UiO University of	Oslo	
Job Safety Analysis (J	SA)	Case and doc. no in ePhorte: 2012/11454-30
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Prepared by : HSE staff, OPA		Date : 24.09.2012 Edition : 1

Unit: Rigaku Dual Beam Synergy-S single-crystal X-ray Date: __/__/20__

diffractometer

Job task to which this Job Safety Analysis applies: Analytical characterization of geological materials with a Rigaku Dual Beam Synergy-S single-crystal X-ray diffractometer

Responsible employer:
Time of performance of the work:
Persons involved in performance of the work:

Description of the work: Crystal structure analysis and/or qualitative phase identification (Gandolfi)

Training required: Introduction to the operation of the Rigaku Dual Beam Synergy-S single-crystal X-ray diffractometer (length of the training variable according to the user experience).

PPE and other protective equipment to be used: gloves (during sample preparation)

Analysis:

Sub-tasks	Hazards	Preventive Measures
Operation	Ionization radiation	SXRD is regularly serviced and safety checked.
		There should be no exposure to X-rays or to the ionization radiation.
		The operator is not exposed to any radiation under normal working mode. Never deviate from normal mode or try to override the interlock.
		If you are a regular user of the lab, use your dosimeter.
	Electrocution	Do not remove the protective covers from the SXRD
		instrument. Do not open other components of the

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		equipment. Do not touch cables and wires. Do not let water or other objects come in contact with electric components of the equipment.
Introducing and/or removing samples in the SXRD	Personal injury caused by jamming body parts (hands)	Make sure hands and/or other body parts are clear of the chamber when closing the chamber door.
Prolonged use	Eye strain	Do regular breaks (10 min/h during operation)
	Tiredness	Do regular breaks (10 min/h during operation)
	Musculoskeletal strain or injury	Do regular breaks (10 min/h during operation) Adjust height of the seat, so that the back and neck and upright

Participants in the analysis and signatures

Role	Name	Date/signature	
Lab Manager/deputy		/	
		/	
		/	
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The Job Safety Ana he work) Name	alysis has been read	(signatures of users who will perform or be affect Date/signature	ed by
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