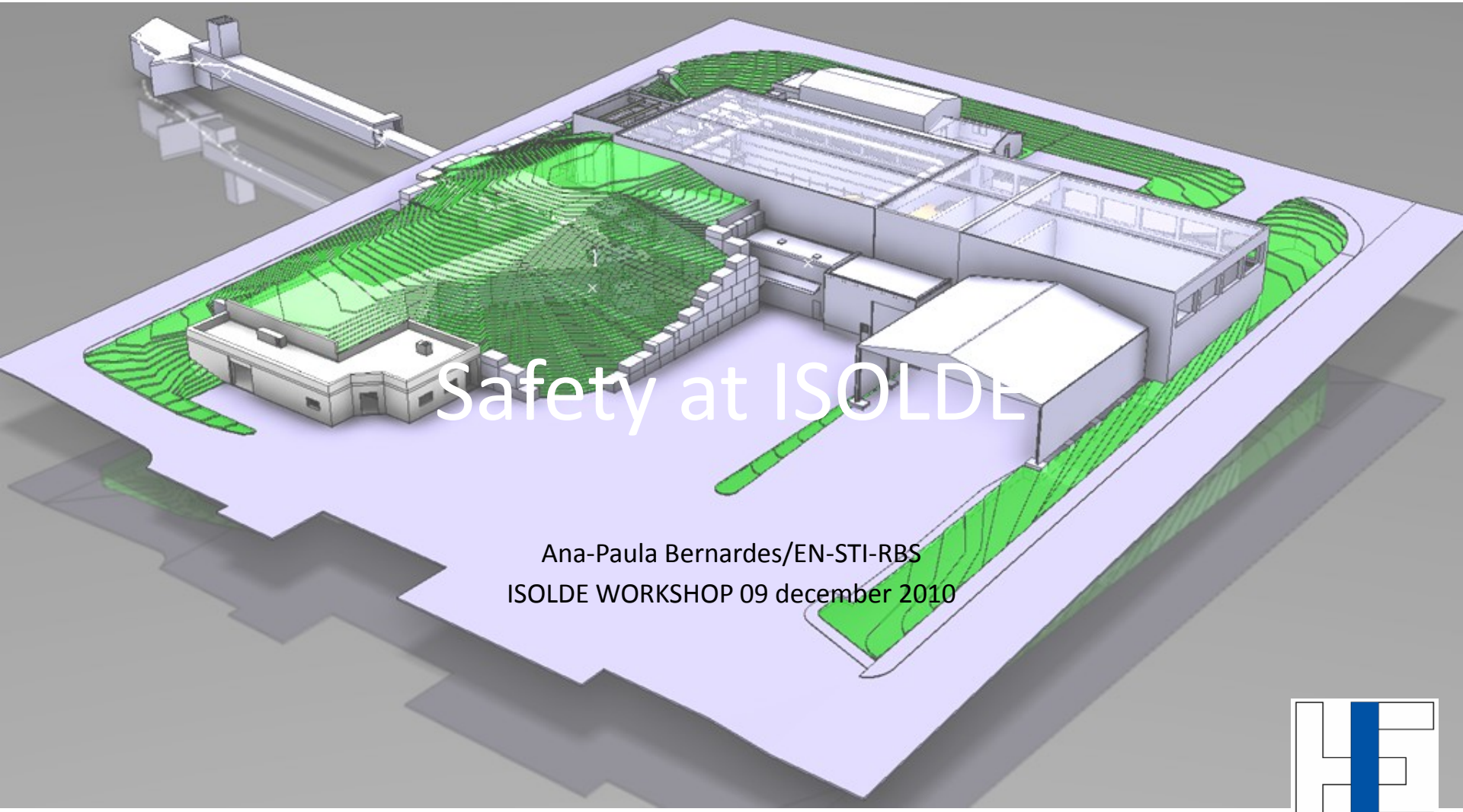
ISOLDE WORKSHOP AND USERS MEETING 2010



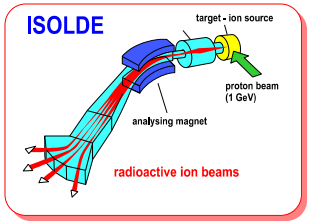


Safety at ISOLDE

Ana-Paula Bernardes/EN-STI-RBS

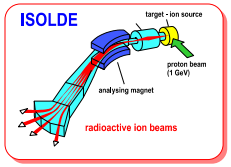
ISOLDE WORKSHOP 09 december 2010

ISOLDE WORKSHOP AND USERS MEETING 2010



- ISOLDE Safety Structure
- Safety file
- Safety and Physics
- Conclusion

ISOLDE safety structure



Authority	Check application in Dept.	Responsability
CERN	Department	ISOLDE facility

HSE
Occupational Health & Safety
and Environmental Protection Unit

DSO EN
J.PEDERSEN

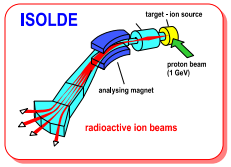
DSO BE
M.TAVLET

DSO PH
C.GRIGGS

Technical Coordinator
R.CATHERALL

Coordinator of physics
GLIMOS
M. KOWALSKA

ISOLDE safety structure



Authority	Check application in Dept.	Responsability
CERN	Department	ISOLDE facility

HSE
Occupational Health & Safety
and Environmental Protection Unit

Safety file →

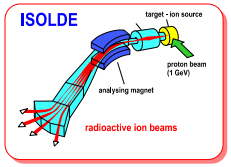
ISOLDE facility
Safety file
requested →

Technical Coordinator
R.CATHERALL

ISOLDE experiments
Safety file requested →

Coordinator of physics
GLIMOS
M. KOWALSKA

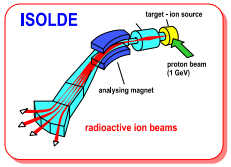
ISOLDE safety file



Safety file for experiments

- Has been requested for all existing experiments
- Will be requested for all future experiments through INTC
- Will be examined during INTC Technical Advisory Committee
- A safety report to guide the users is available and has been distributed by HSE unit (EDMS 1095136)

ISOLDE safety files



Safety file for experiments

CERN

HSE
Occupational Health & Safety
and Environmental Protection Unit

SAFETY REQUIREMENTS AND SAFETY FILE

From: HSE Unit
To: [type project leader name]
CC: [type name]
Date: Click here to enter a date.
EDMS: [type EDMS number]
Subject: Safety requirements and Safety file of [type name of experiment/equipment]

PURPOSE OF THIS TEMPLATE

The purpose of this document is to provide project leaders with the Safety requirements applicable to experimental apparatus/equipment. The Safety requirements are defined on the basis of the CERN Safety rules, Host States regulations, European Directives, international standards and best practices.

This report also defines the contents of the Safety file of experimental apparatus/equipment. The Safety file is a set of documents that the project leader needs to keep during the life cycle of the experimental apparatus/equipment in order to demonstrate compliance of the experimental apparatus/equipment with the Safety requirements.

For each experimental apparatus/equipment the following procedure applies:

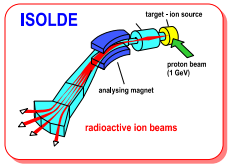
1- The project leader shall fill in chapters 1 to 3.
2- The project leader shall submit the document to the HSE Unit.
3- The HSE Unit shall fill in the chapters 4 to 6.
4- The HSE Unit shall submit the document to the project leader.

Purpose of this template

How to use this template?

Thanks to J.Batista.Lopes/DGS-HSE

ISOLDE safety files



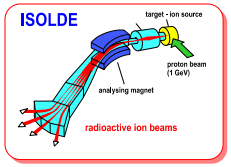
Safety file for experiments

- **Chapter 1 to 3 : Description of experiments during operation, installation, maintenance phases and hazards identification**

- Chapter 4 and 5 : From description HSE unit will define safety rules applicable and **Safety file content** (list of documents)

- Chapter 6: Based on these documents the experiment will be authorized by HSE unit and PH DSO

ISOLDE safety files



Experiments

Fill in Chapters 1 to 3 of EDMS 1095136

Read EDMS 1095136 completed

Collect information requested on chapter 5 = Safety file of experiment

Safety file of experiment

HSE unit and DSO PH

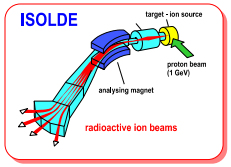
Complete Chapters 4 and 5

Assess Safety file of experiment

Give authorization

Contact person J.Batista.Lopes/DGS-HSE or C.Griggs/PH

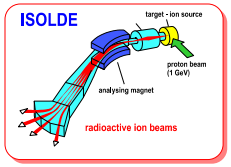
ISOLDE safety file



Safety file for facility

- Will be mandatory for all primary areas – A list of facilities to be defined soon
- Will be requested for all future projects like HIE-ISOLDE
- No template is available – ISOLDE primary area chosen as “guinea pig”

ISOLDE safety file



https://espace.cern.ch/isolde-mgt-zoneprimaire-securite/default.aspx

Safety File - Production des cibles ISOLDE

Welcome Ana-Paula Bernardes

Safety File - Production des cibles ISOLDE

This Site: Safety File - Produc

Home | Inventaire des dangers | Analyse de risque | Site Actions

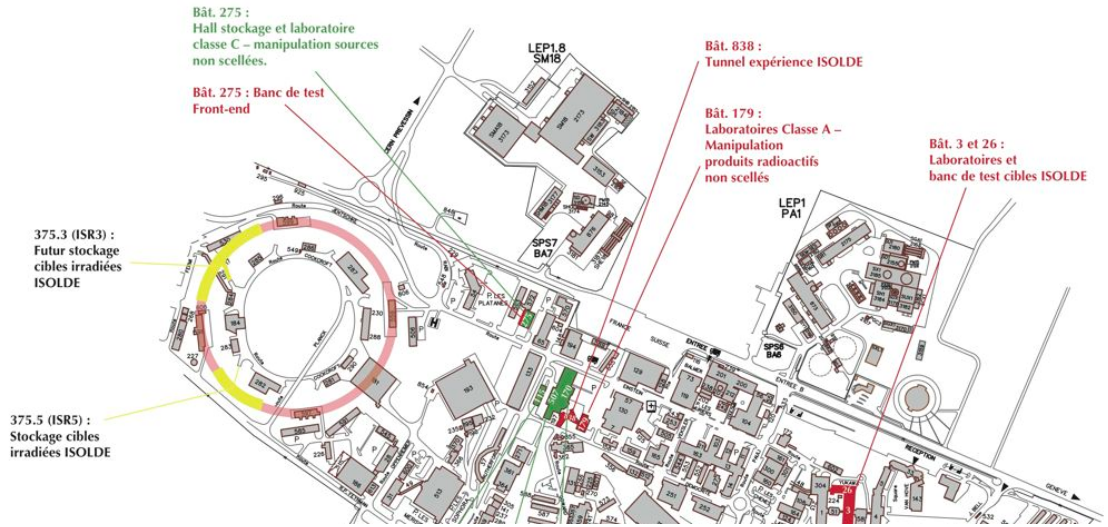
View All Site Content

- Descriptions Générales des Installations
  - Implantation et Infrastructures
  - Principaux équipements
- Inventaire des dangers
- Mesures préventives existantes
  - Moniteurs radiation
  - Alarmes niveau 3
  - Hotte de laboratoire
- Elements importants pour la sûreté (EIS)
  - Contrôle d'accès
  - ALARA
- Accidents ou évènements dangereux
  - Inventaire des accidents/incidents
  - Moyens de secours
- People and Groups
- Recycle Bin

Ce site présente uniquement les informations de sécurité concernant les zones de production, de tests et d'exploitation, des cibles ISOLDE.

Ces zones sont visualisées en rouge sur le plan.

Les liens et états des autres "Safety files" concernant ISOLDE sont synthétisés dans la liste située à droite de cette page.



Nouveautés

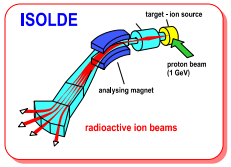
Ouverture du site à des membres extérieurs à la section EN/STI/RBS 30/09/2010 06:52 PM
by Ana-Paula Bernardes

Add new announcement

Liens vers "Safety file" concernant ISOLDE

Edit	Safety file	Bât.	Status	Coordination	Lien vers Safety file
	Safety files pour les EXPERIENCES ISOLDE	170, 115, 507, 275	En cours	PH	Accès aux fichiers SafE
	Safety file pour le projet HIE-ISOLDE		Non existant	EN	
	Safety file pour le Hall ISOLDE	170	Only REX safety file exist	EN/BE?	Lien vers REX Safety file
	Safety file pour les laboratoires ISOLDE	179	En cours	EN	Actuel site
	Safety file pour le tunnel ISOLDE	838	En cours	EN	Actuel site
	Autres installations ISOLDE	3, 26, 275 (uniquement installations EN/STI/RBS)	En cours	EN	Actuel site
	Safety file pour le stockage cibles ISOLDE	ISR3, ISR5	Non existant	DGS	

Safety and Physics



Safety

Protecting people against hazards such as radiation or contamination

Physics

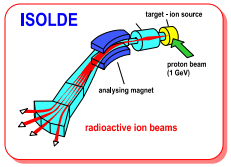
Good beam time for physics

Technical incident requesting access to target or separators area

ALARA procedure : Delay intervention
Exposing people to dose

Delay on physics
Physics program canceled

Safety and Physics

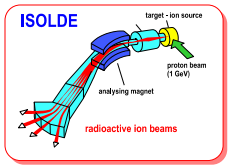


HIE-ISOLDE

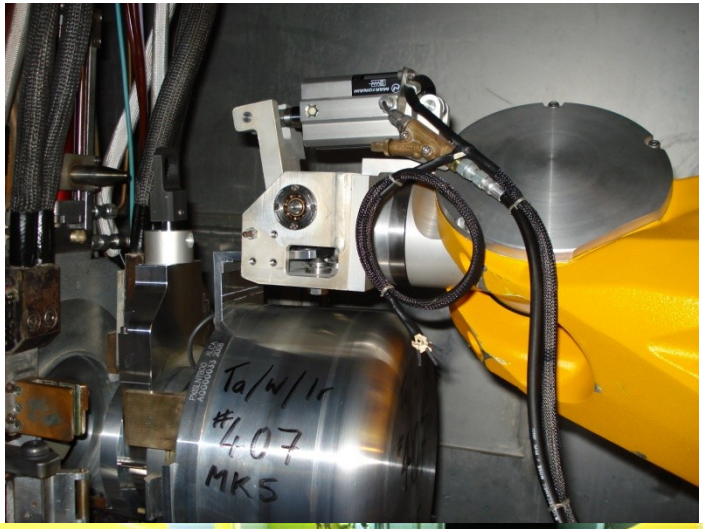
- Increase number of situations where an ALARA procedure will be requested
- Increase target cooling time before accessing to area
- Increase dose rate exposure if access needed

Need to invest more time on Safety to reduce the number of situations which could delay physics and/or expose people to hazards

Safety and Physics



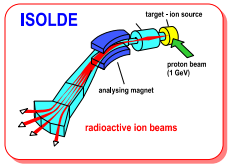
Incident Feed-Back and follow-up:



- Find the root cause and take action
- Complete risk analysis – Safety file
- Use it for future robot specifications
- Document

Reduce exposure to radiation
Reduce delay on physics

Safety and Physics



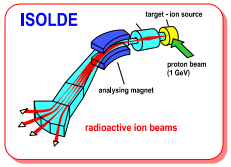
Incident Feed-Back and follow-up:

Extended progressively to all important items such as:

- Alarm level 3 events
- ALARA feed-back
- Ventilation events
- Access control events…

Reduce exposure to radiation
Reduce delay on physics

Conclusion



To improve Safety and reduce future delay on physics:

- Invest time and resources on Safety now
- Increasing Safety level progressively to fit with increase of intensity and energy for HIE-ISOLDE

- Learn from your experience

THANK YOU FOR YOUR ATTENTION

QUESTIONS?