



H S E

HEALTH SAFETY ENVIRONMENTAL



Alert #: SA 20-24

Date: July 9th, 2024

Safety with Lifting Magnets

This safety alert did not involve any GIS personnel or any team members of affiliated companies.

Recently, a crew was working on an escape landing and were utilizing the usage of rigging and magnets to aid in the installation process. During the final fit-up before the tack welding, the magnet which was being used failed, causing it to fall and resulting in the landing shifting in the rigging. The magnet itself had secondary retention, and the RA required exclusion zones below any level work to prevent anyone from being at risk in the line of fire.

Through investigation, two factors were found which led to the falling of the magnet. Firstly, the magnet was utilized as an anchoring point connected to a painted surface. Along with this, a chain-fall was linked from the landing structure to the magnet, resulting in an undesirable side load of over 5 degrees from the horizontal. Due to these two factors, the WLL of the magnet was exceeded, leading to failure. Being able to understand proper usage of tools such as these is integral for workplace safety, and thus it is important to understand how events such as these can be prevented in the future.

WAYS OF PREVENTING SIMILAR SCENARIOS:

- Reiterate the importance of using equipment strictly as intended.
- Incorporate manufacturer guidelines and safety recommendations into internal training programs.
- Regularly review/update exclusion zone protocols to adapt to changing conditions.
- Ensure all personnel involved in rigging operations receive comprehensive training on proper lifting magnet handling/installation.
- Label equipment with proper usage guidelines to prevent misuse.
- Conduct thorough assessments of surface suitability Before applying lifting magnets.



Report all incidents immediately to the GIS Hotline 1-855-543-5163.



SAFETY ALERT