# Serious Event Review - Drop Object- Water Pump Struck Worker's Hard Hat

## Aecon Business Sector

Major Projects East

## Project/Location

BNA (Gordie Howe) Canadian Bridge Pier 14

## Date of Event

Oct 16th, 2024

## Event Type

Lost Time (mild to severe concussion requiring 4 days away from work)

## Event Summary

An electric 2-inch water pump fell 18’4” striking a laborer on the back of the hard hat. The laborer had just descended the ladder to the bottom of the pier tower when the pump struck him on the back of the hard hat. The injured worker did not lose consciousness and remained on his feet.

## Contributing Factors

* - Equipment tethers were not being utilized at the time of the accident inside the piers for water pumps
* - The water pump was not adequately secured or fastened on the platform pier to prevent a potential drop object hazard
* - False sense of security that the horizontal tube rail was adequate prevention for dropped objects
* - The power cord of the two-inch pump was approximately 2 foot short of the bottom of the pier providing additional tension to the cord

## Lessons Learned

* - Initiate a “Process Flow” to prevent dropped objects
* - BNA- Ops & Safety to regularly complete verifications for BNA’s “Safety Absolutes” for compliance
* - BNA craft to wear JV provided hard hat and Aecon staff to wear approved class e, type 2 hard hats with chin straps
* - Supervisors and craft to visually assess their task to prevent entanglement with surrounding objects and cords inside the piers
* - Immediately remove unnecessary tools and equipment that are not needed inside the pier towers. Include a work sequence in the dewatering plan. If a tool or pump is no longer required, have it removed and relocated to a safe location immediately.

## Supporting Pictures

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