

# PHYSICS DIVISION

ESH BULLETIN 2006-02

## Crane Inspections

January 25, 2006

**ANNUAL INSPECTION:** Personnel from F&O inspect each overhead crane annually. This typically happens in October in the Physics Div. It is documented by F&O.

**PRIOR TO EVERY TIME THE CRANE IS USED:** A pre-operational inspection is required. This inspection involves both a visual inspection of the items listed in the 'Exhibit: Preoperational-inspection for Overhead and Gantry Cranes' as well as running the hoist to the upper limit switch without a load on the hook. It is NOT necessary to document this inspection. The inspection can be done by a Physics staff member who is trained as an operator on the crane.

**MONTHLY:** A monthly inspection of overhead cranes is required IF the crane has not been put in standby mode. The monthly inspection includes everything required in the 'Preoperational-inspection for Overhead and Gantry Cranes' plus additional items listed in the 'Exhibit: Monthly Inspection of Overhead and Gantry Cranes'. The inspection can be done by a Physics staff member who is trained as an operator on the crane. This inspection needs to be documented (tag 218) that it was completed. If the crane is not used for six months, an inspection by F&O is required when next put back in use.

**PLACING A CRANE IN STANDBY MODE:** A crane can be put into standby mode. This can make sense if the use of the crane is less often than monthly. It should be documented that the crane has been put in standby mode. While in standby mode, the crane does not have to be inspected.

To bring a crane out of standby mode, the inspection rules change if the crane has been in standby mode for less than six months or has been in standby mode for more than six months.

### **INSPECTION TO BRING A CRANE OUT OF STANDBY MODE:**

**Less than six months:** To bring a crane out of standby mode that has not been used for less than six months, an inspection equivalent to what would be done for a monthly inspection needs to be performed. This inspection can be done by a Physics staff member who is trained as an operator on the crane. This inspection needs to be documented (tag 218) that it was completed.

**More than six months:** If a crane remains in standby mode for six months or more, or is inspected monthly but not used for six months or more, it must be inspected by a qualified person before being put back in service. Division operators cannot do this inspection. In other words, cranes that are not used for six months or more require F&O inspection. To avoid the need to involve F&O inspectors, overhead cranes need to be used at least once in the six months following the previous use.