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# INTRODUCTION AND TRAINING OF STPA AT L3HARRIS TECHNOLOGIES

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PROPRIETARY INFORMATION

# Background – Positive Results...Slow Adoption



- First contract results: The systematic approach of the STPA method identified hazards at a rate ~6x faster
- Despite positive results, adoption of STPA within L3Harris SAS is slow
- Reasons include:
  - Few employees have direct experience with it
  - Only one program has used it to date
  - It is a different method than we are used to using
  - Inertia (“We have ALWAYS done it like this before”)
  - Top level management is not driving the use of STPA...yet

**STPA is more efficient, but management still needs some convincing.**



## How did L3Harris present its first STPA training course?

- Video Recording (Pre COVID-19 Social Distancing!)
  - Presentation material was loosely scripted
  - Questions were not allowed during the presentation, but at the end

This method allowed for:

- Video recording continuity
- Content fluidity
- Completion within apportioned time

Training Length

- Training content was split between two hour-long sessions
- Length of each session was designed to fit within a typical lunch break

# Training Assessment - Conclusions



- Video training has been seen by ~10 individuals
- Confusion around STPA remains high (based on post training assessments)

Possible Causes:

- **Presentation method - Video**

- Questions cannot be asked
- Hands-on experience is limited
- Presenter cannot assess audience's comprehension of the subject

- **Lack of practical STPA experience**

- Only one program has used it
- More programs in the pipeline to use STPA

**Paradigm shifts are hard!**

# Training Assessment - Conclusions



- General feedback from students was excitement with a desire to get more hands-on experience with STPA
- Top 5 Advantages of using Video Training (no particular order)
  - Easy to disburse to countless remote employees
  - Allows for on-demand access
  - Viewers can learn at their own pace and review material
  - Accommodates visual/audio learning styles
  - Cost Effective in terms of reduced travel and training course fees

**Excitement for STPA is increasing within L3Harris!**