

	<i>Activity & Training Authorization</i>	ATA # MET/AEG/BD (Brendan Dix)	Date, Revision: 2/11/11, Rev 2.1
Department/Group Name MET/AEG	Resident Buildings or Areas: Building 001A, Sector 0 Laser Alignment Room Building 001B, Sector 10 Geodetic Laboratory Bld. 25, Mag. Meas. Area, Rm 110 and CMM Area Building 26, Mag. Meas. Lab, Alignment Lab Building 81, Magnetic Measurement Facility Building 282 & 283 Office Space Building 645, 4028, 4084 (Storage Units) Bld. 107 Machine shop	Buildings or Areas with off-shift or annual releases (if applicable). (Copy of release attached to ATA)	ATA Duration (if < 12 months) (not to exceed 12 months)
Activities	Basic Hazards	Basic Controls, including boundary conditions (engineering, procedural or PPE)	ESH Training, Qualifications, Skills, Certifications, etc.
Operate equipment in machine shop (saws, drill press, mill, lathe, grinder, sanders) Moving of equipment for an upcoming survey job. Equipment includes: <ul style="list-style-type: none"> ▪ Survey instruments (tracker, total station, level, etc.) ▪ Instrument stands (metal or wood) ▪ Leveling rods (up to 3m length) ▪ Cart (computer, power reel, etc.) ▪ Reflectors and targets ▪ Tools and tool bag. 	Cuts from sharp metal parts Hot flying chips Back injury or strain Head injury Injuries to hands, fingers or feet	Use proper lifting techniques. Ask for help or assistance when moving heavy or awkward objects Wear appropriate PPE (safety glasses, lab coat/apron)	Personal Protection Equipment (PPE) (Course 255)

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<p>Occasional use of stairs, ladders, cranes and forklifts</p>	<p>Falling down stairs or off ladder Dropping of loads injuring people or damaging equipment</p>	<p>Inspect and use ladders as trained Inspect equipment and rigging before each use Stack and secure all equipment within vehicle or on forklift Ask for professional riggers to help on challenging tasks</p>	<p>Stairway and Ladder Safety (Course 293) Fall Protection Training (Course 200) Basic Crane Operations and Rigger Training (Course 280) Forklift Operator Training (Course 283)</p>
<p>Entering possible radiological areas.</p> <p>Placing warning signs to designate the survey area.</p> <p>Setting up surveying instruments, placing reflectors and other targets around area sometimes requiring the use of ladders, connecting computers, placing illumination.</p> <p>Adjusting measured beamline components, using non-powered hand tools such as wrenches.</p> <p>Moving instruments for next set-up, rotating targets, changing illumination.</p> <p>Occasionally encountering the following:</p> <ul style="list-style-type: none"> ▪ Drilling new monuments using power tools such as 	<p>Exposure to radiation</p> <p>Falling off ladders or elevated surfaces</p> <p>Electrical shock or burns from power tools or other electrical energy Injuries from power tools including cuts, stab wounds and flying particles</p> <p>Difficult egress and/or lack of proper breathing atmosphere Dehydration Loss of hearing</p>	<p>Follow all radiological signage and required actions</p> <p>Inspect and use ladders as trained Follow formal procedure for working on elevated surfaces</p> <p>Follow formal procedure for working around energized equipment Wear gloves, safety glasses, dust mask and hearing protection when necessary</p> <p>Follow formal procedure for entering and working in confined spaces (permit required or not)</p> <p>Bring a supply of water Wear hearing protection and limit exposure time</p>	<p>General Employee Radiological Training (GERT) (Course 115) for RCA's Radiological Worker Training I (RWT I) (Course 116) for High Radiation Areas</p> <p>Stairway and Ladder Safety (Course 293) Fall Protection Training (Course 200) Personal Protection Equipment (PPE) (Course 255)</p> <p>Control of Hazardous Energy (Course 157 & 157PRA)</p> <p>Permit-Required Confined Space Safety (Course 144)</p>

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<p>hammer drills and also non-powered tools.</p> <ul style="list-style-type: none"> ▪ Using epoxy for gluing targets ▪ Using spray paint for marking surfaces. ▪ Entering tight or confined spaces. ▪ Working around energized components ▪ Working in difficult environments (temperature, noise, etc.) ▪ Working in areas where magnets operate. 			
<p>Work around equipment with energy sources (Power, Hydraulic, Pneumatic, Link Box). Work around high voltage power supplies and other electrical exceeding 50V.</p> <p>Soldering iron/torch</p> <p>Working with hazardous materials such as oils, solvents, fluxes, paints, epoxies and lead products</p> <p>Working with magnets (resistive and permanent) and test stands</p>	<p>Exposure to source of energy (electrical, hydraulic, pneumatic), tripping</p> <p>Burns, fire, Inhalation of fumes</p> <p>Exposure to hazardous materials causing injuries to eyes, skin or lungs. Improper disposal of hazardous materials</p> <p>Spilled water, electrical shock, shattering</p>	<p>Talk to area managers before working in areas</p> <p>Obtain fire permit for open flame</p> <p>Apply Lock out /tag out</p> <p>Know how to properly use equipment that verifies equipment is de-energized</p> <p>Understand the equipment</p> <p>Follow Magnetic Measurement Link Box opening procedure.</p> <p>Communicate frequency and clearly with co-workers about the status of electrical work</p> <p>Read and understand the Material Safety Data Sheet (MSDS)</p> <p>Wear appropriate personnel protective equipment such as eye protection, hearing protection, gloves, aprons,</p>	<p>Lock and Tag Program for the Control of Hazardous Energy (Course 157)</p> <p>Electrical Safety for non-electrical workers (Course 239)</p> <p>Electrical Safety for R&D Equipment (Course 251)</p> <p>Hazard Communications General Training (Course 103)</p> <p>Hazardous Waste Management (Course 105)</p>

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		respirator, etc. Some materials such as lead, Fiberfrax and radioactive materials require special controls. Unique operations or tasks involving grind, cut, weld, drill, machine or do other activities that may cause these materials to become airborne, require first contacting your supervisor, Safety Officer, or and ES&H industrial hygienist (IH) for review. Personnel monitoring and respirator controls may be required as determined by the Industrial Hygienist. Properly dispose of hazardous waste	
<ul style="list-style-type: none"> ▪ Use Limited Visibility Vehicle 	<ul style="list-style-type: none"> ▪ Hitting objects while driving 	<ul style="list-style-type: none"> ▪ Walk around vehicle and inspect area before driving. ▪ When reversing with a LVV use a spotter 	<ul style="list-style-type: none"> ▪ Course 155 - Stand Down For Drivers of SLAC Vehicles ▪ Course 159 Limited Visibility Vehicle Driver Training

ATA EXPIRES: Feb 10, 2012

I will maintain compliance with my STA training requirements, including staying current with recertification's. I understand the type of activities, including boundary conditions, which I am authorized to perform, and the hazards and controls associated with such activities.

Worker Name (please print)

Signature _____

Date _____

Brendan Dix _____

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I have reviewed the basic steps, hazards, controls & boundary conditions described in this ATA with all workers listed above. Workers listed above possess the skills, knowledge, training & qualifications to perform work as described in this ATA and are therefore authorized to carry out such work. Workers are also released to carry out such work in their resident work area, as defined in this ATA.

Georg Gassner

Supervisor Name

Signature

Date