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|  <p>NATIONAL ACCELERATOR LABORATORY</p>  | <p><i>Activity &amp; Training<br/>Authorization</i></p>   | <p>ATA #<br/>MET/AEG/HI<br/>(Hans Imfeld)</p>   | <p>Date, Revision:<br/>2/11/12, Rev 1.0</p>                              |
| <p>Department/Group Name</p> <p>MET/AEG</p>   | <p>Resident Buildings or Areas:</p> <p>Building 001A, Sector 0 Laser Alignment Room<br/>Building 001B, Sector 10 Geodetic Laboratory<br/>Bld. 25, Mag. Meas. Area, Rm 110 and CMM Area<br/>Building 26, Mag. Meas. Lab, Alignment Lab<br/>Building 81, Magnetic Measurement Facility<br/>Building 282 &amp; 283 Office Space<br/>Building 645, 4028, 4084 (Storage Units)</p> | <p>Buildings or Areas with off-shift or annual releases (if applicable).</p> <p>(Copy of release attached to ATA)</p>                         | <p>ATA Duration (if &lt; 12 months)</p> <p>(not to exceed 12 months)</p> |
| <p>Activities</p>   | <p>Basic Hazards</p>  | <p>Basic Controls, including boundary conditions (engineering, procedural or PPE)</p>   | <p>ESH Training, Qualifications, Skills, Certifications, etc.</p>        |
| <p>Moving of equipment for an upcoming survey job.<br/>Equipment includes:</p> <ul style="list-style-type: none"> <li>▪ Survey instruments (tracker, total station, level, etc.)</li> <li>▪ Instrument stands (metal or wood)</li> <li>▪ Leveling rods (up to 3m length)</li> <li>▪ Cart (computer, power reel, etc.)</li> <li>▪ Reflectors and targets</li> <li>▪ Tools and tool bag.</li> </ul> | <p>Back injury or strain<br/>Head injury<br/>Injuries to hands, fingers or feet</p>   | <p>Use proper lifting techniques. Ask for help or assistance when moving heavy or awkward objects<br/>Wear appropriate PPE when necessary</p> | <p>Personal Protection Equipment (PPE) (Course 255)</p>                  |

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| <p>Occasional use of stairs, ladders</p>   | <p>Falling down stairs or off ladder<br/>Dropping of loads injuring people or damaging equipment</p>   | <p>Inspect and use ladders as trained<br/>Stack and secure all equipment within vehicle<br/>Ask for professional riggers to do advanced tasks</p>   | <p>Stairway and Ladder Safety (Course 293)<br/>Fall Protection Training (Course 200)</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"> <li>▪ Drilling new monuments using power tools such as hammer drills and also non-powered tools.</li> </ul> | <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</p> <p>Injuries from power tools including cuts, stab wounds and flying particles</p> <p>Difficult egress and/or lack of proper breathing atmosphere</p> <p>Dehydration</p> <p>Loss of hearing</p> | <p>Follow all radiological signage and required actions</p> <p>Inspect and use ladders as trained</p> <p>Follow formal procedure for working on elevated surfaces</p> <p>Follow formal procedure for working around energized equipment</p> <p>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</p> <p>Wear hearing protection and limit exposure time</p> | <p>General Employee Radiological Training (GERT) (Course 115) for RCA's</p> <p>Radiological Worker Training I (RWT I) (Course 116) for High Radiation Areas</p> <p>Radiological Worker Training II (RWT II) (Course 250) for Contamination Areas</p> <p>Stairway and Ladder Safety (Course 293)</p> <p>Fall Protection Training (Course 200)</p> <p>Personal Protection Equipment (PPE) (Course 255)</p> <p>Control of Hazardous Energy (Course 157 &amp; 157PRA)</p> <p>Permit-Required Confined Space Safety (Course 144)</p> |

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| <ul style="list-style-type: none"> <li>▪ Using epoxy for gluing targets</li> <li>▪ Using spray paint for marking surfaces.</li> <li>▪ Entering tight or confined spaces.</li> <li>▪ Working around energized components</li> <li>▪ Working in difficult environments (temperature, noise, etc.)</li> <li>▪ Working in areas where magnets operate.</li> </ul> |   |   |   |
| <ul style="list-style-type: none"> <li>▪ Use Limited Visibility Vehicle</li> </ul>  | <ul style="list-style-type: none"> <li>▪ Hitting objects while driving</li> </ul> | <ul style="list-style-type: none"> <li>▪ Walk around vehicle and inspect area before driving.</li> <li>▪ When reversing with a LVV use a spotter</li> </ul> | <ul style="list-style-type: none"> <li>▪ Course 155 - Stand Down For Drivers of SLAC Vehicles</li> <li>▪ Course 159 Limited Visibility Vehicle Driver Training</li> </ul> |

ATA EXPIRES: Feb 10, 2013

***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

Hans Imfeld      \_\_\_\_\_      \_\_\_\_\_

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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

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Supervisor Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date