

Cell windows in the high activity examination facility contained a zinc bromide (ZnBr) solution which needed to be removed. The facility had been used for testing and examining fuel from the reactors on site. The existing drainage system left a residue in each window after use which would have required substantial additional work to clear.

## Key Facts:

- A Zinc bromide solution has a heavier density than water.
- A new hose nozzle was created using a blank stainless steel pipe.
- The steel pipe had holes drilled all around to allow fluid to be drained from every angle.
- This weight of this additional drainage nozzle allowed the hose to sink to the bottom of the tank and remain there.
- The device was trialled successful and then the used to drain all the windows, including the windows which had a residue left in them.
- The new design resulted in only surface residues remaining in each window.
- This innovative idea was rewarded through the suggestion scheme.

