



Construction Safety Week

建造業安全周

Safety Summit 2012

安全峰會

T C Chew, Projects Director

工程總監 周大滄

MTR Corporation



Main safety challenges in the coming years

未來在安全方面的挑戰

1. Five new projects being constructed simultaneously, with over 5,000 contractors staff and 16000 workers employed at the peak:

五個新鐵路項目同時進行、在高峰期將聘用超過五千名管理人員及一萬六千名工人

- Different levels of contractor safety standards and culture

承建商有各自不同的安全文化及標準

- Possible lack of experienced and trained management, supervision and workers

有些員工、包括管理、督導及前線工人可能經驗及訓練不足

2. Construction activities involves high risk work in densely populated areas:

須在人口稠密的社區進行高難度的建造工程

- Over 100 work sites across the territories

超過一百個工地同時在施工

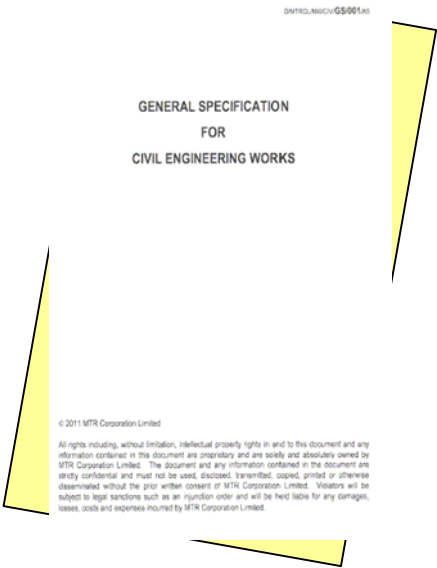


Safety Strategy

安全策略



Stringent Contractual Safety Requirement and Welfare Facilities for Workers - Rigorously enforced by site staff 嚴格執行合約安全及工人福利設施條文



Strict enforcement of method statements for high risk activities 嚴格執行高風險工序施工方案

All Site Engineers and below are trained in the development of MS and RA.

所有工程師及監工均已接受施工方案及風險評估訓練

Project site and safety staff review MS and RA against the actual work process.

工程及安全人員定期巡查確保施工方案在工地落實執行

HQ safety staff conduct independent reviews of high risk MS and RA against the actual work process.

總部安全人員不定期執行獨立檢查



Contractors Incentive Scheme 安全表現支付計劃

Staff safety or environmental training days attained

No non-conformance identified in the monthly audit

No exceedances recorded in the monthly monitoring in a month

Honored Environmental Excellence Scheme

No complaints in a month

Achieved high physical condition score

支付予承建商金額已超過一億港元



Contractors Safety Awards 安全頒獎典禮

6-monthly safety awards are organised for contractors

每半年舉辦大型頒獎典禮:

- Best Contractor Award 安全大獎
- Highest DNV Audit Score Award 安全稽核獎
- Best Site Condition Award 最佳工地獎
- Contractor with the lowest RAFR 意外率最低獎
- Contractors' Supervisors Award 最佳管工獎
- Best Near Miss Report Award 最佳險失事故報告獎
- Best Site Team Award 最佳團隊獎



2013/4/30

Page 7



Safety Conferences and Workshops 安全

會議

Quarterly safety conferences and workshops are organised to share lessons learned and new initiatives.

每季舉辦大型安全會議、分享經驗及新安全策略及措施。



Contractors Safety

Conference



Safety Practitioners
Conference



Senior Inspector of Works



Safety Alerts & Accident News Cuttings

安全事故及剪報即時傳閱

MTR Projects Division
SAFETY ALERT
 Issue No.: 156
 21 Jan 2012

A worker tripped and fell from a working platform to the access staircase

Whilst a G.I worker was assisting the unloading of a drilling rig on a scaffold working platform, he tripped over the toe board and fell to the access staircase of the working platform, causing minor fracture to his left leg below the kneecap.

MTR Projects Division
SAFETY ALERT
 Issue No.: 152
 7 Feb 2012

Accidental Trigger of Machine

In one of the SIL sites, two workers were injured while using a bar bending machine on site. One of the workers accidentally switched the machine on, possibly with his knee hitting the start button. The re-bar bent towards another worker who was holding the re-bar at the time of the accident.

One worker suffered from a right thumb injury and the other worker received injuries to fingers on both hands. First aid care was provided to the injured workers on site, before they were transferred to QMH hospital for further treatment. One worker required 8 stitches on his right thumb and the other got some minor laceration.



The start button on bar bending machine
 Start button were not protected

Newspaper Cutting
 新聞剪報

A pre-cast concrete facade toppled and hit a worker while being lifted

2012年2月14日
 Oriental Daily

Yesterday morning at a residential building site at Shek Kok Road at Tsing Kwan O, a worker sustained serious injury as an accident related to the unloading of a pre-cast concrete facade from a lorry. It was suspected that when the suspended load was being placed on the ground, it tilted backwards and fell due to uneven ground surface and hit the worker who was helping the lifting operation.

The 37-year-old worker was assisting the unloading of the pre-cast facade which was 8 feet high, 20 feet wide and weighs around 5.5 tonnes. When the load was landed on the ground it toppled sideways and hit the 37 on his head and he was unconscious. He was sent to Tsing Kwan O Hospital and later transferred to Queen Elizabeth Hospital for treatment. His condition was critical and the accident was being investigated by Labour Department. The main contractor is Paul J. Construction.



Newspaper Cutting
 新聞剪報

A worker impaled by re-bars from a fall

2011年12月08日
 The Sun

(mainly translated from The Sun)

A 56 years old worker fell from 8/F to 7/F of a hotel under construction was impaled by two re-bars. He was a signman for the tower crane. He was rescued by FSD and lowered down to ground level by the tower crane on a skip. He has been admitted to ICU and is in critical condition. The accident is under investigation by Labour Department. The contractor is Unstress Building Construction.



職業安全健康處
 Occupational Safety and Health Branch
 勞工處
 Labour Department

安全警告
 使用流動梯子

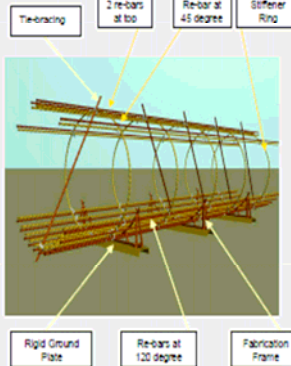
- 意外日期：2012年1月
- 意外地點：荃灣一個停車場
- 意外概要：一名工人在爬上一把人手金屬梯進行污水管維修，其後墮重死亡。
- 給承辦商/僱主的職安警告：從事樓宇裝修及維修工程的水電工/保主應：
 - 盡量避免進行高空工作；
 - 在使用樓梯或升降工作平台等均不正確地使用流動梯子；
 - 確保使用流動梯子只限於短時間內完成及
 - 提供安全使用流動梯子的適當訓練及指導
- 參考資料：



安全提示 第001/11號
 扎結鐵樁鐵籠(孔籠)
Safety Alert No. 001/11
 Fabrication of Reinforcement Cages of Bored Piles

Fabrication of reinforcement cage is a common work process when carrying out bored pile foundation work. During the operation, relevant safety measures should be taken so as to prevent the occurrence of accidents. Practitioners are alerted to the following safety measures:

- Prior to the commencement of fabrication, site foremen, engineers and relevant parties should jointly carry out a risk assessment of the reinforcement cage fabrication process and implement the safety measures determined as a result of the assessment.
- A method statement for the fabrication of reinforcement cages should then be drawn up, including the relevant risk assessment, working drawings, safety working procedures, etc.
- For the fabrication work, suitable equipment including arc-shaped fabrication frames, ground plates, working platform, etc. should be used.
- The arc-shaped fabrication frames and ground plates should be placed on rigid and flat ground. Barriers and warning signs should be provided to guard against possible damage by other equipment and vehicles.
- The arc-shaped fabrication frames for supporting the reinforcement cage must be fabricated (as shown on the sketch) ahead of other bar fixing process. It is important that:
 - Upon re-bars are fixed with tie-wires on the lower portions of the stiffener rings (a span of 120"), all these re-bars (both inside and outside the cage) are immediately fastened by U-bolts; and
 - At least 2 tie-bracings are fixed by U-bolts at the top positions of the stiffener rings at both ends of the cage. Sufficient tie-bracings would also be fixed by U-bolts on the other stiffener rings.
- The bar fixing foremen should closely supervise this work process to ensure full compliance with the approved method statement.
- The bar fixing foremen should have the relevant experience in the fabrication of similar reinforcement cages.

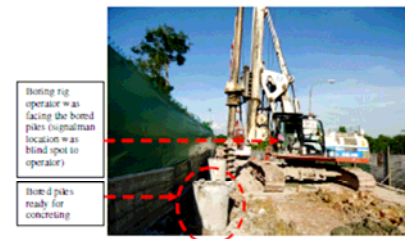


Disclaimer
 The material contained in the Alert constitutes general guidance only. It does not make any, or impose, any legal obligation upon any person to comply with any statutory duties under relevant legislation. Users should make their own evaluation of the information contained in the Alert to determine if it can be applied to their own situations and practices. The Construction Industry Council (CIC) does not accept any responsibility for any loss or damage resulting from the use of or failure to use of the information in the Alert.

18 October 2011

Memorandum

Land Transport Authority



Schematic plan showing contiguous bored piling work at accident site



- The boring rig moved to the right to create space to cast the pile #47
- Banksman for boring rig left site for a toilet break during accident

- The signalman was immediately sent to NUH by an ambulance.
- The doctors confirmed that the signalman's right lower limb needs to be amputated while his left foot was treated for swelling.

Date of Issue	OSH Alert 3/2012	Reference No
3/05/2012	Page 2	LTA/SAFE/E35.002.000/548/009

5 New Initiatives 新措施

施

* New Worker Caring Program

新工人照顧計劃

* Contractor Safety Officers & Safety

Supervisors

Practical Training Course

承建商安全人員實務課程

* Safety Training Officers Induction Course

承建商安全訓練主任技能提升課程

* iSafe Campaign Update

安全我做起運動

* “Don’t Walk by” Campaign

即時匯報安全隱患運動



Workers' Life Insurance Scheme

建造工人人壽保障計劃

MTR is the **first** major employer in Hong Kong to sponsor a free life insurance scheme to provide financial benefit to the family of workers in the unfortunate event of their death

港鐵公司是本港首位僱主為建造工人購買人壽保障計劃，如工人在職期間因病或其他原因不幸身故，其家人將得到一筆現金解困。



The poster features the MARSH and MTR logos at the top. The main title is 'MTR WORKERS' LIFE INSURANCE SCHEME' in English and Chinese. Below the title, it states 'Free Life Insurance Protection' and '免費人壽保障福利'. The effective date is 'Effective from 1 April 2012' and '2012年4月1日生效'. Contact information includes 'Enquiry Tel. No.: (852) 3476-3700' and 'Input Pin Code 1015'. Working hours are listed as 'Monday to Friday, 9:00a.m. to 5:30p.m. (except HK Public Holidays)'. The poster also includes the MARSH logo and the MTR logo at the bottom right.

Aim 目的

- It is our aim and our duty, to ensure that all our staff and our contractors workers go home to their families in the same condition as they arrived in one piece and healthy!



我們的責任及目標是要確保所有員工及承建商工友每天均能平安下班與家人團聚。





Thank You

安全隱患 即時匯報



Don't Walk By



安全
我做起

SAFETY
STARTS
WITH ME

Ask Yourself This
Before Starting Work



- ? What is your **hazard** ?
- ? Is your **equipment** suitable?
- ? Have you been **trained** ?
- ? Is your **workplace** safe?

