**{Company Name}**

**JOB HAZARD ANALYSIS – CARPENTRY ACTIVITIES**

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| **Title of Job/Operation:** |
| **Subcontractor:** |
| **Job Number:** |
| **Date:** |
| **Author:** |
| **Project Description:** |

**General Requirements for the use of a Job Hazard Analysis (JHA):**

Prior to starting any job, a toolbox meeting will be held to discuss the work phases and review the entire job. It will include the identification of any hazards and discussing the safest way to complete the job. All personnel involved in this work shall be familiar with this JHA and are required to acknowledge and sign the document.

All employees shall be aware of BNL safety rules as documented in this JHA and the applicable Health and Safety Plan (HASP), which must be available onsite. A brief summary follows:

1. Effective safety supervision shall be present on the project whenever work is to be performed.
2. All employees shall be effectively trained for the tasks which they are required to perform.
3. All PPE (Personal Protective Equipment) shall comply and be used per applicable ANSI standards. All workers must wear high visibility clothing, safety shoes, and safety glasses with side shields.
4. Maintain proper housekeeping throughout the project.
5. Any injury is to be reported to the supervisor immediately.
6. All electrical equipment shall be NRTL-listed (UL, CSA, ETL, TUV, etc.) or otherwise accepted by the BNL EAHJ through the EEI program.
7. Test GFCI before each use. No daisy chaining of extension cords.
8. All employees shall be aware and trained in the chemical hazard communication program (SDS, Right-to-Know). All SDSs for chemicals used shall be on file and approved by the BNL supervisor prior to the start of work as per OSHA requirements. Provide training as required by specific SDS.
9. Eyewash/Shower stations will comply with current ANSI standards located within 10 seconds but no further than 100 feet from hazardous chemical use areas.
10. If refueling equipment, use approved fuel dispenser cans only and post a no-smoking sign.
11. Operator manuals for power equipment will be available and reviewed for safe use.
12. Equipment such as ladders, power tools, hand tools, extension cords, etc. will be inspected daily for defects.

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| **Job Steps or Tasks** | **Hazards** | **Control Measures/Mitigation** |
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| Mobilization and Staging  Load job with tools and equipment | Note building/facility specific hazards | Verify that workers have any specific needed training to work in this area |
| Confusion in an emergency situation – building/facility specific | Locate exits, phones, fire pull stations, fire extinguishers – prior to starting work |
| Building/facility concerns of Access and Egress | Do not block electrical panels, doorways, stairwells, entrances, exits, fire pull boxes, fire extinguishers, gas bottles, or any other laboratory apparatus with tools or materials.    In the event something needs to be blocked, contact the building manager and job supervisor so appropriate measures can be taken |
| Injury from lifting, carrying, possible trip and fall | Use proper lifting guidelines and be aware of surrounding areas, un-even surfaces |
| BNL population and unauthorized people wandering into work area | Clearly mark work area with caution tape, and/or use signs, and/or install physical barrier such as fence |
| NOT working safely | Effective safety supervision shall be present during all work |
| Use the correct method and tool for the job at hand | Determine safe strategy to perform job and identify any specific tools needed.  Check condition of all tools & power tools, including GFCI daily.  Check condition of cords, ground prong, no daisy chaining.  If any defective tools are found – tag them and remove them from service.  Have & review the manufacturer’s owner’s manual for safe & proper use of a specific tool or equipment prior to its use.  Do not remove any safety guards or modify tools or equipment in any way. |

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| Demolition | Coming in contact with any utilities | Make visual inspection  If utilities are present – make sure they are LOTO’d or not energized (to be determined by BNL work planners). |
| Dust setting off smoke alarms | Make sure smoke alarms are off.  Keep work area ventilated, and dust to a minimum allowing no workers to be exposed to excess fumes or dust, if necessary, use wet mist to minimize dust. |
| Noise | Wear hearing protection when operating equipment labeled hearing protection required.  Contractor will monitor noise levels and require hearing protection in all areas where noise levels are above 85 decibels. |
| Using power tools and equipment | Use caution when using tools. Don’t use tools or equipment you are not familiar with without training.  Use GFCI.  Wear proper PPE. |
| Possible bodily and eye injury | Wear proper PPE including safety glasses with side shields and gloves. |
| Rodent droppings | Visually inspect demo area for rodent droppings, if found stop work and notify BNL. Droppings must be abated by others before any work can begin. |
| Asbestos dust or insulation | Visually inspect for asbestos or broken asbestos insulation on pipes and fittings in the demo area, if found stop work and notify BNL. Asbestos must be abated by others before any work can begin. |

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| Framing  Sheathing  General Carpentry | Use of power tools | Use caution when using tools. Use GFCI. Wear proper PPE. |
| Sharp objects, metal studs, wood splinters | * Use caution when working with metal studs.   Wear proper PPE to protect hands. |
| Injury from lifting | Use proper lifting guidelines |
| Coming in contact with any utilities | * Make visual inspection.   If utilities are present – make sure they are LOTO’d or not energized (to be determined by BNL). |
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| Paint | Improper handling of paint. Possible eye and bodily injury. | Use caution when using paints and wear proper PPE including safety glasses with side shields and gloves.  Review and have SDS available. |
| Public touching wet paint | Clearly mark work area with caution tape, hang “wet paint” signs. |
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| Other Hazards or Concerns | Not following Work Controls – Noted on BNL work permit. | If any work controls are checked off – follow them prior to starting:  Work practices – barricades, etc.  PPE – wear required PPE  Dosimetry – verify  Permit - verify |
| Unorganized, cluttered work site. | Maintain sound house-keeping practices daily |
| Industrial/Commercial Waste. | Put all waste into contractor’s dumpster.  Ask job supervisor for the exact location and description of commercial waste dumpster.  Do not put waste into regular garbage – do not confuse dumpster with BNL dumpster or another contractor dumpster. |
| Ergonomics issues in the workplace | Design the job, equipment, and workplace to better fit the worker and to minimize repetitive strain injuries.  Examples are, but not limited to, use of mechanical equipment whenever possible, i.e. use of chain falls and jacks for lifting, use a hand truck for moving loads, have proper lighting |
| Hidden Dangers that may cause injuries to construction personnel and BNL populous that were not covered in the JHA and job overview. | If there ever are any doubts, stop – see something, say something.  Pay close attention to your work zone boundary and how someone may be affected above, below or around you  If you are unsure of how to perform your task – stop work, call your supervisor.  If you see or identify a hazard that’s not listed on the JHA – stop work, inform all workers on job, notify supervisor, update and resubmit JHA |

I have attended the safety orientation toolbox meeting where we discussed the phases of the job and any potential hazards, housekeeping, and keeping the BNL population out of harm’s way. We also reviewed the JHA & BNL Work Permit.

I have read and understand the aforementioned JHA recommended job safe procedures and the BNL Work Permit and will follow them throughout this job:

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| **Name** | **Life Number** | **Signature** | **Date** |
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A signed copy of the JHA must be posted while the applicable subcontractor is working on-site and be available to any BNL employee upon request.