



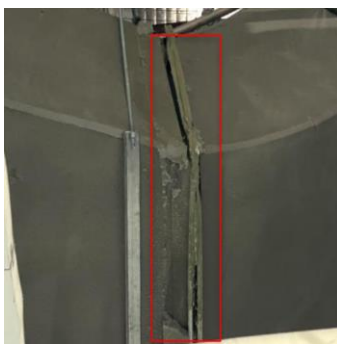
ALERT

Learning from NCAR (L-QA-NCAR-01-60)

PROBLEM / FINDINGS

Poor ducting workmanship at PLS03 by WTY Engineering Sdn. Bhd. (as per attached photo).

1. WTY failed to install ducting as per MOS even though training & refresher training has been conducted.
2. PLS03 Project Team constantly instruct and advise WTY on the correct way to install ducting works but they keep repeating the same mistakes.
3. Several Quality Site Inspection Reports have captured findings on ducting installation procedures.
4. Ducting works at Insulin Facility had major leaks and leads to HVAC air balancing failures.
5. WTY always short-staffed and failed to increase manpower on-site and this cause delay to site progress.



ROOT CAUSE

1. The worker are not fully aware on the Install & Insulate Ducting System Guideline/ Ducting Installation MOS and quality to be met and achieved.
2. No supervisor by WTY Engineering Sdn. Bhd. to monitor the workers during construction.
3. Insufficient manpower to meet the deadline of planned work.

CORRECTION

1. The damage/ modified ducting were dismantled and installed with new ducting.
2. Improper insulation is removed and more adhesive/ glue were applied which come with adding insulation.

CORRECTIVE ACTION

1. During TBM every morning, all workers need to be briefed on the standard and quality of work which includes the standard procedures that the workers has to comply with.
2. To provide one supervisor for each team in order to monitor the work progress closely.
3. To add at least one team for each minor work and two or three teams for major work (each team to have a supervisor for monitoring).

KEY POINTS

- ✓ **Training & briefing** on the standard & quality of work should be conducted as a reminder to sub-contractor.
- ✓ **Supervisor** to monitor the workers during construction.
- ✓ Sub-contractor to **notify** to Lufiter if **short of manpower** during construction.