

## **Project Objective**

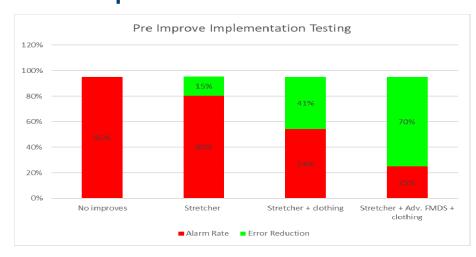
- At the creation of this initiative the Ferro-guard sounded an alarm 95% of the time someone entered from MRI Zone III into Zone IV.
- Observations indicated that there were approximately 300 defects per day per machine in the MRI suite that contains 4 MRI machines. A total of approximately 1,200 alarms per day.
- The primary goal of this project was to decrease the daily alarm rate from 95% to 5% thus reducing alarm fatigue and making alarms more meaningful.

Additionally, approximately 16 times a year an incident with the potential to cause harm occurred.

 The secondary goal of this project was to reduce harmful incidents by 100% so zero harmful incidents occur.



## **Our Recipe for Success**



Kaizen event held March 2017

3 major improves selected:

- 1. Upgrade FMDS
- 2. Ferrous free stretchers
- 3. Ferrous free clothing policy

Prior to implementing these changes were beta tested for potential results in various combinations





## Plan Do Study Act - PDSA's

Total of 11 PDSA testing sessions completed from 9/1/17 to 7/31/18

- MRI room 4 selected as beta for upgraded FMDS
- Two leading manufactures systems installed and tested
- 4 6 hour sessions on average per session
- Testing on "old" and "new" FMDS system
- Each session of testing required multiple "walk through's" of sensor on door
- Adjust system sensitivity during each session to achieve optimal setting
- · Sensors in system modified
- Moved location of sensor poles 2x
- Custom brackets built to move sensors approx. 12" closer in doorway

