



CASE STUDY

SimplEx

SLADE INDUSTRIES SUCCESSFULLY COMPLETES 13,215 EEHA INSPECTIONS ON A SINGULAR PROJECT REQUIRING ZERO REWORK.

At Slade Industries we are dedicated to efficiency and integrity with a specialist skillset in a variety of fields. Amongst these skillsets is the provision of compliance specialists who proudly provide complete and comprehensive Electrical Equipment in Hazardous Areas (EEHA) services.

This project was no easy feat as the challenge was to complete detailed inspections across six Greenfield sites (some running concurrently) with no rework after mechanical completion and remain within budget constraints.

In order to not only successfully complete this project but also surpass the client's expectations, we recognised that a paper based work pack style system would only lead to poor quality, high cost and untimely solutions, therefore we persuaded the client to utilise the full Slade service including the use of SimplEx our proprietary digital based inspection system.

THE APPROACH



We wanted to challenge ourselves to do it better and to do it smarter, looking to develop systems, procedures and guidelines that when coupled with our experienced management team would lead to outcomes that would achieve the project goals we set out for ourselves:

- Minimal number of resources-lowest possible cost
- Highest possible quality-no rework-lowest possible cost
- Full compliance pre the Independent Audits-no rework-lowest possible cost
- EEHA site Dossiers to be completed for Handover prior to C2 (mechanical completion)—project completed on time

With the implementation of Slade Industries' fully digitised approach the project realised efficient, consistent and real-time data, fully aligned and compatible with the projects wider completions and verification processes.'

“ With a hands-on management approach, highly qualified, professional and dedicated workforce, Laing O'Rourke Australia are pleased to have partnered with Slade Industries on the APLNG project and would be happy to recommend Slade Industries to any prospective clients. **”**

John McLindon

Deputy Project Director | Laing O'Rourke Australia

How did SlmplEx play a pivotal role in the successful delivery of this project?

SmplEx is much more than just a digital solution replacing the paper based inspection sheets, its functionality includes, but is not limited to:

- Real time work scheduling, to align with Client's processes
- All process interlocks are built in ensuring that only scheduled, assigned work can be completed
- Passwords and PINs are interlocked to approved persons for completing tasks and digital signatures
- Stores the individual Hazardous Area Checks (HACs) for completion by the Inspectors
- Combines all relevant documentation (CoC, FICs, Cable Tests etc) to the Inspection
- Attaches photos to each HAC
- Review & sign off by 2nd party (after inspector) comparing against correct agreed data
- Builds Verification Dossier
- Facilitates final QA check to ensure no rework
- Combines all the project specific documentation; Procedures and Guidelines
- Stores relevant project specific Safety Documentation; SWMS and JSAs
- Provides powerful data for assessing Individual Inspector's competencies
- Punch listing and Rectification works functionality
- Numerous reporting functionality, easily customisable
- Capable of performing across multiple sites by multiple users simultaneously

SmplEx resides on industrial PC Tablets for use by the Inspectors in the field and resides on the engineers' laptops for their peer review.

SimplEx



Before SimplEx

- X15 Inspectors
- X6 Scheduling Engineers
- X1 EEHA Managing Engineer
- X1 EEHA Dossier Engineer
- X1 EEHA Administrator
- Lasted for 10 weeks
- Created 654 punch list items
- Used over 15,000 sheets of paper
- Created a 35% End Client side QA reject rate on inspections
- Approximately 5% of workpacks lost and had to be redone, or inspections duplicated
- All data on paper inspections had to be data entered into an Excel Equipment List

Using SimplEx

- X6 Inspectors
- X1 System Admin/Scheduler
- X1 EEHA Managing Engineer/ Approver
- X1 EEHA Dossier Engineer/ Approver
- X1 EEHA Administrator
- Lasted 5.5 weeks
- Created 0 Client side Punch List Items
- Used 5000 sheets of paper – Saved > 60,000 sheets over project
- Created <0.5% End Client side QA reject rate on Inspections
- No lost data or inspections
- Equipment Register and partial Dossier generated directly from Inspection data

Key Success Factors

What other factors were key contributors to success?

Success was directly contributed to, but not limited to;

- The correct project methodology (Processes, Systems, Procedures / Guidelines)
- The correct selection of tools, particularly SimplEx
- The correct allocation of resources (passionate people who are driven to succeed through continuous improvement) this project not only included EEHA Inspectors, it also included highly competent engineers and admin staff

The measure of Success

Our measure of success on this project stands as a testament to our performance.

- ☑ Under budget
- ☑ Ahead of schedule
- ☑ Zero harm to people and the environment
- ☑ Extremely high quality deliverables

“ WE WANTED TO CHALLENGE OURSELVES TO DO IT BETTER AND TO DO IT SMARTER. ”



“ Slade’s Inspection team is of the highest calibre who openly share their knowledge with LOR’s construction group, this is to better their knowledge and procedures when installing equipment within a Hazardous Zone.

A direct measure can be seen through the current Punch List rate which is nearly zero. Mitigating issues onsite and dealing directly with vendors where gaps appeared, this both with installation and design faults, going above and beyond their given scope. ”

Jimmy Young

Gas Field Facilities Engineering Lead | APLNG Upstream Project, Origin Energy

“ OE QA Review of HA Dossier is complete, once again this is a great result by the Slade Team in producing a HA Dossier which is concise, complete and of exceptional quality. ”

Daniel Milford

E&I Quality Representative | APLNG Upstream Project, Origin Energy

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