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| **Topic** | Safer maintenance and housekeeping |
| **Entry number (MPA Ref)** | 2024135 |
| **Title of Entry** | To reduce interaction with the apron, utilize crusher jacking point as necessary and reduce downtime. |
| **Name of Company** | Blue Phoenix |
| **Location** | Cleveland |
| **Video**  **(if yes, please include URL for video)** | No |
| **Other resource X (if yes, please include description)** | 2 images |
| **Fatal Theme** | 1. Workplace Transport and Pedestrian interface and  5. Struck by moving of falling object |
| **BACKGROUND** | |
| During the processing of IBA objects will go through the crusher and on occasion, there are heavy objects (hammer heads, dumb bells etc) that are not ferrous and are missed by over band magnets. These items have the potential to extend the adjustable spindles, causing misalignment with the apron. Rectifying this requires opening the impact crusher and employing pull lifts to realign it, leading to significant downtime with the whole process plant being shut down and isolated, and potential safety risks to those involved in the job.  Recognizing these challenges, discussions followed with management and contractors to explore feasible solutions. The primary goals were to reduce site downtime and enhance worker safety by minimizing interaction with the apron under pressure, mitigating the risk of injury. | |
| **MANAGEMENT OF PROCESS** | |
| The crusher design stemmed from ideas of key personnel, notably the site assistant manager and team leader. These individuals, with their knowledge of the operational intricacies, recognized a recurring challenge; the alignment of crusher aprons. Staff members who grappled with the application of pull lifts to the crusher also voiced their concerns.  On discussion with the wider team about this issue, it became evident that finding a solution to streamline this process was paramount. Therefore, the concept of an external jack point was introduced. This innovation would potentially eliminate the cumbersome task of opening the crusher and employing pull lifts on the apron.  With this support and interest, it was discussed with senior management. With their endorsement and encouragement, the feasibility and potential benefits of the proposed solution was looked at. A trusted on-site fabricator was approached to explore design options, assess costs and any potential drawbacks. This collaborative effort ensured that all perspectives were considered for a well-informed decision-making process.  The chosen design was simple yet highly effective. A jack point, resembling a goal post, would be strategically mounted externally on the crusher, positioned above the top apron adjusters. This configuration would allow for the placement of a bottle jack, leveraging compression to realign the aprons seamlessly.  Before implementation, a thorough risk assessment was undertaken to identify any potential hazards and formulate corresponding control measures. This exercise ensured that safety remained paramount throughout the process. Additionally, a detailed method statement was produced for staff, providing clear instructions on executing the task safely and efficiently.  The implementation of this innovative design mitigated risks associated with the task and exemplified the power of collaboration and open communication. By actively engaging with colleagues and valuing their input, operational challenges were identified and addressed effectively. | |
| **BENEFITS** | |
| The introduction of the new goal post jack point has brought significant benefits to operations, particularly in terms of health and safety. This innovative design facilitates the seamless compression of the apron back to its original state, thereby reducing downtime and eliminating associated risks.  The design provides a secure framework for a bottle jack to fit snugly between the top panel of the apron and the goal post. This precise configuration ensures stability and alignment, minimizing the potential for accidents during the realignment process.  This improvement enhances safety and translates into substantial gains in operational efficiency. By minimizing downtime and improving uptime, it allows for a more productive workflow. With reduced interruptions, the process plant can achieve higher output levels, leading to improved performance and increased profitability.  Feedback from site staff has been overwhelmingly positive, highlighting the impact on both safety and efficiency. The simplified task has made it easier for workers to complete their duties while minimizing the risk of injury. This alignment with safety objectives underscores a commitment to prioritizing the well-being of the workforce while promoting operational excellence. | |
| **INNOVATION** | |
| The implementation of the new goal post design exemplifies our commitment to fostering a culture of collaboration and innovation, particularly in matters concerning health and safety. By actively engaging with site staff and incorporating their feedback, we demonstrate our dedication to designing out risks associated with tasks, ultimately making operations safer and more efficient.  Through open dialogue and feedback mechanisms with site staff, it ensures that their insights and experiences are integrated into solutions. The result is a design that addresses specific challenges and reflects the practicality of those who execute the tasks daily.  New ideas and innovations are shared with other sites, recognizing that the benefit of improvements can have a ripple effect throughout the organization. This knowledge-sharing approach fosters a culture of continuous improvement across all sites, with each location learning from and building on the success of others.  Collaborating, innovating and sharing knowledge underscores the commitment to creating safer work environments and driving positive change within the organization and beyond. | |
| **DEVELOPMENT & TRANSFERABILITY** | |
| The common issue of extended apron adjusters has been effectively addressed through this innovation, significantly easing the completion of the task for all involved.  By identifying and rectifying a common challenge, it demonstrates a dedication to ensuring the well-being of the workforce. The innovation not only simplifies the task but also minimizes the risk of potential injuries associated with struggling to address extended apron adjusters.  We have shared this innovation with other sites within the company, and this exchange of ideas ensures that all sites benefit from successful solutions, fostering a culture of innovation and safety company-wide. | |
| **NB if document has embedded images try and include these**  **If other documents provided say additional information available.** | |