

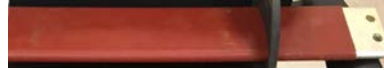
## Incident description

During removal of temporary power facilities, scrap material was stacked on an elevated platform 4.6 meters off deck awaiting the crane to remove.

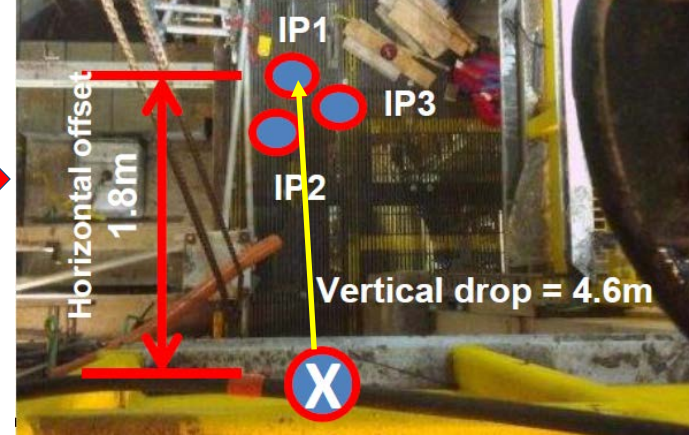
A 5 kg electrical bus bar on the stacked material was disturbed by adjacent work, slipped through the handrails and fell to the work area below. It struck three workers causing minor injuries.

## Falling Object HiPo

**What Happened?**



Electrical bus bar



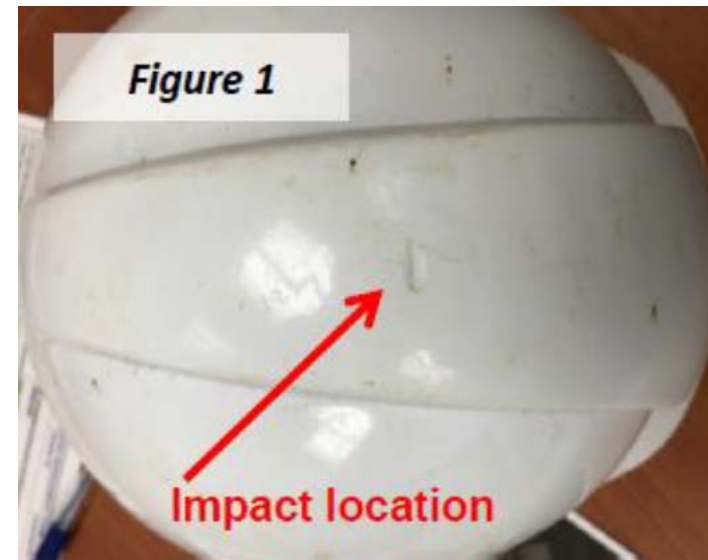
The bus bar struck an individual's hard hat directly, then contacted two other individuals nearby. This is the view looking down from where bus bar fell.

## Barriers & Layers of Protection

- ✗ Hazard ID – Scrap material from deconstruct work was stacked on the platform, not in a bin.
- ✗ Hazard ID - Work at height started without exclusion zone established below. Falling object potential not recognized.
- ✓ PPE - Hard Hat prevented serious injury.

The bus bar landed on properly worn PPE (hard hat). This incident could have been worse, causing serious injuries.

**What could have happened ?**



## **BACKUP DETAILS**

Worksite was vertically oriented, with multiple levels. Nearing the end of project construction phase, temporary power facilities were removed and scrap material were lifted out of the structure by crane. The crane was out of service due to mechanical issues and the deconstruct work got ahead of the supply of empty bins, causing scrap material to accumulate at lower levels in the structure. The scrap material included a 5 kg (10 lb) bus bar on top of a ~0.6 m (~2ft) stack of material on a stair landing.

A rope access job was started, but no exclusion zone was established below the rope access crew. As they organized ropes the bus bar was dislodged from the stack, slipped through the handrails, and fell ~4.6 m (~15 ft) to the work area below.

Three workers were hit. One on the hard hat, one on the forearm, and one on the leg/knee. None of the injuries were serious, but the incident had potential for more serious injuries.

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### **DISCUSSION POINTS FOR THE “WHAT HAPPENED?” (Suggestions For You To Choose From)**

1. Ask workers why they think this happened (lack of planning, rushing, didn't think anything would happen, lack of hazard ID, never looked below, etc)
  - Do you think the workers who stacked material on the platform thought that anybody could be injured ?
  - Do you think the rope access crew was thinking about a stack of scrap in their work area ?
  - What could the rope access crew have done to prevent the incident ?
  - What could other people who passed through the area have done to prevent it ?
  - What could the workers in the drop zone have done to prevent it ?
2. Ask workers how they identify hazards when they are working above or below other people. How can these hazards be controlled?
3. Ask workers if they would have used “Stop Work Authority” or “Approaching Others” to alert the people above or below ?

### **IMPACT / ACTIVE LEARNING DISCUSSION IDEAS (Suggestions For You To Choose From)**

Ask workers to get in groups of 2 or 3 to discuss:

- How would they feel if they had been the person who directed scrap to be stacked on the platform ?
- What if they had been the person who actually put the scrap in a position where falling was a possibility ?
- What if they had been setting up the rope access job, and heard a bang after something fell from their work area ?
- How would they feel if they had been one of the people who was injured ?