

**Chronology of Important Activities Relating to Steel Reinforcement
in Tung Chung Area 30 Phase 3 Building Contract**

<u>Date</u>	<u>Event</u>
23 March 1995	Building Committee (BC) approved proposed client brief, control plan and project estimate for Tung Chung Areas 30 and 31
18 July 1996	BC approved proposed revised client brief, control plan and project estimate for Tung Chung Areas 30 and 31 to increase the development ratio
23 January 1997	BC approved proposed revised client brief, control plan, scheme design to further optimize the development ratio and project budgets for Tung Chung Area 30 Phase 3 which was based on June 1996 cost yardsticks
23 December 1997	BC approved by presumption the updated project budget for Tung Chung Area 30 Phase 3 based on June 1997 cost yardsticks
6 February 1998	Issue of tender documents
6 March 1998	Housing Department (HD) received seven tenders
21 May 1998	BC approved tender award to Cheung Kee Fung Cheung Construction Company Limited (CKFC), the lowest tenderer
30 July 1998	Commencement of Building Contract
20 January 1999	Reinforcement bar batch 23 (Y10, Y16, Y25 and Y32) delivered to site
25 January 1999	Reinforcement bar batch 24 (Y10, Y16, Y20, Y25, Y32 and Y40) delivered to site
2 February 1999	Site direction issued by Project Clerk of Works warning against CKFC cutting bars of batches 24 and 25 which were pending test results
3 February 1999	Reinforcement bar batch 26 (Y10, Y12, Y16, Y20, Y32 and Y40) delivered to site

<u>Date</u>	<u>Event</u>
6 February 1999	Test certificates issued by Castco, testing Contractor, indicating failure of Y32 of batches 23 and 24 on yield stress test
8 February 1999	Test certificates issued by Castco indicating failure of Y20 of batches 24 and 26 on yield stress test Project Structural Engineer (PSE) sent a reminder to CKFC warning against the cutting of untested bars of batches 24 and 25
12 February 1999	CKFC removed non-compliant reinforcement bars (Y32) of batch 23 from site
13 and 22 February 1999	CKFC removed non-compliant reinforcement bars (Y20) of batches 24 and 26 from site
25 February 1999	CKFC removed non-compliant reinforcement bars (Y32) of batch 24 from site
4 March 1999	CKFC reported to PSE the removal of non-compliant reinforcement bars (Y20 and Y32) of batches 23, 24 and 26 from site with photos and returned goods advice
20 & 23 March 1999	Reinforcement bar batch 37 (Y10, Y12, Y16 and Y32) delivered to site
25 March 1999	Test certificate issued by Castco indicating failure of Y16 of batch 37 on mass density test
26 March 1999	CKFC removed non-compliant Y16 of batch 37 reinforcement bars from site
27 March 1999	CKFC provided HD with photos and returned goods advice to confirm removal of non-compliant Y16 of batch 37
10 May 1999	Reinforcement bar batch 50 (Y10) delivered to site
13 May 1999	Test certificate issued by Castco indicating failure of Y10 of batch 50 on yield stress test
14 May 1999	CKFC removed non-compliant Y10 of batch 50 reinforcement bars from site and submitted to PSE photos and returned goods advice to confirm removal

<u>Date</u>	<u>Event</u>
18 November 1999	HD conducted architectural/structural site audits. Use of sub-standard reinforcement bars not detected
24 May 2000	ICAC arrested six people from CKFC for suspected corruption involving sub-standard reinforcement
26 May and 15 June 2000	Open up inspections of concrete structure and testing by HD confirmed rejected non-compliant reinforcement bars had been used but structural safety had not been compromised
19 June 2000	Issue of an Independent Checking Report by CM Wong & Associates Ltd. The Report confirmed presence of non-compliant reinforcement in superstructure but structural safety had not been compromised
29 March 2001	Substantial completion of Building Contract

Source of information : written and oral evidence provided by witnesses