

## **Sources Sought: Manlift/Work Platforms**

### **Research Need:**

NIST has maintained and operated six (6) deadweight machines (DWM's) since 1965. Thousands of measurements, through countless force calibrations, have been performed over the lifespan of these machines. The three largest deadweight machines have movable work platforms built around the platens of the machines to assist in the setup and performance of these calibrations. These manlift/work platforms are original to when the machines were installed. Two of these manlift/work platforms which are of similar design are being targeted to be replaced as their components are deteriorating and they lack safety features which are now incorporated in modern lifting systems.

### **NO SOLICITATION DOCUMENTS EXIST AT THIS TIME**

NIST is seeking to purchase two lift platforms. Platforms are u-shaped to go around the actual dead weight machine. Lift-1 is designated as the one that will be used with our 112K dead weight machine. Lift-2 is designated as the one that will be used with our 300K dead weight machine. The original designs used a single scissor type lift with custom built extensions from the main lift to create the U-shape. Since we are increasing the size slightly from the originals, I am not sure that this is the best solution or still feasible. Design options are open to exploration.

### **Minimum Requirements**

The lifts shall meet or exceed the technical specifications identified below. NIST will not accept first articles or demonstration units. All materials shall be new. Rebuilt systems will not be considered.

- Attached to this notice are two illustrations for lift-1 and lift-2 for general sizing requirements and lifting height requirements. These are not meant to be mobile, but fixed in place apparatus
- Lift capacity should be at minimum 1500 lbs (680 kg) including operator(s).
- Controls should be able to be initiated from platform or at the floor level.
- Safety railings, gates, kickplates meeting OSHA requirements are required
- Tie off points for safety harnesses are required (2 minimum)
- Modern fail-safe lifting mechanisms are required (backup protection if component failure)
- Electrical outlets (120 VAC) on each side of platform required.
- Fixed stairway leading to the gate on the resting platform is required (Must meet OSHA guidelines)
- The interior part of the U-shape facing the dead weight machine needs to be accessible for working on the machine and or installing devices into machine. The interior part of the U-shape cannot have permanent railings that would impede this access. Safety chains or some better solution should be able to be in place while lift is operating, but then allowed to be moved while platform is in place and work is being completed.
- Additional lighting options will be considered if they can be incorporated onto the lift.
- Lifts and platforms should be painted or powder coated for appearance sake as these are in a laboratory environment that is visited quite regularly.
- Floor of platforms and stairs should be an anti-slip material and durable.
- Delivery and installation should be quoted.
- Lift-1 is accessed through a 6 ft x 7 ft doorway and will have to be modular and final assembled in place.

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- Lift-2 is accessed through a 8 ft x 7 ft doorway and will have to be modular and final assembled in place.
- Vendor will let us know what power is needed at the lift so that we can have any necessary modifications complete before install.

NIST is seeking responses from all responsible sources, including large, foreign, and small businesses. Small businesses are defined under the associated NAICS code for this effort, 333922, as those domestic sources with a size standard of 1,250 employees or less. Please include your company's size classification and socio-economic status in any response to this notice.

Companies that provide equipment that can meet the stated requirements are requested to email a detailed report describing their products to [forest.crumpler@nist.gov](mailto:forest.crumpler@nist.gov) no later than the response date for this sources sought notice. The report should include achievable specifications and any other information relevant to your product or capabilities.