BEST PRACTICE

LOCATION:	**Cement plant**	**ARTICLE YEAR**	**2017**
ACTIVITY:	**Maintenance & Housekeeping**	**COMPANY:**	**Lagan Cement Group**
SUB ACTIVITY:	**N/A**	**COMPANY LOCATION:**	**Killaskillen**
BEST PRACTICE No:	**BP1985**	**COMPANY TEL:**	**00353867200922**
COUNTRY OF ORIGIN:	**United Kingdom**		

TITLE

Device to reduce media displacement during cement mill discharge

ARTICLE

DESCRIPTION

Over previous annual shutdowns at Lagan Cement, emptying the media, six inch diameter steel balls, from the mill had proved difficult. As the mill rotated the steel balls would fall through the open hatch into the containment area, which was constructed with concrete blocks and plywood. Initially this temporary construction would contain the balls. However, as the mill continued to rotate, the repeated impact on the plywood from the balls reduced its effectiveness. Some balls would escape potentially damaging the hydraulic and water pumps located in the vicinity or their associated pipework.

To address this issue, a deflector plate was manufactured and attached to the mill hatch. The deflector ensured that the balls would be guided safely into the containment area and minimised the impact on the plywood wall. The idea proved successful and reduced the spillage normally associated with re charge operations.See attached pdf of images.

BENEFITS

- Reduction in manual handling of escaped steel media
- Downtime reduced by four hours for a six person crew
- Reduced damage to ancillary equipment
- A safer environment for all.

ARTICLE IMAGES

Click image to enlarge

