A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	2016年2月19日	C
D	上午 9 時 35 分恢復聆訊	D
E	出席人士: 石永泰資深大律師、許偉強大律師及鄭欣琪大律師,為外聘 律師,代表食水含鉛超標調查委員會	E
F	王鳴峰資深大律師、陳樂信大律師及羅頌明大律師,由律政 司延聘,代表水務署署長	F
G	李柱銘資深大律師、譚俊傑大律師、吳思諾大律師及吳宗鑾	G
Н	大律師,由何謝韋、李偉業律師事務所延聘,代表啟晴邨及 葵聯二邨公屋居民代表 Lee Pui Yi、Chong So Nga 及	Н
I	Lui Hui Ping	I
J	何沛謙資深大律師,由羅夏信律師事務所延聘,代表香港房 屋委員會	J
K	林定韻大律師,由孖士打律師行延聘,代表中國建築工程(香港)有限公司	K
L	李頌然大律師,由顧增海律師行延聘,代表有利建築有限公	L
M	司、明合有限公司及伍克明	M
N	許佐賓大律師,由的近律師行延聘,代表保華建築營造有限 公司	N
O	孖士打律師行陳宇文律師,代表瑞安承建有限公司	o
P		P
Q	羅先生:主席,水務署而家想傳召簡國樑先生出嚟作供。	Q
R	主席:好呀,好呀。	R
S		S
T	請宣誓,簡先生。	
Т		Т
U	水務署第三證人:簡國樑(水務署專家證人(本地建築及水喉業))以本	U
v	Transcript by DTI Corporation Asia, Limited	V

A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	<u>地話宣誓作供</u> 羅先生主問	C
D	問:簡先生,早晨。	D
E	答:早晨。	E
F	問:我係代表水務署嘅大律師其中一位。請你翻開你面前嘅文件夾 C21 號,同埋揭去 18976 頁。係,簡先生,你為咗今次嘅研訊,其實係 準備咗一個嘅專家證人報告。	F
G	答:唔,唔。	G
Н	問:一陣間我係會將佢讀出,咁亦都請你確立一下,你會唔會採納佢成為	Н
I	你嘅主問證供一部。但係喺做呢樣嘢之前,我想先請你揭去 18995 頁。	I
J	答:1899	J
K	問:5。	K
L	答:18995。	L
M	問:18995,呢一個係你嘅個人履歷嚟嘅。簡先生,搵唔搵到?	M
N	答:係,係。	N
o	問:係,係。咁呢一度,呢份履歷表係將簡先生你嘅即係教育背景、工作 履歷,同埋一啲嘅專業資格亦都係列出嚟嘅。我好簡單咁問幾個問	0
P	題,第一,就關於教育背景方面,你係有一個嘅理學士嘅學位,可唔 可以簡單同委員會講一講呢個學位嗰個背景個資歷係點樣樣?	P
Q	答:呢個係我喺九十年代嚟講,係一個美國嘅銜授課程嚟嘅。	Q
R	問:係。另外,喺你嗰個工作履歷方面,睇到你由 72 年開始做學徒,之	R
S	後,你係一直喺呢個建築行業、水喉行業,定有有做過其他工,可唔 可以簡單同委員會講一講?	S
T	答:其實嚟講,我由 72 年入行到而家為止,一路都係喺呢個行業裏面做 嘅,咁雖然我其中有啲時間係做消防工程,但係都係同做水有關嘅業	Т
U	務。	U
	- 2 -	

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Transcript by DTI Corporation Asia, Limited

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問:係,唔該。然後,去到呢一頁較下嘅部分,係有一啲嘅關於你嘅公職或者專業資格等等。我想請問一下,第一項,"Chairman of The Institute of Plumbing and Heating Engineering - Hong Kong Branch (2011-2014)"。咁睇番你嗰個專家報告,我哋知道呢一個會就係所謂英國特許水務學會嘅香港分會,可唔可以簡單同委員會講一講呢一個會其實係咩嘢嘅組織嚟嘅呢?

F

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H

答:呢個會係喺世界上一個幾乎係最早成立嘅一個水務學會,咁佢主要嚟講,就係促進呢個係水務工程行業嗰個發展,做一啲係 design guideline嘅工作,同埋一啲係--佢哋亦都有--因為佢哋有個會員資格叫做 RP 嘅,喺英國嚟講係叫做註冊水喉匠,咁係做一啲培訓嘅工作。現時香港水務署用緊喺佢哋嗰個 design,或者喺香港好多嘅顧問工程,都係有用我哋母會嘅 guidebook 嚟做一個 design guide 嘅。

I

問:作為呢個會嘅會員,喺香港同嗰個持牌水喉匠 (LP)嘅資格會唔會有 啲咩嘢關係呢?

K

J

答:而家嚟講,香港水務署係認可我哋嘅 member 嚟講,就可以豁免係讀 嗰三年嘅全科水喉技工課程。

L

問:係,唔該。然後,去到第四項,你亦都係一個"Advisory Board of the Licenced Plumber"嘅成員嚟嘅,可唔可以簡單講一講呢個"Advisory Board"係咩嘢?

N

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M

答:其實呢個 Advisory Board 嚟講,主要就係喺去年嘅七月嚟講,香港發生鉛水事件之後,咁水務署嚟講,就同我哋水務業界就開咗唔少嘅會議,咁佢就喺商會、學會,或者係呢個持牌水喉匠會,都係邀請咗一啲代表去加入呢個會,就就住點樣去進行持牌水喉匠嘅監管係提出一啲建議。

Q

P

問:係,明白。下一項,"Advisory Board of the CICTA (courses of plumbing and sanitary installation)",呢個又係乜嘢 嘅會嚟嘅呢?

S

R

答:其實嚟講,喺而家香港嚟講,除咗呢個 IVE 嚟講,CICTA 係其中一個係提供水務工程學員嘅培訓嘅機構。咁佢哋嚟講,就同我哋商會或者學會、整個業界嚟講都有好緊密嘅聯繫,咁佢哋就會喺每年都有一啲定期嘅會議界大家去 review一下,而家喺香港整個培訓課程裏面係咪能夠與時並進,有啲咩嘢新嘅嘢嚟講,係需要提供畀啲學員嘅。

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A	食水含鉛超標調查	委員會	2016年2月19日 A
В			В
C		西,簡先生。咁簡先生,而家我會開始 日 18976 頁開始,咁請你亦都慢慢咁	C
D	咩嘢地方,	你需要有啲咩嘢澄清或者更正等等。	D
E			E
F		<u>簡國樑的專家證人報告</u>	F
G	超過匹港分會	i國樑,自 1986 年起成為一級持牌水 十年。我於 2011 至 2014 年,擔任 主席,現於美利華亞洲有限公司任職	E英國特許水務學會香 成董事總經理兼任技術
Н	_ ,	我公司主要承辦公私營供水、排水及	Н
I	興邨及	: 曾參與之水喉工程項目有: 七十至八 : 愉景灣私人濾水廠等; 在成為持牌水 持牌水喉匠身份負責機場地面運輸中	、喉匠後,於九十年代 I
J		的西九戲曲中心。我的履歷見附件一	
K	,	[律政司的要求,代表水務署署長作摄 [求乃律政司於二零一五年十二月四	
L	本人可	:另有表明外,這報告所述的事實乃基 查閱的辦公室檔案及記錄和本人可獲 所得資料和所信,這些事實均屬真確	E 知的來源,而盡本人
M	,,,,		E ° M
N	, , ,	證人報告涵蓋以下範疇:	N
0	或	₹括描述在高層住宅大廈中建造、安裝 ₹移動食水水喉系統的每個階段當中 ₹建造/安裝/保養/更改/修理/拆除各	,包括其申請/審批, O
P	源	京,和於建造/安裝/保養/更改/修理/ 機械需否多人同時操作,及各階段牽涉	/拆除階段時所涉及的 P
Q	怒	Z驗/技術知識水平;	Q
R		一個公共房屋住宅項目(例如:啟晴 事項的認知和理解:	f邨),描述本人對以 R
S T	(a) 整條屋邨的建造時,一般所需的 <i>)</i> 員及工人)及時間;	
U	()	b) 屋邨內所有水喉系統及設施建造。 人力資源及時間;及	T /安裝時,一般所需的 U
	T	- 4 -	

A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	(c) 只由持牌水喉匠親自進行每一項水喉工程工序的可能性(包括技術上是否可行,及若所有水喉工程的工序都 須由持牌水喉匠親自進行,所牽涉的額外建築時間及成	C
D	本);	D
E	(iii) 就水喉行業於過去三十多年的建造及安裝等作業模式,包括 但不限於監督及審查該等水喉工程的一般做法或常規,根據	E
F	當時的項目規模/複雜性、水喉物料、水喉接駁方法及水務 署要求,提供意見;	F
G H	(iv) 根據個人超過三十年的經驗,就香港水喉行業是否適合採用 一個或多個持牌水喉匠親自進行建造、安裝、保養、改造、 維修、及拆除內部供水系統每一項水喉工程工序的制度,提	G H
I	供意見。若認為不適合,請解釋這個要求一個或多個持牌水 喉匠親自進行建造、安裝、保養、改造、維修、及拆除內部 供水系統每一項水喉工程工序的制度,所需的修改為何;	I
J K	(v) 個人對過去多年持牌水喉匠的培訓及發展的認知和理解;及	J K
L	(vi)針對在鉛水事件曝光前,評論持牌水喉匠於大型樓宇項目中 所擔任的角色及安排是否恰當。	L
M	5. 在撰寫本專家證人報告時,我曾參閱以下由水務署提供的文件:	М
N	(i) 水務署助理署長梁永廉於 2015 年 11 月 11 日的證人陳述書;	N
0	(ii) 水務署助理署長林正文於 2015 年 11 月 11 日及 2016年1月27日的證人陳述書;	0
P	(iii) 發展局助理秘書長陳慶於 2015 年 11 月 6 日及 2016 年 1 月 27 日的證人陳述書;	P
Q R	(iv)水務署高級工程師張業駒於 2015 年 11 月 11 日的證人陳述書;及	Q R
S	(v) 一篇於 2015 年 7 月 15 日就科技大學擴建時發現焊料合鉛 的報導,見附件二。	S
T	特別就林正文於 2016 年 1 月 27 日的證人陳述書內容,雖然我	T
U	對於當中提及的外國例子沒有認知,但是當中提及香港持牌水喉 -5-	U
V	Transcript by DTI Corporation Asia, Limited	v

A	食水含鉛	出超標調查委員會	2016年2月19日	A
В				В
C		匠的職責、水喉工人的工作及 情況,我是同意的。	專工專責等事項,如實反映業界的	C
D	(-)	一般大型住宅樓宇進行水喉工	程的程序	D
E	1.1	水喉工程設計階段		E
F	6.		而言,發展商會指示公司內的專業 條款及法例要求為發展項目進行設	F
G			專業團隊中的屋宇裝備工程師會根 計劃」(plumbing proposal),	G
Н		所有內部供水設備(包括防水	線圖,以標示水喉的路線、直徑及箱、減壓缸、水錶房),以及相關	Н
I		的 超 但 寺。 田 於 口 有 顧 问 團 隊 参 與 大 型 住 宅 樓 宇 發 展 項 目 「	的參與,持牌水喉匠一般都無機會 水管工程計劃」的準備工作。	I
J	7.	_ ,	申請人(通常為發展商或其顧問團 各 WWO542(申請供水/要求水務監	J
K			」供水務署審批,水務監督會根據 施規例》、《香港水務標準規格》	K
L		~ · · · · · · · · · · · · · · · · · · ·	之水務署通告》的相關規定審核「水 的設計及擬使用之水喉物料等,以	L
M			「水管工程計劃」的批准信上均會	M
N	1.2	水喉工程建造及安裝階段		N
O	(i)	水喉分判商		0
P	8.		為例,房屋署會要求總承建商就一 必須在房屋署的工程承辦商名冊內	P
Q		, , , , , , , , , , , , , , , , , , ,	中包括屋宇設備工程的風(冷氣)、 商(但不包括水泵系統分判商)並	Q
R		未有同樣的安排。據我所知, 資歷亦沒有特定要求。	房屋署就其合約工程的水喉分判商	R
S	9.	_ , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	工程後,會根據水喉工程之規模安	S
T		術困難及管理工作。水喉分判	行與水喉工程有關的協調、解決技 商亦會根據已批核之圖則準備施工	T
U		圖(Shop Drawing)。		U
T 7	Transcrir	- 6 - ot by DTI Corporation Asia Limited		T 7

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就水喉工程所使用之物料,其實行內一般並不會使用不符合規格/

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未獲批准之水喉配件。這是因為如要在其後進行糾正工作將會十 分繁複,所牽涉的費用亦可能十分龐大。

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水喉工程所涉及的人手及資歷 (iv)

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以我公司現正進行的西九龍戲曲中心為例,該項目之水喉及消防 15. 工程合約總額約為港幣五千多萬,除了本人擔任持牌水喉匠一職 外,我公司派駐該地盤的管理人員有項目經理一名、項目工程師 一名及助理工程師和管工各兩名。該項目預計所需之水喉工人人 手約為四千六百工日;以項目合約期為一千零七十天計算,減去 約五百天作準備工作,當中約有五百七十天需要水喉工人進行工 程,即預計平均每天約需8至9名水喉工人,但實際水喉工人需 求會隨工程進度配合增減,但預算之總工數基本不變,這亦是水

G

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喉公司投標估值時的基本預算。另外水喉及消防工程均有長駐的 管工,協助駐該地盤的管理人員進行準備工作。

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16. 另一例子為一座位於中環的單幢式甲級寫字樓,水喉及排水工程 合約總額約為港幣一千多萬。除了本人擔任持牌水喉匠一職外, 我公司委派負責該地盤的管理人員包括項目經理、項目工程師及 助理工程師各一名。而該項目預計所需之水喉工人人手約為二千 二百工日;以項目合約期為七百天計算,減去約一百八十天為準 備工作,當中約有五百天需要水喉工人進行工程,即預計平均每 天約有 4 至 5 名水喉工人於該項目工作,但實際情況亦與西九項 地的進度,並於有需要時通知管工到工地協助準備工作,該管工會於

L

目雷同,水喉工人需求會隨工程推度配合增減。管理人員每天監察工

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水喉工程安裝期間長駐工地管理水喉工人。

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17. 派駐地盤的工程管理人員的資歷一般視平工程項目之規模及複雜 性,而一般工程項目亦會於合約上指定其資歷要求。一般而言, 項目經理會有多於五年之相關經驗,項目工程師則有大約五年經 驗,而助理工程師則可能是剛畢業的學生。前線管工通常經驗則 比較豐富,會具多於十年之工作經驗;而部份行內的管工都已備 有持牌水喉匠或水喉大工的資格。

Q

18. 然而,上述兩個例子均未包括寫字樓之支援工作(例如人事、物 料採購及提交文件等)所需之人手。而水喉工程所需物料的採購 工作,尤其喉管物料,通常會由水喉分判商進行。倘若水喉分判 商再將水喉工程分判,分判的部份子見乎雙方合約,但一般都只 會要求三判淨包人工或連雜項,當中的雜項是指一般都是很難量

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化的消耗品,例如焊料。 U

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19. 事實上,住宅樓宇內水喉及其配件的安裝非常簡單,幾乎所有工程合約均要求為典型住宅單位內部喉管做樣辦房,樣辦房經各監管人員驗收合格後,工人便可根據樣辦房式樣開大料和施工。最重要的步驟反而是事前的準備工作,例如水喉工程分判商須根據合約文件預備施工圖紙和物料清單經總承建商呈交給顧問、建築師和業主等的代表審批。分判商再按照已審批的施工圖紙和材料清單訂購符合規格/已獲批准之水喉及其配件、安排物料適時和適量地運送至地盤、按照施工圖則在適當位置預留穿牆孔和安排適當人手進行工程等等。

水喉工程所需之物料及配件會因應工程進度分批運送地盤,水喉 分判商的管理人員會預早通知總承建商到料的時間,約同總承建 商和建築師委派駐工地的屋宇設備工程人員進行驗收工作,利用 吊運工具或物料升降機等將水喉物料及配件儲存於特定位置或工 場。一般水喉工程分判商均會聘用有豐富經驗的管工負責工地的 安裝安排。如果類似房署的大型住宅工程,由於不包括水泵及機 電安裝部份,相對私人發展商的項目就較簡單。管工除會聘用水 喉工人外,亦會聘用小量雜工協助處理非技術性的工作,將單一 非技術性的工作,由指定的工人進行,簡單的事天天做,任何工 人都會很快成為熟練工人。由於房署的住宅屬於典型工程,管工 一般會考慮將部份工序於工場內以流水作業型式完成,以減輕熟 練水喉工人的工作。工場內的流水作業包括由半熟練水喉工人負 責使用喉管切割機按樣辦房式樣開大料,再由雜工清理喉管和配 件的接駁口,如有部份較短的喉管焊接工作能於工場內進行,管 工亦會安排熟練工人在工場內完成。雜工再將半完成的喉管按指 示和其他所需物料按各住宅類型綑扎,再經吊運工具運送至安裝 地點。

若事前的準備工作都做得妥當,水喉工人在各住宅樓層的裝嵌工作就相對比較簡單,半熟練水喉工人或雜工會將已裁好的大料和半完成的喉管分派到安裝地點。而安裝水喉時,一般亦會採用流水作業式操作,安裝供水喉和排水喉會由不同工人組合進行,以安裝供水喉為例,會先由指定工人組合負責安裝喉碼,這部份工作需使用手電鑽、手鎚、鉗和電線拖板等。水喉工人會先利用錯射機射出的平水線按距離定好喉碼的位置,然後鑽石屎,裝好一邊喉碼後再由幫工將已裁好的喉管掛上喉碼並收口,最後便由熟練水喉技工進行喉管焊接工作。銅喉的連接方式可分為壓合式、內含錫圈焊接式或無錫圈焊接式。過去的連接方式主要是壓合式或內含錫圈焊接式,但現時一般都會使用無錫圈焊接式接駁銅喉

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(這演變可見下文第 35 及 36 段),當中牽涉的工具和材料包括 手提石油氣火槍、畫筆、抹布、鏍絲批、鉗等輕型工具和錫線及 焊膏。始終,住宅單位內的水喉都很輕,而且工序都是安裝喉碼、 放喉及焊接。基本上,一個熟練水喉工人,一個人都可以處理一 個單位內的所有供排水設施及潔具的安裝。至於外牆的企身喉或 水泵的安裝,由於比較重,則需要兩個水喉工人同時進行。其餘 的管道內主喉管或外牆的主喉管或水泵設備等的安裝,由於比較 重,則按個別需要可能由兩個或多個水喉工人同時進行。

- 22. 上世紀九十年代前銅喉的連接方式主要為壓合式和內含錫圈焊接式。雖然兩者價錢分別不大,但由於當時不多水喉工人懂得以燒焊方式接駁內含錫圈的配件,因此當時銅喉多數使用壓合式配件連接銅喉。1987年,我做置富花園更換喉管工程時仍是使用壓合式配件連接銅喉。
- 23. 直至九十年代,市場開始較為開放並提供較多種類的焊接物料及配件,並有供應商引人無錫圈的喉管配件及焊膏。根據我的記憶,1994年,我做深圳富臨酒店工程時,便開始使用無錫圈的喉管配件連接銅喉。相較於利用壓合式或內含錫圈的配件接駁喉管,使用無錫圈的喉管配件並以錫焊接駁,無錫圈的喉管配件價錢約便宜5至7倍。再加上香港於八十年代末開始,由職業訓練局開辦水喉全科技工課程,並就水喉工程提供有系統的培訓。故此,業界開始對燒焊方式接駁喉管的工藝有所掌握,燒焊接駁方法才慢慢變得普及。
- (v) 水喉工程的巡查
- 24. 由於樓宇能否得到供水是取得人伙紙的其中一個重要因素,地盤內各相關的持份者均在水喉工程施工期間都有高度參與。因此,他們都會委派合適的駐地盤工作人員對各項工程(包括水喉工程)作出相應的監管,例如總承建商須就完成的工序呈交表格要求發展商代表視察及驗收(Request for Inspection)。另外,各持份者亦會透過定期召開會議互相緊密協調,商討工程進度,解決施工或技術困難。例如總承建商、認可人士及發展商代表會召開雙週會議;總承建商及分判商會召開週會等等。
- 25. 當水喉工程部份或全部完成時,持牌水喉匠會要求水務署就完成 之工程進行視察,檢視其水喉路線及物料等。雖然水務署會作出 巡查,但是工程的監管工作主要應該由駐地盤之團隊進行。這是 由於不同物料的接駁方法,應跟供應商提供的 Catalogue 去做。

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例如鋸喉後,如喉內身出現披口,便要立刻跟進刮平,否則接駁之後根本看不見喉內嚨的披鋒,亦無法再跟進。又例如推插式Ductile Iron Pipe 的接駁指明要用非油性的潤滑劑,如不是由駐地盤之團隊監管工作質量,接駁之後亦不會知道用了哪種潤清劑。同一道理,在水務署作出巡查時,是不可能單憑目測知道已接駁喉管上的焊料是否合鉛。

1.3 水喉系統之保養、更改、修理或移動

26. 根據法例,持牌水喉匠亦負責進行內部供水系統或消防供水系統的保養、更改、修理或移動。就水喉之維修工作,據我所知,房屋署會以定期合約型式聘請維修承建商,作定期檢查、清洗水缸及緊急維修等工作。而一般較大型之屋苑會亦有其指定之水喉承建商,於需要時進行緊急維修工作。有關維修承建商都會聘請持牌水喉匠及相關熟練技工為僱員。至於其他小型住宅樓宇,倘若需要就內部供水系統或消防供水系統進行維修或保養,一般會聘請市面上的水電公司進行,而這類公司通常亦聘有持牌水喉匠及相關熟練技工為僱員。

(二) 一般公共房屋工程所需的人手及時間

27. 雖然我近年未有參與公共房屋的發展項目,但是其建築工程的一般安排和水喉工程的技術與私人發展項目大同小異。根據我的認知,一般公共房屋的建築期為一座 850 - 1000 天,當中涉及的工序有地基、樓宇結構(釘板、紮鐵、落石屎)、屋宇裝備(風、火、水、電)和室內裝修等。以前公共房屋的樓面一般是 8 - 10 天一個 Cycle,自部份採用預製組件後,更縮短至 5 - 7 天一個 Cycle。至於人手方面,我未能提供其他工序所涉及的人手數目,但一般而盲,每個工種在整個建築期內都有不同的人手高峰期。

- 28. 就水喉工程方面,公共房屋項目通常會待完成約一半樓層的模板 拆卸工序後才由水喉工人開始安裝上水喉。在此之前,水喉工序 多為於建築組件內預留喉管穿越位置,並只需要少數工人。
- 29. 據我所知,公共房屋項目的施工方法與其他發展項目也有不相同的地方;由於其建築採用預製組件,並不會搭建外牆棚架,外牆部份的水喉工程需待大樓工程完結後才以吊船進行。這與私人住宅樓宇中水喉工程由下而上的施工方式有很大分別。項目後期亦需進行安裝潔具等工作,需要大量人手。公共房屋水喉工程的施

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搪層鍍鋅鐵管或銅管。而因為銅管較為便宜,所以私人樓字大多 採用銅管。但是銅管受碰撞時較易變形及容易被鋸走變賣,所以 較少於戶外及容易觸及的位置使用(例如灌溉系統及走廊之水錶

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後,我及我公司所有的水喉工人均是使用英國出產的卷裝焊料及

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焊膏,並拿著整卷焊料在任何環境/位置進行燒焊工序,包括室 内、室外、外牆或天花的喉管。而且,根據我聘請的學徒的親身 經驗,培訓機構教導學員亦是手持整卷焊料進行焊接訓練;第二, 拿著整卷焊料進行燒焊工序可確保工人的手跟熱點保持一個特定 的安全距離, 而卷裝焊料包裝為不傳熱之塑膠物料, 除不傳熱外, 亦有手感。反之,若焊料剪成一條條後則太輕太幼,沒有手感, 而且焊料會愈燒愈短,每一次燒的時候距離都不一樣,而手持之 部份最終會變成損耗的材料,造成浪費。第三,上述是我的親身 經驗和認知,然而我並不排除有水喉工人習慣於天花或外牆燒焊 會先將焊料剪成一條條,但其實一個建築工程,亦有不少喉管位 於低處或室內的,無需每一個位置的燒焊都必須先將焊料剪成一 條條。倘若工人於低處或室內進行燒焊時都使用卷裝的焊料,當 地盤管工於巡察時見到綠色卷裝的焊料,一看便會知道是不合鉛

内部供水系統收集水樣本進行化驗 3.4

的焊料。

一直以來,水務監督都要求在新敷設的地下食水管的接駁位置, 39. 收集水樣本進行分析,以確保政府供水系統不會受其污染。因此 水務監督只會在水樣本測試結果符合接受標準的情況下才提供供 水。我對於各種水質測試參數沒有深入研究,只知道須按水務監 督要求對水樣本作出測試,測試參數包括大腸桿菌等,以確保市 民飲用後不會做成身體不適。而水務署通函第 2/2012 號所指對 内部供水系統其他部份所進行的水樣本收集和分析,其測試結果 符合接受標準並不是提供供水的前設。直至水務署發出通函第 5/2015 號,才首次列明水務監督只會於所有水樣本測試結果(包 括於地下食水管的接駁位置及內部食水供水系統所抽取的水樣 本)符合接受標準的情況下,才會提供供水。

(四) 只由持牌水喉匠親自進行水喉工程的可能性

- 40. 水務署通函第 2/90 號已指出,持牌水喉匠可僱請其他人協助工 作,而該等工人毋須為持牌水喉匠,但持牌水喉匠須承擔監督的 責任。其實,由工人協助持牌水喉匠進行水務工程的安排,自本 人人行至今未曾改變。
- 41. 理論上,持牌水喉匠能親自施工,這是因為三年的水喉全科技工 證書 (Craft Certificate in Plumbing and Pipefitting) 已包括水喉實習課程,而在修讀 39 小時的香港水務設施課程證 書(Certificate in Plumbing Services (HongKong))

水喉匠牌照所需持有的學歷資格。

45. 現時要成為持牌水喉匠需要持有(i)職業訓練局於 1987 年後頒 發的水喉全科技工證書或相等資格;及(ii)職業訓練局頒發的香 港水務設施課程證書或相等資格。

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水喉全科技工證書課程是一個三年制的課程,主要提供有關水喉 46. 全科之工藝理論及實習訓練。水務監督亦接受以下的資歷為相等

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A	食水含金	沿超標調查委員會	2016年2月19日	A
В				В
C		資格:		C
D			I 發的水喉工藝證書 (Plumbing ssued by the City and Guilds	D
E				E
F		(ii)是英國特許水務學會 - ⁵ 會)會員。	香港分會(前身是英國水務工程學	F
G H	47.		固 39 小時的課程,主要教授有關 讀者須持有水喉全科技工證書相等 實務工作經驗。	G H
11	(六)	對現行制度的意見及建議改進	空間	н
I	48.			I
J	40.		內的水喉工程已有多個持份者參與 能是完美的,當然亦會有相當的改	J
K L			從事水喉工程的承辦商須註冊,確 承辦商聘用合資格的人員進行。	K L
M		(ii)與時並進,提高新申請水	喉匠牌照所需持有的資格。	M
N	49.	牌照所認可的水務課程,才有	例如我們必需要增加為申請水喉匠機會提高持牌水喉匠的資格。英國	N
0		香港持牌水務專業學會、香港	K喉潔具業商會、香港給排水學會、 水務專業協會(簡稱「五會」)於 關課程。最終香港專業教育學院	o
P			相等於資歷架構水平 4 級的文憑課 技教育學院 (THEi)於 2015 年亦	P
Q		開辦了一個相等於資歷架構水	平 5 級的水務工程專業文憑課程可銜接升讀屋字設備工程學士的第	Q
R			214文憑課程預計畢業人數只有約	R
S	(七)	對一篇報導關於科技大學焊料	含鉛事件的看法	S
T	50.		15 日就科技大學擴建見發現焊工 前科技大學擴建工程,校方按自行	Т
U		標準檢驗出水質含鉛量超標,	最後是校方自行把內牆所有組裝焊	U
V	Transcrij	- 16 - ot by DTI Corporation Asia, Limited		v

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	接的水管全部撤換,全行知曉",我認為這有誤為於這期間,我剛巧負責為科技大學擴建工程舖設地		C
D	知道這件事情。而且,有關資深持牌水喉判頭所說 97後向祖國靠攏,棄用外國產品,便以錫焊為主	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D
E	不相符。因為採用銀焊或錫焊,根本不是取決於國 其合適性,即銀焊用於大口徑喉管而錫焊用於小口	1徑喉管。至於	E
${f F}$	錫焊含鉛或不含鉛,這是取決採購的方法,例如 50 力錫條,便是含鉛的錫條。	,若訂購英國的	F
G	51. 謹此確認,盡本人所知、所得資料和所信,這份區 內容全屬真確。	事家證人報告的	G
Н	日期:二零一六年一月二十九日		Н
I	簡國樑		Ι
J			J
K	問:簡先生,你聽過我閱讀讀咗你嘅專家證人報告一次 頁上面有個簽名,嗰個係咪你簽名嚟?	,咁喺 18994	K
L	答:係。		L
M	問:係。簡先生,你願唔願意採納我剛才讀過嘅呢一份報告	告成為你嘅主要	M
N	證供?		N
0	答:願意嘅。		o
P	問:有有任何其他嘢你想澄清或者更正?		P
1	答:有需要。		r
Q	問:好,唔該晒。跟住會有其他大律師去問你問題。		Q
R			R
S	<u>石先生盤問</u>		S
T	問:簡先生,早晨,就我有啲問題係想請教下你嘅。就麻好履歷,就係 18995 頁,中間嗰度就關於 employmen	t history 嗰	T
U	度,即係關於你嘅就職嘅經驗。咁就你一開始就係 Apprenticeship。	學徒,係咪?	U
V	- 17 - Transcript by DTI Corporation Asia, Limited		V

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	答:係。		C
D	問:你跟住就有好多唔同嘅職位,做過技工咁樣,即係可以 出身嘅,可唔可以咁講?	从話 係即係實戰	D
E	答:可以咁講。		E
F	問:呢啲叫紅褲仔出身,係咪呢啲叫做?		F
G	答:可以咁叫。		G
Н	問:係,係。就由低做到高可以叫做,可唔可以咁講?		Н
I	答:可以咁講。		I
J	問:係。即係我哋有陣時聽過喺呢個聆訊裏面,就好多唔同做水喉嘅職位嘅名,睇番你就係持牌水喉匠,就大工嘅 曾經試過攞到,即係我哋而家嗰啲叫大工、中工咁樣嘅	死職位,你有 有	J
K	答:其實咁樣講,因為我喺 1986 年已經係攞到呢個		K
L	問:LB。		L
M	答:持牌水喉匠。		M
N	問:係。		N
0	答:咁當初係呢個摩利臣Morrison Hill 係去制訂- plumber,或者係嗰啲咁嘅 cert 嚟講,我哋持牌水嘅 考嘅。		0
P	問:因為已經包晒,即係高級嘅直情包埋可以,係嘞。		P
Q	答:我哋去掇嘅,即係當時我係有呢個制度嘅時候,我係捌	·咗嗰個 + rade	Q
R	plumber嘅牌返嚟,因為持牌水喉匠係可以直接搬嘅		R
S	問:得,我明,得。我亦都聽過,就好多時候喺呢個地盤、 有啲叫做「打理」,有冇聽過呢一種叫法?	工地嗰度,就	S
T	答:有。		T
U	問:因為		U
v	- 18 - Transcript by DTI Corporation Asia, Limited		V

A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	答:我哋行內通常叫「執位」。	C
D	問:就無論用邊一種嘅叫法,即係呢一個崗位,你之前都有曾經擔當過嘅 應該?	D
E	答:有。	E
F	問:係相對於你個 employment history 裏面嘅邊一個 description? 因為你用英文寫,所以我哋想知道。	F
G	答:Site Foreman。	G
Н	問:Site Foreman?	Н
I	答:係。	I
J	問:Okay。咁就呢個就譬如話整個整條邨咁就有個即係總嘅負責關於水喉工程嘅,嗰個叫打理,或者你叫執位,咁你做過。咁當然就一個	J
K	大嘅地盤,可能佢有唔同座數,咁每一座可能佢會有自己嘅一個人去 負責嘅,咁嗰啲崗位你都做過嘅,係咪?	K
L	答:有。	L
M	問:有,咁就得。我就可以一陣間會問你一啲關於即係工地實際發生嘅事情。你嘅公司而家就叫做美利華亞洲有限公司?	M
N	答:係。	N
0	問:咁亦都係嘞,我想套番落去我哋曾經聽過呢個聆訊裏面出現過嘅一啲	О
P	公司,佢哋扮演嘅角色。好多時候我哋知道就房委會,我哋講番即係公營房屋(公屋),房委員就批咗個合約出去就畀個總承建商,總承	P
Q	建商當然就會判啲嘢落去畀分判商,咁水喉工程就會畀咗一啲叫做plumbing subcontractor(水喉分判商),咁你嘅公司係咪就係即係水喉分判商呢個角色?	Q
R	答:係。	R
S	問:係。我哋都會聽過行內有好多唔同第二啲嘅分判商,即係唔好介意,	S
T	當然大家可能覺得話,我同佢唔同嘅咩嘢盛,但係即係其實你有方聽過,譬如話好多時候我哋聽見過 main contractor,我哋都聽過佢	T
U	哋會判過畀譬如話何標記或者係金日,或者諸如此類。即係你公司	U
V	- 19 - Transcript by DTI Corporation Asia, Limited	v

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	答:係,咁嗰啲就標準嘅。		C
D	問:係。但係亦都可能係政府已經判咗畀個主承建商做晒原 建商同你有個合約關係,就叫你,「唔該你負責水喉叭		D
E	答:係,嗰啲可以拆到好細嘅,究竟包乜我哋唔係唔清楚。	9	E
F	問:得,得,我明,得,得,好。我就想你睇一睇你嘅 18	978 頁。	F
G	答:18978?		\mathbf{G}
Н	問:係,第6段。你裏面就講到即係一般大型屋字嘅即係 係亦都係好籠統咁樣去講法?	發展項目,呢個	Н
I	答:係。		I
J	問:你就講到嗰個一般嘅做法,就係個專業團隊裏面就有師,呢個就係 building services engineer,對		J
K	答:係。		K
L	問:咁就會準備咗 plumbing proposal 諸如此類。你就		L
M	一般就有機會參與大型屋宇樓宇住宅樓宇發展項目 計劃嘅準備工作嘅,你就咁講。	出兆他小官工任	M
N	答:係。		N
o	問:呢個你覺得喺即係從事作為一個持牌水喉匠或者叫做一 水喉從業員,會唔會對你做嘅工作會有啲窒礙,呢一個		0
P	嘅做法?		P
Q	答:唔會		Q
R	問:我可以 specific,即係特別少少咁講,就係屋字裝係好多辦嘢,佢哋未必真係會讀過,或者係進修過關於嘢,同唔同意?		R
S	答:我唔係好同意嘅。		S
T	問:唔係好同意,係。		T
U	答:頭先喺我嘅證供裏面都提到,其實香港呢間登記咗嘅持	 	U
V	- 21 - Transcript by DTI Corporation Asia, Limited		\mathbf{v}

問:得,我明,不如咁,我哋唔好糾纏於究竟你有有 LP 呢一個銜頭。你講嘅意思--其實我睇下我可唔可以即係準備地反映到你所講嘅嘢,就係其實由 building services engineer 因公司去負責做一啲前期嘅嘢,而到後來真係簽名嗰個 LP,佢未必有機會參與呢個前期工作,其實你未必覺得係一個好大嘅問題。因為 building services engineer 個團隊裏面,自然係會--應該會有啲識嘢嘅人喺裏面策劃嘅,可能佢哋都包含咗一啲有 LP 資格嘅人,都係識嘢,同唔同意?

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A	食水含鉛超標調查委員會 2016年2月1	9 日 A
В		В
C	答:可以咁講。	C
D	問:即係唔會存在咗一啲所謂外行領導內行嘅事情嘅,你 BSE 裏面 pl 得做水喉嘅嘢,自然佢要確保做嘢嘅人係識嘢嘅?	Lan D
E	答:或者咁樣講,一個屋字裝備工程師嚟講,佢係咪擁有一個 LP 資格 係一個最重要嘅。	各唔 E
F	問:我明。	F
G	答:佢哋喺個 design 嚟講,佢係主要做一啲係計數,呢座樓有幾大,	
Н	要用水量係幾多,咁佢去設計個喉管嘅大細。而持牌水喉匠喺作為個監工嘅角色嚟講,佢最主要就係要確保喺整單工程裏面,嗰個工嘅進行係根據香港水務條例、水務規例,同埋呢個係水務標準去做	· 二程 故。
I	問:明白。	I
J	答:大家所負責嘅範疇完全唔一樣。	J
K	問:明白,係,我正想就係問。即係所以其實你之前前期嘅嘢,你識唱	F 語
L	LP 要學嘅嘢,其實未必有關係?	L
M	答:未必有關係。	M
N	問:所以其實你第6段最屘嗰兩行,其實唔係一個含貶義嘅一個說話嚟 即係話「一般沒有機會參與水喉」	旣, N
0	答:我係講係大型嘅住宅項目,就話嗰個項目嗰個持牌水喉匠係唔會有 會參與,因為呢個持牌水喉匠喺幾時出現呢?就話我喺口供有	0
P	嘅,就話當個 plumbing proposal 批咗出嚟之後,就嗰個持牌 喉匠就係填咗嗰 WWO46 先成為呢個項目嘅水喉匠。	
Q	問:明白,明白。	Q
R	答:根本喺前期嚟講,佢可能就未出現喺呢個地盤。	R
S	問:明白,明白。即係話根本文件上、制度上需要有 LP 呢個名叫做浮面就係開始要入 WWO46,嗰陣時開始就要?	fi, s
T	答:但係係咪全部都係咁呢,就唔係嘅。	T
U	問:我明。	U
V	- 23 - Transcript by DTI Corporation Asia, Limited	V

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答:因為房署嚟講,就好特別嘅,咁個水喉分包商就唔需要係裝水泵同埋 嗰啲機電嘅工程嘅,你其實就真係裝條水管上去嘅啫,總之就話駁到 出嚟唔漏水,就真係相對外面嘅工程係簡單好多。

問:係。因為純粹就係我哋叫 mechanical, 呢啲硬件整咗嘅嘢。

 \mathbf{U} U

S

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部分,就係變成一個咁狹窄嘅範疇?

 \mathbf{S}

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答:暫時我所知,勝到係咁囉。 T

問:係,好。 \mathbf{U}

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答:嗄。

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В

問:所以其實即係理論上,係咪即係 LP 呢樣嘢,就唔係話即係同--應該 咁講,佢所負嘅責任,同實際上好多 LP 運作嘅模式,其實中間係有 個好大嘅落差個喎,係咪? LP 理論上,佢要真係有個主動性去了解 係咪符合水務條例,佢先可以理論上應該簽個名?

D

 \mathbf{E}

答:我想相信大部分嘅 LP 能夠履行到自己嘅工作嘅。

F

問:但係如果你話唔係喎,有好多人--有啲人就係做老闆,但係佢自己話到事,梗係得。但係好多人係打份工嘅,礙於老闆畀佢睇乜就睇乜,咁呢樣嘢佢就未必真係能夠符合到 LP 實際應該做嘅嘢個噃,如果咁樣嘅情況之下?

н

 \mathbf{G}

答:我認如果喺一啲普遍我哋所見嘅工程嚟講,其實 LP 嚟講,係真係做 到佢自己嘅責任嘅。因為點解呢,就話佢作為一個 LP,佢個牌嚟講 係一個搵食嘅資源嚟,佢點會唔珍惜自己嘅搵食資源。即係我亦都曾 經試過擔當一啲工程嘅 LP 嘅,喺--即係我曾經係受僱過,我就會好

J

K

I

經試過擔當一啲工程嘅 LP 嘅, 喺--即係我曾經係受僱過, 我就會好堅持就話,當我發現啲嘢係唔 fulfil 香港嘅水務條例嘅時間, 我係必須要佢更改, 佢唔更改, 我幾大都唔簽名嘅, 你最多咪炒我, 我有本事, 我唔憂搵唔到嘢做, 只不過你能唔能夠堅持你嘅立場咋嘛。

L

問:即係你嘅意思,就係話就算你係打份工,可能個老細對你 impose,或者佢對你加諸一啲--權宜嘅做法,就係「唉,快快脆脆喇,簽個名喇。」即係如果你自己係叫做真係有尊嚴,或者係真係珍惜自己呢個LP 呢一個名堂、呢一個資歷嘅話,就靠你自己腰骨硬,就話「喂,我向你提出話應該做多 A、B、C、D、E 個噃,你堅持要我簽一啲我簽唔落手嘅嘢,我就至多就係唔做嘅啫。」即係會唔會係咁樣講呢,應該係即係?

N

0

 \mathbf{M}

答:係呀,你睇番我個資歷嚟講,其實我喺 1986 年攞到 LP 之後嚟講, 我都受僱過喺明威工程公司,同埋呢個係余康記(水務工程)公司。 當時嚟講,就亦都老闆要我去做一啲係 LP 嘅工作嘅。其實我當時, 我係堅持就話每樣嘢都要跟正嚟去做,係你自己個人嘅行為嚟喋嘛, P

Q

我係堅持就話每樣嘢都要跟正嚟去做,係你自己個人嘅行為嚟架嘛, 呢啲係。 問:至於即係 LP,即係最終如果佢即係被委屈,簽咗一啲唔應該簽嘅嘢,

S

R

問:全於即係 LP,即係最終如果但即係被委屈,簽咗一啲唔應該簽嘅嘢,或者係監督唔足夠,最終嗰個 sanction,我哋叫做最終嘅後果,就係水務署作為 LP 最終即係控制,或者係去監管 LP 嘅部門,就可以扣分或者係除牌,咁呢個就係即係或者制度上,就係咁樣去做。個別

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LP 佢堅唔堅持,就呢個係個別 LP 嘅事?

 \mathbf{C}

В

答:個人行為,我覺得係。

D

問:我想你睇一睇第 18982 頁,第 19 段。你嗰度就講到,就係分判商--第6段--唔係,第五行落嚟,第19段,「分判商再按照已審批嘅施 工圖紙和材料清單訂購符合規格/已獲批准之水喉及其配件」, 呢度

 \mathbf{E}

所指嘅分判商就係水喉分判商,對嘛?

 \mathbf{F}

答:係。

 \mathbf{G}

問:已審批嘅施工圖紙和材料清單,我哋都知道就係一般嘅房委--即係房 署--Sorry,即係呢個公屋佢嘅房委--佢作為個 employer,咁佢就 判咗畀 main contractor,好多時候 main contractor 佢哋有 啲乜嘢嘅施工嘅材料,佢都要遞交個辦去畀個 employer,房委去審 批嘅,就係呢個步驟。就下面,譬如話水喉分判商,佢哋可能會將一 啲部件就呈交畀主承建商,再交畀房協--就去畀 Housing Authority 佢去審批,呢個--你係指緊呢個步驟,係咪審批?

I

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答:係。

K

J

問:以你嘅理解就係呢,...

L

答:唔係, 喺呢度--你如果針對喺第五行呢度講呢, 就話其實之前已經做 晒,當我哋已經係做晒審批嘅程序,業主已經係接受咗我哋使用某一 啲材料嘅時間,我哋就會馬上--如果以我自己個人嚟講,我就會同我 **哋嘅供應商就簽訂一啲合約**,就話我成個地盤要用幾多物料,但係我 哋會係 partially delivery,係分階段係配合水喉工程同埋地盤 進度, 送去地盤嘅, 咁呢個係講已經係之後喫嘞。

 \mathbf{M}

 \mathbf{N}

問:我明,我明。即係--我明。我想同你即係攞番個背景,就係你所指嘅 審批,跟住按照已審批嘅材料清單,就係經歷晒呢一啲步驟,上面老 細,即係 HA 批咗落嚟話「啊,呢個清單我批晒你嘞,咁呀嗰啲 sample approval form...」,我哋成日見到嘅,「...批晒嘞。」跟住就 會即係照單咁樣去執,呢個就係一般嘅做法。

 \mathbf{o}

P

Q

R

我哋就知道,就係好多嘅部件就係一定要呈交去畀 HA 嗰方面係去 審批,浴缸、水喉頭,一般好多嘅部件都係--即係根據合約嘅要求係 一定要攞上去審批嘅;有啲就合約未必一定要求要審批,但係好多時 候啲水喉分判商都會將一啲合約未必要求審批嘅嘢,呈交去審批,可 能攞個安心,或者係即係全面啲,攞埋喇,而焊料呢樣嘢,就係屬於

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答: 高鐵 823 合約, 我哋每口螺絲我哋都審批嘅, 只不過係你一個行為, 你係做緊乜嘢咋嘛,就唔係話個合約唔使你審批,係而係你冇去呈號 \mathbf{T}

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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	主席:Subcontract 我知道佢哋用中文寫,好多時都。即係我想知道你個 main contract 就淨係得一個英文版本嘅啫,係咪?因為你唔	C
D	知	D
E	何先生:嗰個我要 check check。	E
F	主席:係,因為	F
G	何先生:但係話即係有一個而家講嗰個 site agent 嗰個需要一定 係需要	G
Н	黎先生:即係係咪啲 specification 都係英文架喇,係咪?	Н
I	主席: 有中文噪嘛, 係咪?	I
1	黎先生: 有中文嘅?	1
J	何先生:我會 check — check。	J
K	主席:係。	K
L	何先生:我可以稍後補番。	L
M	石先生:係,但係你 as between即係需要有人識英文呢個要求,就未必係喺個 subcontract 嗰度寫出嚟,係咪?	M
N	主席:當然,係,當然。不過個問題就係好多時個 subcontract 裏面,	N
0	就寫到明你一定要跟足個 main contract 裏面嗰啲嘢做,係咪?如 果冇人你唔識英文嘅,你點知個 main contract 講乜啫,係咪?	O
P	r · · · · · · · · · · · · · · · · · · ·	P
Q		Q
R	問:除非行內就係大家覺得呢啲嘢手板眼見工夫,份份都係咁嘅啫,使乜 睇,有有呢個心態嘅呢,其實?	R
S	答:呢個會有嘅。其實嚟講,就話譬如就以我哋為例咁,就話譬如我哋做 開某間顧問工程師,做開佢哋因為顧問工程師嚟講,基本都係千篇	S
T	一律,都係執落去嘅啫,	Т
U	問:係囉,就係。	U
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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	能性嘅存在呢?係囉,你笑笑口	C
D	答:我唔敢講。	D
E		E
F	問:即係舉個例,咁你要知道有啲咩嘢叫做英國譬如話你要熟悉水務條例,你就要識得英國標準係乜嘢,你真係話如果真係揸正嚟做,我要查下英國標準,英國標準佢賣本嘢畀你千幾鈫,佢唔會譯埋中文畀你。	F
G	答:或者咁樣講,我哋作為一個分包商嚟講,我哋唔係去做一個	G
Н	manufacturer,即係一個製造商,其實我哋唔會深究個 BSEM 或者 係 BS 係啲乜嘢嘢。其實我哋買一件嘢嚟講,我哋係只需要話畀個分	Н
I	嗰個供應商聽,「我希望你 quote 一個價畀我,我要買 BS 乜嘢嘅 物料,你嘅供應係幾錢呢?」	I
J	問:得,明白,得。	J
K	答: 但畀完我報價單畀我之後嚟講,我就會跟住問佢,「你點證明你啲嘢 啱 BS 呢?」	K
L	問:佢有張 cert 畀你,有個實驗室文件,嗄,嗄。	L
M	答:包括即係佢會有個總之佢畀足夠嘅文件。	M
N	問:佢個 origin 嗰張文件畀你,就係話「我符合」,咁就信架嘞?	N
o	答:係嘞。	O
P	問:係,得,明白。介唔介意話畀我聽,貴公司用邊一個物料供應商,如 果係訂焊料?	P
Q	答:我哋而家現時嚟講係用緊雋景嘅。	Q
R	問:用緊雋景嘅。咁貴公司如果要用雋景要攞焊料嘅時候,譬如話unleaded solder,即係我你貴公司係用"FRY"呢卷嘢,即係實	R
S	際上就落單點樣叫,可能你係大老細未必知道,但係如果知道,你話 畀我聽,你哋落單畀雋景,你會點叫嘅呢?叫綠色一卷	S
T	答:我哋係叫「無鉛錫線」。	Т
U	問:無鉛錫線?	\mathbf{U}
V	- 36 - Transcript by DTI Corporation Asia, Limited	T 7

Transcript by DTI Corporation Asia, Limited

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
С	答:係。		C
D	問:好。你有聽過有一隻係一條條、一卷卷,即係直條嘅	·	D
E	答:哦,我知,我知你講邊種。		E
F	問:唔係一卷卷,係一條條直條,嗰隻就一般我哋而等力」嘅。	家叫「英國 50	F
G	答:其實 50 力個「力」字嚟講,就係		G
Н	問:Lead 囉。		Н
	答:呢個嗰個即係		
Ι	問:Lead,鉛。		Ι
J	答:鉛嘅英文嚟嚟嘛。		J
K	問:係。		K
L	答:只不過啲人就習慣叫佢做「50力」,就話你聽,「嗱per cent 係鉛嚟喋。」	,呢度有 50 個	L
M	問:50 per cent 係鉛,咁又 fifty lead,50		M
N	答:其實大家都知喋。		N
0	問:係,大家都知嘅。就		o
P			P
Q	主席:大唔係,對唔住。「大家都知」條		Q
R	黎先生:邊個係「大家」?		R
S	主席:邊個係「大家」?		S
	石先生:即係		
T			T
U	主席:即係你講做水喉嗰啲人就知?		U
V	Transcript by DTI Corporation Asia, Limited		\mathbf{V}

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問: 冇聽過,okay。因為點解呢,錫條--如果淨係講錫條,你又知道, 就係一條條 50 力,又講高溫喎,高溫即係好高溫先燒得熔,我哋嘅 理解就係好高溫先燒得熔嗰隻,就係無鉛先至要高溫燒得熔,咁所以 T

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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	即係叫法,行內好多時候,		C
D	答:唔敢講。		D
E	問:你又「高溫」,又「錫條」呢		E
F	主席:都唔一定嘅,唔一定嘅,睇下你咩嘢 context 講。		F
G	石先生:相對喇。		\mathbf{G}
Н	主席:都唔一定嘅,因為我哋而家知道,當然無鉛錫條相對: 但是含鉛嘅錫條裏面,視乎含鉛量多少亦都有高溫、低		Н
I	石先生:係,對。		Ι
J	主席:所以就要講清楚啲。即係 in		J
K	石先生:明白,係。		K
L	主席:嗰個 context 如果咁樣樣講。		L
M			M
N	即係首先你有聽過乜嘢叫做「高溫錫條」先?		N
0	答:冇。		0
P	主席:咁所以如果係基本上唔需要問下一個問題。		P
Q	石先生:係,得。		Q
R			R
S	答:即係總之就係我哋公司,就係話我哋會係通常我係 料,我哋都會係擺喺個倉嗰度。其實喺舊年,即係鉛水		S
T	好多傳媒都上過嚟我哋公司,根本你通地擗,全部都 嘞,見唔到有第二樣嘢嚟喇,已經。	係呢啲嘢嚟啌	T
U	- 40 -		U
\mathbf{V}	Transcript by DTI Corporation Asia, Limited		V

嚟講,就我喺 2000 年之後。

但係點解我會呢個無鉛錫線嚟講,其實就喺 94 年嚟講,我有個 supplier 嘅 sales 就上嚟我哋公司,佢就--我識佢好多年,即係 但行街嚟嘅啫, 佢唔係水喉工人。佢就攞住呢罐松香膏同埋卷錫線就 上嚟我公司話畀我聽,「用無--即係無錫圈嘅配件,用咗呢啲嘢嚟講, 就好易做嘅。」咁示範畀我睇,揸住個曲,揸住個銅喉,因為我識佢 好多年,即係行街嚟,佢唔係水喉工人,佢好容易就係話一夠熱,一 楚可以睇到個錫嚟講,喺個配件裏面係完全有滲出嚟嘅,係封得好靚 嘅。所以由當時開始,我由 94 年開始,我就用呢隻嘢,就係話我發 現可以去慳番好多人工。

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問:呢個係深圳富臨酒店,你嘅口供講過?

答:係呀,嗰陣時就係話我當時就係買咗,就係愛嚟用呢啲咁嘅松香膏, 因為我發覺可以慳番好多人工,因為佢好容易就可以走得好靚。 但係 我真正知道用無鉛錫線, 我係 2000 年之後, 因為我請咗一啲喺 CIC 受訓出嚟嘅員工,同埋就因為當時 BS 就轉咗,我哋早期嘅銅喉嘅 BS

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licensed plumber 其實係一個商號嚟,商號唔會去做嘢,一定係

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請人。

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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	問:當年係 licensed plumber 其實可以係公司,盤古初開,好耐以前。	C
D	答:係呀。	D
E	問:但係後來就成為咗一個個人,佢而家?	E
F	答:佢係去	F
G	主席:我諗我哋唔需要	G
Н	石先生:我哋唔需要呢個,呢個其實係法律理解,不過即係你講起,我咁 講。	Н
I	主席:係呀,係呀,係呀,唔需要。	I
J		J
K	問:即係開大料其實就係一早已經係設定,跟住就攞上去,呢個我明白。	K
L	我就想同你再探討一下,你嘅 23 段。23 段,呢個就係你頭先所講,你 94 年富臨嗰個工程。亦即係話,我想將個時序搞清楚先。你就講 到有好多種焊接嘅方法,一種就係我哋叫做即係比較機械式嘅,我	L
M	咖啡做像 mechanical 嘅,即係完全唔牽涉	M
N	答:混合式嗰隻,唔燒焊嘅,嗰隻。	N
0	問:係,嗰隻就唔燒焊,嗰隻就直情擰實佢嘅,用手,係。	0
P	答:係。	P
Q	問:跟住你就講到就有一種就係內含錫圈嘅配件,你知道,就係即係你睇番 22 段嗰度,內含錫圈嘅配件,我哋就聽見有啲工人就叫呢種做「錫曲」嘅,你有冇聽過呢個叫法?	Q
R	答:有。	R
S	問:即係都係錫曲,基本上就係,係咪?	S
T	答:其實我哋喺七十年代用嘅時間嚟講,就話當時即係香港識燒走錫嘅人	Т
U	唔多。我哋當時做嗰個工序就好繁複嘅,如果我哋係要用一啲係無 錫圈嘅配件嘅話,我哋當時學叫「抹錫」。點樣抹錫呢?就係話我哋	U
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V

喺用料嘅時候就應該係已經--相關嘅持分者就應該邊個都好,喺嗰陣 時應該有一個監測,或者去...

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答:啱。

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問: ... 監管嘅。即係你嘅了解,亦都係呢,就即係總之我哋都經歷過好 - 45 -

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問:呢個就係 25 段講。不如我又單刀直入問你一個問題,焊料方面嘅要求,喺工程方面就有合約嘅規定,對嘛? Main contract,房署即係批落嚟嘅 main contract,就通常嗰啲要求就帶到落去與水喉分

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嘅,我哋唔會 particular 搵個人去跟住個工人。你診下,如果我哋一個地盤嘅高峰期,二、三十個工人同時喺度進行緊呢個咁嘅工

序,你係咪搵二、三十個水務署嘅幫辦去看住呢二、三十個人呢?因

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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	為你唔係 particular 睇住佢燒嘅,事後你係睇唔到喋嘛。	C
D		D
E	主席: 唔係, 梗係唔係, 不過你即係如果簡生你呢個講法係啱嘅, 理論 上全香港所有嘅市民都要奉公守法,	E
F	黎先生:有錯,有錯。	F
G	主席:就一個差人都唔應該唔需要用。	G
Н	黎先生:法官有嘢做個喎。	Н
I	主席:唔係,應該咁講,講開法官呢個問題,法官嘅做嘅每一個決定都有 人睇住,仲有幾級嘅人睇住添喎,錯會畀人鬧個喎,你知唔知?不過	I
J	我哋而家飲杯咖啡先。	J
K		K
L	上午 11 時 29 分聆訊押後	
L	<u>下午 12 時 03 分恢復聆訊</u>	L
M	出席人士如前。	M
N		N
0	水務署第三證人:簡國樑(水務署專家證人(本地建築及水喉業))宣誓 繼續作供	0
P	<u>石先生繼續盤問</u>	P
Q	問:簡先生,咁我同你講番你嘅第 25 段。實際上喺工地嗰度,我哋叫地盤,水務署同埋 HA,佢哋其實實際上做乜嘢嘢,其實我哋大致都有個	Q
R	印象,我講一講,睇下你有冇即係類似嘅認知。入紙 WWO46 嘅時候,個 LP 要填一個 annex 嘅,即係 WWO46 後面咪有一個附件?	R
s	答:係。	S
T	問: 咁呢個附件裏面就係要求佢特別講到明,就係將會用嘅一啲嘅部件,係邊一類嘅部件,佢就係 set out 晒,就要你寫落去,對嘛?	Т
U	你知道有呢樣嘢?	\mathbf{U}
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V

A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
С	答:係。	C
D	問:但係打算用乜嘢焊料,焊料呢一啲即係小五金嘅嘢,就唔包括喺嗰個annex 需要填寫落去嘅物料其中一樣,你知道嘛?	D
E	答:知。	E
F G	問:所以個 LP 填 WWO46 嘅時候,就有一個需要,要佢所謂 focus 焦點落去用咩嘢焊料,就有呢樣嘢嘅,制度上。佢本身需要知呢樣嘢擺埋 一面唔好講,但係起碼制度上 WWO46 係有要求人哋去聚焦落去用咩 嘢焊料,有呢樣嘢?	!
Н	答:同意。	Н
I	問:同意。而水務署喺施工期間,亦都係有一個制度係會派水務署嘅人員, 我唔係講 LP, LP 係水務署畀牌佢,我知,但係水務署本身嘅工作人	
J	員或者 staff 亦都係有一個所謂巡查嘅制度,走去驗下你用咩嘢料, 喺施工期間,對嘛?	J
K	答: 佢係有呢個制度, 但係水務署就以我所知, 佢係有啲員工係都會去巡 查啲地盤, 但係個目的就唔係去查你用咩嘢料。	K
L	目:係。咁 問:係。咁	L
M	口 · 次	M
N	主席:巡查地盤係查你	N
0	答:即係話譬如	0
P	主席:招番啲水泥之前,鋪好嗰啲水管駁好未嗰啲?	P
Q	答:嗰個就通常就係個 LP 嚟講,係完成咗一啲係隱藏喉管,佢就會呈報 話畀水務署聽,嗌佢嚟睇。但係我所講嘅唔係呢種,就係話譬如有個	
R	水務署嘅佢哋嗰個叫做係客戶服務部嘅員工。	R
S		S
T	問:Customer service?	T
U	答:係嘞。咁佢去睇某個 site 嘅時間,如果隔籬見到有個 site,咁就都見到有人開始做嘢嚟講,有陣時佢都會入嚟巡視。咁其實佢就會去	
V	Transcript by DTI Corporation Asia, Limited	v

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過 Housing。譬如我哋喺外面嘅私人嘅發展項目嚟講,大家都知香港 係地方比較細,咁好多時私人發展商就唔會好似 Housing 有個咁大 嘅地盤,有個範圍畀你可以入車,根本就係話可能係一啲廿四小時禁 區嘅地方,咁你架車嚟到就要入去個地盤,就要卸低啲物料。我哋點 樣可以保證你送去嘅料係合符個合約嘅要求去送落去呢咁,其實我哋 事前就要將我哋個送貨清單,就交畀呢個總承建商,由總承建商去通 知駐喺地盤嘅業主代表或者係一啲顧問工程師,當我哋到料嗰陣時去 抽驗我哋嘅物料。咁其實我哋送咩嘢落去嚟講,我哋就要通知畀佢。

問:唔係,我諗我個問題未必問得咁好。剛才我都講過,宏觀嚟講,水務署同埋 HA 其實工作嘅範圍都會牽涉到焊料,監管或者佢哋所睇嘅範圍都會包括焊料。但係我剛才同你講過,就係驗收地盤,房署驗收就唔包要驗焊料;水務署要你哋啲人寫上去用乜嘢,又唔包要你寫用咩嘢焊料。呢兩個其實都係機會嚟嘅,可以 spot 啲人原來係用緊一啲唔合符規格嘅焊料,但係我哋就知道原來大家呢個機會都有用到,要嚟 spot 到原來係用緊一啲唔合符規格嘅焊料。我哋撇除啲就算即係想去坤人嗰啲可能,即係我特登話咗畀你聽會用 A,但係我特登選擇去用 B,我哋撇除呢樣嘢先。呢兩個都係機會,你同唔同意可以去 spot 到有人用一啲唔符合規格嘅焊料,你同唔同意?

答:係一個機會嚟嘅,即係如果喺個制度上面有訂立嘅嚟講,佢係即係針 對性要睇埋呢樣嘢。

問:如果有寫,就應該...

答:咁但係就算有針對性嘅話,其實嚟講,如果所有地盤嚟講,喺做物料嘅時間有通知佢係送啲咩嘢落去,其實對送貨單已經睇到。

問:但係對送貨單, 有人特別聚焦要去 check 合規呢樣嘢?

答:其實大家都知,其實我哋都睇到就係話如果--就如焊料咁嚟計,就算 售景送貨落嚟,佢都會寫得好清楚係無鉛錫線。

問:咁但係房署未必一定係有個機制去 check,我哋而家係講機制,簡先生,你聽清楚。即係送貨單梗係會 check,收貨梗係會 check。

答:係囉。

問:但係收貨嗰個唔係政府嘅部門,或者唔係公營嘅機構,我哋而家係講 緊制度上,大家嘅制度都有一個機會,一係就要你寫到明你用乜嘢, 一係我就 check 你送乜嘢貨,但係大家都叫做 miss 咗呢個

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答: 係嘞。

問: Okay。

答:咁如果係私人房屋嚟講,就係睇佢委派咗邊個駐工地工程師。

Transcript by DTI Corporation Asia, Limited

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咪?所以你話訂立法例,有問題,訂立法例,訂咗出嚟之後,你要有 人 enforce 先得,如果你有 enforcement,有用噪,係咪?即係如 果話畀你聽雙黃線係任泊,唔會有差人抄牌,你估啲人會唔會咁守交 通規例, 搵停車場車位泊, 梗係唔會, 係咪? 即係當然你話「咁我係

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問:唔,明白。但係有陣時即係一個咁嘅調查,佢調查嘅焦點就唔係淨係 出咗事嗰樣嘢,因為出咗事,而家大家都知道即係一定要驗鉛,驗多 三樣又盛,但係即係有陣時睇嘢睇宏觀啲,即係今日就水務署,下次 唔知咩嘢署會。咁所以我哋睇宏觀少少,就係即係我哋講番頭先嗰兩 個 chances 先,即係 HA 同埋水務署各自都有個 chance,即係起碼

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如果要求人哋驗,如果要求送嘢嚟驗一驗,「唔該睇埋你嗰啲solder,哦,唔係呢啲嚟,唔係"FRY"嚟個喎,錫條嚟個喎,唔啱。」

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В

答: 佢係有呢個機會。

E

D

問:可能有一個 chance。水務署亦都係,水務署如果要求啲人寫上去,寫個 annex 寫埋用咩嘢焊料,咁大家有個焦點,「欸,唔該你用咩嘢焊料。」咁即刻大家會 focus 咗,大家有即係 focus 到呢樣嘢。我哋都問過水務署同埋 HA 嘅證人,即係大體嚟講,其實佢哋嘅講法就係呢一啲叫做 sundry materials,小五金嘅嘢,就真係大家用完就燒咗佢,就見唔到嘅,大家嘅焦點唔係在於呢樣嘢,亦都有諗過大家--即係有人係會即係喺呢一啲咁小嘅嘢度係做違規,所以大家都喺各自嘅文件、表格上,都有寫呢樣嘢。咁即係而好多人亦都話--你知道房署嘅講法就係認知不足,咁即係你對呢個講法,針對性地有咩嘢評語,即係你--尤其是我想即係你了解到你嘅睇法,...

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答:其實我就或者...

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問:...就係即係你覺得係情有可原,定係話唔係喎?

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K

答:我覺得係有啲受到坊間好多人講嘅嘢去誤導。我好記得就係話鉛水事

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受好多電台、電視訪問,咁有啲立法會議員都當住啲公眾講「欸,你 用英國嘢咪有事囉。」其實而家就係調查出咗嚟,唔係英國嘢有事, 係你要買有事嘅嘢,買不含鉛嘅錫線,係好多人係受到某啲人誤導,

P

就係買來路嘢就有事,而家。

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外加 check 十樣有要我 check 嘅嘢。但係制訂呢一啲 form 嘅人, 我講緊高層次啲,我哋呢個案件唔係...

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答:係嘞,即係其實當時如果有制訂嚟講,就可能就唔會漏招。

問:咁即係兩家都有責嘅其實,可唔可以咁講?

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答:可以咁講,一定有。即係你制訂一個法例出嚟去實行嘅時間,咁你如 果喺個監管方面嚟講,如果你每樣都監管制訂到係咁,其實我哋係講 --一路都講話喺--所有嘅訪問問我嘅時間,我都會提到一樣嘢,就係 成本效益。如果你當你有個制度要實行嘅時間,你亦都睇到就係話而 家地盤嗰個運作已經係 full load 嘅時間,你就要抌資源落去咁解。 就係當時大家都覺得呢啲嘢,其實我由開始我都係咁講,佢根本係唔 值錢,喺一個工程合約嚟講,我哋從來都有諗到有行家會去偷雞,即 係用一啲唔啱嘅嘢,可以咁講。

問:即係所以你就覺得情有可原?

H

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答:唔係講情唔情有可原,即係我又唔會即係有呢啲咁去畀一啲定義佢。 我只不過就係話,我自己一向做嘢嚟講,我自己係循規蹈矩,咁人哋 點樣做,我係唔會去理會,最緊要就係話我哋自己做嘢係守好自己本 份。

J

K

Ι

問:我明。但係我想你明白,就係即係專家讚人就唔係淨係講自己做乜嘢, 專家證人就係講即係你要即係叫做發表一個意見,就係話人哋咁樣 做,你要講下邊度用漏咗,或者用漏咗,咁係咪真係有人要--即係疏 忽咗,定係邊個疏忽咗,或者最緊要就係即係下面疏忽咗,上面點解 睇唔到,好多時候都牽涉呢啲咁嘅嘢。咁所以就少不免我會要求你唔 好淨係講自己點做,可能你仲係...

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答:因為地盤有好多嘢嚟講,實際都係有驗。你譬如你話扎鐵用嘅火線, 咁大家都知扎鐵嚟講係一個係好--即係喺地盤嚟講係好重要嘅環 節,牽涉樓字嘅結構,咁佢哋用嘅扎鐵嘅鐵線嚟講,係需要係燒軟咗 佢,令到佢有個軟性、韌性嚟講去做扎鐵,但係呢啲--呢類咁嘅小五 金都係有驗。

P

問: 吓?

Q

答:即係你話如果地盤每樣都去驗嚟講,係咪真係 practically 可以做 到即係話個成本效益咁樣。

R

問:係,我明。但係有陣時唔係淨係用錢計,你嗰樣嘢可能唔係好值錢, 但係學你話齋,「嘩,原來嗰樣嘢唔係好值錢,但係原來有啲即係 substandard 嘅話,原來個後果係影響健康,或者話原來你嗰啲嘢 燒落去可能唔穩嘅,會冧嘅。」

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答:或者咁講,喺今次嘅事件之前嚟講,其實喺個公眾教育嚟講係唔夠,

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對於食水含鉛嗰個教育。

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В

問: 唔好淨係講鉛,好多人覺得話即係鉛咋嘛,唔會死,七十年先死。但 係我諗都講呢樣嘢,但係即係整體嚟講,即係唔好淨係講鉛,今次講 鉛,下次可能係第二種金屬,係咪?即係睇遠啲,係咪?即係就純粹 講成本效益,淨係講即係呢樣嘢係即係金錢上唔係好值錢,呢個係咪 一個即係啱嘅取態,你要了解下點解有呢個規定至得,呢個規定係同 健康有關喎,你會唔會咁睇?你講成本效益,就係話呢樣嘢唔會有人 偷雞啩?

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答:或者咁講,喺當時呢個鉛水事件之前嚟講,我都有去深究食水含鉛呢 匠或者作為一個水務行業嘅持分者,我係只係會著眼於法例嘅要求, 我所講,我係 2000 年之後,我喺個銅喉嗰個 catalogue 就睇到,

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樣嘢,好坦白講,我係事後我先至去上網,去即係搜尋啲資料,有關 食水含鉛,世衞標準各方面嘅知識。其實我當時我作為一個持牌水喉 同埋就係話我嗰個合約嘅要求。其實每個合約嚟講,佢都會講明就係 話你要用乜嘢嘢,當你 submit 之後嚟講,通常上家 approve 你去 用嗰樣物料嚟講,通常都係會有一啲 condition 加落去,就係要求 你必須要根據嗰個生產商嘅指引去使用呢啲物料。咁其實就正正頭先 佢圖文並茂咁去話畀你聽,係要使用一啲無鉛嘅焊料。咁如果你係跟 足嗰個生產商嗰個指引去做嚟講,其實係有問題。咁就係話如果呢個 跟足生產商個指引去做嚟講,其實呢個就係地盤團隊要做嘅責任。

K

問:你頭先講到,就係話即係其實你之前就淨係知道原來合約或者法例有 呢個要求,你都係出咗事先至走去哟下,原來呢個要求係同健康有關 嘅,可唔可以咁講?即係喺之前,就淨係知道唔可以含鉛...

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L

答: 唔係, 鉛對健康有危害嚟講, 我之前係知。但係嚟講就係話世衞標準, 我哋係有去深究,即係話究竟食水含鉛點樣話為之安全,點樣唔安 住,我哋只需要就係話我哋根據嗰個法例嘅要求,水務署嘅要求,做 足。既然係法例規定嘅嘢,係佢係跟最新嘅 standard 去定出嚟用咩 嘢物料, 畀你去用嘅, 你跟足嚟講, 我哋係相信呢個制度係健康。

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問:好嘞,不如我就問一問你對業界嘅認知,頭先你講吃關於業界嘅認知 嘅問題。我想你睇一睇一個文件,AB1。AB1,tab 7,有位陳尚仁 先生,你聽過未?

P

Q

答:聽過,認識。

R

問:認識嘅添,好。佢就嚟過作供,你睇下 AB1 嘅 tab 7,佢係呢個香

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網去搵下點解會有呢啲咁嘅文件會出嚟,但係當時我未係,所以我有 收禍。

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В

問:而你亦都有記憶就係話當時--即係唔好講呢份文件,即係你亦都醒唔 起話當時香港有咩嘢事情喺業界,會令到呢個商會突然間會醒覺要提 點大家,會唔會係突然間邊個地盤爆咗件事,即刻--通常呢啲喺個出 咗事之後就會出個 circular 提下大家咁樣?

D

答:我真係有聽過。

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問: 有聽過?

H

答:係嘞。反而我當時比較 alert 就係話--當時我哋就係喺我哋嘅僱員, 一啲喺建造業訓練局出嚟,讀水喉全科技工課程嘅僱員。同埋我都講 就係話因為我自己會係好詳細去睇唔同嘅物料,佢嗰個 catalogue 佢寫嘅裏面嘅嘢,咁我哋就留心到就係話當時 BS EN 1057 係圖文並

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K

茂,係講到佢個標準係要使用無鉛焊料。 問:你睇番 tab 8,即係跟住嗰個 tab,第 95 頁。呢份就係一份即係業 內嘅行業資訊,就係呢個剛才我同你講嘅水喉潔具業商會有限公司,

L

係一個即係周年嘅 event, 嘅 function,即係一個晚宴上面就即係 派。就講到"Development of Lead Free Copper Alloys for use in Drinking Water Applications in the European Union"。就係講歐聯,即係長話短說,就係講歐聯裏面,就其實就 有四個即係相對先進少少嘅一個成員國,就即係喺度籌劃緊一啲水平 合標啲或者係安全啲嘅食水嘅配件咁樣,咁就即係主要就係關於唔含

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鉛嘅配件。

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睇番跟住 97 頁,就係一個本地嘅從業員,呢個 Joe Ku,呢個 Technical Advisor, 但就係講到就係即係就住唔含鉛嘅食水供應 系統,就寫咗一篇嘅文章。咁亦都係長話短說,佢就係講到就係即係 食水含鉛係比較危險,咁就係講到就係美國就有立吃法,就係就即係 針對食水含鉛就訂立咗一啲嘅法例,但係就香港就未有。跟住就即係 作出一啲建議咁諸如此類。

P Q

R

你後面睇番99頁,直情有晒啲相咁樣,即係銅喉焊接嗰啲咁樣嘅 銜接嗰啲咁樣嘅 fitting 嗰啲,就有埋啲相喺度咁樣。即係個背景 就未必真係話預見到食水含鉛,而家見到嘅嘢,如果係就中咗六合彩 可能。但係即係佢其實係有另外一啲嘅背景,佢就係講緊應該係因應 於英國嗰方面,就呢一篇文章,係因應於美國嗰方面係有一啲關於食

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音·係喇。咱具真但一級正正找頭先所講,具員香港有好多持牌水帳匠喙講,佢哋係有好專業嘅知識,就從事一啲係比較高層位嘅,咁佢其中係一個。咁佢係從事一啲前期嘅規劃設計,喺呢個顧問工程師行,作為一個水務 division 嘅 head。點解我哋一路都講話點解前期嘅設計係好重要,就係話佢就係正正係揀選用咩嘢物料嘅人,啲顧問工程師佢哋唔單只會接香港嘅工程嚟做,佢哋會即係國際視野比較廣闊,佢哋接觸到外面唔同嘅世界。咁好似我哋 committee 都有好多即係member 嚟講,都係去到中東、去到美國、星加坡,去從事唔同嘅水

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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	喉行業嘅工作。佢哋喺呢個工作個經驗嚟講,就會返嗎 裏面去分享,咁變咗我哋就係話點解我哋會加入一啲學		C
D	較先係接觸到一啲外國嘅資訊,雖然呢啲資訊未必係會用,但係起碼我哋知外面有人去 focus 緊一啲嘢。		D
E	問:或者出咗事,咁你會即刻諗下,「香港會唔會同樣出事。		E
F	答:可以咁講。		F
G			G
Н	主席:返番去其中石大律師啱啱講嘅 1998 年,		Н
I	石先生:係,tab 7,93頁。		I
J			J
K	主席: Tab 7,係,1998年3月出嘅呢個咁樣樣嘅通告。 我哋聽,你去到2000年先至知道有呢一個要用無鉛焊		K
L	答:係規定要用。		L
M	主席:規定,得。我知道水務規例裏面,到而家都仲係講緊 II,係咪?寫就仲係咁寫。	ES 864 part	M
N	工工 一 水分 1、 河 妙		N
o	問:即係特別寫出嚟嘅?		O
P	答:係,係。		P
Q			Q
R	主席:係嘞。咁你知唔知道其實去到 1998 年,啱啱咁蹺 月,就係出咗呢一個 1254/1998,就係將 854 就完全	· 掃走佢。即係	R
S	1998 年 1 月就 British Standards 呢個咁嘅 inst 咗呢一樣嘢,當時你係完全唔知?	itution 就出	S
T	答:當時我有去留心。		T
U	主席:得。		U
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A	食水含鉛超標調查委員會 2016年2月19	A
В		В
C	答:因為其實我哋當時嚟講,就話佢唔係唔畀用,864 其實當時喺我呵 submit 喺水務署嗰個材料清單裏面嚟講,我哋係冇必要去 submi	C
D	個配件。	D
E	主席:有必要去 submit 嗰個焊料?	E
${f F}$	石先生:焊料?	F
G		G
Н	答:唔係焊料,係個配係個喉配件都唔需要嘅當	Н
I	主席: 係, 係。咁你	I
J	答:咁所以我哋主要就係講係條喉,條喉就係要符合呢個 BS EN 或者 B 2871 嗰個 standard。但係因為香港始終係一個自由社會,就話何	J
K	唔可以話我今日咁出一樣嘢,就即刻會你今日就你做緊嘅地盤都唔身 你完成。	K
L	主席:呢樣嘢我都想問你,既然你講到。864 part II,1983年,最待 訂立嗰陣時候,其實係可以用含鉛嘅焊料個喎,你知唔知?	
M N	答:我哋有去特別去深究,因為其實當時嚟講就係話我哋我入行係一之 七幾年。	M 九 N
0	主席:係呀。	o
P	答:咁我哋當時全個行業嚟講,都係買錫條返嚟,就唔	P
Q	問:含鉛嗰隻?含鉛嗰隻?	Q
R	答:而家事後我哋大家知道係含鉛。	R
S		s
T	主席:事後知道,係。	T
U		U
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Transcript by DTI Corporation Asia, Limited

A	食水含鉛超標調查委員會 201	6年2月19日	A
В			В
C	問:事後知,係,係。		C
D	答:但係其實我哋入行嘅時間,我哋嘅師傅就永遠唔會話畀你 唔含鉛。		D
E			E
F	主席:係,含鉛。		F
G			G
Н	問:係,明白。		Н
I	答:但係我係七幾年入行。		I
J	主席:係呀,我明。		J
K			K
L	問:明白。		L
M	答:然之後,就我喺八幾年考牌嘅時間,其實就係大家都係用 用錫條嘅啫。	紧相同,係	M
N			N
0	主席:得,我明白。即係 864 part II,我話畀你聽 1983 嗰陣時候,其實就係有講到好明,其實就係裡面係可以係戶		0
P	鉛嘅焊料,嗰啲叫做 grade C and G。好嘞,你頭先就讀 題,就係話唔係即刻可以實施到,要睇下人哋出面,人哋		P
Q	緊,咁你點樣樣可以話畀人哋聽唔用,係咪?好嘞,我哋 1987年,就呢個854就改,就話你如果用做食水嘅話,何	地知道去到	Q
R	份量最多去到 0.001 個 per cent 諸如此類。好嘞,水產都唔改佢嗰個規例,佢淨係話 8642 嘅啫,咁但係佢就好得		R
S	又話佢個 definition 嗰度,就話要用最新嗰個喎,咁究竟我如果做開嘅,可以繼續用含鉛嗰個,抑或唔含鉛嗰個	竟用邊個?	S
T			T
U	問:你嘅認知,我哋講緊你個認知。		U
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Transcript by DTI Corporation Asia, Limited

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
С			C
D	主席:你明唔明?		D
E			E
F	問:我哋講緊你個認知先,我哋		F
G	主席:因為 BS 就不斷咁改,係咪?		G
Н	答:係吖。		Н
I	主席: 咁我嘅理解, 點解當時, 即係你喺個水務條例裏面要認 就用最新嘅 BS, 我嘅理解你睇下有冇錯先, 譬如如果到	戍 喺個水務條例	I
J	裏面定咗話 BS 1234,1234 會不斷咁演變,有 amen 哋見到有好多 amendment 出嚟,係咪?	idment 嘅,我	J
K	答:係。		K
L	主席:咁當然你如果用 BS 1234,你喺呢個時候,唔該你用 新 BS 1234,amendment 第三,我明。但係水務署唔係		L
M	已經方咗,係變咗 BS 4567,你明唔明,864就變咗何唔改,咁我用邊個?		M
N	答:通常		N
0			0
P	問:我哋唔係問緊你喺個法律演繹嘅問題,		P
Q	答:喺我哋當時成個業內,		Q
R			R
S	主席:係呀,係呀,你用邊個?係。		S
T	問:你嘅認知,你嘅認知。		T
U	157。 公民的政治 、 公民的政治 、		U
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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	問:咁但係法例就唔應該淨係畀啲大公司識唦嘢?		C
D	答:點解我咁講,因為其實喺九幾年嘅時候,		D
E			E
F	主席:唔係,我知,我哋明,因為	Confere	F
G	答:我都係細公司,咁就啲 sales 就唔會第一時間有新就有啲 sales 會即係啲供應商會嚟我公司話畀我顯	, , , -	G
Н	主席:係,啱吖。		Н
I			I
	問:唔會吖嘛,你話?		
J	答:大公司就有。		J
K	問: 係嘞, 細嘅唔會?		K
L	答:即係好似今時今日,即係我哋公司唔算係好大,但係 識。咁無論有咩嘢新嘅 standard,啲 sales 就會		L
M	嚟,「簡生,而家有啲咩嘢新嘅 standard。」我哋! 以就係其實點解話持牌水喉匠有啲知,有啲唔知嚟講		M
N	幾 rely 個 supplier 提供畀我哋個資訊。因為其實		N
0	問:咁你覺得呢個係咪一個令人滿意嘅做法,真係靠下你 邊個,邊個 sales 熟唔熟你?	自己真係識唔識	0
P	答:唔係,因為		P
Q			Q
R	主席:係嘞,exactly,因為 ultimately 係水務署發 全香港嘅水質,你明唔明?	牌,水務署睇住	R
S	答:明。		S
T	主席:係囉。		T
U			U
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答:其實當時嚟講,我哋--我好早就對於水務條例嚟講,我都有個認知就 係話所有水務條例佢嘅設施嚟講,係希望能夠係保障到香港,係能夠 持續供應足夠嘅食水,優質嘅食水。我記得我係最初我係同水務署開 會,我係喺呢個係 2009 年,我就參加咗水務署個 Smart Programme

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裏面做個 member。咁曾經我都指責過水務署某啲同事,就話「喂,你水務條例係好 out source 喎,大佬,你上世紀寫嘅時間,就係有好多法例係針對呢個--嗰個制水而制定出嚟,而今日香港有個東江水嘅時間,已經係唔會有制水呢樣嘢,咁有關制水嘅嘢其實係咪可以放寬呢?」咁我當時就提出個論點,就係話其實水務條例寫出嚟嚟講,係要保障所有嘅食水,所有全香港能夠持續供應優質食水,同埋係防止所有嘅食水嘅管網受到污染。咁當時其實水務署嗰啲同事都幾震驚,望住我,「點解你會咁樣講嘅呢?」咁其實我覺得就係話,其實我一路都知呢個洗喉,其實就唔係話講滿唔滿意,其實洗喉就係要保證我哋所做嘅喉,當接駁個水源嘅時間,唔會係污染番個管網。

問:倒流?

答:係。其實呢個我好早就知。

問:係。但係你知唔知道業界好多人...

答:但係業界知唔知嚟講,我就唔敢去妄作猜測有幾多人知、有幾多人唔 知,但係我自己就係會知。

主席:你 check 水辦係兩度 check,一度就係喺個 connection point 嗰度 check,嗰度就 check 究竟你會唔會倒流,污染番。另外一度 check 嘅就係喺個 tap 嗰度要 check,攞水辦去 check,...

答:係嘞。

主席:...嗰度唔係愛嚟驗倒流,嗰度就係驗,「啊,你嗰啲接駁冇問題 嘞,我哋可以畀水你」?

答:其實當時嚟講,我哋成個業界同水務署係開咗好多會,咁我哋係--啲水辦係點樣去畀法,就係話我哋接街喉嗰條水嚟講,係必須係喺攞入伙紙之前去攞,因為嚟講就係話你買水又好,你點樣用咩嘢方法攞啲水返嚟,總之一定要洗乾淨條喉,係防止唔好去污染到個管網。咁但係如果你話係一個屋邨好大,有好多室,即係單位,咁你要洗晒裏面嘅喉,如果你有正式嘅水,去買水嚟洗,係好不切實際。其實大家都知,將一啲好乾淨嘅水入喺個水管,耐咗嚟講佢就會變咗唔乾淨,你咁係攞唔到水辦。所以我哋業界亦都同水務局有個協辦就係話我哋係保證喺即係駁街水嘅時間,我哋駁街水嗰陣時候必須要乾淨,然之後,室內嗰啲攞龍頭嗰啲,就可以喺水務局供水之後先攞,就喺 1005

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答:我就係講緊就係我唔知...

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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	問:就唔使怕,我唔係叫你點個名出嚟。		C
D	答:我係唔知,因為你問緊我知唔知佢點樣說,我成日都 一啲我證實唔到嘅嘢,佢心諗緊乜嘢,我點會知?	講,我唔能夠講	D
E	問:唔係,我哋業內好多時候,我哋啲律師都係講「喂,	好多第二啲人原	E
\mathbf{F}	來係諗啲咁傻嘅嘢,我哋會知個喎。」		F
G	主席: 唔係, 唔係, 你做專家, 專家其實一個好特別嘅地方 你嘅意見, 係呀。	方,就係可以講	G
Н	答:因為其實我可能就係話		Н
I			I
J	問:或者你知道業內好多人嘅做法。		J
K	答:我所認識嘅,都係喺學會或者喺商會,比較接受到資訊	比較係 update	K
L	嗰拃人,即係好似你講陳尚仁先生、黃國強先生,一啲 主席,或者我哋學會嘅 committee member,或者-		L
M	會嘅講座、seminar、site visit 嗰拃人我哋會比! 就係正正不斷吸收新知識嗰拃人,我點可以 assume		M
N	問:Okay,明白。		N
0	答:接觸層面嘅問題,我覺得係呢個係。		o
P	問:得,明白,我仲有一段想問你。		P
Q	石先生:但係我諗主席,唔可唔可以食完飯先問嗰段?		Q
R	主席:晏書先。		R
S	石先生:Okay。		S
T	主席:兩點半再繼續我哋。		T
U	石先生:唔該。		U
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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	主席:唔該。		C
D			D
E	下午 1 時 06 分聆訊押後		E
${f F}$	<u>下午 2 時 32 分恢復聆訊</u> 出席人士如前。		F
G			G
н	水務署的第三證人:簡國樑(水務署專家證人(本地建築) 誓繼續作供 石先生繼續盤問	<u> </u>	H
J K	問:簡先生,就有兩個課題想同你探討下嘅,我食飯之前 係其實我睇番係仲有另外一個。你當年考牌去做 LP 『 係仲有分一級同二級唻,持牌水喉匠?		J K
L	答:係。		L
M	問:咁你一考考一級喇,係咪?		M
N	答:係。		N
0	問:係,咁你當時就要上過堂先至去考嚟,對嗎?		0
P	答:當時就有呢個規定嘅。 問:有咩嘢話?		P
	答:有規定要去上堂嘅。		
Q	問:係,但係你本身係上咗堂先去考,受過訓練?		Q
R	答:我第一次考係有上堂嘅。		R
S	問:係。		S
T	答:咁我係考咗兩次失敗之後,我發覺原來唔上堂嚟講,何	糸蝕底少少嘅 ,	T
U	咁跟住我就去上堂嘞。 - 78 -		U
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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	答:唔會。		C
D	問:你去上堂,亦都有教你關於焊接嘅技巧,或者基本嘅原		D
E	答:其實當時我哋上堂主要就係針對係《水務設施規例》同 教授。	司埋水務條例嘅	E
F	問:唔。		F
G	答:亦都係好扼要咁話畀我聽,當我哋要 submit 一 proposal 嘅時間,我哋要包括有啲咩嘢元素,先至能		G
Н	問:唔。		Н
I	答:咁因為其實我哋當時考牌係分開兩部分,第一部分嚟認個試場,佢會畀一個 plumbing proposal 嘅,即係		I
J	用我哋,我哋就根據嗰個 criteria 去 design個 plu: diagram 出嚟。		J
K	問:唔,唔。		K
L	答:咁然之後我哋 pass 咗呢個 part 1之後嚟講,我哋家		L
M	interview。咁就有水務署嘅幫辦呢,就會係問我哋- 相關嘅知識。	-啲係水務條例	M
N	問:唔,好。即係話成為持牌水喉匠,你當年親身嘅經驗 教焊料,亦都係考試亦都有考過你燒焊技能呢樣嘢?	,就有試過上堂	N
0	答:有。		0
P	問:Okay。但係你本身做持牌水喉匠,或者考持牌水喉匠 學過點樣焊接架?	式之前,你係都	P
Q	答:我哋係地盤師傅教嘅,當時。		Q
R	問:係嘞,即係唔係話因為要考持牌水喉匠而學,而係本身個	你要學整水喉,	R
S	就要跟師傅去學喇。嗰陣時跟師傅學焊接,就係用錫修	条嘅,對嗎?	S
T	答:可以咁講,我當時所見過嘅所有唔同嘅公司都係用錫個	条嘅。	Т
U	問:都係用錫條嘅。係一條條直嚟喇,咁你知道係咪即係所嘅 50 力呢?定係	ī家我哋成日講	U
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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	答:唔係,絕對唔係。	C
D	問:唔係 50 力。	D
E	答:咁我哋當時係佢會一啲五金嘅批發舖頭,咁就好大量咁去買,一擔一 擔咁買嘅,咁	E
F	問:但係直線一條條嘅?	F
G	答:一條大約咁長喥喇。	G
Н	問:Okay。	Н
	答:就比起而家嗰啲粗好多嘅。	
I	問:係。	Ι
J	答:咁大碌嘅。	J
K	問:哦。	K
L	答:咁我哋返到嚟之後嚟講,我哋就會將呢啲咁嘅錫條,就用火將佢煮熔	L
M	咗,就裝喺個容器嗰度。咁我哋就用個勺,咁整條角鐵,戙斜喺個地下,咁倒落條角鐵,咁佢一路一流出嚟,凍咗,就成為而家咁嘅條 狀嘞。	M
N	問:哦,okay,okay。先整熔佢,跟住再凝結番?	N
O	答:係嘞。	0
P	問:凝結嘅形狀,就係由你嗰條鐵嘅形狀控制?	P
Q	答: 係嘞,我哋用一條角鐵咁,	Q
R	問:我明。	R
S	答:佢變咗呢出嚟就會三角形,一個好薄嘅一條條狀囉。	S
	問:係,跟住到到焊接嘅時候,又熔番佢?	
Т	答:係嘞。	T
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石先生:我問完嘞,主席。

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主席:唔該。有冇人有問題呀?係呀。房署先喇。

U

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U

A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	何先生:唔該。	C
D		D
E	何先生盤問	E
F	問:簡生,請唔好覺得我冒犯,但係我都想知道即係你個獨立性。你頭先 講過,你係有做過房署嘅工程嘅?	F
G	答:我有承接過房署嘅工程。	G
Н	問: 有承接過房署工程?	Н
I	答:係。	I
	問:即係你做咗持牌水喉匠之後,你係有	
J	答:有承接過。	J
K	問:沾手過去房署嘅工程房委嘅工程?	K
L	答:我有正式去承接過房委嘅工程。	L
M	問:係,sorry,點解話有正式呢?	M
N	答:咁誒	N
0	問:即係有接過,係咪?	0
P	答:即係話我公司係有接過嘅,咁但係嚟講,我哋會喺一啲我哋學會嘅 member 裏面,去聽到一啲房屋署嘅工程嘅要求,或者係一啲行家會 聽到,但係我正式自己去實際參與就冇嘅。	P
Q	問:係,多謝。咁就亦都你有有接過政府,譬如好似建築署批出嗰啲工程?	Q
R	答:有。	R
S	問:有。咁就亦都唔好覺得我冒犯,我哋而家喺呢一個委員會裏面,牽涉 嘅係有四大嘅主承建商總承建商。	S
T	答:係。	T
U		U
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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	問:咁你有冇同呢啲總承建商有任何嘅工程你係接佢哋嘅呀	₹?	C
D	答:或者你講一講呢四個承建商先,我再 review 一下先 有嚟。	。有利,我絕對	D
E	問:係。中國建築、有利、保華同埋瑞安。		E
F	答:瑞安,我喺好多年之前,曾經做過佢哋 subsi.嘅嘢, 嘅嘢。咁但係瑞安,以我記憶,我有直接幫佢做過。	(聽不清)	F
G	問:好。		G
Н	答:咁而中國建築,冇。Paul Y同埋有利都冇。		Н
I	問:多謝你。我想睇你就係睇第首先我想你睇番,你 都問過你嗰個第8段嗰度。	頁先主問嘅時候	Ι
J	答:嗄。		J
K	問:對唔住,唔係主問,委員會嘅大律師。第8段嗰度,係		K
L	工程。呢度講公共房屋嘅工程,就用嗰個指定承判商员以冷氣、消防、電呀咁;水務,水喉嘅分判商呢就唔价	糸嘅。我想你確	L
M	認,其實即係除咗房委嘅工程係咁,譬如好似 ASE,與 會係咁樣嘅安排,係咪呢?		M
N	答:喺呢個 2014 年之前都係咁樣安排嘅。		N
0	問:唔。		o
P	答:咁但係喺呢個 2014 年係嘞,2014 年嘅 1 月,就干工程呢係需要有呢個指定嘅分包商嘅。	可咗憲,就公共	P
Q	問: 唔。咁就我想同你即係討論一下嘅就係話,譬如我哋知 佢嗰個譬如做泵,或者做消防,佢有個指定嘅分判		Q
R	答:我知。		R
S	問:咁佢係希望呢係好有個好專業嘅分判商去負責譬如有		S
T	嘅工程,就係譬如好似個泵呀,好似個消防呀其他各村	家 嚉?	T
U	答:係。		U
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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	問:你頭先係有咁講嚟,係咪?	C
D	答:唔嗯。	D
E	問:咁當時呢個物料嘅送貨單,我相信你頭先所講嘅就係,如果係嗰啲水 喉分判商,有啲物料進咗地盤,咁如果係佢哋交嗰張物料嘅送貨單去 畀邊位呀?畀總承建商喇,係咪?	E
F	答:係。	F
G	問:咁其實總承建商都可能可以 pick up 得到,	G
Н	答:係。	Н
I	問:係咪呀?因為我哋而家講緊係呢一個咁樣嘅建築項目裏面,係不只一個持份者,即係唔係淨係政府部門做持份者,或者半政府部門,	I
J	好似房署嗰啲做持份者,咁而係其實喺個項目裏面有好多唔同嘅持份 者嘅。	J
K	答:啱呀。	K
L	問: 係咪? 唔。包括埋總承建商,當然?	L
M	答:係。	M
N	問:唔。頭先亦都問過你就係,你又覺得如果要樣樣嘢都 check,其實都 真係唔係好可行。即係每一樣嘢都 check,你都覺得唔係好可行,係	N
0	咪呢?	0
P	答:係一個成本嘅問題囉。	P
Q	問:一個成本問題。	Q
R	答:呢個係出於一個成本考慮,就話你每樣嘢去 check,你既然係做咗個check 嘅工序出嚟,你就必須要有一個完整嘅紀錄話畀人聽我係check 咗嘅。	R
S	問:唔。	S
T	答:咁就牽涉除咗係去做inspection嗰個人嚟講,亦都牽涉去做report	T
U	嘅人,同埋做 filing 嘅人。咁喺個成本效益,係咪即係話每樣佢好 瑣碎嘅都要做呢,咁就大家去諗一諗。 -90-	U
\mathbf{V}	Transcript by DTI Corporation Asia, Limited	V

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	問:你所謂大家諗一諗,即係其實你冇即係因為點解		C
D	答:因為你唔係除咗政府會起公營房屋嚟講之外嚟講,其實 亦都佔香港好大嘅市場。	實就係話私營樓	D
E	問:條。		E
F	答:咁其實大家都知羊毛出在羊身上,而家已經香港不斷咁,咁你再架床疊屋嘅時間,個樓價一路係咁推高個		F
G	問: 方錯。我都想同你講一講,即係你譬如話既然喺法		G
Н	就係譬如好似閣下做持牌水喉匠嘅,當然你係最前線項 有嘅物料係適合,即係符合法例嘅要求嘅用料喇,項	甘你係最前線嗰	Н
I	個。咁當然你如果唔係閣下,好似你係老闆,亦都係 咁可能係持牌水喉匠亦都有佢係被受僱嘅,咁嗰個分	= / 4 / 4 / 4	I
J	能係需要有個制度去睇住呢啲物料係應該用得		J
K	答:每個分判商應該係根據法例同合約去		K
L	問:覺得符合嘅。		L
M	答:履行嗰個工程嗰個責任嘅。		M
	問:係。咁跟住就係即係總承建商喇?		
N	答:嗄。		N
0	問:係咪呀?唔。咁然後即係再退上去,就係即係 devel	oper 喇,	0
P	答:係呀。		P
Q	問:業主喇咁樣,係咪咁嘅意思?		Q
D	答:係呀,每個持份者應該係盡自己嘅責任喇。		.
R	問: 唔。所以你所講嘅架床疊屋就係話,最前線嗰位,當然		R
S	去肯定嗰啲用嘅用料就係符合嗰個法例嘅要求,或者 求。咁上一層,就係作一個可能係監管者嘅角色;咁		S
T	遠啲嘅監管者嘅角色,即係監管嗰啲監管		T
\mathbf{U}	答:啱。		U
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問:係咪咁嘅意思呀?

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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	唔少嘅訪問裏面,畀唔少嘅工人去鬧我,話我根本就吗呀咁,咁佢話佢哋不嬲都係咁做架。咁就正正睇到係-	一拃唔識嘅人,	C
D	但覺得佢哋一路沿用嘅操作方式係啱嘅,佢哋都仲係屬 都有啲人打電話嚟同我講「我買緊美國英國焊條呀,	_,,,,,	D
E	跟住我就話畀佢聽「如果你係買英國焊條,其實已經係 係出咗事架嘞」,我話。	·百分之九十九	E
F	問:明白。		F
G	答:就啲人唔識吖嘛。		G
Н	問:好呀,唔該晒。		Н
I			I
J	主席:Ms Lam.		J
K			K
	林小姐盤問		K
L	問: Mr Kan , I represent China State. I wil you a few questions in English.	l be asking	L
M	, od d len queselens in English.		M
N	主席:或者你戴如果你聽得懂嘅就唔使,如果你		N
0	答:我聽到佢話代表中國建築,佢話有啲嘢要問我。		O
P	主席:如果你唔鍾意嘅話		P
Q	答:咁如果我聽唔到,我會問喋。		Q
R	主席:你可以戴住嗰個耳筒,有即時翻譯。不過隨便你,有	万乜所謂嘅。	R
S			S
T	問: Mr Kan, we know that you are very, very fa the form WWO46, and we know, under part 1,		Т
U	be filled in by the licensed plumber.	There is an	
	annex that shows details of all the pipes a	na fittings	U
V	Transcript by DTI Corporation Asia, Limited		V

В

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intended to be installed; right?

C

В

答:啱。

D

問: I would like to ask, in your experience, as a matter of trade practice, is it common for plumbing materials eventually used on site to be different to those listed in the original annex that was submitted under part 1?

F

 \mathbf{E}

1:

G

答:基本上嚟講,喺整個行業嚟講,如果係 submit 咗上去,得到咗水務 局嘅批准,亦都係畀業主同埋監管每個持份者--監管持份者係批准咗 嘅,其實水喉匠就唔會係用一啲唔啱嘅物料嘅理論上。因為如果你用 咗,到時個業主唔收貨,個總承包商唔收貨,你都係要拆晒换咗嘅-- 即係換番佢哋批准嘅嘢嘅,咁我診有一個分判商係願意承擔呢個風 險。

Н

I

問: So my question is, if for one reason or another, a change of materials was required, whether because of the works or whatever, then what would be the procedure?

J

K

L

答:我亦都舉個實例畀大家聽,咁就喺 2006 年,咁我當時就做呢個康城 --而家嗰個康城係當時地鐵嗰個發展物業,佢係分好多期,咁我做嗰 條--地底嗰條 main pipe,最大嘅 size 係去到 600 毫米直徑。當時就因為個--工程個工期有差唔多係接近三年半,我哋喺 award 咗 個 contract 之後嚟講,我哋就 submit 晒所有嘅物料畀人去批,批

M N

時就因為個--工程個工期有差唔多係接近三年半,我哋喺 award 咗 個 contract 之後嚟講,我哋就 submit 晒所有嘅物料畀人去批,批 完之後,我哋亦都入咗 Form WWO46 畀水務署去審核,嗰個批咗出嚟 嘞,我哋就開始去同 supplier 就訂料。但係呢個訂料,我哋講緊係 兩年之後先送落嚟。到到我哋個地盤真係可以容許我哋去挖條路、去 鋪條喉嘅時間,個 supplier 話畀我聽「喂,呢個生產商已經有做囉

O

呣。」

P

Q

問:Yes.

R

答:我就需要係轉用一個物料。喺呢個情況之下嚟講,因為我哋同--審批 之後我哋同供應商係簽咗合約。我哋首先就話我哋攞番個合約出嚟話 界人聽,「嗱,我係買咗,簽咗合約嘅。」

S

現時呢個供應商係話畀我聽佢有能力供應呢樣嘢,我就要要求供 應商出封信證明佢係畀唔到先,咁我就遞畀總承建商,由總承建商去

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T

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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	問: As a matter of practice, after you submit the revised annex, what happens next? Would you then expect either a verbal or written approval from the WSD?	C
D	either a verbal or written approval from the WSD?	D
E	答:我哋所講嘅,如果喺市面上會突然間有咗貨嘅物料,都係啲唔係經常 用嘅物料嚟。其實我哋喺個屋宇嚟講,我哋所做嘅喉管都係比較係細 嘅 size,咁就好少會係大過 150 毫米。	E
F		F
G	頭先我所講個實例嚟講,就話佢係去到 400 毫米或者係 600 毫米, 咁呢啲比較特別嘅用料唔係喺香港係冇一般係冇存貨,必須訂料。所以其實我哋喺審批嘅時間,我哋就會馬上係訂料。只要業主	G
Н	批,我哋就訂。	Н
I	因為點解我哋會訂呢?因為我哋已經係事前確認咗呢個物料係喺 水務局個 list 裏面。既然我哋揀番個 list 裏面批嘅料,水務局係	I
J	有任何理由去 reject 我用呢樣嘢。	J
K	問: In other words, if it is already on the WSD's approved list of materials, you would expect WSD to have no problems with the proposed change; is that correct?	K
L		L
	答:唔會,啱。	
M	問:Sorry, my question before was: would you then expect	M
N	the WSD to formally inform you, whether in writing or orally, that, yes, your proposed change of material	N
O	is fine?	o
P	答:水務署嚟講,喺收到我哋呢啲咁嘅修訂嚟講,係必定會用書面去回覆 我哋。因為我哋係到到最後做最後嘅完工報告嘅時間嚟講,佢就會	P
0	揸住我哋最 latest update 嗰份 annex 嚟收我哋貨。	
Q	問:Thank you very much.	Q
R		R
S	主席:Mr Li。後面嗰個 Mr Li。	S
T	李頌然先生:唔該主席。	T
U		U
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V

A	食水含鉛超標調查委員會 2016年2月19日 2016年2月19日	A
		n.
В	I	В
С	佢嚟補充。但係嚟講,基本上喺購買物料嚟講,主要都係由寫字樓去 做。	C
D	尚:明日。喺你公司问和興义好、雋景都好,頁料喇,講焊料,曾唔曾焊	D
E	條又會買到,焊sorry,錫條會買、錫線都會買,視乎用途? I	E
F	答:我哋因為我都講,就話我哋會發覺因為我喺 94 年已經係用咗錫線同埋焊膏,咁我當時用佢,就發現佢非常之正嘅。即係以前嚟講, 我哋入行嘅時間,我哋係用松香膏同埋啲錫條,啲錫條嚟講,返嚟又	F
G		G
Н	求其行埋嚟佢都可以做到專業到不得了嘅,畀我哋睇嘅,我梗係第一	Н
I	時間叫啲伙記用晒呢啲嘢。	I
J	問:你話94年用錫線就好用,係咪?	J
K	答:係,佢係比嗰啲咁嘅錫條係非常好用好多,畀我感覺,又唔使煮、 又唔使盛。	K
L	問:綠色呢一卷你用過未,自己?	L
M	答:用過。	M
N	問:比較上用法,係咪呢隻都同你之前講嗰錫線差唔多咁好用?	N
0		o
P	主席:咪就係呢隻囉。	P
Q	答:就係呢隻。	Q
R	問:就係呢隻。即係呢隻你見到好多年嚟嘞,已經,喺市面嗰度?	R
S	答:係,係。	S
T	問:而呢隻就係如果係一卷卷,卷裝嘅錫線,嚟嚟去去都係得呢隻?94 年開始。	Т
U	台·畠吋喙碑,九見中山上月茂夕支,找哈取月足,但你找左平上,畠吋	U
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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	人哋介紹我哋用就係用呢隻。	C
D	問:唔。你同譬如話雋景買料嗰陣時,會唔會以你得知,自己個人親身 經歷,或者你啲同事都會反映番,就係話喺溝通上都知道呢個雋景其	D
E	實知道你買錫線係愛嚟做乜,買錫條係愛嚟做乜嘅,雋景係知嘅?	E
F	答:我哋	F
G	主席:其實淨係買一樣咋嘛。淨係買一樣咋嘛。今朝	G
Н		Н
I	問:哦,你淨係買線?	I
J		J
K	主席:今朝問咗喋嘞。	K
L	李頌然先生:哦,係。	L
M	主席:係。	M
N	問:但係佢知唔知你用嚟做乜?	N
0	答:但知。通常我哋咁樣,我哋中咗個地盤之後嚟講,我哋就會做	0
P	submission,我哋就會要求嗰個 supplier 係提供樣辦。其實我個身都有啲相嘅,就係話我哋做個 sample board 嚟講,係由個supplier 去畀我哋。因為我同佢簽合約,呢個地盤係幫佢買料,咁	P
Q	但其實知道我每樣嘢係用乜嘢。同埋我會將我哋個合約嗰個 specification 係要啲乜嘢,我直情係 WhatsApp 或者係傳真畀	Q
R	佢,電郵畀佢,佢好清楚我呢個地盤所有合約嘅要求。	R
S	問:包括如果用喺食水嘅喉嘅焊接上面,佢哋都知道要用綠色呢一卷?	S
T	答:如果係有個合約裏面好 particular 去寫嘅,我哋都會遞畀佢。但係嚟講,就合約喺以往嚟講,就有 particular 去寫無鉛錫線呢樣嘢,	T
U	就係近呢幾年就多咗,以往係唔多。	U
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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	但係譬如,我哋都講過,雋景係賣一間小五金鳴 將所有嘅合約要求話畀佢聽。譬如我哋銅喉係要用咩嗎		C
D	熱浸鉛水、用電叻螺絲、用銅螺絲、用白鋼碼嘅時間,但定 304 呢?我哋全個要求我係電郵咗畀供應商,係通知	- 11 11 11 11 11 11	D
E	嘅要求。		E
F	問: 唔。好,簡單問你咁問,如果你話畀佢聽,或者佢知該 佢就知道一定用呢隻,係咪?	道係駁食水喉 ,	F
G	答:係。		G
Н	問:係,唔該晒。		Н
I			I
J	李柱銘先生:主席,如果我問咗嘅,已經有人問咗,勞煩仍 因為我今朝唔喺度。我代表啲苦主嘅,所謂。	r話聲畀我聽,	J
K	主席:照計咁呀唔得個喎,理論上。		K
L	李柱銘先生:唔係,你會提我你應該提唔係,		L
M	主席:即係我同你做埋你嗰啲嘢。		M
N	李柱銘先生: 唔係, 唔係, 唔係, 我即係想你我諗你會制時間。	削止我,唔好嘥	N
0	主席:哦,得。		0
P	李柱銘先生:係。		P
0	主席:制止你,我一定得。		0
Q	李柱銘先生:我只係要求你做一樣你鍾意做嘅嘢。		Q
R	主席:得,得。好,得,得。		R
S			S
T	李柱銘先生盤問		T
U	問:我想先有啲尷尬啲問你先,咁就係你今次就做專家證力		U
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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	答:係。		C
D	問:咁係水務署邊個人接觸你,請你出嚟做嘅?		D
E	答:水務署係有個工程師去接觸我,通知我,就話水務署想 係,第一個電話搵我嘅係助埋署長。	息邀請啊,唔	E
F	問:唔,咩嘢名?		F
G	答:林正文。		G
Н	問:你識得佢好熟相當熟,係咪?		Н
I	答:熟,因為我作為香港一個學會嘅主席嚟講,我都講過, 2009年已經係參加水務局	,我喺 2010 年	I
J	問:好。		J
K	答:嘅會議,同啲署長、助理署長經常係有開會嘅。		K
L	問:即係佢一開頭就係請你做專家證人,已經話明,係咪?		L
M	答:係,但口頭話畀我聽,但哋有個意圖想請我做專家證/ 拒絕,我話「如果有需要嘅話,我願意出嚟擔當嘅」。		M
N	問:佢有冇話畀你聽大概係希望你能夠講到咩嘢嘢?		N
0	答: 但最初就都同我講係都係要講一啲係業界嘅操作,同場 喉匠嗰個工作有啲咩嘢意見,都係呢類咁嘅嘢。	里我哋對持牌水	0
P	問:仲有呢?就係咁多?		P
Q	答:水務署嗰個條例嗰個執行嗰個譬如我哋報 form 內去解釋番成個業界嘅運作。即係頭先我哋畀□供所講嘅		Q
R	時間,我哋點樣去填。如果要修改,點樣去做,即係我 人聽,其實係咪可以修改,諸如此類咁嘅嘢。		R
S	問:你哋佢有冇因為你而家嘅口供紙係講咗好多嘢,	好多範疇。	S
T	答:係。		T
U	問:佢有冇預先同你講咗希望你關於所有呢啲範疇能夠係界	早啲專家意見,	U
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有有咁講?

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答:呢個真真正正畀一個 particular 嘅範疇我個時間,就係喺十二月, 律政署就出封信畀我,就話要求我就住六點去畀意見。但係其實喺呢 個畀意見之前嚟講,我就同水務局係有一個好緊密嘅接觸。

 \mathbf{E}

因為舊年 7 月就係發生呢個鉛水事件,水務署就會召集業界各個 唔同嘅持份者,或者有代表性嘅人物去水務署去進行一啲會議,去收 集一啲意見。其實喺嗰個時間嚟講,我哋係喺好多範疇都係反映咗好 多唔同嘅意見。當時嚟講,可能佢覺得我都接受咗好多訪問,佢有聽、 有睇,佢覺得我所講嘅嘢嚟講,可以就係話去代表番一個持牌水喉匠 究竟係做緊乜嘢去話畀公眾聽。

 \mathbf{F}

 \mathbf{G}

問:但係你嗰陣時係發表嘅意見,係咪透過電視、記者訪問嗰啲咁嘅嘢?

H

答:係。

I

J

問:點解你會做呢啲嘅呢?你目的係咩嘢呢,嗰陣時?

K

答:其實就我係有目的嘅。當時嚟講,就舊年食水含鉛爆到最犀利就係7 月初,我哋就喺7月8號嘅時間,我哋幾個會,同埋退休嘅署長高贊 覺,咁就--因為我哋點解會約高贊覺博士呢?其實我哋當時有五會召 集人, 佢係我哋五會嘅召集人嚟, 我哋就會诱過高博士, 就會召集各 個會嘅代表一齊去開會,討論一啲係同水務相關嘅事,包括係教育、 一啲係技術嘅推廣。

L

 \mathbf{N}

 \mathbf{M}

問:目的係咩嘢?

0

答:我哋嗰日開過會,就話想大家喺睇報紙,睇到原來有啲咁嘅鉛水事件 爆發咗出嚟,我哋個業界要自己去諗諗點解會爆呢啲咁嘅嘢呢?同埋 我哋點樣去面對呢?當我哋受到公眾質詢嘅時間,我哋係要點樣去回 應呢?

P

Q

因為大家都知,持牌水喉匠係--我今朝都講過,係有唔同嘅持份 者,有一啲嚟講,就真係好似調查委員會主席話齋,有啲就可以話唔 識英文嘅,但係有啲嚟講就係發表技術文章,好似 Joe Ku 嗰啲,佢 會將外國嘅沿用一啲比較先進嘅科技,喺啲--我哋啲學會,或者係商 會嘅期刊,就會發表出嚟畀我哋去睇,其實就水喉匠係有唔同 level。就算我哋五個會,亦都有唔同嘅代表,有啲係工會嘅代表、 有啲係學會嘅代表、有啲係商會嘅代表。

R

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Transcript by DTI Corporation Asia, Limited

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	點樣可以統一去發言,去答公眾嘅疑問呢?當時 大家喺度傾,佢就話「咦,發現原來我由十五歲開始	··-/ ·· · · · · · · · · · · · · · · · ·	C
D	最低層做到我今日坐喺呢個位,原來我可以識晒所有 不如就搵你去答喇咁。」當時就問我推唔推嘅,我話	嘅嘢,答晒喎,	D
E	能夠幫到業界,咪做囉」。所以當時就係五會就委任言人。	/ . — / /	E
F	問:即係係為業界發言,係咪?		F
G	答:當時係。		G
Н	問:當時係。業界,即係持牌水喉匠?		Н
I	答:包括埋。		I
J	問:仲有呢?		J
	答:我哋有五個會,或者我簡單		
K	問:唔係係,好,你講,你講。		K
L M	答:講一講我哋有邊五個會。咁就當時係英國特許水會、香港水喉潔具業商會、香港持牌水務專業學會、香 同埋呢個係香港水務專業協會。		L M
N	問:唔。係咪其實係同持牌水喉匠嘅工作相似或者一樣?		N
0	答:唔可以可以話係相關,唔可以話係相似。		0
P	問: 唔會唔相對嘅?		P
Q	答:我唔係好明你相對嘅意思?		Q
R	問:唔係,即係可能利益有衝突嘅,呢五個會?		
	答:其實睇下你用咩嘢角度去睇喇。		R
S	問:好簡單,我話畀你聽,因為你都知道,好早期政府已 咗去個水喉匠度,持牌水喉匠,你知道喫喇?	經將個責任就指	S
T	空云间小峡山及,扫牌小峡山,你知道味啊! 答:我知。		T
U			U
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V

A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	問: 咁呢樣嘢係咪令到你哋出嚟要講清楚嘅其中嘅或者最大嘅原因?	C
D	答:我覺得唔係,我記得就話我喺第一日,有傳媒訪問我嘅時間,佢問「水 務署或持牌水喉匠有責任,你同唔同意?」我當時我話係同意。因為 我哋喺法律上,我哋作為一個工地代表,同水務署溝通,而我哋亦都	D
E F	係法例上受予我哋係去建造、安裝呢個水務工程,我哋點能夠推卸我 哋法律上嘅責任呢?	E F
G	問:即係話當政府將個槍頭指住持牌水喉匠嘅時候,你覺得係啱嘅?	G
G	答:我哋唔好講啱唔啱,因為當時	G
Н	問:要負責吖嘛。你覺得水喉匠應該負責吖嘛。	Н
I	答:當時嚟講就係話水喉匠係必定有責任,我係同意呢個觀點。	I
J	問:必定有責任,等唔等如因此水喉匠如果做得唔好,啲水有鉛,就應該 負責?	J
K	答:如果喺無論係法制上或者合約上嚟講,佢都係有責任。	K
L	問:即係你覺得應該負責嘅?	L
M	答:應該負責。	M
N	問:Okay。咁樣,你以前就做過高鐵嘅工程,係咪?水喉匠嗰水喉嗰 方面,係咪?	N
0	答:係。	O
P	問:而家就西九?	P
Q	答:係。	Q
R	問:呢啲就係好大好大嘅 project 嚟嘅?	R
S	答:又唔算好大,因為你大嚟講,你係用乜嘢去 define 佢係大嘅。	S
Т	問:呢兩個都唔係大?	
U	答:其實嚟講,我做高鐵嚟講,我係喺裏面嚟講,將一條 1 米 48 毫米嘅水管做一個遷移工作,佢就係一般嘅水喉承辦商都係有做呢類嘅工	T U
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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	程, 但亦都唔知道相關嘅要求。而嗰類工程嚟講, 我哋就除咗要睇呢個香港水務設施條例、規例, 我哋亦都要睇水務署裏面有一本叫做	C
D	Mainlaying Handbook,嗰個手冊裏面就會話畀大家聽你要	D
E	問:再講過,main 咩嘢?	E
F	答:Mainlaying。	F
	問:Main,M-A-I-N?	
G	答:係。	G
H	問:Mainlaying。	Н
I	答:Mainlaying Handbook。一個就係話水務總喉嘅敷設嘅手冊,你要知道裏面嘅要求你先識做,大部分水喉承建商都有做呢樣嘢。	I
J	問:Okay。	J
K	答:但係因為我就比較接觸唔同嘅嘢多,我就願意去承擔去做。	K
L	問:係。	L
M	答:至於你話西九,其實西九都唔係話	M
N	問:咪住先,逐樣先,呢樣嘢你係咪使唔使投標返嚟嘅?	N
0	答:投標。	0
P	問:投標。有有佢有有邀請你去投標?	n
r	答:有。	P
Q	問: 佢邀請咗幾多個去投標, 你知唔知?	Q
R	答: 佢實際邀請幾多個, 佢唔會通知我。但係嚟講, 喺香港基本上嘅總承	R
S	建商嚟講,佢哋都唔會搵一個人求其攞張報價單就去做,呢個係 common practice。	S
T	問:即係要點樣?即係要好詳細,做好多工夫,準備?	T
U	答:係。	U
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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	問:然後就入嗰個 tender,係咪?	C
D	答:係。	D
E	問:Okay。好嘞,西九呢?西九咪住,你西九	E
	答: 唔係,我先回應咗你乜嘢叫大先。	
F	問:好,okay唔係,好簡單,嗰個 project 幾多錢?	F
G H	答:咁喺第三個 project 嚟講,我個 project 嚟講係四百幾萬嘅啫,只 不過係少人做過。	G H
	問:高鐵就四百幾萬?	п
I	答: 係, 咁	Ι
J	問:但係你講「四百幾萬嘅啫」,即係你覺得四百幾萬係好細嘅工程,係	J
K	咪?Okay。	K
L	答:如果以我哋公司嚟講,我哋用 contract sum 去 define 佢大定細, 我覺得佢係細。	L
M	問:唔,okay。	M
N	答:就算以西九嚟講,我水喉嚟講,淨係水喉個 contract,我係二千九 百萬,喺我嘅睇法都唔係大。因為隨便一個 housing contract 嚟	N
O	講都係八千萬以上,咁你點能夠話我哋係比較大呢?大係點去 define呢?就我要大家有唔同嘅定義先囉。	0
P	問:咁你呢,你自己點樣嘅?	P
Q	答:吓?	Q
R	問:即係你覺得	R
S	答:即係我覺得佢大唔大,我唔覺佢大。	S
Т	問:你唔覺得大。嗱,	Т
	答:只不過係工程係比較有複雜性,有代表性。	
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V	Transcript by DTI Corporation Asia, Limited	V

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	問:好明顯,你喺呢個行業就係即係頂級嘅。		C
D	答:唔好咁講。		D
E	問:咁都係有好多嘢你都大嘅,嗰啲 main 嗰啲 laying 份咁多人識做。	r都識做,唔係	E
F	答:或者我有涉獵,我睇得比較書多。		F
G	問:係。一個譬如譬如嗰啲水喉匠嚟講,普通嘅水喉匠, 文都唔識嚟,係咪?	你都話有啲英	G
Н	答:係有嘅。		Н
I	問:嗰啲佢唔會一定呢啲咁嘅大 project 投唔到,唔敢喇?	坟添喇,一定 係	I
J	答:又唔可以咁以偏概全,因為而家喺香		J
K	問: 唔識英文都可以去投到?		K
L	答:喺香港嘅制度嚟講,有部分嘅總承包商嚟講,佢哋就會 宇裝備工程師,聘用持牌水喉匠,咁就係判畀一啲三一		L
M	嘅公司去做。因為佢自己有足夠人力去規管。		M
N	問:但係如果係嗰啲做水喉嘅工作,即係你自己用手用腳去時係好多時係做日工唻咋,會唔會?	云做嗰啲,係有 ————————————————————————————————————	N
0	答:會。		O
P	問:係。所以有啲就做老闆,有啲係做日工,都係持牌水嘅 以相差好大。	吴匠,係咪? 所	P
Q	答:可以咁講。		Q
R	問:如果做日工嗰啲,每日有幾多錢?		R
S	答:其實我頭先都講咗,喺我個口供裏面講,就話其實真正嗎		S
T	係從事日工係非常之少,呢個係事實嚟。因為佢既然搭 匠個資格,佢一般嚟講就得兩類人,一種就係我哋所講 事,Joe Ku,或者我哋學會啲 member。佢哋坐喺個	请 係屬於監管人	T
U	engineering 嘅 company 裏面,去做一啲 plumbin		U
v	- 108 - Transcript by DTI Corporation Asia, Limited		V

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	問:即係佢唔想自己親自落手做?		C
D	答:可以咁講。		D
.	問:就當然喺法例上係咪真係要佢親自落手做,呢啲我唔同份	尔辨論,係咪?	
E	答:嗄。		Е
F	問:因為已經有人問過,okay。一個持譬如開一間水喉	舖仔,係做啲	F
G	街坊生意嗰啲,一個月大概收入會幾多?		G
Н	答:呢個我有深究。		н
I	問:你有深究。你唔知照講得嚟,唔緊要。		I
1	答:係,我有深究。		1
J	問:就大嗰啲,你又唔知?		J
K	答:我只能夠知道我自己公司嗰個成本效益,同埋我哋每年		K
L	contract。我哋因為其實做工程嚟講,好似我哋呢 程合約嚟講,我哋係有好多先決條件。就係第一,就係		L
M	技術可以做到之外,你仲要客觀因素,就話你個 fina 以 support 你去做一啲咁大嘅工程,係好多考慮喋嘣		M
NI	你唔能夠即係話 support 到你成個工程裏面		N.T.
N	payment。因為我哋大家知,我哋做工程係		N
0	問:當然喇。		O
P	答:先買料,先做咗,再 apply。你 support 唔到,你	r根本做唔到。	P
Q	問:啱。但係我哋知道香港嘅建築業,就係嗰個 contract 去 sub-contractor,甚至一路落,我哋都唔知去到		Q
R	架喇?		R
S	答:外面行頭我有聽過,但係我自己公司可以咁講,我係 條呢個 1995 年成立,到今年係第二十一年,我哋真正		S
	去判畀判頭做,係由幾時開始呢?我哋係由 08 年係第		S
T	界個判頭,係淨人工,連螺絲都我買畀佢嘅。		Т
U	問:即係淨人工,okay。		U
V	- 110 - Transcript by DTI Corporation Asia, Limited		\mathbf{v}

A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	層面出發,我哋呢一件案件裏面,實際上得三個持牌水喉匠,伍克明 就同有利係明合打工嘅;張達欽,就係自己係老闆嚟,係咪?另外	C
D	林德深,我哋知喇,唔使再講,係咪?所以其實實際上,即係呢三個 持牌水喉匠佢哋嘅身分,同你而家 exactly 要問嘅問題,其實就冇	D
E	乜	${f E}$
F	李柱銘先生:我可以	${f F}$
G	主席:直接關係。	C
Н	李柱銘先生:唔係,我即係話一話畀你聽,點解我咁問呢?因為雖然你哋嘅 terms and reference 就好清楚,但係第三嗰個係全香港嘅,廣泛好多。第三嗰個,你個 terms and reference 第三嗰個。	Н
I	主席:係,係,係。	I
J	李柱銘先生:係,所以變咗唔係淨係呢三個。	J
K	主席: 唔係, 我明, 但係即係我想你因為點解?你而家問緊持牌水喉匠。	K
L	李柱銘先生:係,係。	L
M	主席:持牌水喉匠當然有成功嘅例子,	M
N T	李柱銘先生:係嘞。	
N	主席:亦都有唔係好成功嘅例子。	N
0	李柱銘先生:係嘞。	О
P	主席:因為如果我哋記得何文係咪何文標呀?何文標先生都講過,何標 記裏面都有幾個持牌水喉匠其實係做大工嘢喋咋嘛,係呀。	P
Q	李柱銘先生:其實佢可能需要我可以可以轉過第二個 topic 嘅。	Q
R	主席:係,係,唔。	R
S		S
T	問:Okay。你都話你自己雖然好少,但係你都有兩次係畀啲判頭做,係咪?	T
U	答:係。	U
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問:你同唔同意? \mathbf{U}

個 per cent。我--係,兩個 per cent,我--0.2。我總之就係一 千萬嘅工程,我就大約係會買呢個係兩萬零紋嘅焊料。其實我哋喺地 盤嚟講,好多時就話當我哋 award 一個 contract 嘅時間,當我哋 bid 一張標, 喺 interview 嘅時間,因為而家啲--政府嘅均真啲, 或者 Housing 就唔會話落完標之後約你去--嗌你再減價。其實喺私 人承建商嚟講,由 first interview 到到 last interview,可 能已經減咗三、四次價,你都唔知減咗幾多個 per cent,你點會為 慳嗰雞碎咁多走去用啲唔啱規格嘅嘢。

問:就係因為要減到咁多 per cent,可能佢就係要說計嘞,係咪呢?

主席:唔係,唔係,應該咁樣樣講,應該咁樣樣問,我哋其實知道嘅,有 一、兩個呢個水喉嘅分判商,佢哋接咗呢啲房署呢啲咁嘅job返嚟, 每一個單位,實際上佢哋要連工包料,包料嘅意思即係唔係包嗰啲大 嘅料,即係包嗰啲焊料諸如此類,咁就係基本上佢哋就逐個單位計 嘅,每個單位幾多錢話?好似3,000 紋,3,000 紋,即係唔包天面、 唔包外牆,淨係包裏面,3,000 鈫個,連工包料,包晒所有啲焊料, 包晒所有嗰啲小五金,雖然嗰個水喉,譬如好似啟晴邨嗰個 contract 好大,五千二百幾萬,假設啫呢啲,係咪?但係視乎每一個單位,你 去到畀嗰個所謂三沙,就係得 3,000 鈫一個單位。

咁 3,000 紋一個單位,我哋聽到有一位先生就話做完之後係得 個桔,係咪?你得個桔嘅時候,你嗰個--當然你同何文標先生講,佢 梗係大雞就唔會食細米,係咪先?呢啲咁嘅對佢嚟講,根本都唔係錢 嚟嘅,慳嗰少少,係咪先?不過你見到--譬如好簡單,我哋見到有一 位先生,但其實而家都係做番水喉工人,因為佢曾經接過呢一個咁嘅 屋邨,做完之後原來發覺得個桔。

我諗李大狀嘅意思就即係喺呢啲咁嘅水喉分判商嚟講,對於你嚟 講,當然焊料唔會係一個你認為需要慳嘅項目,但係對於嗰啲--你都 知喇,房署嗰啲項目好話唔好聽,睇下你經濟好抑或唔好嘅時候接嘅 啫,係咪?你經濟唔好嘅時候,唔係講緊 at cost 去接番嚟,可能 係 at cost 再減 10 個 per cent、20 個 per cent 去接番嚟,即 係蝕硬噪喇, 睇下你蝕幾多嘅啫。

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Transcript by DTI Corporation Asia, Limited

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	李柱銘先生:係喇。		C
D			D
E	問:或者籠統啲講,所以做呢個行業,就嗰個成個唔可以 喎,啱唔啱呀?	以話個個都掂僳	E
F	答:好似我自己咪係一個唔掂嘅水喉佬囉。		F
G	問:收屘掂,今日好掂添。		G
Н	答:可以咁講,其實就話做嘢嚟講,你堅唔堅持啫,我喺 20 我喺個行頭嚟講,有個花名嘅,叫做坎坷的水喉佬,因 做嘅,又蝕嘅,搵親你就周身冇鈫嘅,其實你自己點樁	因為做親都唔夠	Н
I	問:而家最終你都西裝筆挺,係咪?你成功喇,恭喜你,。	kay。好喇,我	I
J	就問你第二啲。其實呢單咁嘅鉛水係舊年 7 月爆出嚟 好驚奇?	,你嗰陣時係咪	J
K	答:有少少驚訝。		K
L	問:即係你預先有諗住會出事嘅,係咪呀?		L
M	答:當時我就以為有個屋邨就出咗事,其實我淨係知一樣嗎 爆發咗啫,當時我就會假設大部分人都係知法守法嘅;	4 47 2 174 774 114 744 71	M
N	會喺幾個會坐埋,就話「喂,有啲害群之馬出咗事喎	,我哋點樣去維	N
0	護我哋持牌水喉匠同埋整個業界嘅聲譽,點樣去對外之 實我哋當時點解會坐埋去開會,就係為咗呢件事。	公講嘢呢?」 具	0
P	問:即係為咗大家奉公守法嗰啲水喉匠嘅利益,呢個係好嘅 法喋嘛,所以就等社會人士就唔好以為個個水喉匠持		P
Q	咁嘅, 係咪?所以就要高姿態出嚟見啲傳媒。 答: 係。		Q
R	問:我明白,okay。咁樣,你就話 2000 年就知道唔應該用	右纵俯悍拟廊,	R
S	你今朝講。	<i>─── </i>	S
T	答:係。		T
U	問:即係我唔喺度,有人話番畀我聽,係咁吖嘛?		U
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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	答:係。	C
D	問:好喇,但係你知唔知道點解焊料唔可以有含鉛呢?	D
E	答:當時我有去深究嘅。	E
F	問:你唔知?	F
	答:因為我哋係根據嗰個水務署嘅嗰個水務設施嗰個規例嘅要求,同埋嗰 個供應商所畀我哋個 catalogue 裏面會有指明就話如果你係 BS EN	_
G	1057,你就需要用一啲無鉛嘅焊料、無鉛嘅焊膏,我哋喺 catalogue 睇到嘅係。	G
Н	問:喺嗰陣時你睇到呢個 catalogue 嘅時候,你知唔知道市面係有啲含	Н
I	的·嗡响阵的协助呢间 Catalogue 赋时候,你和哈和鱼们面然有吻合。 鉛嘅焊料?	I
J	答:其實我入行已經知有,只不過係你揀用乜嘢之嘛,但係因為我喺 94 年開始公司已經轉用咗呢種物料嘅時間,我亦都唔會特別去探討究竟	J
K	點解有呢個轉變,因為我已經用咗好多年。	K
L	問:你講係入行嘅時候係幾時?	L
M	答:我入行,我最初我喺消防公司學師,我喺 1972 年喺大德(譯音)工程公司,喺 1973 年就喺協成(譯音)防火公司。	M
N	問:即係所謂真係入行係邊一年呢?簡單得喫喇。	N
O	答:如果你講水喉行?	O
P	問:係。	P
Q	答:正式嚟講,係73年	Q
	問:73年,okay,你話94年你公司就轉咗,係咪?轉咗啲焊料?	
R	答:轉咗用呢隻焊料。	R
S	問:以前係點嘅呢?	S
T	答:以前我哋都係去買啲錫條返嚟自己煮囉。	T
U	問:即係以前都有含鉛嘅?	U
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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C			C
D	主席:含鉛嘅。		D
E	李柱銘先生:以前含鉛嘅。		E
F	主席:係。		F
	李柱銘先生:後嚟就轉咗唔含鉛喇。		r
G	主席:係喇。		G
Н	李柱銘先生:Okay。		Н
I			I
J	答:其實我唔係因為佢含鉛定唔含鉛去轉嘅,		J
K	→ 床 · <i>与</i> 田		K
L	主席:好用。		L
M	黎先生:方便。		M
N	主席:方便。		N
0	答:我今朝已經講咗,就係話我發覺呢種咁嘅焊料係表 一個唔需要有技術或者係好多訓練嘅人,或者李大狀。		0
P	仔,我可以咁講,一個細路仔,十零歲嘅,佢有足夠 只要教佢半個鐘頭,佢就識用嚟喇。	既體能嚟講,我	P
Q	問:我就耐啲嘅。		Q
R	答:所以我見佢好用,咪用佢囉。		R
S	問:即係用咗嗰隻唔含鉛嘅,反而好用?		S
T	答:徐喇。		T
U	問:但係頭先你講,就話當你同嗰啲		U
V	- 119 - Transcript by DTI Corporation Asia, Limited		v

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C			C
D	石先生:我諗今朝我哋問問題嘅時候,就有去到問佢 94 年 即係內裏含咗啲已經內設焊料嗰隻錫曲裏面嗰啲係含		D
E	主席:係咪含鉛。		E
F	石先生:應該係有探討到呢一個問題,我嘅記憶。		F
G	李柱銘先生:好,唔該。		G
Н	主席:好。		Н
I	李柱銘先生:多謝石大狀。		I
J	問:即係 94 年嗰陣時,你公司就唔知咩嘢原因就轉咗喇:	?	J
K	主席:唔係唔知咩嘢原因嘅,知道原因嘅。		K
L			L
M	問:即係知道唔應該用嗰隻含鉛嘅,所以就轉		M
N	答:唔係,唔係。		N
0			O
P	石先生:好用。		P
Q	李柱銘先生:好用。		Q
	主席:都唔係嘅,唔係嘅。制止你,呢方面唔好問喇。		
R	李柱銘先生:即係好用。		R
S	石先生:係有個 sales 話畀佢聽平啲同埋好用啲。		S
T	主席:制止佢唔好問喇。		T
U	講者(不能辨別):Sales sell佢。		U
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A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	李柱銘先生:係,sales。	C
D	講者(不能辨別):Sales sell佢。	D
E		E
F	問:Okay,好喇,但係你頭先講,你話要公眾教育,頭先晏晝我都聽到你 講,你就話你同嗰啲同行講嘅時候,有啲人仲鬧你喎,係咪呀?	F
G	答:有。	G
Н	問:點解佢鬧你呢?因為佢覺得含鉛嗰啲好用,係咪呀?	Н
I	答:我唔知點解佢會咁樣講,亦都就係話佢當時因為我都講,如果你唔 係正途出身,係受一個正式嘅訓練嘅話,喺外面嚟講,嗰啲水喉工人 嚟講,有啲係喺 CIC 受訓,有啲 IVE 受訓,但係亦都有啲係完全冇	I
J	受訓啤喎,而家嘅水喉工人,就佢喺入行,就話一入行就喺間水喉公司跟住個師傅,個師傅點做,佢就照辦煮碗,佢唔知係乜嘢嚟啤喎。	J
K	問:咁即係師傅用咗有鉛嘅,佢就跟住有鉛囉喎?	K
L	答:佢唔會有人話畀佢聽有鉛、無鉛嘅分別,	L
M	問:佢唔知吖嘛。	M
N	答:但係嚟講,佢話好用,其實我覺得大家最重要係大家有冇去現 場睇過實例,究竟如果用有鉛嘅焊料同無鉛嘅焊料有咩嘢分別,唔知	N
O	大家有有睇過。我自己由 72 年入行到而家,我所眼見嘅,用呢個無	0
P	問:有鉛	P
Q	答:因為佢嗰條焊條就好粗嘅,即係你都知我哋喺室內做嗰啲喉嚟講好	Q
R	細,就係 22 mm 或者係 28 mm 嘅,你揸住條咁粗嘅焊條嚟講,就好 容易滴到一地都係嘅,當佢熔嗰陣時。	R
S		S
T	主席:你講邊啲好粗嘅,你講錫條	T
${f U}$	答:即係含鉛呢啲。	U
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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C			C
D	黎先生:早期。		D
E	答:即係好似呢啲咁。		E
F	主席:你講最早期呢啲,抑或呢啲咁		F
G	答:呢啲都係粗過呢啲不含鉛嘅錫線嘅。		G
Н	主席:都唔係好粗啫。		Н
I	答:我哋早期嗰啲好粗喋。		I
J	主席: 唔係, 我知你講好早期要		J
K	答: 係喇,如果你買 50 力,其實係好粗嘅,粗過呢啲嘅,	50 力。	K
L	主席:呢啲咪 50 力囉。		L
M	答: 唔係,50 力嗰啲呢條係 50 力嚟嘅咩?因為我見至自己未買過,我未見過,我喺相見到佢好似係四方一個話咁粗嘅嚟講,咪嘥		M
N	主席:唔係,呢條就係 50 力嚟嚟喇。		N
0	答:哦,呢條就係 50 力,我未見過,唔好意思。		o
P	主席:唔係。		P
Q	答:因為我公司淨係得呢樣嘢,所以我未見過真正嘅 50 力 到嘅。	力,我都喺相見	Q
R			R
S	問:我哋而家唔係推銷畀你。所以你而家會明白喇		S
T			Т
U	主席: 唔係,所以其實你可能係你因為你過往個 exper:	ience,就認為	U
v	- 122 - Transcript by DTI Corporation Asia, Limited		V

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	多分鐘,如果含鉛嘅又幾多分鐘,其實我唔覺得係事質	實嘅全部。	C
D			D
E	問:但係你都係即係問番你自己啲伙記?		Е
	答:我有去睇喋嘛,亦都		_
F	問:但係肯定係平啲喎?		F
G	答:平唔平呢個,因為我哋 so far 嚟講		G
Н			Н
I	主席:呢個唔需要問,Mr Lee,呢啲		I
J			J
K	問: 唔係, 你知嘅, 係咪呀?		K
L	答:我有去深究,因為我一路嚟講,就話我既然確認咗呢樣都喺之後嚟講,我哋知道水務條例要用嘅,我點會用嘅		L
M	問:你就算係合法嗰啲係貴好多,你都照用合法嚟喇?		M
N	答:當然係要喇。		N
0	問:係,okay,okay。		
0	答:我頭先都講咗,就話我哋去做一個水務工程,甚至乎-	一粒螺絲我哋都	О
P	做 submission 嘅,外面有位記者朋友都上過嚟我哋沒有幾千尺嘅,喺我哋個倉裏面求其地下踢到一粒螺絲		P
Q	牌子,有個 BS 打喺度嘅,只不過係你自己做緊乜嘢嗎	予之嘛。	Q
R	問:好喇,佢哋鬧你,啲人鬧你,因為你就話佢哋唔應該用 佢哋鬧你,你點駁佢呢?	的有鉛嘅焊料,	R
S	答:我唔		S
T			T
U	主席:呢啲對唔住,真係,我要制止,呢啲同佢個 exp	ertise、同佢	U
V	- 124 - Transcript by DTI Corporation Asia, Limited		V

A	食水含鉛超標調查委員會 2016年2月19日	A
В		В
C	嘅 opinions 完全有關。	C
D		D
E	問:但係你頭先就講,你最近喺瑪麗醫院嗰度就有三個人係睇住,嗰三個 係邊度嘅?水務署?	E
F	答:水務幫辦嚟嘅,因為當時我報咗一個 part IV 嘅 partial completion,就話有三層樓嘅喉我哋係做喺啲石膏板裏面。	F
G	問:得,okay,okay。呢個事發之前,即係舊年 7 月之前,你做工程嘅 時候,有冇見過咁多人落嚟睇住做?	G
Н	答:以往嚟講,	Н
I	問:有定冇?	I
J	答:有陣時係一個,有陣時係兩個,亦都試過有三個嘅。	J
K	問:水務	K
L		L
M	主席:水務幫辦喎?	M
N	答:係呀。	N
O		0
P	問:水務幫辦睇住你做?	P
Q	主席:睇住你做?	Q
R	答:唔係,係嚟驗收,佢唔係嚟睇我哋做,係嚟驗收。	R
S	主席:哦,嚟驗收。	\mathbf{S}
T	答:因為當時我哋係報咗 part IV 嘅 partial completion,係話畀	Т
\mathbf{U}	佢聽我有三層樓就將會係封石膏板,喺封石膏板之前,所有 conceal 嘅 piping,我哋要求佢嚟做視察嘅。	U
T 7	- 125 -	

V

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	主席:但係呢啲 interim inspection 啫?		C
D	答:係喇,因為我哋層層樓都有工人做嘢嚟嘛,佢嚟到就好	子有興趣囉。	D
E			E
F	問:所以你真真正正做緊燒焊嘅時候,以前就佢哋有你未 人嚟睇住嚟嘛,啱唔啱呀?	€佢未試過派	F
G	答:我首先澄清先,我唔係叫佢嚟睇我啲人燒焊,我係做inspection,我係入咗張 form,要求佢嚟做 inspe	** *	G
Н	問:哦,你要求佢嚟做 inspection?		Н
I			I
J	主席:有呀,Mr Lee,長話短說,就係有嘅。		J
K	李柱銘先生:Okay,得。		K
L	主席:因為 even 根據 Mr 簡自己講, 佢都認為水務署係唔幫	需要嚟監管嘅。	L
	李柱銘先生:Okay,係,okay,得,多謝。		
M			M
N	問:我哋頭先講咗咁多,所以好明顯地,雖然你就堅持就完 啲含鉛嘅,但係可唔可以話,照你自己嘅理解,你個行	7.5	N
0	人唔係學你咁樣守法嘅,係用啲有鉛嘅焊料,你知道嘅	• • • • • • • • • • • •	0
P	答:或者換一個說話去講,喺我個認知裏面嚟講,大部分 守法嘅,所以頭先你係問我當香港發生食水含鉛事件嘅		P
Q	覺得驚訝,我係覺得驚訝嘅,點解會爆發啲咁嘅嘢出啷	家,因為呢啲嘢	Q
R	都唔值錢,點解有人會偷工減料會用啲咁嘅嘢。其實我電話去問商會、學會啲行家,「喂,點解會有啲咁嘅嗎		R
S	竟發生咩嘢事呀?」我係實際驚訝嘅當時。		S
Т			Т
	主席:因為可能你已經上咗去另一個更高嘅層次囉,你明明有錢嗰啲同我哋比又已經差好遠嚟喇嘛,你知唔知呀?	_ , , , , , , , , , , , , , , , , , , ,	
U	你睇下你幾有錢囉,你做生意都係哰,你做生意嘅 le -126-	evel 已經唔同	U
V	Transcript by DTI Corporation Asia, Limited		\mathbf{V}

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	西喇嘛。		C
D	答:其實我覺得係一個商業行為嚟講,錢雖然係重要,但係	Ŕ	D
E	主席:即係理論上就應該你有你嘅做行商嘅操守,專業操气	下,係咪先?	E
	答:係喇,啱呀。		
F G	主席:不過個問題就係當你有經濟壓力嘅時候,我哋都見唔邊, High Court,係咪?	5少喫喇,喺嗰	F G
Н	答:其實我都有噪。		Н
	主席:攞啲假單去申請 loan,跟住喺度係咁轉轉轉,都唔	係 有見過吖。	н
I J	答:我頭先都講過,就話喺 2000 年嘅時間,我喺行內嚟請 坎坷的水喉佬噪,嗰陣時我搞到係賣樓、賣舖咁去支援		I J
K	主席:係囉,exactly。		K
L			L
M	問:咁你都有樓賣。所以頭先你講,你話大部分嘅人都應該 呀,應該呀,但係問題就未必係好多人都奉公守法,呢 嘛,係咪?		M
N	答:當時喺我嘅思維裏面嚟講,係大部分人都奉公守法嘅,	去到今時今日	N
0	嚟講,就話我所聽番嚟嚟講,係大部分人佢哋都以為自 因為佢哋用咗英國焊料。	1己奉公守法,	0
P	問:哦,佢以為英國焊料,跟住我哋用 BS,佢諗住有錯, 明白。	okay, okay,	P
Q			Q
R	李柱銘先生:主席,對唔住,因為我要慢慢睇番嗰啲 sequ	ence °	R
S			S
T	問:好喇,我想問你,而家啲鉛水,我哋大家知道有鉛水氨 水喺水喉裏面經過嘅時候,就變咗有啲鉛就溶咗落啲水		T
U	喉開出嚟,嗰啲市民咪受影響,你而家知道喫喇?		U
V	- 127 - Transcript by DTI Corporation Asia, Limited		V

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	答:知。		C
D	問:當然係同嗰啲人手工好有影響嘅,係咪呢?即係手工好 有有分別嘅呢?	,同手工唔好,	D
E	答:其實呢個最早喺傳媒去講呢樣嘢嗰個係我嚟嘅,正正例	条,咁	E
F	問:咁啱喇,有個專家喇係。		F
G H	答:當時就傳媒話因為係用咗啲不當嘅焊料,所以就釋出力 到個食水污染,我話其實係兩方面去睇,第一方面就係 一啲唔合規格嘅物料,而引致到係釋出呢個係比較多嘅	於話佢用咗真係	G H
I	但她手工好,呢啲焊料完全係冇流入去個喉管個內籠啄 接觸面嚟講,係不足以係影響個水質嘅,當時我係咁請 電台、電視,我都係咁講嘅。		I
J	問:會唔會因為個手工做得唔好,係會多咗鉛入咗去?		J
K	答:肯定喇。		K
L	問:肯定,okay,即係如果佢請嗰啲工人唔係咁熟手,就好呀?	子杰噀喇,係咪	L
M			M
N	主席: 係吖, 啱吖, 我都睇過佢有一次電視上高講嗰啲, 你 咪?	r都係咁講,係	N
0	答:係。		0
P	主席:你懷疑嗰啲工人係直情冇受過訓練吖嘛?		P
Q	答:係呀。		Q
R			R
S	問:好喇,我差唔多問完嚟喇。而家有啲意見,我簡單啲, 而家呢啲鉛水發生,就應該主要嘅責任就係負責啲工 匠,你同唔同意?	, , , , , , , , , , , , , , , , , , , ,	S
T	答:主要承擔責任嘅係持牌水喉匠,我係絕對同意嘅。頭外	- 我	T
U	牌水喉匠喺法制上面,佢係容許佢作為一個係建造同場		U
v	- 128 - Transcript by DTI Corporation Asia, Limited		V

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
С	個工程,當佢簽咗張 from WWO46 嘅時間,佢中英文都 係願意去承擔個責任,係保證呢個工程係用適合嘅物料		C
D	條例去安裝嘅」。		D
E	問:Okay,但係頭先你又講過,因為好多人就以為係英國等 嘢、有問題,你講過噪嘛?	製造嘅,所以正	E
${f F}$	答:係。		F
G	問:呢個即係 50 力,係咪呀?係咪即係 50 力?		G
Н	答:可以咁講。		Н
I	問:咁樣嘅時候,係咪即係佢哋啲工人都未曾有充分人教任	三哋呢?	I
J	答:我頭先都講		J
K	主席:唔係,對唔住,我唔係好明你講咩嘢。		K
L			L
M	問:即係唔夠教育,唔夠話畀個行業聽 50 力雖然話英國家睇電視都話有啲話德國牌,又德國嘅,原來唔係德國		M
N	咕嘅嘢喇嘛。	3.0 3.0 3.0 3.0	N
0	主席:全世界都有,其實,祖國都有,唔係話英國 50 力。 景周先生所講,最初基本上就係內地添用,只不過後		0
P	國,咁英國,咁所以叫英國 50 力啫。		P
Q	問:咁公唔公平呢?我而家咁講法,因為好多人用呢啲有鉛		Q
R	力,可能佢真係以為買英國貨,跟住我哋香港咩嘢都!		R
S	答:所以我喺我個專家證人報告都講,就話如果要一個制度 我哋首先要從呢個教育著手,畀公眾去知情,知道乜嗎		S
T	為之錯,都話喇,而家譬如我喺啲大學去請啲 grad. E grad. 嗰啲嘅,我都會第一件事佢嚟到我公司,我會教	汝佢「你只要打	T
U	三個英文字"WSD",就可以入到水務署嘅網頁, engineering裏面,你就可以搵到所有相關水務嘅要 - 129-		U
V	Transcript by DTI Corporation Asia, Limited		V

仔成長有問題,幾時至知?

S

答:我係喺鉛水爆發之後嚟講,因為我喺7月8號喺灣仔就畀傳媒圍住我 就做訪問,當時我就一路都係堅持我嘅立場,如果所有嘅嘢係跟正水 務條例去做,你 submit 嘅嘢係已經喺水務局個 approval list 裏 面嘅,你用佢係絕對唔應該有危險唻,但係嚟講,我就覺得既然有咁 多人問鉛水嘅嘢,我就應該要知道鉛水係啲乜嘢,所以當晚我就即刻

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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C			C
D	下午 4 時 09 分聆訊押後		D
E	下午 4 時 26 分恢復聆訊		E
F	出席人士如前。		F
G	王先生: 主席, 我哋跟住傳召水務署嘅副署長黃仲良先生	0	G
Н	主席:好。		Н
I			I
J	水務署第四證人:黃仲良(水務署副署長)以本地話宣誓作 王先生主問	乍	J
K	問: Mr Wong, you have filed three witness sta	tements for	K
L	the purpose of this enquiry		L
M	主席:中文定英文呀?		M
N	王先生:中文,中文,中文。		N
0			0
P	問:你就入咗三份嘅證人口供,我而家就會將你嘅證人口係 中間你有啲乜嘢想修改或者想係補充嘅,你响讀完£		P
Q	份,讀完之後你就話畀我知,好唔好?		Q
R	答:(沒有可聽到的回答)		R
S			S
T	COMMISSION OF INQUIRY INTO EXCESS LEAD FOUND WATER APPOINTED PURSUANT TO SECTION 2 OF THE		T
U	OF INQUIRY ORDINANCE (CHAPTER 86) ON 13 AUGUST	2015	U
V	- 132 - Transcript by DTI Corporation Asia, Limited		\mathbf{v}

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WITNESS STATEMENT OF WONG CHUNG LEUNG

- D I, WONG Chung Leung, Deputy Director of Water Supplies of $48^{\rm th}$ Floor, Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong, do say as follows:-
 - 1. I am the Deputy Director of Water Supplies and have held this position since 8 April 2015. My duties include, amongst other things, deputising the Director of Water Supplies in the management and operations of Water Supplies Department ("WSD") and general functions as delegated from time to time by the Director.
 - 2. I make this Witness Statement pursuant to the request of the Commission of Inquiry into Excess Lead Found in Drinking Water ("the Commission"), conveyed in a letter from Messrs. Lo & Lo to the Department of Justice dated 12 October 2015 ("the 12 October Letter"). Save where otherwise appears, the facts deposed hereto are within my personal knowledge or are derived from office files and records and sources to which I have access and are true to the best of my knowledge, information and belief. Save as otherwise specified, this Statement adopts the same abbreviations and nomenclature as in the 12 October Letter.
 - 3. This Witness Statement addresses paragraph il (in so far as paragraph s 51 and 52 of the August Statement are concerned) and paragraph ii of the 12 October Letter:-
 - "il. a Statement on Water Supply System in Hong Kong and Monitoring and Control of Water Quality has been submitted to the Commission on 20 August 2015 (the "August Statement"). The Director should provide a signed witness statement to cover the matters set out in the August Statement. If he wishes to elaborate, supplement and provide additional information on the areas and topics covered by the August Statement, he should do so in

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the witness statement

the WSD Task Force

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ii. Deputy Director of Water Supplies/Chairman of D

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WSD 1. Task Force has announced preliminary findings on 25 September 2015 Preliminary Findings").The Director, being the Chairman of the Task Force, should provide a signed witness statement to adduce the TF Preliminary Findings evidence, if he wishes to elaborate, supplement and provide additional information on the areas and topics covered by TF Preliminary Findings, he should do so

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in the witness statement;

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according to the official Press Release 2. issued by the Task Force on 25 September 2015, the Task Force "aims to issue the final report in October". Please include and adduce the Final Report by means of the witness statement (if already published by the deadline

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stipulated below [i.e. 26 October 2015])"

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The Development Bureau has on 15 July 2015 commissioned the WSD Task Force on Investigation of Excessive Lead Content in Drinking Water ("WSD Task Force") comprising government officials, and outside academics and experts to, inter alia, ascertain the causes of the recent incidents leading to presence of lead in water drawn by households and recommend measures to prevent recurrence of similar incidents in future. appointed as the Chairman of the WSD Task Force and hence, I have direct knowledge to give evidence in relation to the matters set out in paragraphs 51 and 52 of Chapter 5 of the August Statement. I am duly authorized by the Director to cover in this Statement paragraph il of the 12 October Letter (in so far as the said paragraphs 51 and 52 are concerned).

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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C		the said paragraphs 51 and 52 of the nd Annex II thereto and hereby confirm	C
D	-	thereof are true to the best of my	D
E	-	d under paragraph ii of the 12 October	E
F	"Annex I" a printe	ow produced and shown to me marked as d copy of TF Preliminary Findings (in announced on 25 September 2015 [CoI	F
G	Ref: Bundle CS Ite	-	G
Н	7. As stated in	n the TF Preliminary Findings,:-	Н
I	(a) the Ta	sk Force concluded, inter alia, that:-	I
J		Leaded solder joints installed in the inside service were the source of excess	J
K		lead in drinking water in Kai Ching Estate and Kwai Luen Estate Phase 2.	K
L		Copper alloy fittings also leached lead but did not result in 2 excess lead in	L
M	(drinking water.	M
N	incide		N
0	recomm	nended: -	o
P	,	an enhanced system for site inspection and testing during construction of	P
Q		plumbing works: Qualified persons (e.g. Building	Q
R		Services Engineer/Building Services Inspector) to carry out adequate	R
S		field inspection on the plumbing works;	S
T		- Conduct systematic non-destructive	T
U		test to soldering joints during construction (e.g. quick lead test or -135-	U
V	Transcript by DTI Corporation As		V

A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
С		x-ray forensic spectrometer);	C
D	<u>-</u>	- Arrange random sampling and testing of soldering materials delivered to site;	D
E			E
F	-	- Stipulate the testing of four additional heavy metals (lead, chromium, cadmium and nickel) for	F
G		water samples and testing of solder joints samples in newly completed	G
Н		inside service by Authorized Person and Licensed Plumber.	Н
I	(ii) t	the Water Authority to explore the use	I
J	r	of pipe materials free from the risk of misuse of leaded joints in the plumbing	J
K	C	works, e.g. use of silver brazing or compression joint for copper pipes or use of stainless steel pipes.	K
L			L
M	1	the Housing Authority to consider requiring the adoption of central procurement for soldering materials.	M
N		the Water Authority to consider	N
0	1	reviewing relevant legislations.	O
P	Force will be read	pated that the Report of the WSD Task y by end of October 2015 and upon the	P
Q	to the Commission	I will submit a copy of the said Report pursuant to paragraph ii 2 of the 12	Q
R	October Letter.	Forgo/ a work involves highly tooksisel	R
S	investigation (inc.	Force's work involves highly technical luding isotopic analysis). If details e are best explained by experts in the	S
T	relevant areas (bot	ch being members of the WSD Task Force), on-fai, Chairman of Advisory Committee	T
U	on Water Resource:	s and Quality of Water Supplies, in	U
		- 136 -	

Transcript by DTI Corporation Asia, Limited

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"ii. Deputy Director of Water Supplies/Chairman of the WSD Task Force

- 137 -

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2. according to the official Press Release issued by the Task Force on 25 September 2015, the Task Force "aims to issue the final report in October". Please include and adduce the Final Report by means of the witness

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statement ..."

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A copy of the Preliminary Findings of the WSD Task Force on Investigation of Excessive Lead Content in Drinking Water was exhibited as Annex I to my First Statement dated 26 October 2015. After the announcement of the Preliminary Findings and in the course of preparing the final Report (the "Report"), further testing and verification of information was conducted by the WSD Task Together with the List of pipes and fittings and other materials dismantled for Task Force including photos (at CoI Bundle: CS/72/4192-4224), further testing and verification results have been consolidated and subsumed into the Report of the WSD Task Force. The Report of the WSD Task Force (in English) together with a Chinese submitted to Secretary Summary thereof were Development on 31 October 2015. I have read the documents at CoI Bundle: A1 /19/650-801 and A1/20/802-808 and confirm that the same are the Report and Chinese Summary respectively.

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7. The WSD Task Force dismantled over one hundred of components from three water supply chains in Hong Ching House and Yuet Ching House of Kai Ching Estate and Luen Yat House of Kwai Luen Estate Phase 2, where excess lead in drinking water were found and conducted leaching tests, elemental analyses of various components, mathematical modeling and lead isotopic analysis and made comparison with the actual situation in a control supply chain at Hung Hei House at Hung Fuk Estate in Yuen Long where lead contents in its drinking water samples were well below World Health Organisation Provisional Guideline Value of

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8. Further details of these tests, examination and the $^{-138}$ -

10µg/L.

A	食水含鉛超標調查委員會 2016年2月19日	A
		11
В		В
С	results thereof, have been set out in the Report.	C
D	9. Further, as stated in the Report,:-	D
E	I. the Task Force concluded, inter alia, that:-	E
F	(a) Leaded solder joints were the cause of excess lead in drinking water; and	F
G	(b) Copper alloy fittings also leached lead but did not result in excess lead in	G
Н	drinking water.	Н
I	II. in order to prevent recurrence of similar incidents in future, the Task Force has the	I
J	following recommendations: -	J
K	<pre>(a) Prevention of the use of leaded solder material and non-conforming pipe fittings:</pre>	K
L	(i) To enhance site inspection and	L
M	testing system for plumbing works	M
N	• Qualified persons (e.g. Building Services Engineers or Building	N
0	Services Inspectors) should be engaged to carry out adequate and	o
P	regular field inspection.	P
Q	 Systematic non-destructive tests of solder pipe joints should be conducted during construction 	Q
R	(e.g. conducting quick lead test or using portable x-ray fluorescence	R
S	analyser/spectrometer).	S
Т	 Random sampling and testing of materials delivered to site should be carried out before they are used 	Т
U	in the works for better quality	U
v	- 139 - Transcript by DTI Corporation Asia, Limited	V

Requirements of Water Authority as well as Contractual

prepared by AECOM Asia Company Limited and "Benchmarking

Arrangements" ("Study (i)") dated 29 October

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Study of Overseas Regulations and Practices on Management and Control of Inside Plumbing Services" ("Study (ii)") dated 30 October 2015 prepared by Black & Veatch Hong Kong Limited have been submitted to the Commission on 18 November 2015 (see CoI Bundle: C19.6/ 142/ 14212 - 14397 and CoI Bundle: C19.6/143/ 14398 - 14511 respectively).

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11. The two studies involved highly technical information. If details are required, these are best explained by experts in the relevant studies, namely, Mr Roy CHAN, Principal Engineer of AECOM Asia Company Limited in respect of the above Study (i) and Mr Justin SEARLE, Senior Project Manager of Black & Veatch Hong Kong Limited in respect of the above Study (ii). If the Commission so wishes, WSD is prepared to invite Mr Roy CHAN and Mr Justin SEARLE to assist the Commission by answering queries which

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the Commission and/or its expert(s) may have.

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I confirm the contents of this 2nd Witness Statement to be true to the best of my knowledge, information and belief.

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問: 黃先生, 跟住我會讀你第三份嘅證人口供, 我由第 2 段開始。

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I am the same person who made the 1st and 2nd Witness Statements of WONG Chung Leung dated 26 October 2015 and 20 November 2015 respectively. I am duly authorised by the Director to make this 3^{rd} statement, to provide responses of WSD to the report of the Hong Kong Institution of Engineers ("HKIE") entitled "HKIE Report - Study of Lead in Drinking Water in Public Housing Estate" dated 2 November 2015 ("the Report").

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The Report was prepared by the Task Force of the

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HKIE ("HKIE/TF") and was submitted to the Commission on 9 November 2015 [U1/3]. HKIE also sent a copy of the

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A	食水含鉛超標調查委員會	2016年2月19日	A
В			В
C	Report to WSD via a letter dated 9 November	2015.	C
D	4. WSD has studied the Report and note HKIE/TF endorsed WSD's effort in significan		D
E	such as that "the water quality on the distri- has been kept at a world class standard" (par Report).		E
F	-		F
G	5. At the same time, it is noted that some of the Report might have been based on misunde in respect of WSD's practices and policies.	erstandings	G
Н	also matters noted in the Report on which WS proactive actions to address.	D has taken	Н
I	6. The various matters which require clari		I
J	updates are set out below. For ease of referstatement adopts the same sequence and section	rence, this	J
K	as used in the Report.		K
L	III. THE STUDY		L
M	PART I Ordinance and Regulations		M
N	Form WWO 46 (6/2012a)		N
0	New Installation (paras 22-29 of the Report))	0
P	7. In this section, the HKIE/TF points following issues with respect to Form WWO46		P
Q	(a) For new building project installa	ations, the	Q
R	appointed Authorised Person (required to signify his approval or	"AP") was endorsement	R
S	<pre>by signing Parts I and IV (para Report);</pre>		S
T	(b) The Licensed Plumber ("LP") was not turn over copies of all parts of 1	obilged ee	Т
U	together with relevant drawings to		U

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the applicant (para 27 of the Report);

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(c) From Part IV itself, it appeared the only role of the AP was to ascertain the position of meter installations and nothing else on completion whilst the AP had to endorse the installation details contained in Part I (para 28 of the Report); and

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(d) By virtue of Part I, there was no provision that AP would be subsequently, let alone timely, informed of any communications between WSD and LP including those necessitating changes of the installation albeit AP was 2 one of the parties jointly and severally responsible for the technical submission of the project (para 29 of the Report).

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8. WSD is οf the view that there may misunderstanding by HKIE/TF which led to the above J K

observations. In fact, the AP should be actively involved in the plumbing works.

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9. During the submission process of Form WWO46, the AP is required to sign Part I, certifying that the pipes N and fittings intended to be installed (including those listed on the Annex to the Form and those not listed) are \mathbf{o} as prescribed by the Waterworks Regulations ("WWR"). addition, after completion of the plumbing works, the AP P is required to confirm in Form WWO132 that the pipes and Q

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fittings used in the project are in full compliance with waterworks standards and requirements. In doing so, the AP needs to satisfy himself of the facts in support of the relevant certifications. As such, one would reasonably expect the AP to confirm with the LP and other relevant stakeholders (e.g. the main contractor or

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plumbing sub-contractor) on whether there are further documents or developments relating to the factual basis of the matters which the AP is to certify. One would also

reasonably expect the LP and other relevant stakeholders - 143 -

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(all of whom are directly or indirectly engaged by the developer to construct the inside service for the developer's premises) to readily provide the AP with relevant information to enable the AP to make the relevant certifications. In light of the above, it is reasonable to expect that there should be adequate communication between the AP and the LP and other relevant stakeholders including the provision of relevant drawings and changes

of the pipes and fittings installed.

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10. Similarly, the AP may obtain information from the LP and/or the contractors regarding any subsequent changes to materials used at the plumbing installation (including those listed under Annex of WWO46). It is reasonable to expect that the LP and/or the contractors would provide such information to the AP in order to facilitate the process.

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11. In any event, after the discovery of excess lead in drinking water, WSD has issued an updated Form WWO46 in October 2015, prior to the issue of the Report in November 2015, to enhance control measures for pipes and fittings to be installed in plumbing works. The updated form has been uploaded on WSD's webpage on 19 October 2015:

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http://www.wsd.gov.hk/filemanagerlen/share/pdf/

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wwo46e.pdf

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(See also WSD Circular Letter No. 7/2015 in WSD's webpage http://www.wsd.gov.hk/filemanager/article/en/upload/3
75/cir0715.pdf.)

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12. Under the current arrangement, all relevant parts of Form WWO46 will be forwarded by the Water Authority ("WA") to the LP, AP and consumer/agent/applicant for new building projects. The LP, AP and consumer/agent/applicant should update and sign Form WWO46 if there is any change of the previously approved pipes and fittings to be used in the installation.

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Alteration & Minor Repairs (paras 30 -40 of the Report)

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In this section, the HKIE/TF presumed that, for each and every intended plumbing work, applications had to be made to WA for consideration as to whether it is of a minor nature that "a person other than a LP" could carry out, and Form WWO46 Part I was the relevant application form (para 33 of the Report). The HKIE/TF remarked that they could not find clear indication of what would constitute as a minor work nature in Form WWO46. (para 31 of the Report)

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To start with, there is no need to submit an application form (including Form WWO46) to the WA for consideration as to whether the intended work is of a minor Н

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nature.

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15. Further, there is an explanation as to what constitute alterations or repairs of a minor nature in Section 4.2 of the "Handbook on Plumbing Installation for Buildings" ("the Handbook") published by WSD. Handbook, published since May 2001 is available on WSD's website:

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http://www.wsd.gov.hk/en/plumbing and engineeri ng/installation requirements/handbook on plumbi ng installation/index.html

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16. As explained in the Handbook, generally, works of a minor nature are works which can be completed without the involvement of specialised trade skill, requires specific knowledge and ability acquired through designated training for carrying out the works, and those which do not change the general arrangement of the plumbing installation already approved by the WA, or affect the flow conditions of the plumbing system thus causing possible supply problems. Minor alterations and repairs to inside services without dismantling and reinstallation of the water meter within domestic premises may be exempted as follows:

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taken into account the potential impact to the construction industry if pipes and fittings can no longer be used just for minor updates to the BS. In the past 20 years, the changes in the BS in respect of material composition of pipes and fittings listed under Note 7(i) of Annex to WWO46 have been minor in nature.

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20. In any event, the list of BS specified for product compliance has been removed from the updated Form WWO46 issued in October 2015. Further, Note 8 of the updated Form WWO46 advises that "all pipes and fittings including any materials intended to be used for the construction, installation, alteration or removal of the Approved Plumbing Works covered by this Form shall comply with the relevant BS listed out on WSD's website". The updated list of BS adopted by WSD can be accessed via-

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http://numw.wsd.gov.hk/filemanager/en/content_10
86/standards_for_pipes_and_fittings.pdf

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21. In respect of paragraph 18(b) above, the Technical Support Unit (TSU) of the Customer Services Branch is the designated unit in WSD to follow the updating of BS and the adoption of updated BS in Hong Kong for many years prior to the discovery of excess lead in drinking water incident. This unit comprises professional engineers equipped with the necessary expertise for monitoring the BS for plumbing installations.

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Licensed Plumber (paras 52 - 55 of the Report)

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22. HKIE/TF observed that "[a]s from October 1992, only [licences for] Grade I class [LP] would be issued with Grade II to be faded out" (para 52 of the Report), and remarked that it "had no evidence" to ascertain the reason behind (para 53 of the Report).

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23. It is correct that there are two grades of LPs under the WWR - Grade I and Grade II. Grade I licences are essentially for plumbing works of any type including

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- construction, installation, maintenance, alteration, repair or removal of a fire service or inside service. Grade II licences are much narrower in scope, and only cover maintenance and repair of a fire service or inside service, and installation, maintenance, repair or removal of water appliances. Before October 1992, examinations for qualifying as Grade I or Grade II LPs were administered The said examination system was found to be unsatisfactory as the passing rate was low, rendering the supply of LPs small and insufficient. A reform took place, upon which the Vocational Training Council ("VTC") took over the assessment of LPs. Under the reformed system which came into operation since October 1992, VTC also provides training prior to assessment. The training by VTC is of such nature and standard as to qualify persons as Grade I LPs. As such, since October 1992, persons who aspire to be LPs and have completed training by VTC would apply to qualify as Grade I LPs. Grade II LPs are therefore gradually faded out. The fading out of Grade II LPs is a natural consequence of the enhancement in training available for qualifying as LPs, rather than for any of the reasons speculated by HKIE/TF at para 53 of the Report.
- Further, the HKIE/TF opined that "the arrangement for LP to be solely responsible for all scopes of work is no longer adequate" (para 55 of the Report).
- Indeed, with the growing complexity and scale of inside services in building developments in Hong Kong, the WA has long recognised that reliance on LPs solely to ensure quality of inside service is inadequate.
- In view of this and in addition to the LP system, the WA has, as early as 1982, put in place a system that involves APs, who are qualified professionals in the construction process with the overall responsibility of the technical management of the building development, to take up the role of certifying compliance with the WWR and waterworks standards and requirements in respect of - 148 -

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the pipe and fittings used. As a result, since 1987, APs \mathbf{C} have been required by the WA to certify that the pipes and fittings intended to be installed, including those D listed on the Annex to Form WWO46 and those not listed, are as prescribed by WWR. APs are also required to confirm \mathbf{E} in the Form WWO132 that the pipes and fittings used in the project are in full compliance with waterworks \mathbf{F} standards and requirements upon completion of plumbing works, when applying for issuance \mathbf{G} "Certificate regarding water supply connection". certifications by AP act as another layer of assurance Η on top of the LP scheme to minimise the risk of non-compliant pipes and fittings being used in inside

27. In addition, it is not correct that LPs are "solely responsible for all scopes of work", as other stakeholders including developers, APs and other relevant stakeholders (e.g. the main contractor or plumbing sub-contractor) each play an important part in ensuring that the plumbing system is constructed in accordance with statutory requirements.

WSD Supervision on LP (paras 56-61 of the Report)

- 28. It is noted from para 57 of the Report that the HKIE/TF formed an impression from "the trade" that WSD was not "vigorous" in inspecting plumbing installations or inside service as compared to the attention given to meter locations. HKIE/TF further opined that WSD had no independent building services section to cover, inter alia, the demanding workload of inspecting plumbing installations in new buildings and if indeed the case, this deficiency had to be addressed (para 60 of the Report).
- 29. WSD does not agree with HKIE/TF's impression that WSD is not "vigorous" in inspecting plumbing installations and its opinion that the lack of an independent building services section within WSD to

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inspect plumbing installations in new buildings is a "deficiency". As elaborated below, WA risk-based approach in conducting inspection of plumbing installations, that there already noting is multi-layered control mechanism over the construction of inside services involving many stakeholders apart from including APs, main contractors, and LPs. subcontractors WA has to consider appropriate and effective use of public resources.

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30. Under the existing control mechanism, the LPs are responsible for the plumbing works as required by WWO. In addition, main contractors are responsible for providing continuous supervision of the works whereas the APs would conduct periodic inspection of the works by employing full-time resident personnel on site. Furthermore, LPs and APs are required to certify that the pipes and fittings comply with WWR and waterworks standards and requirements in Forms WWO46 and WWO132.

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31. Within the above control mechanism involving multiple stakeholders, WA's role is regulatory and its inspection of plumbing installations is generally guided by a risk-based approach. The Customer Services Division of WSD is responsible for the inspection of the finished plumbing works. Its staff members possess the necessary knowledge, experience and expertise to carry out the inspection, and are overseen and supported professional engineers. In conducting such inspection, more attention is paid to the communal parts of the inside service which have a greater impact on the proper functioning of the entire plumbing system, and therefore affect a wider section of the occupants, while other items are checked on random basis as they are considered to be of lower risk in terms of proper functioning of the plumbing system as a whole. In respect of water meters, their correctness is checked to avoid future disputes over water charges. Such inspection of the finished plumbing works cannot be taken as substitution of the on-site

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supervision and inspections by other stakeholders during the construction process as mentioned above.

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32. WA considers that the current inspection of the finished plumbing works is pitched at the right level taking into account the multi-layered control mechanism. To have an independent building service section within WSD on top of the existing control mechanism is not an effective way of administering public resources. Setting up an independent building service section will mean deploying public resources to duplicate the efforts of various stakeholders. This independent building service section of WSD will have to be substantial in size given that WA's regulatory remit is territory wide. The considerable resource implication is hardly justified.

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33. It should be noted that the current arrangement is in line with the role of a regulator as identified by the Construction Industry Review Committee Report issued in J

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2001 that --

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'...Given resource constraints, all regulators face the same challenge of how best to target their enforcement action. We recommend regulators should explore with the whenever appropriate, ways for participants to assume a greater responsibility behaviour through their a self-regulation. The regulator will continue to police the system, but with greater emphasis on those particularly at risk and with appropriately raised stakes for those who attempt to abuse the regulator's trust...'

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It should also be noted that the current arrangement in Hong Kong is on par with, if not more stringent than, systems in overseas counterparts. According to the "Benchmarking Study of Overseas Regulations and Practices on Management and Control of Inside Plumbing Services" [COI Bundle C19.6/143/14452], most countries/cities

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acceptance letter. WA might withdraw the general acceptance at any time if the circumstances so warranted, e.g. if there was a material change to the BS that rendered the fittings unsuitable for use in plumbing system. are practical implications to the industry, and time and resources are required for the industry to respond where a general acceptance lapses or is revoked (e.g. developers or contractors will need to identify and propose alternative fittings or arrange for the fittings in question to be re-tested). The previous acceptance scheme was intended to strike a balance between the need for regulation and practicability.

- After the discovery of excess lead in drinking water, WA is made aware of an increased risk of non-compliant material being used in the plumbing system. The 5-year validity period arrangement in WSD Circular Letter No. implemented under the current 2/2015 is acceptance scheme to introduce tighter control. the said arrangement, when the validity period expires, the suppliers or relevant parties are required to arrange for re-testing of the pipes and fittings and re-apply for general acceptance if the said pipes and fittings are intended to be installed in inside service so as to ensure that the pipes and fittings comply with the latest requirements. As with the previous arrangement, general acceptance may be withdrawn at any time circumstances so warrant.
- WSD duly notes the concerns of the industry over the effects of the new arrangement on project delivery. This reflects the importance of the balance which has to be struck as mentioned at paragraph 41 above, such that the industry will not be over-regulated. Drawing the line at a 5-year validity period is considered to be a proper balance in the present circumstances.
- 44. The 5-year validity period arrangement was made with reference to the similar approval mechanism of the Water Regulations Advisory Scheme (WRAS) in the United - 154 -

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http://www.wsd.gov.hk/filemanager/en/content 52 3/lead content drinking water report.pdf

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The Report of the WSD Task Force contains more details which might not be available at the time HKIE/TF prepared

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the Report. 49. The WSD Task Force's investigation relied on the

 \mathbf{F}

analysis of components dismantled from three water supply chains in Kai Ching Estate and Kwai Luen Estate Phase 2 via a series of tests and analyses including leaching tests, elemental analyses of components, isotopic analysis, mathematical modelling and comparison with a control water supply chain with undetectable lead content in its water sample in Hung Fuk Estate. The investigations of the three water supply chains had in common revealed that leaded solder joints were the cause of excess lead in drinking water and, although copper alloy fittings also leached lead, they did not result in excess lead in drinking water. The WSD Task Force considered that such common findings resulting from the investigations of the three water supply chains can be applied to other affected public rental housing, since (i) the design of their inside services and specifications of pipes and fittings are 18% to 61% well above the limit stipulated in the BS of

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similar to those of Kai Ching Estate and Kwai Luen Estate Phase 2; and (ii) the solders in the joints of their copper pipes were also found to have lead contents ranging from

 \mathbf{o}

 \mathbf{N}

0.07%.

P

Q

R

 \mathbf{S}

50. Isotopic analysis was carried out by the WSD Task Force for each of the three water supply chains by using a copper alloy valve, a leaded solder joint and a water sample taken from the respective housing block of the water supply chain. The WSD Task Force deduced (rather than concluded) from the isotopic analysis that the lead in drinking water mainly came from the leaded solder joints, which was further substantiated by mathematical modelling and comparison with the control water supply chain in Hung The leaching test results of the various Fuk Estate.

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Friday, 19 February 2016 (9.36 am)	C
D	(Transcript of simultaneous interpretation	D
E	except where otherwise specified)	E
	MR LAW: Chairman, the WSD would like to ask Mr Kan	2
F	Kwok Leung, Hugo, to give evidence.	F
\mathbf{G}	MR HUGO KAN KWOK LEUNG (affirmed)	G
**	CHAIRMAN: Please take a seat, Mr Kan.	
Н	Examination-in-chief by MR LAW	Н
I	MR LAW: Mr Kan, good morning. I represent the Water	I
J	Supplies Department.	J
	Please open the bundle before you, C21, and then	
K	page 18976. For the purpose of this Inquiry, Mr Kan,	K
L	you have prepared an expert report. In a moment, I am	L
	going to read out your report, and then ask you to adopt	
M	it as part of your evidence-in-chief.	M
N	Before I do that, please turn to page 18995. This	N
0	is your CV. Mr Kan, can you find it?	0
U	A. Yes.	0
P	Q. This is your CV setting out your education, your	P
Q	employment history and your professional qualifications.	Q
	I have a simple question about this. On education, you	
R	have a Bachelor of Science degree. Can you please tell	R
\mathbf{s}	the Commission the background?	S
T	A. In the 1990s, I attended a distance learning course from	T
		_
U		U

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Transcript by DTI Corporation Asia, Limited

A	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
C		a US university.		C
D	Q.	And you became an apprentice in 1972, so you have be working in the construction sector, in the plumbing	een	D
E		industry, or have you been doing other jobs?		E
F	Α.	Since 1972, I have been working in this industry, although for some time I also did something about fi	re	F
G		service installation, but they are all related to		G
Н	Q.	plumbing. There is also some information about your membership	o and	Н
I	Σ. '	licences in professional bodies. The first one,		Ι
J		chairman of the Institute of Plumbing and Heating		J
K		Engineering Hong Kong branch, 2011 to 2014, this the Hong Kong branch of the UK professional associat		K
L		Can you please tell us more about this, Chartered	1011.	L
M		Institution of Plumbing and Heating Engineering?		M
N	Α.	It is one of the oldest plumbing-related professions associations. They mainly do some design and resear		N
0		and they also have a class of membership called RP.	Our	0
		WSD and many consultancy firms are using the guidebo	ok	
P	_	of this particular association as reference.		P
Q	Q.	Has it got anything to do with the licensed plumber system in Hong Kong?	S	Q
R	Α.	The WSD would give a exemption for a member of this		R
S		association in regard to the three-year plumbing		S
T		certificate course.		Т
U				U

A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
C	Q.	You are a member of the Advisory Board of the License Plumber?	ed	C
D	Α.		the	D
E		WSD has had a number of meetings with the trade and		E
		relevant industry, and some licensed plumbers were		
F		invited to join the advisory board, to have some		F
G		discussion on how to regulate the work of licensed		G
Н		plumbers.		
п	Q.	The next one, advisory board of the CICTA, courses of	f	Н
I		plumbing and sanitary wares?		I
J	Α.	CICTA is one of the training providers. Together wit	th	J
		trade associations and the industry, they have consta	ant	
K		and regular communications on whether we should provi	ide	K
L		something updated in the training course of plumbers.		L
	Q.	I am going to read out your expert report now, start:	ing	
M		from page 18996. Please listen carefully to see whet	her	M
N		you need to clarify anything or supplement.		N
0		(Statement read in Chinese)		o
O		Mr Kan, you heard me read out your witness		U
P		statement. There is a signature on page 18994. Is it	t	P
Q		your signature?		Q
	A.	Yes.		
R	Q.	Are you willing to adopt the contents of this witness	S	R
S		statement as your evidence?		S
Tr	Α.	Yes.		æ
T				T
U				U

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Transcript by DTI Corporation Asia, Limited

V

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Q. Do you have anything to add?	C
	A. No.	
D	MR LAW: Please stay there.	D
E	Cross-examination by MR SHIEH	E
	MR SHIEH: Good morning, Mr Kan. I have some questions to	
F	ask you.	F
G	Please, let's look at your CV, page 18995. In the	G
Н	middle, there is an employment history. You started as	**
п	an apprentice, and you have been in different posts. So	Н
I	you started as an apprentice?	I
J	A. Yes.	J
Ū	Q. Working from the bottom, can I say that?	3
K	A. Yes.	K
L	Q. We have heard about a lot of different types of work in	L
	plumbing. You are a licensed plumber. Have you	
M	occupied any positions as a skilled worker?	M
N	A. In 1986, I have already obtained a licence as a plumber.	N
0	In Morrison Hill when Morrison Hill was preparing	0
0	requirement for certificate, everything was already in	0
P	place. I already have a trade plumber licence at that	P
Q	time.	Q
	Q. We have also heard that in construction sites, there is	*
R	something called "da lei". What is it?	R
S	A. We call them a co-ordinator, something like that.	S
_	Q. So what is the description?	
T		T
U		U

V

V

A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	1	A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
C	Α.	Site foreman. It's equal to site foreman.		C
D	Q.	So, for an entire estate, there is a site foreman who co-ordinates everything. For a large site, there are	1	D
E		different blocks. For different blocks, there is	1	E
		a person responsible. You have also occupied that		
${f F}$		position; right?		F
G	Α.	Right.	•	G
Н	Q.	Then I can ask you specifics of the goings-on in a s		Н
		Now you work for Merry China Asia Ltd, and we have h		П
I		about the roles of different companies. In the case	of I	I
J		public housing, the HA, the Housing Authority, will		J
		award a contract to a main contractor, and some work		
K		will be delegated to subcontractors and some of the]	K
L		works will be delegated to plumbing subcontractors.	1	L
3.6		Your company, is it a plumbing subcontractor?		
M	Α.	Yes.]	M
N	Q.	We have heard from other subcontractors. You may th	ink	N
o		you are not the same as them. But usually, we have		o
O		heard that the main contractor would, say, award	•	U
P		a subcontract to Ho Biu Kee or Golden Day or other	1	P
Q		companies. So your company's role is similar to that		Q
		Golden Day and Ho Biu Kee, and that is you are award		
R		a subcontract in plumbing by the main contractor?]	R
S	A.	Well, I would say similar. It's similar. But I don'	't	S
m.		know the scope of their contracts with the main		
Т			, ,	T
\mathbf{U}			1	U
		_		

A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
C		contractor.		C
D	Q.	But generally speaking, just generally every cont		D
D		is different, the scope will be different mainly,	you	D
${f E}$		will be given a contract by the main contractor, they	Y	E
Б		need to do some plumbing works, and you will be given	ı	
F		a subcontract to do that?		F
G	A.	Well, for the trade, the main contractor will genera	lly	G
11		subcontract the different processes, different works,		
Н		different subcontractors. This is called domestic		Н
I		subcontracting. It's a commercial deal between the t	WO.	Ι
J		Apart from acting as a domestic subcontractor, we		J
Ü		also act as a specialist for other government		J
K		departments. Those will be very different in terms of	f	K
L		responsibility which may be based on statute. So		L
		I don't know whether we are similar with other		
M		subcontractors, in that regard.		M
N	Q.	So you may be appointed direct by government, or you	may	N
		be given a subcontract by the main contractor. The m	nain	
О		contract is between the government and the main		0
P		contractor?		P
Q	Α.	Yes. There are different layers of subcontracting.		Q
· ·	Q.	Let's have a look at your document. Page 18978. You	l	Ų
R		are referring to generally what would be done for last	rge	R
S		housing projects. You mention building services		S
		engineers would come up with plumbing proposals. You	ı	
T				T
U				U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	state that LPs are generally not involved in the	C
	preparation work for the plumbing proposal of a large	
D	housing project?	D
E	As a licensed plumber or a very vastly experienced	E
F	LP, would this somewhat impede your work?	F
r	A. Can you be more specific?	r
\mathbf{G}	Q. The building services engineer has to take care of many	G
Н	things. They may or may not have attended any course on	Н
11	plumbing; right?	н
I	A. I cannot say I agree with you. There are about 3,000	I
J	LPs in Hong Kong. Only 700 are actively involved in	J
	projects. The other 2,000 are working in consultancy	
K	firms. They act as consultants. For my association,	K
L	for my committee, over half of the committee members	L
M	were working in consultancy firms.	
M	Q. So, in the early planning and preparation for the	M
N	plumbing worker, although it's done in the name of	N
0	an LP, it may be just carried out by one particular	0
U	staff in the consultancy firm?	0
P	A. Well, we call the one responsible for the plumbing works	P
Q	the LP, but in the early preparation of the project, the	Q
•	building services engineer will never be the LP which	V
R	would carry out the works.	R
S	Q. In due course, I will go to the details. In theory, the	S
Tr.	LP is the most knowledgeable person in the process; do	_
Т		T
\mathbf{U}		\mathbf{U}

A	Annex	c: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
С		you agree?		C
	Α.	I won't say the LP is the most knowledgeable person.	We	
D		have a few thousand LPs. Some LPs would just work		D
E		on sites after acquiring the qualification. Some wou	.ld	E
_		proceed with further studies, certificates, diplomas	and	
F		even degrees and would become management staff. So I	ıPs	F
G		are working at different levels.		G
Н	Q.	Let's not just dwell on whether someone is an LP or		**
п		holds a licence. Let me see if I can summarise what	you	Н
I		have said accurately. The building services engineer	or	I
J		company would do some preparation, but the LP who		J
U		finally gives his signature to the form may not have		J
K		a chance to participate in the first stage, so maybe	the	K
L		building services firm also employs LPs who are		L
		knowledgeable about this. So they are not asking som	ıe	_
M		layman to do it. So they would make sure that in the	ir	M
N		team, there is someone who may or may not be an LP bu	ıt	N
		who are knowledgeable?		
0	Α.	For a building services engineer, whether he is an L	P or	O
P		not, it's not really important. They would calculate	:	P
0		the capacity required for a drinking water system.		_
Q		That's the work of the BS engineer. But for the		Q
R		licensed plumber, he has to make sure that the works	are	R
S		carried out according to the Waterworks Ordinance and	Ė	S
5		Regulations.		B
T				T
U				U
		o		·

A	Annex.	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 58	В
C	Q.	So it may not be relevant that in the early preparat:	ion	C
C		the knowledge of an LP will be important.		C
D		In paragraph 6, you said something about the lack	of	D
E		participation or involvement.		E
	Α.	That's not something derogative in nature. When will	-	
F		the LP come on stage? After the plumbing proposal ha	S	F
G		been approved, as I set out in the report, after the	WWO	G
**		form is submitted, and the licensed plumber will be		
Н		appointed at that stage.		Н
I	Q.	So, if you look at the documents, you will see the na	ame	Ι
J		of the licensed plumber set out in WWO46?		J
J	Α.	From my personal experience, more than ten years ago,	,	J
K		I participated in the work in a big consultancy		K
L		contract. I became a member of a team, and I was giv	en	L
		to understand that if they won the contract, I would	be	
M		a subcontractor for them as well. But the licensed		M
N		plumber would only be appointed at a later stage, not	in	N
		the preparation stage.		
0	Q.	Please now refer to paragraph 8. This is a question		О
P		about the system. Paragraph 8. For a project, you ha	ave	P
Q		the so-called wind, fire, water and electricity, as y	ou 'ou	Q
· ·		call it. Wind or air-conditioning, fire or fire		Ų
R		services, and electricity services are subject to mor	:e	R
S		requirements, as a matter of system. For example, th	е	S
		HA has a list of works contractors, or nominated		
T				T
U				U

V

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	contractors, for air-conditioning, fire services and	C
Č	electricity services.	C
D	Although you didn't say anything about this in your	D
E	report, maybe this has to do with relatively little	E
	importance is attached to the plumbing?	
F	A. That's the reality in the market. And here I am talking	F
G	about HA projects. HA has some special arrangements.	G
Н	The licensed plumber or contractors do not have to	**
п	install the pump station or fire services.	Н
I	Q. So you just have to handle things mechanical?	I
J	A. As a plumbing subcontractor in other projects, we will	J
Ū	participate actively in a number of E&M services.	J
K	Usually, we will be involved in the pump system, maybe	K
L	a solar heating system or water treatment equipment. We	L
	will be involved in those, in non-HA projects.	
M	But for HA projects, they would take those away and	M
N	we would just be responsible for connecting the pipes.	N
0	CHAIRMAN: You mean for private developers, it's not a usual	0
O	practice? Usually, you would cover everything?	0
P	A. Yes.	P
Q	MR SHIEH: For private projects, say a private developer	Q
	wants someone to take care of plumbing, he would seek	v
R	out a contractor like yours, and you would not just be	R
S	responsible for connecting the pipes or finding the	S
_	manpower to connect the pipes; you would be responsible	
T		Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	for all the things you have said?	C
D	A. I did mention the West Kowloon project. We had a team of resident staff, including engineers, and every day we	D
E	will have regular meetings with the main contractor, to	E
L	ensure compliance with the contract and with the	E
F	Waterworks Ordinance. We would be involved in planning	F
G	and modifications up to the stage where the approval is	G
***	granted by the WSD.	
Н	Q. But for HA projects, plumbing works is narrow in scope	Н
I	for the contractor?	I
J	A. Yes, that's so far.	J
J	Q. What about Hong Kong Housing Society?	J
K	A. I have not been involved directly in Housing Society	K
L	projects. I did participate in HA projects. I have	L
	also submitted quotations for some of the projects, so	
M	I know HA projects more.	M
N	Q. Paragraph 10. For WWO46, you have to submit the	N
0	relevant documents, for the approval of the Water	0
O	Authority.	О
P	Paragraph 11. An LP may operate in different forms.	P
Q	Some are proprietors, some are workers and employees.	Q
	We have heard from other people that some of them form	
R	their own company; some work as employees. Some LPs	R
S	have got a licence, without doing any actual work.	S
T.	Let's disregard those. And also let's disregard LPs who	
T		Т
\mathbf{U}		U
	11	

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V

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Description:	ay 58 B
C	are working not as an LP, who do not have to sign	C
_	documents as an LP. You know there are many LPs but	
D	they are now working as employees but they are not doin	.g D
E	the job of an LP. They may be an employee of a BSE	E
	company. Will they actually sign work as an LP?	
F	Different people have different modus operandi, and som	F
G	people may not actually know how to solder something on	••
	You give them money and then they will just simply sign	
Н	the form, because you can only sign in the capacity of	H
I	an LP. Are you aware of such a practice? You don't	I
J	have to name any names.	J
	A. Well, let me put it this way. At the early stage,	Ū
K	I have heard about something like that, but in recent	K
L	years, very rarely. For those who only sign, they are	L
	the rare cases. There are subcontractors, yes, but	
M	I pay attention to how this excess lead in water	M
N	incident unfolds, but sometimes, some people are limite	d N
0	by the terms of contract, and the employer refused to	
0	listen to them.	C
P	CHAIRMAN: It's not the case that they did not supervise or	e P
Q	check anything, but it's just that the scope is very	O
	limited. They won't just not show when WSD came to	Y
R	inspect or they wouldn't do anything, but when they nee	rd R
S	to append a signature or when the WSD is requiring thei	r S
T	appearance, then they will be present. It's not the	_
T		Т
U		U

V

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	case that they just close their eyes and sign and only do just that.	C
D	MR SHIEH: Well, in general, do you have this impression?	D
E	Perhaps I will put it in a more succinct way. They are	E
	bound by the terms of contract, so you only supervise	
F	items that your employers ask you to do, and then you	F
G	will just sign your name; it happens, right?	G
Н	A. I have heard about such instances. As you know,	Н
	everyone is following the news after the excessive lead	11
I	in water, but what I can say is that they are bound by	I
J	a lot of things.	J
	Q. Under the regulations, the LP has great	
K	responsibilities?	K
L	A. Say, for example, for myself, at the first step	L
	actually, I participated even from making quotations.	
M	Q. Well, for 046, we are all very familiar with the form,	M
N	when you append your signature you in effect say that	N
o	the plumbing works will conform with the numerous	0
O	requirements, including the material used that has to be	0
P	compliant with British Standards.	P
Q	So the responsibility of an LP is very different	Q
	from other LPs, because LPs have to take the initiative	
R	to understand waterworks requirements. But if you say	R
S	that for some they are the boss, they call the shots,	S
m.	whereas there are others who are employees and they will	
T		Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 5	8 B
C	just do whatever their employers instruct them to do, in effect that is not performing the duty of an LP?	C
D	A. For work projects, we have seen LPs perform their	D
E	duties. As an LP, the licence itself is the means to	E
F	make a living. Of course, they will cherish it. I have been LPs in some projects. When I find some	F
G	irregularities, non-compliance of the regulations,	G
Н	I would insist on changing it, otherwise I would not sign. They could fire me. I can find another job. But	Н
I	I would insist.	I
J	Q. So what you mean is that even when you are an employee, and even if your employer instructed you to do something	J
K	expedient, just put down your signature, but you attach	K
L	importance to your professionalism, to your licence, so	L
M	you would insist on doing everything, and you would quit if you are asked to do something that you should not do?	М
N	A. Well, in 1986, when I obtained the licence, I have been	N
o	employed in different companies. At that time, the employer asked me to do the work of an LP, and at that	o
P	time I insisted on following the proper steps.	P
Q	Q. So, for the LP, in the end, if the LP was made or is made to do something that falls short of supervision,	Q
R	the consequence will be a licence revocation or points	R
S	being deducted from the licence?	S
	A. Whether an individual LP will insist on doing the right	5
T		T
U		U

V

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	thing is down to the person.	C
-	Q. Let me show you page 18982. Paragraph 19.	C
D	Here, line 5 onwards, you talk about subcontractors,	D
E	that the subcontractors will place orders for the pipes	E
	and fittings that meet the specifications or those that	
F	have been approved in accordance with the approved shop	\mathbf{F}
G	drawings and bills of materials.	G
**	In relation to these approved shop drawings and	
Н	bills of material, in public housing projects, the HA is	Н
I	the responsible department, they award the contract to	I
J	main contractors, and then the materials will have to be	J
o .	approved; subcontractors will submit fittings and parts	J
K	to the main contractor, which then in turn is submitted	K
L	to the Housing Authority for approval; this is what you	L
	are referring to; right?	
M	A. No. If you are talking about line 5, these have already	M
N	been done beforehand. After the approval has been	${f N}$
	obtained, in relation to the use of materials, I would	
О	enter into contracts with suppliers, stating the	0
P	quantity of materials used, and I would require partial	P
Q	delivery to dovetail the progress of works. So this is	0
Q	about what happens afterwards.	Q
R	Q. Yes, I understand, but I would like to get some	R
S	background information from you. In relation to	S
	approval and in accordance with approved shop drawings	
Т		T
\mathbf{U}		\mathbf{U}
	15	

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	and bills of materials, so the process has been gone	C
D	through, the HA gave approval, and we have often seen the approval forms, and then you will just procure	D
E	materials in accordance with the approved material list.	E
F	We know that for a lot of the parts, submissions will have to be made for approval to the HA, say for	F
G	example, bath tubs, taps. They must be submitted. For	G
Н	some others, it's not a must, but more often than not	Н
	plumbing subcontractors will submit these items, just	
Ι	for piece of mind.	Ι
J	Solder material is one of such items?	J
	A. Under the law, there is no requirement for submission	
K	for approval of solder materials.	K
L	Q. What about contract?	L
	A. Well, all materials used have to be approved, that is	
M	under the contract. We are a subcontractor; we obtain	M
N	the contract. After the meeting at the site, we will	N
0	prepare an approval list of materials. That's to be	
0	done by subcontractors. We will set out the list of	0
P	materials to be submitted for approval. We will submit	P
Q	it to the tier above. This is a schedule only. REs,	Q
¥	consultants, architects will look at the list to see if	Ų
R	it's an exhaustive list of materials to be used.	R
S	Q. So the tier above, you mean the main contractor?	S
Tr.	A. Well, yes, the body from the owner. They will approve	
T		Т
U		U
X 7	- 16 -	

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V

A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		s Lead Found in Drinking Water	Day 58	В
C		our schedule. Some companies may think, as long as there is a list of commonly used materials, that will	1	C
D		do, whereas others, they are very strict. It depends		D
E		the subcontractor. But whether it's an exhaustive li	.st	E
		or not, your supervising team may require you to make	e it	
F		an exhaustive list. Well, according to the contract,		F
G		it's an exhaustive list, even down to a screw. Say,	for	G
Н		example, the XRL contract 823. We submit for approva	al	Н
11		even every bolt and nut. It's not the case that the		п
I		contract doesn't require you to do that. If you did	not	I
J		make a submission, if you are not required to make		J
		a submission, then no submission would be done.		
K	Q.	From the evidence we have heard, a lot of subcontrac	tors	K
L		have submitted solder material samples to the tier		L
3.6		above, which in turn is submitted to the HA. The coi	.1	
M		in front of you, in green, is used by your company;	yes?	M
N	Α.	Yes.		N
0	Q.	But from the numerous subcontractors we have seen, t	hey	o
· ·		use this material, at least in their submission, and		U
P		your company uses FRY, this green coil; right?		P
Q	A.	In the past decade or so, yes.		Q
	Q.	The HA will give you an approval form, say for examp	le	
R		this FRY, and in relation to your company, after the		R
S		submission and approvals have been made, what happens	s?	S
Tr.		Is there a mechanism in place to make sure that the		
T				T
U				U
		- 17 -		

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	right material is ordered as per this approved list?	C
D	A. Well, we act in accordance with the contract. We will prepare a submission schedule for approval, and we will	D
E	make submissions. After approvals have been made	E
F	well, all the material, all the documents are in English, but we will get our staff to translate them	F
G	into Chinese to give to foremen.	G
Н	Q. So there is a communication mechanism. So the approved	Н
	materials, the information will be disseminated to the	
Ι	frontline, to the shop floor, to the person in charge,	I
J	whatever post they are, whatever title they are, so that	J
	they will know what materials they need?	
K	A. It's not just that. There are many different pipes to	K
L	be used. Say, for example, in private developments, say	L
	in lift lobbies, or on some special occasions, we would	
M	need those that are encased in plastic and some without.	M
N	So we have to specify which ones are just the naked	N
o	pipes and which ones are encased in plastic, because if	0
U	we use the wrong one, we will need to rectify it and	O
P	then there will be double the work. That is actually	P
Q	for the benefit of the operation of the company, to make	Q
	it clear.	¥
R	CHAIRMAN: The HA's main contracts, they are all in English.	R
S	None of it is in Chinese. Is that the case, from your	S
	experience?	
Т		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	A. I have not directly engaged in HA contracts, but for	C
D	contracts in the private sector, all the drawings, all	D
	specifications, they are all in English. So, at the end	D
E	of the submission, we will prepare a Chinese version for	${f E}$
F	foremen, to tell them about what had been approved and	F
	what they are to be used on.	-
G	CHAIRMAN: With regard to plumbing proposals, vertical	G
Н	plumbing drawings, they are all in English?	Н
	A. Yes, recently.	
I	CHAIRMAN: I don't think the HA is an exception. They won't	I
J	use Chinese. Please elaborate in a moment. I ask this	J
	question because some plumbing subcontractors and LPs	
K	have told us that they do not know any English, and they	K
L	are awarded subcontracts all the same by the HA.	L
	A. I don't know the wording used, but for those working for	
M	private projects, we are required to employ at least one	M
N	staff who can read, write and speak fluent English, to	N
0	communicate with those one tier up.	
U	CHAIRMAN: That's for private projects?	0
P	A. I don't know what is the situation with HA contracts.	P
Q	CHAIRMAN: That's okay. We will find out. I know the	Q
•	subcontracts are in Chinese, but the main contract is in	V
R	one version, in English only.	R
S	MR HO: I think he is talking about the information for site	S
т	agent.	/ID
Т		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	COMMISSIONER LAI: The site specifications are all in English.	C
D	MR SHIEH: So there's a requirement to have someone who can	D
E	read English on the site?	E
	CHAIRMAN: Very often, the subcontract will stipulate that	
F	you have to comply with the provisions in the main	F
G	contract. If you have no one who can read English, how	G
Н	would you know whether it's in line with the main	Н
	contract?	
I	MR SHIEH: Or do you have the mentality that someone else	I
J	would be doing the checking?	J
	A. Well, a consulting engineer may be doing different	
K	projects, and sometimes we will work for them	K
L	repeatedly. We would ask what is required and they	L
	would say, "Just do what you did in the last project."	
M	CHAIRMAN: But the General Specifications of the HA are all	M
N	well established. It's stored in a library. For	N
o	specific projects, they may add some specialised specs	0
Ü	that would only be required for that particular project.	· ·
P	If you don't read English, there's no way you can know.	P
Q	Do you know what I am saying?	Q
	A. Yes. Well, there's no legal requirement that an LP must	
R	understand English, but we know that Hong Kong is	R
S	an international city, where English is commonly used.	S
	The LP system in Hong Kong is that if you have	
T		Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	an education level of form 3, you can be enrolled in	C
D	a certificate course in plumbing.	D
Ь	CHAIRMAN: I am not saying that some language requirement	D
E	would be important, but in this case we have an LP who	E
F	is also a proprietor, who has told us that he doesn't	F
r	read a word of English. I just wonder whether that	Г
G	could really happen.	\mathbf{G}
Н	MR SHIEH: For example, you have to understand the	Н
11	Waterworks Ordinance and what the British Standards are,	п
I	and if necessary you have to check the British	I
J	Standards, and if you get a copy of the BS, it costs you	J
	\$1,000, and there's no Chinese version.	
K	A. As a subcontractor, we are not the manufacturer. We	K
L	will not try and understand in great detail the BS	L
M	concerned or what the pipes are made of. I will just	3.5
M	get a quotation from the supplier, "I need materials of	M
N	this BS and please give me a price quotation." Then	N
0	I will ask for proof. There will be a certificate. So	
O	sufficient documentation would be given.	0
P	Q. So they would give you some document saying that it's in	P
Q	compliance with the relevant BS?	Q
-	A. Yes.	•
R	Q. For soldering material, which suppliers are you dealing	R
S	with?	S
T.	A. Prosperity.	
T		Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Q. So if you want unleaded solder, you use FRY your	C
D	company uses FRY you don't know what it's called in the order, but what would you call the soldering	D
E	material, when you place order with Prosperity?	E
F	A. I would call it unleaded solder wire. Q. Have you seen those in sticks? They are called	F
G	a 50 per cent lead, or in Cantonese, "ng sap lik".	G
Н	A. "Lik" in Cantonese means lead, so it's 50 per cent lead. We all know that.	Н
I	Q. "We all know that" what do you mean? Who is "we"?	I
J	CHAIRMAN: You mean those involved in plumbing works?	J
K	A. My suppliers and I and my company, my people know, but I dare not say that everyone outside my company knows.	K
L	MR SHIEH: So you would tell Prosperity that it's unleaded	L
M	solder wire? A. Yes.	M
N	Q. You insist that the word "unleaded" is there?	N
0	A. Well, they will ask you, "What kind of solder, 50 per cent lead or unleaded?" They will ask you.	0
P	Q. If you tell Prosperity, "I want solder wire", they will	P
Q	say, "Wait a moment, leaded or unleaded"?	Q
R	A. But Prosperity will understand that it's unleaded if you ask for solder wire. We have been dealing with	R
S	Prosperity for years. It's either solder wire or solder	S
T	sticks.	T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Q. They supply both?	C
	A. If you want solder wire, they would give you those	
D	coming in coils, and our foremen also know our site	D
E	staff are all graduates of courses of instruction where	E
10	they will be instructed on the requirements of the	_
F	Waterworks Ordinance. They are graduates of VTC.	F
\mathbf{G}	Q. When your company places an order with Prosperity, you	G
Н	would say you require unleaded solder wire. But in the	**
п	case of Prosperity, if you just say "solder wire", they	Н
I	would give you the coils, unleaded solder wire, and then	I
J	if you want solder sticks, they will give you	J
· ·	50 per cent lead solder sticks. So that's your	J
K	understanding, in your dealing with Prosperity?	K
L	A. They have many salespersons. They have been following	L
	up our account, working on our account, for years. So	
M	I do not know what other suppliers would be doing. You	M
N	may be talking about this as a practice of Prosperity,	N
0	but I am really talking about the practice of the	
0	salespersons. There are account executives, they deal	О
P	with different accounts; they know what our requirements	P
Q	are.	Q
	Q. So what you call them would depend the salesperson you	· ·
R	are dealing with?	R
S	A. Yes. As I said, we would provide submissions. We would	S
m	tell the salesperson over the phone that, "I have been	
T		Т
U		U

V

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	given this contract and I now have to submit samples,	C
D	and for this particular site I need certain things", and they would know what materials would be used for my	D
E	site. There's no room for mistake.	E
F	Q. We have heard sorry, we have to tell you the evidence that we have heard from other sources. You are	F
G	an experienced person. Have you heard of	G
Н	high-temperature soldering stick? A. No.	Н
I	Q. If it's a soldering stick, it's a 50 per cent lead	I
J	soldering stick. What about high-temperature? We	J
K	understand high-temperature to be unleaded. But what about a mix of the two, high-temperature soldering	K
L	stick?	L
M	CHAIRMAN: It's not necessarily the same. You have to look at the context. Unleaded soldering stick is so-called	M
N	high-temperature vis-a-vis the leaded soldering stick.	N
0	But depending on the lead content, we have low-temperature and not so high-temperature soldering	0
P	material. So that should be the context.	P
Q	First, so the question is, you haven't heard of	Q
R	high-temperature soldering stick, so basically there's no other relevant questions that you can put to him.	R
S	A. Well, the soldering materials would be stored in our	S
T	warehouse. After the lead in water incident last year,	T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	some media interviewed us and they saw the material	C
.	stored on the floor of the warehouse.	
D	MR SHIEH: So you would use unleaded soldering wire?	D
E	A. That's the contractual requirement. When the media	E
T.	people came to see how we did it, they would see that	_
F	even for screws and nuts and bolts, the brand name is	F
G	shown on them.	G
TT	CHAIRMAN: Has your company ever used leaded soldering	
Н	material in any project?	Н
I	A. My company was set up in 1992. We have never used	I
J	leaded soldering material in Merry China Asia Ltd. But	J
	prior to 1995, I had another company, set up in 1986.	
K	It's called Hugo Engineering Company.	K
L	At that time, we didn't know the difference. We	L
N	knew about the legal requirement of the use of unleaded	3.5
M	soldering material in 2000. A salesperson of a supplier	M
N	came to my company in 1994. I had known him for many	N
0	years. He is not a plumbing worker. He showed me a tin	0
O .	of flux, and also he said it would be very easy. You	U
P	don't have to end-feed the solder. He showed me how to	P
Q	do it. He said it's very easy. You just apply clean	Q
	solder and the solder will not run out, so it would form	•
R	a ring very beautifully. So we found that to be	R
S	cost-saving and manpower saving.	S
ran.	MR SHIEH: You use it in the Forum Hotel in Shenzhen?	
T		Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	A. Yes, because you can work with it very easily, and after	C
D	2000 I knew about lead-free solder because I started to	D
D	employ VTC-trained employees. And now there was a BS EN	D
E	1057, the latest standard, and in the catalogue they	E
F	would state that it's unleaded.	F
r	Q. In 1994, you carried out the Forum Hotel project, so you	Г
G	don't need to have the solder embedded in the pipes; you	\mathbf{G}
Н	can use solder wire, as suggested by the salesperson.	77
11	But you know just half of what is happening.	Н
I	A. I thought it was just to save labour.	I
J	Q. But it so happened that it was lead-free, and after 2000	J
	you realised that it so happened that it also meets the	
K	requirement of non-leaded.	K
L	You mentioned about basic stock. What do you mean	L
	by "basic stock"?	
M	A. It is very simple. When it comes to some simple works,	M
N	every day people will do the same process, and it's not	N
	very desirable to just break to do it in a different	
О	way.	0
P	Q. So, for every floor, they will just cut the relevant	P
Q	parts they would need to use?	Q
¥	A. For corridors, they are quite long; we just put them in	Q
R	place. For the individual units, for the HD, that is	R
S	the practice over the years. There are different types	S
	of units with their own code names. We will take	
T		Т
U		U

A	Annual Dealine Fuelish Temperaturi I. I. C. (C. I. I. I. C. (C. I. I. I. I. C. (C. I. I. I. I. C. I. I. I. I. C. (C. I.	
A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	measurements, say 500 units in the same block, they will be the same.	C
D	Q. So they will cut out the relevant sections, in the right	D
E	numbers?	E
	A. In the 1990s, even when GI pipes were used	
F	Q. GI pipes?	F
G	A. Yes, and of course they are all pre-made.	G
**	Q. So soldered as well?	
Н	A. Yes. It happens.	Н
I	Q. But that shouldn't happen, right, in the first place?	I
J	A. Well, it depends on the contract requirement, whether it	J
	should be done or not. Well, as long as there is	J
K	sufficient supervision, you act in accordance with the	K
L	mainland, it's okay. As you know, the steel cable for	L
3.6	the Tsing Ma Bridge was made in the mainland.	
M	Q. But you require licensed plumbers to do it, so you can't	M
N	have the basic stocks cut out on the mainland?	N
0	A. The law was enacted in the last century. The company	0
O	will not it's a business. The business itself will	U
P	not do the actual work, and employees will be recruited.	P
Q	CHAIRMAN: I don't think we need to go into that detail,	Q
	about the legal definition.	
R	MR SHIEH: So for cutting out work pieces from basic stock,	R
S	you will do it beforehand and then take them to the	S
TD.	individual floors?	_
T		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Paragraph 23. This is what you meant. The 1994	C
	Forum project let me work out the chronology. You	
D	talk about different types of soldering. One of them is	D
E	mechanical.	E
F	A. It's compression without soldering.	F
r	Q. It's just, well, fixed, screwed on by hand. That is	Г
G	one.	G
Н	It's soldering ring fittings. If you refer to	н
11	paragraph 22, we have heard from some companies, calling	п
I	this soldering fittings.	I
J	A. In the 1970s, we heard that not many people could do	J
	this specific process. If we have to use soldering ring	•
K	fittings, we will have to heat up the pipe, which is	K
L	tin-free. Then we will just smear some tin onto it.	L
3.6	It's called white jointing.	
M	At that time, most of them are soldering fittings,	M
N	because you will well, you will have to do a step	N
0	more, which is more cumbersome.	0
O	Q. So, at the beginning, it's just mechanical, and then	U
P	later soldering fittings. Then, in 1994, you heard from	P
Q	the salesperson in the Forum project that you don't need	Q
-	to purchase additional material; you just buy FRY and	•
R	then you can solder the pipes together. That's your	R
S	understanding; is that right?	S
TD.	A. Yes.	
T		Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Q. Now, at the end of the 1980s and in the 1990s please	C
	turn to page 18985, paragraph 25. In the last line, you	
D	said that the WSD cannot determine solely by sight	D
E	whether the solder used for connecting pipes contains	E
F	lead during inspection. So soldering material is a consumable, filler	F
\mathbf{G}	material. Very often, once it's used, it will blend	G
	with the pipe. It's impossible to identify it by the	
Н	naked eye during inspection by the WSD. And you said at	Н
I	the beginning that the supervision work will be done by	I
J	the resident site team, and you said that if you depend	J
	on inspection, it may be too late.	
K	So the relevant stakeholders, whoever they are,	K
L	should supervise and monitor.	L
	It's also your understanding that none of the	
M	parties specifically checked to see if the materials	M
N	used are actually lead-free. The approval is one thing,	N
0	and you know that the HA does not require you to check	
0	solder materials. It's form 6210.	0
P	Let me ask you directly your understanding in the	P
Q	process of work is that no one will actually go to the	0
V	construction site to see what type of solder materials	Q
R	used?	R
S	A. You can't say that.	S
Т	Q. Then who actually has done it?	T
1		Т
U		U
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A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		uission of Inquiry into s Lead Found in Drinking Water	Day 58	В
C	Α.			C
D		different positions. I've been working on site,	_	D
		supervising sites. Well, not just the solder materia		D
E		I even check lubricants. Say, for example, some duct	ile	E
F		type well, there is a washer, to stop water from		F
_		leaking, it's made by EPDM, and if you use oil-based		•
G		lubricant, it will make that washer brittle, resulti:	ng	G
Н		in a leak, and if there is sufficient monitoring, yes	5,	Н
		at the time when the initial examination was done, the	nere	11
I		would not be any problems, but a few years later, the	ere	Ι
J		will be leaking.		J
•	Q.	Paragraph 25, let me ask you, straight to the point.		•
K		Requirements of soldering materials, there are		K
L		contractual requirements in the main contract, and the	nese	L
		requirements will go down to the plumbing subcontract	tor,	
M		and very often the main contract will require lead-f	ree	M
N		solder material; that you know?		N
	A.	We don't necessarily know whether that will be state	d in	
0		the contract. But for all contracts, whether it's		O
P		public or private or HD project, I know that we're		P
		required to comply with the law, and we understand the	nat	
Q		something is not to be used. According to the		Q
R		subcontract, it may not cover just the plumbing works	5.	R
S		And in the entire contracts, all the relevant		S
		Ordinances fire services, waterworks will be se	et	
T				T
U				U
		- 30 -		

A	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 58	В
C		out. It is very long. It was our focus.		C
	Q.	So, in relation to soldering, it's the Waterworks		
D		Ordinance?		D
E	Α.	Yes.		E
F	Q.	For the HA and the WSD, their respective purview is		E
F		related to solder materials. Say there is a contract	ual	F
G		requirement that you comply with the law, so the HA,		G
н		being the principal employer, will check whether you	use	Н
11		compliant material. So, for the HA contracts, it's t	the	п
I		duty for the HA to make sure that you comply with the	Э	I
J		contract. Under the WWO, do you know that there is		J
		a requirement, statutory requirement, that you use		•
K		lead-free solder material, and it's also under the		K
L		responsibility of the WSD?		L
		We know that the HA and the WSD at no time at all		
M		tried to see what solder material was used at the si	te;	M
N		you are aware of that?		N
0	Α.	For the WSD, in the works process, they did not insp	ect	0
Ü		solder materials. But whether they need to conduct		U
P		regular inspections under the system, I think that w	ill	P
Q		be impossible, because very often we talk about		Q
		cost-effectiveness. The law requires the LP to should	.der	¥
R		certain statutory responsibilities, to make sure		R
S		everything is done in accordance with the law. So yo	ou	S
		would not expect the tier above you to do it with you	1.	
Т				Т
U				U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Say, for example, you employ A to do something and then you employ B to supervise A and then you employ C to	C
D	supervise B. That would be duplication. So, in the	D
E	work, everyone will perform their respective duties.	E
	Q. So the requirement of lead-free solder materials is	
F	under the WWO, but your view is that requiring the WSD	F
\mathbf{G}	to send an officer to conduct inspection and test is not	G
***	practical, because under the system, the LP has a role	
Н	to play, which is to ensure that everything is	Н
I	compliant?	I
J	A. At the beginning, under the contract, under the law, all	J
	the approvals have been obtained. We order the right	
K	materials. There's nothing to see or check, because	K
L	these are the items that are distributed. Workers would	L
3.6	not be stupid enough to purchase materials of their own.	
M	COMMISSIONER LAI: So, according to you, there is no way to	M
N	supervise it?	N
0	A. No, it's not that. Well, if everything is done right,	0
O	we will not send someone to check the workers. Say at	0
P	the peak there are 20 or 30 workers doing the same	P
Q	process. Are you going to ask 20 inspectors of the WSD	Q
	to check them? Because you have to stand there over	
R	their shoulders when they are actually soldering.	R
S	CHAIRMAN: But if what you say stands, that means all	S
m.	Hong Kong citizens will have to abide by the law, there	
Т		Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	is no need to have any police officers. Then the judge will not have anything to do.	C
D	Well, every decision being made by a judge is being	D
E	monitored by people of different levels, and if we make	E
L	a mistake, we will be told off.	£
F	Let's have a break first.	F
G	(11.29 am)	G
TT	(A short adjournment)	**
Н	(12.04 pm)	Н
I	MR SHIEH: Mr Kan, we are on paragraph 25.	I
J	At the site, in reality, we know what actually would	J
	be done by the WSD and the HA. I will tell you so you	
K	can tell us whether you share the observation.	K
L	When WW0046 is submitted, there's an annex there,	L
	which would set out the parts, the fittings to be used.	
M	You know this?	M
N	A. Yes.	N
o	Q. But soldering material or sundry items, it's one of the	0
O	items to be listed in the annex. So, when the LP fills	О
P	out the WW0046, he doesn't really have to pay attention	P
Q	to which kind of soldering material? There's no	Q
	requirement under WWO046 on whether people should pay	
R	attention to the soldering material used; agree?	R
S	A. Yes.	S
T	Q. During the construction I'm not saying that LP WSD	
Т		Т
U		U
	22	

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	and their staff do not have an inspection system to	C
_	check the materials used during the construction?	
D	A. No, there's no such system, but I know the WSD also send	D
E	their staff to inspect construction sites.	E
F	CHAIRMAN: So they will check if the pipes are properly	F
•	connected before concreting?	r
G	A. Well, for some hidden pipes, the LP would report to the	G
Н	WSD. I am not talking about this. They have customer	н
	service staff of the WSD, when they go to visit the	11
I	site, if they see another site next to it, they would	I
J	sometimes enter for inspection. For example, approval	J
	has not been given for that other site and still some	J
K	people are working, they will check.	K
L	MR SHIEH: But there's no checklist that they would put some	L
3.6	ticks against certain items in the inspection?	
M	A. When partial completion is reported, you have to	M
N	highlight on the plan and tell the WSD that that part of	N
0	the project has been completed, and they will send some	0
Ü	people to have a look.	Ü
P	In Hong Kong, there are modifications as work	P
Q	progresses. So you may or may not follow the approved	Q
	plans, the building plans. The landowner, the owner and	•
R	the contractors may modify as they work. So we would	R
S	inform the WSD on any modifications and revisions. So	S
TD.	sending people to inspect your work during the	
T		Т
U		U

A	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
c		construction is not very meaningful.		C
D	Q.	Maybe for some reason you have asked them to give an inspection. So, even if there is such an inspection	lon,	D
E		they would not check the material used?		E
F	Α.	Yes, they will check the materials used, in accordant with the annex, whether they use the right pipes, and		F
G		also whether the alignment is the one approved.		G
Н	Q.	But you don't have to set out the soldering material	in	Н
I	А.	the annex? Well, as I've said, they won't check what kind of		I
J		lubricant you use, and so on and so forth.		J
K	Q.	So that's the WSD's work. The HA now, turning to the HA when the		K
L		contractor's materials are sent to the site I ask	ed	L
M		you a question about form 6210 you said you were sfamiliar with the form. You are more familiar with t		M
N		WSD forms, I suppose?		N
0	Α.	I did not participate in any HA projects in recent years.		0
P	Q.	All right. From your understanding, when materials	are	P
Q		sent to the site, the Housing Department would check	the	Q
R	А.	delivery? Yes. The Housing Department has a requirement of talk	king	R
S		some samples for testing.		S
T	Q.	I can tell you that they have a checklist. The check	k is	Т
U				U

A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	A	A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
C		done for certain documentation. No check is done on soldering material. Do you know that?		C
D	Α.		t I	D
E		not previously.	J	E
F	Q.	In paragraph 25, you said during the visual inspecting after work is completed, it's really not visible. We	1	F
G		are not talking about the main contractor. We are	(G
Н		talking about public authorities and government	1	**
п		departments, the WSD and the Housing Authority. So t		Н
I		have to submit a form with the annex to the WSD, and]	I
J		when materials are delivered to the Housing Departmen		J
		side, they will check the materials, but it doesn't		
K		cover soldering material. For you, who would do the	1	K
L		checking?	1	L
M	Α.	It's just something you rely on mutual trust. I have not recently been involved in HA projects. For priva	7	M
N		projects you know Hong Kong is a crowded place, as	nd 1	N
o		for private projects, they don't have a big ingress :	(o
P		vehicles, and very often it's a restricted zone around the clock on the will have to enter at a work name.		P
1		the clock, so they will have to enter at a very narro entrance.	JW I	Г
Q		So how could I know that they will deliver the	(Q
R		materials we use? We would inform the main contractor	or 1	R
C C		of the materials that we would order, and the residen	n+	~
S		staff of the main contractor or the resident enginee:	2	S
T				Т
U			τ	U

A	Annex: Realtime English Transcription	on based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Wate	भ	Day 58 B
C		king for us, when they are delive	ered to C
D	the site. Q. Maybe I should rep	phrase my question. HA and WSD	have to D
		Idering material involved, in te	
E		so on. But for checking delivery	Ł
F	-	epartment, it doesn't cover the	F
G	_	t, and the WSD doesn't require y	ou to ${f G}$
	set out the solder	ring material in the annex of th	
Н	Both are opportuni	ities that would otherwise be se	H ized to
I	tell you whether t	the soldering material is leaded	or I
	not, but then the	opportunity is lost, because the	ey just
J	don't check and yo	ou cannot tell whether the solde	J ring
K	material is leaded	d or not.	К
L	Let's set aside	e those deliberate cases, such a	L L
	informing you, "I	used this material and I intend	to use
M	another material."	' Let's set that aside. Do you	agree M
N	that those are opp	portunities to identify leaded	N
0	soldering material	.?	
0	A. If the site has be	een informed of the materials to	O be
P	delivered to the s	site, then there's a delivery no	te. P
Q	Q. Yes, but no one is	s there to check if the material	s are Q
•	in compliance?		V
R	A. If it's just the s	soldering material, if let's say	, R
S	Prosperity is deli	evering some soldering material	to the ${f s}$
_	site, the note wou	ıld say it's unleaded.	
T			Т
U			U
		0.77	

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Q. Here, we are talking about the system, not just the	C
D	public organisations, the Authority. Either you set out	_
D	what's to be used, or you check the materials delivered,	D
E	but all the parties concerned missed out on the	E
F	opportunities available. If I invite you to comment on	TC.
Г	the opportunities lost, who did worse than the others?	F
\mathbf{G}	A. WSD requires the LP to do the project properly, and it	\mathbf{G}
Н	would do the inspection afterwards. WSD would not be	Н
11	informed whether there's someone working on a particular	п
I	day, and WSD cannot employ so many people to just do	I
J	routine inspection to the site.	J
J	For private projects, you don't want some	3
K	inspectors, they are standing to watch what you are	K
L	doing.	L
	You know about some latent shortcomings, for	
M	example, during building a building, you have to pour	M
N	concrete, there is a minimum size set. So do you	N
0	require the BD to inspect that there is a gap between	
0	the formwork and the concrete?	0
P	So in relation to all construction workers,	P
Q	the owner of the project will appoint representatives to	Q
· ·	supervise the site, and the supervisor will inspect	Q
R	progress of work, whether everything is in compliance	R
S	with the contract.	S
	So if that person is knowledgeable of a certain	
T		T
U		U
	20	

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	area, they will know.	C
	Q. About the owner representative, it would be Housing?	C
D	A. For private projects, it depends on who is appointed.	D
E	Q. For Housing, they would see whether you comply with the	E
	contract, but for the WSD, you think they have no legal	
F	responsibility, but they have to make sure that the law	F
\mathbf{G}	is complied with?	G
***	A. It's not that. As I said, for some latent defects, we	
Н	see that there have been a number of cases in Hong Kong	Н
I	when a chunk of concrete has fallen off from the	I
J	external wall, because there is spalling, because of	J
· ·	some inadequate work procedure. Would you then blame	J
K	the BD, because they are the supervising department?	K
L	There are a lot of construction sites in Hong Kong.	L
	It is not practical to require them to carry out	
M	inspections for everything.	M
N	Q. Well, if it's spalling, then well, even if you have	N
0	done the work properly, you may not be able to spot it.	
0	CHAIRMAN: I agree with what you said, that there are many	0
P	projects, it's impossible to inspect these sites every	P
Q	single day, but at least there should be some random	Q
	checks?	*
R	A. Well, from the many years of experience I have, I have	R
S	not seen the BD	S
T.	CHAIRMAN: Well, BD may not do it, but that's not the focus	_
T		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
	of the Inquiry of this Commission. We will have to	
C	it is a separate matter.	C
D	Counsel is trying to say that the WSD has	D
10	supervisory duties. It doesn't really matter how well	_
E	the law is written if there is no enforcement. The law	E
F	may be perfect, but after, say, a few months, people	F
G	find that there is no law enforcement action taken, then	G
J	people will not comply with the law. So, when there is	ď
Н	the law, there needs to be a body to enforce the law,	Н
I	otherwise it will be useless.	I
	If you say you can just park your car on a double	
J	yellow line because police officers will not enforce the	J
K	law, do you think anyone will be bothered to find	K
т	a car park? So does it mean that police officers will	-
L	have to be posted at the end of every street?	L
M	So what counsel is trying to ask is along this line.	M
N	The Housing Department has their responsibility, because	N
1,	they are the employer. They will have to inspect and	11
0	accept the works. Does it mean the WSD has no	0
P	responsibility? There is the law. I agree, yes, it's	P
	impossible for many construction sites to have and on	
Q	top of that, there are many households undergoing	Q
R	decoration or renovation. It's impossible to send	R
C	an officer to check every single unit, but it doesn't	~
S	mean that there shouldn't be any checking at all.	S
T		T
U		U
		~

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	A. We've had some meetings with the WSD, and we discussed	C
C	about whether to set up a system.	C
D	We are licensed plumbers. For minor works, for some	D
E	E&M projects, then a registered company, a business,	E
	will carry out the duty under the system. If there is	
F	a system saying that if any irregularity is spotted, you	F
G	as the supervisor will be held responsible.	G
	CHAIRMAN: Well, this is a different matter, a separate	
Н	thing. The thing is, even when there is such a system	Н
I	in place as you describe, the WSD will have to make sure	I
J	that the system is actually implemented.	J
U	A. Previously, there was no such system under the WSD, but	J
K	after the excess lead in water, in July the WSD issued	K
L	a lot of circulars. They now require spot-checks.	L
	There were none but now there are spot-checks, so it's	
M	actually done.	M
N	MR SHIEH: For an investigation, it may not be just about	N
0	the incidents. Yes, we know that lead will have to be	0
O	tested, on top of three other materials. But this time	О
P	it's WSD; maybe in the future it's some other	P
Q	department. So we have to take a macro look.	Q
	HA and the WSD, they have respective tasks. When	¥
R	delivery of material is made, then the soldering	R
S	material will have to be checked, say for example	S
_	whether it is actually FRY, and there's an annex	
T		T
U		U

A

A	nnex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	have said something that is misleading, that is if you	C
C	use a British-made product, you will be fine.	C
D	Q. People think it's been omitted, the chance was missed.	D
E	They all think this was just filler material, nothing	E
	big will happen, so I just assume it's compliant,	
F	because once it's used, it disappears, and that's more	F
G	or less what everyone has said.	G
н	So what do you say about that? Do you think, well,	TT
11	that's perfectly reasonable because it's a small item,	Н
I	it occurred to no one that something will happen, or is	I
J	it the case that there is a contractual requirement, and	J
	as the chairman said, at least you will have to go	J
K	through the motions so that people will stay alert? Or	K
L	is it the case that, no, that's not really the case?	L
	A. I think in relation to these incidents there's certainly	
M	neglect, and I'm only talking in relation to what	M
N	I know. As I said, there was the XRL project 823, for	N
0	diluting paint, turpentine, and we would invite the	0
O	owner whether to accept the material. I think it's down	О
P	to whether the contractor is responsible.	P
Q	Q. Let's leave the contractors alone, who are maybe	Q
-	ordering the wrong material, I think at the top level.	•
R	A. I think what we can all see, I've been in construction	R
S	sites for many years, for supervisory staff, they are	S
T.	very busy, because they have to inspect and accept a lot	
Т		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	of items. They have to prepare lots of reports. For my	C
D	construction sites, most of the engineering staff will have to work overtime, uncompensated. As I said, for	D
E	the West Kowloon, work has not started at all, not even	E
F	one pipe. But from April to October last year, on	F
	average my staff finished work at about 7.30 or even	
G	9 o'clock. They work overtime without pay for two to	G
Н	three hours a day, because there was just too much work.	Н
	If someone's responsibility is to supervise and	11
I	monitor, I think they are simply exhausted.	I
J	Q. I understand. I'm not blaming those on the site. They	J
ū	have the list, and if it is not on the list they will	J
K	not check an additional 10 items?	K
L	A. If it's already put in place, then it will not be missed	L
	or omitted.	
M	Q. So you think it should be added?	M
N	A. Well, if you formulate a piece of legislation for	N
	implementation, if you monitor everything well, when	
О	I was interviewed, very often I was asked one thing.	0
P	When there is a system in place, what you see is that	P
0	the site is very busy; you will need to have additional	0
Q	resources.	Q
R	And I said this at the outset. And these items are	R
S	inexpensive items, so we never expect someone to try to	S
T.	cut corners in this regard.	
Т		T
U		U
X 7	- 44 -	

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A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
C		It's not that I think it's perfectly reasonable.		C
		I myself do everything in the right way. For some ot	her	
D		people, I won't comment. For myself, I have to do wh	nat	D
E		is right by me.		E
IF.	Q.	You just comment, but when you are asked, you will s	ay,	_
F		"Well, what has been omitted?", and if that's really	the	F
G		case, who has neglected their duties, and how come the	nose	G
Н		that are on a higher level have missed that? So plea	ise	**
n		refrain from just talking about what you would do.		Н
I	Α.	Say, for example, for bar benders, they use cables,	and	I
J		you know it's very important because it involves the		J
J		structure of the building. So, for these wires, they	7	J
K		will have to be softened by heat so that it would be		K
L		pliable. But that is not the case for these filler		L
		metals. So in practice, can all this be done and		
M		maintain cost-effectiveness?		M
N	Q.	I understand that it may be inexpensive, but if it i	S	N
0		substandard, it will affect, say for example, health	, or	0
O		say, for example, if it's not fixed properly the		О
P		building will collapse?		P
Q	Α.	I think public education is insufficient about the		Q
•		excessive lead in water.		Q
R	Q.	Yes, maybe you won't die instantly because of that,	you	R
S		will have to wait for many years. This time, we talk	:	S
		about lead, but next time it may be about some other		
Т				T
U				U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	heavy metal. So shall we go for cost-effectiveness, or	C
	should we value something on the basis of the price?	
D	It's health-related.	D
E	A. Before this incident, I had paid little attention to	E
	lead in water. After the incident, I searched for the	
F	information on the internet, and that's when I found	F
G	out. As a licensed plumber, what I cared about was to	G
**	comply with the law and also the requirements in the	
Н	contract. Every contract will stipulate what to be	Н
I	used. Then it will be approved by the tier above you,	I
J	as very often they would say you must use the materials	J
	in accordance with the instructions of the manufacturer.	•
K	As I told you, after the year 2000, I saw in the	K
L	catalogue of copper pipes that unleaded soldering	L
	material had to be used. So, no, there will be no	
M	problem if you follow the instruction from the	M
N	manufacturer. That would be the responsibility of the	N
0	site team.	
0	Q. So previously you knew about this requirement in law and	0
P	in the contract, and after the incident you then	P
Q	realised that it's health-related?	Q
V	A. Well, I knew lead was hazardous to health, but I did not	Q
R	pay much attention to WHO requirements or safety of	R
S	drinking water require certain things to be done. So we	S
	would only follow the Waterworks Ordinance, and we	~
T		T
U		U
	- 16 -	

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	believed that full compliance would mean everything	C
	would be okay.	
D	Q. I would like you to look at AB1. Have you heard of this	D
E	gentleman called Chan Siu Wing?	E
	A. I know him.	
F	Q. He testified in this Commission some time ago. He is	F
G	from the Hong Kong Plumbing and Sanitary Ware Trade	\mathbf{G}
Н	Association Ltd.	11
п	Is your company a member of this association? It's	Н
I	a trade association; the members are companies?	I
J	A. Well, both individuals and companies can be members. My	J
	company is a member, but it wasn't at that time.	•
K	Q. This Mr Chan submitted a number of documents to us. In	K
L	1998, the Secretariat of the Trade Association issued	L
	this document to its members. It's a circular, a letter	
M	to members:	M
N	"Connecting copper pipes and fittings for hot and	N
0	cold water. Please pay attention to the following.	0
O	Please use lead-free soldering fitting. If you use the	0
P	end feed capillary fitting, you must use lead-free	P
Q	solder."	Q
	Mr Chan could not tell us why they had to issue this	· ·
R	letter to members, why it was necessary to remind	R
S	members. So, towards the end of the 1990s, can you	S
	recall whether there was anything special, any special	
T		T
U		U

A	Annex	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
C		talking points or incidents, that would prompt the t to pay attention to these issues?	rade	C
D	А.		wa c	D
	A.	not a member of this trade association. I did not	was	
E		receive this. If I had received this, I might try to		E
F		search for relevant information as regards why, but		F
G		company I was not a member.	y	C
G	0	And you cannot recall what happened back then in		G
Н	٧.	Hong Kong that would have prompted the trade associa	tion	Н
I		to issue this letter? Was there anything special to		I
•			ally	1
J	_	construction projects?		J
K	Α.	1 1		K
		training courses came into my employment, and I paid		IX
L		attention to the catalogue prepared by the		L
M		manufacturers. I recall that under BS 1057, lead-fre	e	M
141		solder has to be used.		IVI
N	Q.	Please look at this document. It's a newsletter. It	ː's	N
0		also from the Hong Kong Plumbing and Sanitary Ware T	rade	o
O		Association Ltd.		U
P		This document was distributed in an annual dinner		P
Q		gathering of members, "The development of lead-free		Q
•		copper alloys for use in drinking water applications	in	V
R		the European Union". So, simply put, it's a situation	on	R
S		in the EU. Four member states of the EU were planning	ıg	S
T		to promote compliance and safety and the use of		Tr.
1				Т
U				U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	compliant non-lead fittings.	C
D	Then we have another one from Joe Ku, a local	D
D	technical adviser. It's an article on lead-free water	D
E	supply systems. Also, to cut a long story short, he	E
F	states here that lead in water can be hazardous, and	F
r	also the fact that the US has got a law to tackle lead	r
G	in drinking water, but so far there was nothing in	G
Н	Hong Kong. Then there were some suggestions. That's	Н
11	page 99. You can see the fittings, the photo showing	п
I	the fittings.	I
J	Well, he was not giving a forewarning on the current	J
ū	lead in water incident. He was talking about the US	J
K	scenario, and the fact that there were laws in the US to	K
L	tackle lead in drinking water.	L
	Did you attend the gatherings?	
M	A. The first one, yes, not the second one.	M
N	Q. During such occasions, they would give you some	N
	literature, some documents. Can you recall that you had	
0	a chance to read some of these?	0
P	A. I attended the first gathering, so I did take that	P
0	booklet back.	
Q	Q. It's a book, it's a publication?	Q
R	A. Yes, it's a publication. It's about 70 to 80 pages. So	R
S	I glanced at the topics covered. For example, the	S
S	standards to comply with. So we will take a glance and	ъ
T		Т
U		U
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T 7	Transcript by DTI Corporation Asia, Limited	

Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	know what standards to follow. Here, they are just	C
D	talking about some suggestions. But as a licensed plumber, we have to follow the local legislation.	D
E	I know who Joe Ku is.	E
L	Q. In the second one we are talking about the first one,	Ľ
F	2014, tab 8.	F
G	A. I know who Joe Ku is.	G
Н	Q. But it was in 2015, the gathering that you did not attend?	Н
I	A. Many LPs in Hong Kong are knowledgeable. Some are	I
J	holding high positions, and he is one of them. They are	J
Ü	responsible for advance preparation in consultancy	J
K	firms. They will head waterworks projects divisions in	K
L	the companies, and they were the people who select the	L
M	plumbing materials to be used. The consultant's firm	M
N	would also have access to the outside work environment and not just the Hong Kong local situation, and some	N
14		N
O	would be carrying out different plumbing works in the US, in Europe and the Middle East. They would share the	0
P	experience gained with local practitioners.	P
Q	So we joined such trade associations to gain access	Q
	to information and the practices elsewhere.	•
R	Q. So, if there were incidents, you may be prompted to	R
S	consider whether similar incidents could have happened	S
T	in Hong Kong?	Т
		-
U		\mathbf{U}

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	A. Yes. CHAIRMAN: Let's return to the 1998 document which Mr Shieh	C
D	has asked you to look at. It's the circular in March	D
E	1998. You said it was in the year or after 2000 that	E
F	you knew about the use of lead-free solder? A. Well, as a matter of requirement, yes.	F
G	CHAIRMAN: In the Waterworks Regulations, it's still BS 864	G
Н	part 2 it's set out in the regulations. Do you know that in January 1998, by coincidence, 1254/1998 was	Н
I	promulgated, replacing 864. So in January 1998, the	I
J	British Standard Institute promulgated that. So you doesn't know that at the time?	J
K	A. No, I didn't pay attention. Actually, it was not	K
L	prohibited. BS 864 was not prohibited. We didn't have	L
M	to submit information on fittings. CHAIRMAN: You mean soldering material?	M
N	A. No, fittings. The pipes would have to comply with the	N
O	BS 2871 or other standards. Well, it's not that once a new standard is promulgated, all sites would be	0
P	prohibited from using material complying with older	P
Q	standards. CHAIRMAN: Okay. 864 was promulgated in 1983. At first,	Q
R	leaded fittings, fittings containing lead were allowed;	R
S	did you know that?	S
T	A. Well, I joined the trade in the 1970s. For the entire	T
U		U

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V

Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	trade, they would buy soldering sticks.	C
Ü	MR SHIEH: Leaded, you mean?	C
D	A. We now know, but our masters, our instructors, never	D
E	said whether it's leaded or not. When I took the	E
	licensing examination in the 1980s, we were all using	
${f F}$	solder sticks.	F
G	CHAIRMAN: All right. Understood.	G
Н	864, part 2, I can tell you, take it from me, that	***
п	in fact in 1983, when it's promulgated, there was no	Н
I	express requirement, and in fact grade C and D leaded	I
J	components or fittings could be used. You said the new	J
	standards cannot be implemented right away because some	Ū
K	people out there are still using standards complying	K
L	with old standards.	L
	We know that in 1987, there was an amendment, that	
M	is for drinking water systems, the lead content must be	M
N	below 0.001 or something like that. But the WSD did not	N
0	amend the regulations. They only referred to 864-2.	O
O	But funnily enough, in the regulation, they said to	U
P	use the latest one. So which one? So, when I am	P
Q	already doing it, I can continue to use the leaded one	Q
	or the non-leaded one; do you understand?	
R	Let's first talk about his understanding, because	R
S	the BS is changing all the time, and my understanding	S
TD.	about the reason at that time, in the regulations, it	_
Т		Т
\mathbf{U}		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	says "the latest BS". Let's see if my understanding is	C
D	right, because if it's in the Ordinance, it says BS 1234, then 1234, as we know, will keep changing.	D
E	There are many amendments. And if you use BS 1234, then	E
F	at this time, you will have to use the latest amendment of BS 1234.	F
G	However, for the WSD, it's different. BS 1234 no	G
Н	longer exists. It's BS 4567. 867 becomes 1254. Still there is no change. So which one am I supposed to use?	н
I	A. As to about which was used, first, we will look at how	I
J	we see it and what the contract says, and if in the law	J
K	there is no clear reference as to what is wrong, we will not assume that it is wrong. If it is available in the	K
L	market, we will purchase what is clearly stated in black	L
M	and white, say copper pipes. For some main pipes, we will use ductile pipes. I don't know in which year it	M
N	changed to EN 545. But very often we are still required	N
0	to use BS 477. CHAIRMAN: Let's put it this way. I am a plumber. VTC	0
P	teaches me to use lead-free, but if I see in the WWO	P
Q	Regulation, it still says 864 part 2, then which am I supposed to use?	Q
R	MR SHIEH: But if you state it in black and white, I will	R
S	believe you, I will use this one. I will not check	S
T	whether it's an up-to-date BS.	T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	CHAIRMAN: There are many types and the WSD did not issue	C
D	any circular saying, "It's changed, you can't use the first version anymore", because version 2 may say you	D
${f E}$	can't really use it; maybe version 3 will say you can't	E
F	use it at all. But then you will have to see if the trade can actually catch up with the requirement;	F
G	otherwise, you don't have to comply with it.	G
Н	A. But that is the truth. CHAIRMAN: Then there will be trouble.	Н
I	A. Our company is also engaged in public works. In 1996,	I
J	we were already a fire services installation subcontractor. We also have taken up government	J
K	projects. They are usually very up-to-date. If they	K
L	say something is updated, then it will have to be	L
M	adopted. CHAIRMAN: Yes. The ASD said in 1993 that lead-free is to	M
N	be used.	N
O	A. Yes. We will immediately go to find the BS standard. Say, for example, the fire station in Tseng Choi	O
P	Street well, there was a requirement to use	P
Q	galvanised GI pipe, and there was a certain requirement to the standard.	Q
R	However, we could not find the material. It's not	R
S	available yet.	S
T	MR SHIEH: Let's look at lead-free or leaded. Look at the	T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	WWO Ordinance. In the relevant section, there is a	C
D	British Standard highlighted. We don't know whether it's updated anymore, but you can still see it in the	D
E	law, and at the same time they say we have to use the	E
	latest British Standard.	
F	If I am just a layman, if I see an obsolete BS,	F
G	I may think I can use it?	G
Н	A. If you are a big company, then you have an edge.	Н
	Q. Why?	п
I	A. Because they know how to do research. In the 1990s	I
J	CHAIRMAN: I think he understands.	J
	MR SHIEH: He's someone from a small company.	
K	A. When there is a new standard, some salesperson will come	K
L	to me to tell me. They will only go to big companies.	L
	Well, we are not a big company, but we are known. So	
M	whenever there is a new standard, salespersons will call	M
N	me and tell me about it and ask me to make some	N
O	purchase.	0
U	That's why some LPs know while others don't, because	O
P	we rely on salespersons to disseminate information.	P
Q	MR SHIEH: So it depends on who you know, then?	Q
	CHAIRMAN: It's the WSD who issues the licence, who oversees	
R	the water supply quality in Hong Kong.	R
S	MR SHIEH: But do you think this is an acceptable system?	S
	There is one, that is a catch-all, which says you have	
T		Т
U		U

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	to use the most updated version, and then at the same	C
D	time they say you have to use this BS obsolete standard. What do you say on that?	D
E	A. There is room for improvement. Of course, when	E
F	something happens, it's about how to improve. Society progresses. Systems are to be improved. And now we see	F
G	that some LPs can't catch up with the latest	G
Н	information. Perhaps the WSD will have to do a bit more. When there is a new standard, they will issue	Н
I	more circulars to LPs and recognised authorised persons.	I
J	CHAIRMAN: No, not circulars, because I don't really believe in things like that. Why don't you just change the	J
K	laws, stating clearly when it is to take effect, British	K
L	Standard, say, 1234, effective from which month of which	L
M	date, which year? That's it. A. From the legislation that I have seen, it's never said	M
N	that a for a certain thing, a British Standard is to be	N
o	used. CHAIRMAN: Yes, of course, by all means, you use the	0
P	circular as a supplementary tool. But you can state the	P
Q	effective date. If you think the trade can't catch up,	Q
R	clear, starting from this date, BS 1234 becomes obsolete	R
S	and you have to use BS 5678. Do you understand?	S
T	Apart from the WSD, I think there are BSEs or LPs	T
U		\mathbf{U}

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	who would read the WWO most often?	C
	A. I have never opened the WWO. That is prior to this	· ·
D	incident.	D
E	For practitioners and stakeholders, it is very	E
	important whether they keep abreast of the times. Say,	
F	for example, there are some fresh grads joining my	F
G	company, I will teach them how to use the WSD website,	\mathbf{G}
Н	about the WWO, WWR, and also installation standards.	11
П	There is transparency in government departments.	Н
I	They have uploaded all the different standards.	I
J	MR SHIEH: So is the BS, the British Standard uploaded?	J
J	Because it will cost you \$1,000 to purchase the book.	•
K	A. Well, I am eager to learn. In the 1980s, I would wonder	K
L	what a BS is, and I found that I could not find the	L
	information in a public library. Where can I find it?	
M	In the polytechnic university and HKU library. At that	M
N	time, my brother was studying in the polytechnic, so	N
0	I asked him to borrow it and find a way to copy it.	0
Ü	So if you have someone studying in a university,	0
P	then you are lucky.	P
Q	So there is very little understanding about the BS	Q
	amongst the public.	
R	CHAIRMAN: Well, it's more important that the WSD has to	R
\mathbf{S}	make sure that people know.	S
Tr.	A. Yes, they do have to tell people what standard is to be	
T		Т
U		\mathbf{U}

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V

Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	used, but as to whether it is to be written into the	C
	law, I have reservation. Because it's very cumbersome	
D	to change the law.	D
E	CHAIRMAN: No, you are wrong. It's very simple to change	E
F	the regulation. MR SHIEH: Yes, if it's a legislative amendment, you may	F
G	have to go to the LegCo.	\mathbf{G}
	CHAIRMAN: But Mr Lai told me that actually it's very easy	
Н	to change the law.	Н
I	MR SHIEH: The crux of the problem is that there is	I
J	a catch-all saying that you have to use the most updated	J
Ü	British Standard. However, if there is the latest	3
K	British Standard issued tomorrow, strictly speaking, you	K
L	have to use the most up-to-date version. The WSD gives	L
M	you a grace period. It's because the WSD is aware that	M
M	the trade needs time to catch up. But strictly	M
N	speaking, people who don't use the most updated version	N
0	have broken the law. It's just discretion that they are	o
	not caught.	
P	So what do you say about that?	P
Q	A. I haven't really talked to the WSD about this. If there	Q
	is a grey area, causing law-abiding citizens to	
R	inadvertently break the law, I think there needs to be	R
S	clearer definition.	S
Т	Q. So, sampling, I would like to ask you. Paragraph 39,	Т
1		1
\mathbf{U}		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	page 18990.	C
D	You said that when it comes to prior to water supply	D
Ь	connection, they will have to take water samples in the	D
E	connecting points, underground, and there were eight	E
F	parameters, and four added.	F
r	We have heard from a lot of people, from plumbing	Г
G	subcontractors, from senior government officials, that	\mathbf{G}
Н	in the trade, that is in relation to plumbing, there is	Н
**	this impression. Whether it's right or wrong is	11
I	a different thing.	I
J	The WSD, after examining water samples, would issue	J
	a water certificate, 1005. But after this step, is the	J
K	impression of the trade that the Water Supplies	K
L	Department has already given you a clean bill of health,	L
	that you have complied with the WWR? You are from the	
M	trade; do you have this understanding?	M
N	Let's leave aside whether this understanding is	N
	right or not. The WSD said that it is to check the	
0	quality of water sample, but did you know at that time	О
P	that the issuance of 1005 in effect means the WSD is	P
0	happy that the entire water supply system conforms with	
Q	the WWO?	Q
R	A. At the very early stage, it's my understanding that the	R
S	WWO is to ensure that there is sufficient quality fresh	S
	water supply in Hong Kong.	
T		Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 58 B
C	In a meeting with the WSD, I remember it was as	C
	early as 2009, I joined the Smart programme. I have	
D	criticised some WSD officers, saying that the WWO was	D
E	very outdated; some of the provisions are in relation	to E
	water rationing, but now we have Dongjiang water, thes	е
F	provisions should be relaxed. I was told there were	F
G	such provisions in the WWO to ensure continuous supply	G
***	of quality fresh water in Hong Kong and to prevent	
Н	contamination of the water supply network. The WSD	Н
I	people were staring at me when I first said that.	I
J	So when it comes to test well, to flush the	J
Ü	system is to prevent backflow of contaminated water.	3
K	CHAIRMAN: But when you take water sample, it's one at the	K
L	water connection point and the other one is to check	L
	whether there is a backflow of contaminated water. The	е
M	other one is at the tap. But that is not to check	M
N	backflow; it's to check water connection.	N
0	A. At that time, we had many meetings with the WSD. And	0
O	the checking of the connection point would have to be	0
P	done before the occupation permit. We have to ensure	P
Q	there's no contamination. If it's a big housing estat	e Q
-	with many units, you have to flush and clean all the	_
R	water. You have to buy water, because supply is not y	et R
S	provided. Well, you have to make sure the water in th	e s
	pipe is clean.	
T		T
U		\mathbf{U}

A	Annex: Realtime	English Transcription based on floor / Simultaneous Interp	retation A
В	Commission of I Excess Lead Fou	Inquiry into and in Drinking Water	Day 58 B
C		we had this understanding with the	\mathbf{C}
D		e time when water supply is connected ce is clean, and the samples from the	n.
E	servi	ce were taken after the issuance of 1	1005. So, at E
	that]	point, it's not for the purpose of p	revention or
F	conta	mination but to ensure water quality	and also to $\begin{tabular}{c} F \end{tabular}$
G	ensur	e whether the plumbing contractor has	s cleansed and ${f G}$
Н	flush	ed the water pipes properly.	н
11	Q. After	1005 is issued, then you have to ha	
I	test,	at the tap? It's not mandatory; it'	s not ${f I}$
J	a pre	requisite or anything.	J
	A. Accor	ding to the Ordinance and the Regula	
K	to fl	ush and clean, and in 2012 the WSD is	ssued K
L	guide	lines on how to flush and clean.	L
	Q. It's	because of Legionnaires' disease, yo	u were
M	encou	raged to do more.	M
N	A. And w	we were given instructions on how to	flush the $$ $$ $$ $$ $$ $$
0	pipes		
0	So	the problem now lies with the insid	e service.
P	They 1	have clear guidelines on how to clear	n it and how to ${f P}$
Q	do the	e testing.	Q
•	Q. I am	not looking into the detailed purpos	_
R	that 1	before issuing 1005, the purpose of t	testing the $oldsymbol{R}$
S	water	sample for eight parameters is for t	the purpose of ${f s}$
	preve	ntion of cross-contamination. We all	_
T			Т
U			${f U}$
		- 61 -	

Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	know and I know. But before this incident, many people in the trade had the impression that after testing for	C
D	the eight parameters, they would issue certificate 1005,	D
E	and that means, to them, they thought the waterworks	E
	would be in compliance with the WSD and the law. That's	
F	their impression. Right or wrong is another matter.	F
G	Did you know that? Did you have that impression?	G
Н	A. You are asking me what they thought. I cannot say	11
п	anything that I cannot really prove.	Н
I	Q. Well, we will know. We will ask them.	I
J	CHAIRMAN: An expert is in a special position, in that you	J
	can offer your comments. You may talk about the	
K	practices or the impression on the part of people in the	K
L	trade.	L
3.4	A. I have more contact with people who are knowledgeable.	
M	For example, Mr Leung, Mr Wong and members of the trade	M
N	associations and people who attend the seminars, and who	N
O	have done a lot of site visits. These are the people	0
O .	who are taking on new information all the time.	U
P	So I cannot really assume that they didn't know at	P
Q	that time.	Q
	MR SHIEH: I have one more paragraph that I would like to	•
R	refer you to.	R
S	CHAIRMAN: Let's leave it to the afternoon.	S
	(1.06 pm)	
T		Т
U		U

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	(The luncheon adjournment) (2.32 pm)	C
D	MR SHIEH: Mr Kan, I would like to talk to you about two	D
E	subjects.	E
	When you took the licence to be an LP, there was	
F	a grade I and grade II. You sat for the grade I exam;	F
G	right?	\mathbf{G}
	A. Yes.	
Н	Q. Did you attend any course of instruction?	Н
I	A. There was no such requirement, no requirement of course	I
J	attendance.	J
J	Q. Did you attend any course before taking the examination?	J
K	A. I didn't. I hadn't, in the first examination. But	K
L	I failed twice and then I realised it would be better to	L
	attend a course first.	
M	Q. There were two different grades and now we don't have	M
N	it, so the system is very difficult, although licensed	N
0	plumbers are still called licensed plumbers; do you	
0	agree?	О
P	A. Yes.	P
Q	Q. So, when you attended a course, you were taught to do	Q
•	the soldering using solder sticks?	V
R	A. During those years, those who took the exam were mainly	R
\mathbf{S}	in the job of jointing pipes.	S
_	Q. There was no practice, so you were assumed to know it?	
Т		Т
U		U
V	- 63 - Transcript by DTI Corporation Asia Limited	₹7

Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	A. In the 1970s, there was no question of lead-free or	C
C	leaded solder. The first time I took the examination	C
D	was in 1977. It was not an issue then.	D
E	Q. Did you have a practical test?	E
	A. No.	
F	Q. So you were not tested on soldering technique and your	F
G	instruction programme didn't say anything about that?	G
**	A. Well, the instruction was on the Waterworks Ordinance	
Н	and water installations, and also what to cover in the	Н
I	submission for approval.	I
J	There were two parts in the examination. There	J
9	would be a plumbing proposal setting out the criteria at	J
K	the examination centre, and we had to design a line	K
L	diagram in accordance with the criteria. Then, after	L
	passing this, there would be an interview. Inspectors	
M	of the WSD would ask us questions about the Waterworks	M
N	Ordinance.	N
	Q. In other words, when you became an LP, there was no	
0	course of instruction telling you how to use soldering	0
P	material, and there was no test on soldering technique.	P
Q	But for you, before you took the examination to become	0
V	an LP, did you learn to solder?	Q
R	A. Yes, I learned from people working on the site.	R
S	Q. So you had to learn from a master. Did they use sticks?	S
	A. They work for different companies. All of them used	5
T		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	sticks.	C
C	Q. So it's a rod-like stick. Is it 50 per cent lead or	C
D	what?	D
E	A. We would buy large quantities of soldering sticks from	E
ъ	hardware stores, much bigger than those you see. Then,	
F	after buying those, we would melt them and put them in	F
G	a container. Then we would use an angle bracket to	G
Н	contain the melted solder.	Н
11	Q. So the shape is determined by the L-shaped bracket?	н
I	A. Yes.	I
J	Q. The angled bracket would determine the shape?	J
	A. Yes.	J
K	Q. In paragraph 38, you said that the workers in your	K
L	company said the training institute asked them to hold	L
	the solder roll in hand in soldering work. So the	
M	training institutes, according to your understanding,	M
N	taught them how to use lead-free solder. What	N
0	institutions are we talking about; CIC or VTC?	
0	A. It's under IVE. After the year 2000, there were	0
P	apprenticeship schemes, and we would sign three-year	P
Q	contracts with apprentices. We paid them an allowance	Q
•	and also trained them, so that we could get a regular	V
R	supply of workers.	R
S	On the other hand, we learned from the catalogues	\mathbf{S}
	with photos and illustrations, on how to use the	
T		T
U		U

A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		s Lead Found in Drinking Water	Day 58	В
C	0	lead-free solder.		C
D	Q.	Let's pause here. I'm talking about training institutions. Where did they come from, those trained	es?	D
E	Α.	IVE.		10
£	Q.	Now I would like to move on to the last subject, las	t	E
F	~	topic. It's paragraph 49 of your report. You have s		F
G		suggestions for the instruction programmes for the		G
		licensing of plumbers. Paragraph 49, you want to		
Н		propose training courses leading to the award of		Н
I		licensed plumber status. At present, mainly we have		I
J		VTC; in training the licensed plumbers, mainly it's	VTC.	J
ū		Of course, there are other channels. Equivalent		J
K		qualifications are also recognised. If a young person	on	K
L		wants to become a licensed plumber, the first choice	is	L
		to go to VTC, and also IVE, there are similar		
M		programmes?		M
N	Α.	For gaining recognition, for government, you have to		N
0		attend the three-year course offered by IVE. There's	5	o
Ü		only one such course.		U
P	Q.	In paragraph 49, the last five lines, you mentioned	the	P
Q		Technological and Higher Education Institute of		Q
		Hong Kong introduced a professional diploma course		
R		equivalent to level 5 of the qualification framework	, in	R
\mathbf{S}		2015.		S
Т		So are you proposing that this qualification be		T
1				Т
U				U
		- 66 -		

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	recognised?	C
D	A. After they have completed the course, we intend to ask the WSD to recognise the qualification.	D
E	Q. But whether it would be recognised would depend on what	E
	contents are covered in the training, and it would take	L
F	the government to recognise this qualification as one	F
G	that would be accepted under the law, because there is	G
TT	provision on the recognition of equivalent	••
Н	qualifications, and that is the authority for dealing	Н
I	with LP will have to make a decision on that, and that	I
J	is WSD. Even without amendment of the law, the WSD can	J
	recognise this qualification as equivalent?	
K	A. Yes, that's what we are trying to ask them to do.	K
L	Q. Lastly, in paragraph 50, you offer some comments on the	L
	HKUST article.	
M	A. After receiving the article, I did call the workers	M
N	doing the installation in the university and asked them	N
0	whether they heard about this during their work there,	0
O	and they said no.	U
P	Q. Let's look at the article. It's page 18996.	P
Q	CHAIRMAN: What's the relevance? It's not really relevant	Q
	to our hearing.	
R	MR SHIEH: Not really, but it seems like the expert is	R
S	trying to offer some clarifications.	S
т	All right, he has clarified the situation with the	·
T		Т
\mathbf{U}		U
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A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	institute, but in this article, there are other points	C
D	raised. For example, "tilted towards the motherland" is one assertion, and of course we are not using mainland	D
E	solder.	E
F	Please take a look at this article. In the middle part, paragraph 4, it says:	F
G	"Hong Kong has a strange system: although we	G
TT	regulate the use of leaded pipes, but there's no need to	**
Н	report the content of soldering material. The most	Н
I	important thing is that in the acceptance tests, they	I
J	only test for acidity and alkalines or toxins, but not heavy metals."	J
K	So it's a rather harsh criticism. What's your	K
L	response to this?	L
M	The writer said the system in Hong Kong was strange.	3.6
M	There were regulation, but acceptance test does not	M
N	cover certain things and no information on certain	N
O	matters has to be submitted.	0
	A. If you think about it, it's really strange. All along,	
P	we have been depending on the trade and the co-operation	P
Q	of the trade, from procurement to delivery to site. So	Q
R	it was strange that we still had an incidence like this.	R
	MR SHIEH: I have no more questions.	K
S	CHAIRMAN: Would anyone else like to raise questions? The	S
T	Housing Department first.	T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Cross-examination by MR HO	C
_	MR HO: Mr Kan, no offence can you confirm that you have	
D	not undertaken any Housing Department projects?	D
E	A. No.	E
170	Q. Not since you have become a licensed plumber?	•
F	A. No.	F
\mathbf{G}	Q. Have you done any HA projects?	G
11	A. No, I have not formally undertaken any HA projects.	
Н	Q. Why do you say "formally"?	Н
I	A. My company has not undertaken such projects, but I have	I
J	learned from members of my association that there were	т
J	such requirements imposed by the Housing Department.	J
K	Q. Have you been awarded a project from the government, say	K
L	for example the ASD?	L
	A. Yes.	
M	Q. Please well, I don't mean to offend there are four	M
N	major contractors, main contractors, involved in this	N
0	Inquiry. Have you been awarded any contracts by these	
0	contractors? Perhaps you can name the four contractors.	0
P	A. I have got nothing from Yau Lee.	P
Q	Q. China State, Yau Lee, Paul Y and Shui On?	0
Q	A. Many years ago, I have got a subcontract from Shui On,	Q
R	but as far as I know, I don't have any direct	R
S	involvement. China State, no. Paul Y, no.	S
	Q. In your evidence-in-chief, you have been asked about	
T		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	paragraph 8, by counsel for the Commission. In	C
D	paragraph 8, you talk about HA projects, public housing	D
	estate projects. The nominated subcontractor is in	2
E	relation to air-conditioning and fire services, but when	E
F	it comes to plumbing, it's not.	F
	So apart from HA projects, say ASD projects, would	-
G	that be the same arrangement?	G
Н	A. Prior to 2014, that was the arrangement. In January	Н
	2014, there was a gazettal saying that for public works	•
I	projects, there should be a nominated contractor.	I
J	Q. For HA projects, say fire services or pump systems,	J
	there is a nominated contractor. There is a dedicated	ŭ
K	subcontractor dealing with items, say for example fire	K
L	service installations and pump stations.	L
	Do you object to this arrangement?	
M	A. No.	M
N	Q. After this arrangement, assuming that if your company	N
0	offers an acceptable price and you are awarded a project	0
O	by the HA, you as an LP would you think that since	0
P	you are not the nominated contractor, your	P
Q	responsibilities vis-a-vis other private projects is	Q
	smaller?	
R	A. No, I won't think that. As an LP, the main	R
S	responsibility is to ensure that the materials to be	S
Т	used comply with the WWO, the WSD's requirements. When	ran
Т		T
U		U

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	it comes to photovoltaic panels installation, there is no such requirements.	C
D	Q. So you would agree that as a professional LP, you do	D
E	value the licence, regardless of the size and complexity	E
_	of the project? As long as you are working as an LP,	
${f F}$	you would have the same sense of responsibility?	F
G	A. Right. I act in accordance with the legislation.	G
н	Q. Let me explore this point with you. The counsel for the	
п	Commission said that officially there is the WSD,	Н
I	a government department, and also the Housing Authority,	I
J	which is a statutory body. The Housing Department may	J
	be involved as well. He said that these two departments	ŭ
K	have their respective schedules to check the materials.	K
L	A. Yes.	L
	Q. It's WWO46, annex 1. In relation to the WSD, you will	
M	find the parts thereon. For the HD, you said you don't	M
N	know very well about the arrangement. But we know that	N
0	the HD has their own list.	0
Ü	Counsel asked you whether you think that in the	U
P	vetting of the two lists, both parties might have missed	P
Q	the opportunity to find whether there is any problems of	Q
	possible use of leaded material. The counsel asked you	
R	whether the chance has been missed.	R
S	A. I agree.	S
T	Q. You said that even without the material list or	ræ
T		T
U		U

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	schedule, had the people on the site been responsible	C
D	and performed their duties properly, they would have made sure that compliant materials were used?	D
E	A. As I said, for other projects, I would even submit	E
F	samples of screws. Everything should be done properly. Q. Whether it's a subcontractor or a licensed plumber, if	F
G	they have performed their duties, they would be able to	G
Н	make sure that compliant materials are used? A. Right.	Н
I	Q. Even if there was no such mechanism to do that, there	I
J	was a mechanism to check when materials are delivered,	J
K	the delivery note. In relation to a plumbing subcontractor, when there was a delivery, who would the	K
L	delivery note be sent to? The main contractor?	L
M	A. Yes. Q. So the main contractor will be able to pick up any	M
N	irregularities?	N
0	A. Right.	0
P	Q. So, in a project like this so there is more than one stakeholder. It's not just them, the government	P
Q	department. There are many stakeholders in a project?	Q
R	A. Right. Q. That includes the main contractor?	R
S	Q. That includes the main contractor? A. Yes.	S
T	Q. Just now, you were asked, if everything had to be	T
U		U

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Transcript by DTI Corporation Asia, Limited

A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58	В
C		checked, it's not really feasible; it's not really	,	C
D		feasible to check everything. That's in your opinion		_
D		right?	_	D
${f E}$	Α.	I think it's a matter of cost. It's a cost		E
F		consideration. If everything is to be checked, you		т.
r		have to have proper record to show that that's alrea	dy	F
G		been checked. That involves people who are responsible	ole	G
н		for filing, for preparing reports. So should minute		**
n		details be covered as well? That may be quite tediou		H
I		Apart from government housing projects, there is		Ι
J		a huge share of housing projects in the private sect	or.	J
J		Everything comes from the same party. If that is to		J
K		done, then costs would be shifted onto would be		K
L		reflected in the prices of properties.		L
	Q.	Whether it's a statutory requirement, you, as a lice		
M		plumber, are the one at the forefront, who has to ma	ke	M
N		sure that materials comply with legal requirements.		N
		Well, you are a licensed plumber. You are		
О		a subcontractor. You are the owner of a company. Bu		O
P		there may be licensed plumbers who are simply employ	ees.	P
Q		Would there be a system?		^
Q	Α.	Every subcontractor should act in accordance with the		Q
R		contractual requirements and the law.		R
S	Q.	So there is the main contractor, and above there is	the	S
		developer; do you mean that?		
T			,	Т
U			,	U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	A. Yes. Every stakeholder should bear their own	C
	responsibility.	
D	Q. So, by duplication, you mean of course the frontline	D
E	party would have to make sure that materials comply with	E
F	the law and the contract requirements. It may be	17
r	supervisor, then the supervisor supervises that, and	F
G	that would be the main contractor. And above that, that	G
Н	would be the developer. The developer would be the	Н
11	supervisor of the supervisor of the supervisor.	11
Ι	You said a duplication. You would not think that	I
J	the top-most supervisor should oversee everything?	J
	A. But as I said, apart from inspections, we have to do	
K	lots of documentation.	K
L	Q. By "we", you mean licensed plumbers?	L
	A. Yes. Say there's a requirement for copper pipes, we	
M	have to make submissions showing that it meets certain	M
N	standards. We have to document our materials. And if	N
0	there is supervision and monitoring, there would be some	
0	measures. So is it the case that every single item	0
P	would have to be regulated?	P
Q	Q. "Main material", what do you mean?	Q
	A. Material related to the structure. Everything is	•
R	regulated. Say, for example, cement, steel bars, but	R
S	not the wire or the earthing, the earthing wire. But	S
	it's related to the earthing wire.	
Т		T
U		U

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V

Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Q. Should that be regulated as well?	C
C	A. But when the earthing wire is delivered, someone will	C
D	know.	D
E	Q. You said that's why there needs to be public education?	E
	A. Right.	
F	Q. You said that it will not be feasible to check every	F
\mathbf{G}	single thing and every single layer, so public education	G
**	is important?	
Н	A. Well, there are different stakeholders: The main	Н
I	contractor, residents, engineers, representatives of the	I
J	building services companies. There will be irregular	J
	inspections on different floors.	· ·
K	So you actually see the work of workers. If you are	K
L	familiar with the project and if you have the	${f L}$
	catalogues, then one look suffices; you will know	
M	whether the work being done is compliant.	M
N	Q. Prior to the incident, you have been in this trade for	N
0	a very long time, yet you were not particularly	
0	concerned about lead in solder material.	0
P	You know that leaded material should not be used in	P
Q	soldering materials?	Q
	A. Right, but I have not actually thought anything to it.	· ·
R	Q. Well, whether lead affects water quality and whether it	R
S	affects health, you think there should be enhanced	S
	public education?	
T		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	A. Well, if you talk about lead in water, you are not talking about engineering anymore. We need to tell	C
D	stakeholders what materials are compliant materials.	D
E	But we don't need to teach them the details as to the	E
	content of lead allowed. We should tell them that as of	
F	a certain date, leaded materials should be banned.	F
\mathbf{G}	Q. We all know that these materials should not be used?	G
Н	A. In many interviews given, after the incident, I said so,	**
п	and I have been criticised by workers that they have	Н
I	been doing this. They insist that what they were doing	I
J	there is correct. And some people told me that it's	J
	okay, it's British-made solder. I said, well,	u
K	99 per cent of those materials will be problematic, if	K
L	you are talking about British-made solder.	L
	MR HO: I have no further questions.	
M	Cross-examination by MS LAM	M
N	(Questioning in English)	N
0	MS LAM: I represent China State. I will be asking you	
0	a few questions in English.	0
P	CHAIRMAN: You understand the question? You don't need to	P
Q	have the headset.	Q
•	You can use the headset for interpretation. It's up	Q
R	to you.	R
S	MS LAM: Mr Kan, we know that you are very, very familiar	S
	with the form WWO46, and we know, under part 1, that is	
T		T
U		U
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A	Annex: Realtime English Transcription based on floor / Simultaneous Interp	pretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 58	В
C	to be filled in by the licensed plumber.	There is	C
	an annex that shows details of all the pi	pes and	
D	fittings intended to be installed; right?		D
E	A. Yes.		E
	Q. I would like to ask, in your experience,	as a matter of	
F	trade practice, is it common for plumbing	materials	F
G	eventually used on site to be different t	to those listed	\mathbf{G}
11	in the original annex that was submitted	under part 1?	
Н	A. In the trade, after the submission, after	r the approval	Н
I	is granted by the WSD, and also the owner	the	Ι
J	supervisors have all given the approval,	the licensed	J
v	plumber would not use anything other than	those, because	J
K	if you use other materials, the owners wo	ould fail to	K
L	could decide not to accept the completed	works, and you	L
	have to dismantle everything. I don't th	ink any	
M	contractor would like to shoulder this ki	nd of	M
N	responsibility.		N
0	Q. So my question is, if for one reason or a	another,	
0	a change of materials was required, wheth	er because of	0
P	the works or whatever, then what would be	the procedure?	P
Q	A. I can give you a real example to illustra	ate. In 2006,	Q
•	I was involved in an MTR property develop	ment. There	V
R	are many phases. I was responsible for t	he underground	R
S	main pipe. It's as big as 600 millimetre	s in diameter.	S
_	The construction period was three and a h	alf years.	
T			Т
U			U

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	After being awarded the contract, we submitted all the	C
D	materials for approval. After the approval, we submitted the WWO46 to the WSD, and subsequently got its	D
E	approval. Then we started to procure materials.	E
	The materials were only delivered two years later,	
F	so when it was time for us to really dig up the road for	F
\mathbf{G}	laying of the mains, the supplier told us that the	G
Н	manufacturer was no longer making those, so I needed to	
п	change the materials to be used.	Н
I	There was a contract with the supplier, so we	I
J	referred to the contract, and we told the supplier to	J
	issue a letter, to certify that the materials were no	J
K	longer available. Then I informed the stakeholders and	K
L	the main contractor that this had happened. So we would	L
	then propose equivalent materials with different brands,	
M	which were also approved by WSD.	M
N	Q. Just pausing there; when you say has been "approved by	N
0	the WSD", do you mean it is one of the items that is	
0	already on the list of approved materials which you can	О
P	find on the WSD's website?	P
Q	A. Yes.	Q
	Q. Thank you. Please continue?	· ·
R	A. After getting the agreement of the owner for the change	R
S	of materials, then we would ask the supplier to provide	S
Т	the spec and also to show that those materials reviewed	an.
1		T
U		U
T 7	- 78 -	***

Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	the latest BS, and the information was given to the	C
D	owner for approval. And also it would be given to the WSD and then we would amend the annex to the form,	D
_	setting out the new materials to be used.	
E	Usually, the WSD would be able to give us approval	E
F	within ten days.	F
G	CHAIRMAN: It happens, but not very often, I suppose?	G
**	A. Not very often. I use this example because in that	
Н	project, I used different valves. There were changes in	Н
I	two exercises, and I was informed that for a particular	I
J	brand, the manufacturer had stopped. Then I switched to	J
	brand B, and by the time I placed an order, because it	
K	was a new production line, I was not able to get	K
L	sufficient number. Then I had to switch to C later.	L
M	MS LAM: So the responsibility for submitting an updated	M
	annex would fall on the licensed plumber; is that	
N	correct?	N
O	A. Yes. It's the work of the LP.	O
P	Q. As a matter of practice, after you submit the revised annex, what happens next? Would you then expect either	P
•	a verbal or written approval from the WSD?	
Q	A. If something is suddenly out of stock, something that is	Q
R	not commonly used, the pipes we use are of smaller	R
S	diameters. Very rarely would they be more than 150 mm.	S
	So, in the example, it was 400, 600 mm pipes.	S
T		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Usually, there's no stock in Hong Kong. We have to	C
D	place an order for import. So, once the owner gives the approval, we would place an order, and we have to make	D
E	sure that the material is in the list of the WSD.	E
F	Since we use the listed material, it won't be rejected.	F
G	Q. In other words, if it is already on the WSD's approved	G
Н	list of materials, you would expect WSD to have no problems with the proposed change; is that correct?	Н
I	A. Correct.	I
J	Q. Sorry, my question before was: would you then expect the	J
K	WSD to formally inform you, whether in writing or orally, that, yes, your proposed change of material is	K
L	fine?	L
M	A. After the WSD has received our notification, it would certainly reply in writing. For the completion report,	M
N	the department would refer to the latest updated annex	N
O	for inspection. MS LAM: Thank you very much.	0
P	CHAIRMAN: Mr Li, at the back.	P
Q	Cross-examination by MR LI	Q
R	MR LI: I represent Yau Lee. I want to ask you some questions.	R
S	This morning, Mr Shieh asked you about your	S
T	procurement orders placed with Prosperity. For how many	T
U		U

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V

Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	years have you been dealing with Prosperity? When did you start?	C
D	A. From my memory, it's over ten years.	D
E	Q. So it's 2005-06 that you started to have business	E
F	dealings with them? A. We also purchased sundry items from Wo Hing. There is	F
G	an account executive of Wo Hing who used to deal with	G
н	our business, and then later on he went over to work for Prosperity. Since the prices were basically the same,	Н
I	and the service he gave was okay, so we placed orders	I
J	with him. Q. So it was this Mr Cheung in Prosperity who handled your	J
K	orders?	K
L	A. Well, later he also changed jobs, and then he sold	L
M	valves instead of sundry items. Q. So you placed your orders with Prosperity. You would	M
N	say you need lead-free solder wire?	N
0	A. Usually, it's in writing. We would place an order by fax or we used to use fax. Now it's mainly through	0
P	WhatsApp. We would WhatsApp Prosperity on what we need.	P
Q	Q. Did you use the telephone to place orders in the early days?	Q
R	A. Yes, occasionally. Usually, it will be the site foreman	R
S	who requires something urgent, something suddenly is in	S
T	short supply, and then he would call the supplier. But	T
U		U

A	Annex	Realtime English Transcription based on floor / Simultaneous Interpretation	A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 58
C		the procurement is mainly done by the main office.	
	Q.	When it comes to procurement of soldering wire, woul	.d
D		you buy both sticks and wire for soldering at the sa	me I
E		time?	Е
_	Α.	We started to use paste and solder sticks in 1994, a	
F		we found that to be satisfactory. In the past, we us	sed F
G		flux and solder sticks, but we need to melt the sold	er (
II		sticks; a lot of preparation was needed before use,	
Н		the flux has disadvantage. The flux will not enable	the
I		solder to enter the joint quickly. But for the paste	e I
J		and wire, it was easy, as demonstrated by the salesm	an. $f J$
· ·	Q.	So, in 1994, you found the solder wire very convenie	
K	Α.	Yes. No need to melt the stick.	ŀ
L	Q.	Is the one before you used in a similar way?	I
	Α.	Actually, it's this one. (Indicating).	
M	Q.	So you have been using this for many years?	N
N	Α.	Yes.	N
0	Q.	If it's in a coil we have only got this solder	
0		wire are we talking about the same solder wire?	C
P	Α.	I'm not sure how many brands were available, but whe	en P
Q		the salesperson introduced this product, it was this	(
•		one.	
R	Q.	Did you have any personal experience or your staff h	nave
S		some experience that in communicating with Prosperit	y, s
		Prosperity would know what you are going to use the	
T			Т
\mathbf{U}			τ

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	solder wire or soldering stick for?	C
	A. They only buy one product.	
D	CHAIRMAN: The question was asked this morning.	D
E	MR LI: Did they know the purpose or the use of the solder	E
F	wire? A. Yes. After the contract was awarded, we would do the	F
G	submission, and we will ask the supplier to provide	G
11	samples. I've got some photos with me. We have	••
Н	a sample board, and the supplier had to provide the	Н
I	material. We would enter into a contract with the	I
J	supplier. We would also inform the supplier the	J
Ü	specifications. The information would be sent to the	9
K	supplier, by fax, WhatsApp or email.	K
L	Q. That would include the soldering material for drinking	L
M	water pipes?	M
	A. If it's specifically written in the contract, then yes,	
N	it would be submitted. In the past, there was no	N
0	specific mention of that in the contract. Well, there	0
	are more such occasions in recent years. Not as much as	
P	before that. But we would tell the hardware store, say,	P
Q	for example, what type of bracket what type, say for	Q
R	example the specifications of the actual material, size	n
K	of the screws, the materials of the screws; we will tell	R
S	them.	S
T	Q. Well, you tell them that it is for fresh water supply,	T
U		U

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	then they would know?	C
	A. Right.	C
D	Cross-examination by MR LEE	D
E	MR LEE: If the question has already been asked, please let	E
	me know, because I wasn't here this morning.	
F	I represent the victims.	F
G	CHAIRMAN: I don't think you can do that because I would be	\mathbf{G}
Н	doing your job.	11
11	MR LEE: I thought you would just stop me.	Н
I	CHAIRMAN: Yes, of course I am perfectly able to stop you.	I
J	MR LEE: I only ask you to do something you love to do!	J
	First, some awkward questions. You are here as	J
K	an expert. Who contacted you in the WSD?	K
L	A. There is an engineer telling me that the WSD no, the	L
	first phone call was the assistant director.	
M	Q. What is the name?	M
N	A. Lam Ching Man.	N
0	Q. You are very familiar with this assistant director?	0
O	A. As I said, in 2009, I attended WSD meetings, and usually	0
P	they were attended by assistant directors or directors.	P
Q	Q. So the first contact made was to ask you to be	Q
	an expert?	
R	A. Yes. It was said verbally that they intended to ask me	R
S	to be an expert, asked me if I would turn them down.	\mathbf{S}
_	I said, if necessary, I would be an expert.	
T		Т
\mathbf{U}		U

A	Annex.	Realtime English Transcription based on floor / Simultaneous Interpretation	A
В		sission of Inquiry into ELead Found in Drinking Water	Day 58 B
C	Q.	Did they tell you more or less what you would be say.	ing?
	A.	They told me that I would be talking about the opera-	tion
D		of the trade, and comments on the licensed workers.	D
E	Q.	Is that all?	E
	Α.	The procedures that we have to do under the Ordinance	
F		say 46, how it's filled in, what we do when it comes	to
\mathbf{G}		an amendment, to explain whether it can be amended.	G
***	Q.	You have covered a lot in your statement. Did they t	
Н		you beforehand that they would like you to give expen	H
I		opinion on these areas?	I
J	A.	The time when the scope was given to me was in December	per,
Ü		when I was sent a letter by the D of J, to ask me to	J
K		make a statement. I was in close liaison with the WS	D. K
L		With the excess lead in water incident in July last	L
		year, the government wanted to group together	
M		representatives of different areas, to give advice to	M
N		the WSD. We have given a lot of comments on many	N
0		different areas.	
0		Perhaps they thought that I have done a lot of	0
P		interviews and they have seen them, and they thought	P
Q		I could speak as a representative of LPs.	Q
*	Q.	But you were interviewed by a journalist?	Q
R	A.	Yes.	R
S	Q.	Why?	S
	A.	No specific purpose. It was the beginning of July, w	
T			Т
U			U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	the incident was full-blown. On 8 July, I arranged	C
D	a meeting with Ko Chan Gock, Professor. He was a convenor of the five associations. He was the former	D
E	director of the WSD, and the convenor will call	E
	different parties to talk about various areas, say for	
F	example public education or publicity.	F
G	Q. But what was the purpose?	G
Н	A. The meeting was to ask the different parties to think	Н
11	about why there would be such an incident, after having	н
I	read the report, and how we should respond when we are	I
J	asked questions.	J
	As you know, as I said this morning, there are	
K	different stakeholders amongst the LPs. As the chairman	K
L	said, some would say they don't know English, and some	L
M	say Joe Ku will publish technical articles, say for	
M	example, in writing about the use of the latest	M
N	technologies overseas for the different institutes and	N
o	associations to read. There are representatives from	O
· ·	labour unions, from chambers of commerce, from	U
P	institutes.	P
Q	So we got together to talk about the line to take	Q
	and how to answer questions. They found that I started	
R	to work in this trade, in a construction site at the age	R
S	of 15, and I am in such a position and I could actually	S
T	answer everything.	Т
-		1
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	So the five associations appointed me to be their	C
	spokesman.	
D	Q. So were you the spokesman for the trade?	D
E	A. At that time, yes.	E
_	Q. "The trade" meaning LPs?	
F	A. That's included.	F
G	Q. What else?	G
Н	A. There are five associations. Let me tell you about the	**
п	five associations. That is the Chartered Institute of	Н
I	Plumbing and Heating Engineering, Hong Kong branch; the	I
J	Hong Kong Plumbing and Sanitary Ware Trade Association	J
	Ltd; Hong Kong Institution of Plumbing and Drainage Ltd;	J
K	Hong Kong Licensed Plumbing Professionals Association	K
L	Ltd and Hong Kong Waterworks Professionals Association	L
	Ltd.	
M	Q. Are they the same or similar to the work of licensed	M
N	plumbers?	N
0	A. Related but not similar.	
0	Q. Corresponding, or on the opposing side?	0
P	A. What do you mean?	P
Q	Q. That means there is conflict of interest in relation to	Q
	the five associations.	¥
R	A. That depends on your angle.	R
S	Q. Well, at the very beginning, the government has put the	S
	blame on licensed plumbers; you know that, right?	
T		T
U		U

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V

Transcript by DTI Corporation Asia, Limited

A	Annex: R	tealtime English Transcription based on floor / Simultaneous Interpretation		A
В		sion of Inquiry into ead Found in Drinking Water	Day 58	В
C		I do.		C
D	Q.	Is that one of the reasons or one of the major reaso	ns	_
D	₹	why they got you to come out to speak?		D
E		I don't think so. On the first day when I was		E
F	<u>-</u>	interviewed by reporters, I was asked whether I agree	∍d	F
•	t	that the WSD and licensed plumbers are responsible,	and	r
G	-	I agreed, because we represent the site to liaise wi	ih	G
Н	t	the WSD, and we are asked to install plumbing system	3.	TT
11	S	So we can't shirk the responsibility or dodge it.		Н
I	Q.	So, when the government pointed the blame to license	d	I
J	I	olumbers, you think it's right?		J
Ü	Α.	It's not really that. I do agree the viewpoint that		J
K	ć	an LP has responsibilities to bear.		K
L	Q.	Does it mean that you have to be responsible for the		L
3.5	•	excess lead in water incident?		
M	Α.	Well, the licensed plumber has to bear a legal		M
N	1	responsibility.		N
	Q.	You do think so.		
0		You have done projects in relation to plumbing fo	r	О
P	Σ	KRL and now West Kowloon. They are major projects?		P
Q	A. :	Not that big. I think it depends on how you define	it.	0
V	Ç	Say, for the XRL project, it's 1.4 metres to relo	cate	Q
R	á	a 1.4-metre pipe. Normally, people don't know about	the	R
S	1	requirements and specifications. We have to take int	.0	S
	ć	account the WWO and the WWR. There is also the main		
T				T
U				\mathbf{U}

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	laying handbook of the WSD.	C
	Q. This handbook, can you tell me the name again?	
D	A. Main laying handbook.	D
E	Q. M-a-i-n?	E
_	A. Yes. It says the waterworks main it's a manual for	
F	the laying of this pipe. You will have to know about	F
G	the requirements before you know what to do. Not many	G
**	plumbers know about this. Well, I have dabbled in	
Н	different areas, so I was willing to take that up.	Н
I	Q. So did you have to submit a tender, to win it?	I
J	A. Yes, yes.	J
9	Q. So were you invited to submit a tender?	J
K	A. Yes.	K
L	Q. How many were invited?	L
	A. They wouldn't tell me. But basically, main contractors	
M	will not just find one person to give a quotation to do	M
N	the job.	N
0	Q. So you have to do a lot of detailed work, preparation,	
0	and submit the tender?	0
P	A. Yes.	P
Q	Q. What about West Kowloon?	Q
V	A. Sorry, what do you mean by "major"? For the 823, my	Q
R	project is only 4 million. That's for the XRL project.	R
S	Q. You said "only 4 million", so you do think that	S
	\$4 million is a small sum?	
T		T
U		U

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V

Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	A. Well, we use the contract sum to define the scale.	C
D	I think it's small. Even for West Kowloon, for the plumbing contract, it's 29 million, and in my eyes it is	D
_	not big, because for a Housing project, that would be at	
E	least 80 million, so how can you say it's a big one?	E
F	How do you define "big"?	F
G	Q. What about you?	G
u	A. I don't think that's a big project. There is a certain	G
Н	degree of complexity, and some representativeness.	Н
I	Q. Are you top-notch of this in your trade?	I
-	A. I don't think so.	•
J		J
K	Q. Not many people would know what to do.	K
	A. I might have read a lot of books.	
L	Q. For general licensed plumbers, you say some of them	L
M	don't even know English. They wouldn't dare to submit	M
	a tender for these big projects. You can't talk about	
N	everyone, paint all of them with the same brush.	N
o	A. But some of them don't even know English. Main	o
	contractors, some of them will recruit their own BSE,	
P	licensed plumbers, and they would contract out the work	P
Q	to some smaller companies.	Q
	Q. What about re-plumbing? That means those that you do	
R	personally was just on a day rate. So whether you are	R
S	a boss or you are an employee, you are still an LP, but	\mathbf{S}
æ	there's a big difference. For those who are receiving	
Т		T
U		U
	00	

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	a daily rate, how much would they earn?	C
D	A. In my statement, it says that a real licensed plumber working on a daily basis, receiving a daily rate, is	D
E	rare, because if you have got the qualification, there	E
F	are two groups of people: members of the institute, supervisors. They are recruited by consulting	F
G	engineering companies, working in supervision.	\mathbf{G}
Н	For those who are sole proprietors, they may have their own plumbing companies, taking up business from	Н
I	the general public or in housing estates. They may	I
J	employ workers.	J
K	For those that are working on their own, with no employees receiving a daily rate, I don't think there	K
L	are many.	L
M	Q. But there is grandfathering. You didn't have to actually train in a course at the very beginning.	M
N	A. I wouldn't say that. I learned in 1972, and at the time	N
0	when I joined the trade I was aware that a lot of plumbing companies, they were licensed plumbers.	o
P	I really don't know what you mean.	P
Q	Q. Well, for large companies, they have their own big	Q
R	company, for smaller scale, they have their own shop. That was the case. But what about now?	R
S	A. Licensed plumbers, nowadays, if they are determined to	S
T	learn after they've got the qualification as licensed	Т
U		U

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	plumbers, they will, on a small scale, be	C
D	a subcontractor or work in a large plumbing company or in a large company, to be part of the management.	D
E	In the 1980s, Hongkong Electric, MTR and China Light	E
L	& Power and big organisations such as HKU and CUHK would	L
F	employ licensed plumbers for day-to-day maintenance	F
G	work.	G
	So these licensed plumbers didn't want to do the job	
Н	as workers all the time.	Н
I	Q. You have already been asked whether the licensed	I
J	plumbers should do the job themselves. For those	J
•	running a small shop, doing repair and maintenance for	J
K	the residents nearby, how much can he earn a month?	K
L	A. I have no idea.	L
	Q. What about the big ones?	
M	A. I only know the amount of contract we can handle daily	M
N	in my company. As contractors, we need to be equipped	N
0	with a number of competencies. Apart the skill set, we	0
O	need to have other conditions met, to support the	O
P	carrying out of the contract. For example, we had to	P
Q	handle the interim payments, we had to buy the materials	Q
	and then apply for payment or reimbursement later.	
R	Q. You know, in Hong Kong, the construction industry is	R
S	a system with contractors, subcontractors and	S
т	sub-subcontractors. One can never tell the number of	ran.
T		Т
U		U
	02	

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	layers of subcontracting involved?	C
D	A. Well, my company, Merry China, was set up in 1995. We are entering our 21st year. When did we start to	D
E	subcontract some of our works? Well, we did it the	E
F	first time in 2008. It was a contract for manpower only. We purchased everything, down to the bolts and	F
G	nuts.	G
Н	The second outsourced contract was done in 2010. So it was not common.	Н
Ι	Q. So you have said you have just done it twice. You	I
J	rarely subcontract work to other subcontractors?	J
K	CHAIRMAN: You don't have to ask him such questions. MR LEE: I am talking about the bottom layer of	K
L	subcontractor. If a job is given to him, he may just	L
M	get a meagre sum, at the very bottom of the chain. A. You can say that. If you are a subcontractor with the	M
N	necessary skills and knowledge, you would be able to	N
o	make the calculations to see if there's a profit to be made.	0
P	I set up my company, Hugo Engineering Company.	P
Q	I undertook a contract for a big project.	Q
R	Q. Well, you are successful. Don't be shy. What about those less successful? They have to make a living.	R
S	They are unsuccessful people. Maybe you can call them	S
T	failures. They will save whatever they can, in terms of	T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	the use of material; would you agree?	C
D	CHAIRMAN: Mr Lee, I think you should ask questions in context.	D
E	We have heard so much, throughout the Inquiry, so	E
	I accept that in certain projects, projects that we need	
F	to discuss, as you have said, have works undertaken by	F
G	sub-subcontractors. But if you look at the level of the	G
	licensed plumber, actually only three licensed plumbers	
Н	are involved: Ng Hak Ming worked for Ming Hop and	Н
I	Yau Lee. Cheung Tat Yam is a proprietor. Lam Tak Sum,	I
J	we know him, so no need to repeat.	J
J	So these three licensed plumbers and your	J
K	questions are not really relevant here.	K
L	MR LEE: But the third item of your terms of reference is	L
	about the entire Hong Kong. It's not just about these	
M	three licensed plumbers.	M
N	CHAIRMAN: You are asking questions about licensed plumbers.	N
0	Of course there are successful licensed plumbers and not	
0	so successful licensed plumbers. Mr Ho Man Piu said, in	0
P	Ho Biu Kee, there are a number of licensed plumbers who	P
Q	are actually doing the job of skilled workers.	Q
¥	MR LEE: I can change to another topic. I can change the	Q
R	topic.	R
S	You said on two occasions you outsourced the work to	\mathbf{S}
	a subcontractor, and you purchased everything, down to	
T		T
U		U
	0.4	

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
С	the screws, bolts and nuts. So, if the subcontractor	C
D	employs someone to help him and he also works himself, the materials would not be purchased by the	D
E	subcontractor.	E
	If the subcontractor gives the workers leaded	
F	solder, what would happen?	F
G	CHAIRMAN: Then the workers would use the leaded solder.	G
11	MR LEE: He is saying that the workers should inform the	
Н	government.	Н
I	A. Those who are really doing the installation and the work	I
J	are not the licensed plumbers. They may be registered	J
J	plumbing workers, I mean registered with the	J
K	Construction Industry Council. They may be skilled	K
L	workers in plumbing work or semi-skilled workers. They	L
	might not have been trained to learn about the	
M	Waterworks Regulations and installations. They would	M
N	assume that whatever the foreman gives them would be	N
	materials approved by the site.	
О	As I have said, the contractor would have to	О
P	shoulder the responsibility. If something has to be	P
Q	dismantled after completion, the costs of soldering	Q
*	material is just 0.2 per cent of the contract sum. For	Q
R	a contract worth \$10 million, I would spend 20,000 on	R
S	soldering material. When we are awarded a contract or	S
_	when we enter a bid, then you have to attend	
T		T
U		\mathbf{U}

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	an interview. The government the Housing Department	C
D	would ask you to reduce your quoted price. But in the	D
2	private sector, from the first interview to the last	D
E	interview, you have to reduce the tender price a number	E
F	of times.	F
_	Q. That's precisely because of the reduction in the quoted	•
G	price. You have to find ways to achieve savings	G
Н	elsewhere.	Н
	CHAIRMAN: I think the question should be phrased like this.	11
I	We know one or two plumbing subcontractors, after taking	I
J	on such jobs from the Housing Department, then for each	J
Ü	unit, they are supposed to cover everything soldering	J
K	material, and so on. Basically, they are paid on	K
L	a per-unit basis. Say \$3,000 per unit. You don't cover	L
	anything on the ceiling, on the external wall.	
M	Everything inside the flat is covered, including the	M
N	solder material, sundry metal items. For Kai Ching	N
	Estate, the contract is \$52 million. Let's assume that	
О	it's 50-something, \$50-odd million, and when it's time	0
P	to pay the sub-subcontractor, he only gets \$3,000 per	P
Q	flat, per unit, and one man said that earned nothing	Q
*	after completion.	Q
R	Of course, Mr Ho Man Piu would not care for such	R
S	meagre amounts. It's nothing to him. It's just	S
T	a little bit of saving. But we heard from a man who is	T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	now working as a plumbing worker. He carried out	C
D	a subcontract project, and ended up earning nothing. To you, maybe the sum is not something that you need	D
E	to achieve in saving. But you know Housing Department	E
F	projects would be awarded during different phases of the economic cycle. Sometimes you would not just accept	F
G	contracts at cost or sometimes below cost, at a loss;	G
Н	and you have no choice. A. Thank you, Chairman. As a responsible contractor, do we	Н
I	accept a contract that would incur a loss? Yes. But we	I
J	would still insist on doing the right thing.	J
K	I was also a sub-subcontractor once. It was in 1995. I took up six contracts in the airport, including	K
L	the ground transportation centre and the Tung Chung MTR	L
M	station. I was not the main contractor for the Tung Chung MTR; I was a subcontractor to an E&M	M
N	contractor. I took up the plumbing part. All the main	N
0	equipment, the pumps, the circuit boards, and so on and so forth, and the meters, were supplied to me. I was	O
P	only responsible for the pipes and sundry items. The	P
Q	contract sum was \$2.8 million, and I ended up losing \$800,000, in terms of material, not counting manpower.	Q
R	It was tough, but I insisted on complying with the	R
S	contract, and the Waterworks Ordinance.	S
T	There were arguments with the owner. The owner was	Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	MTR Corporation. The MTR said that they would not check	C
D	the underground pipes, or there was no inspection needed for the underground pipes. I said I would then have to	D
E	inform the WSD.	E
	I was somewhat tricked by the MTR. I lost \$800,000.	
F	After work was completed, one day an engineer from the	F
G	MTRCL thanked me for insisting on making the pipes	\mathbf{G}
**	available for inspection. I have heard I don't know	
Н	whether it's real afterwards that the main laying	Н
I	equipment the main laying contract undertaken by	I
J	Shui On they covered the pipes. They did cover the	J
J	pipes. Then WSD found out and the pipes would have to	3
K	be dug out, costing millions.	K
L	So that's why the MTRCL engineer thanked me for	L
	that.	
M	So the contract sum is irrelevant, as far as	M
N	complying with the rules and regulations is concerned.	N
0	Q. I must say I appreciate your conscience. You would	0
O	insist on doing the right thing, even though it's going	0
P	to make a loss. You are therefore a successful PL.	P
Q	What about those who are not as successful as you?	Q
	CHAIRMAN: It's just common sense. These people would be	
R	facing economic pressure. The question is how much	R
S	economic pressure can one withstand.	S
TD.	MR LEE: To put it in a general term, in this trade, you	_
T		T
\mathbf{U}		U
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A	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ssion of Inquiry into Lead Found in Drinking Water	Day 58	В
C		can't say everyone is successful; right?		C
D	Α.	I am an unsuccessful example. I think it's whether you insist or not. In the year 2000, I was nicknamed "po		D
E		licensed plumbers", because I suffered losses in all	the	E
${f F}$		projects and I don't have a penny to my name. But in the end, you were quite successful. You are		F
G		successful. I congratulate you.		G
Н		Let me ask you some other questions. This excess		Н
I		<pre>lead in water, it was discovered in July last year. Were you surprised?</pre>		I
J	Α.	I was a bit surprised.		J
	Q.	Because you did not think there would be any problem	s?	•
K	Α.	I thought that there was one estate that was affecte	d,	K
L		and I assume the majority of people are law-abiding.		L
M		That's why the associations sat down to talk about		M
		safeguarding the image of licensed plumbers, for just	5	1,1
N		a few people who are unscrupulous, I mean vis-a-vis	that	N
0		incident.		0
		You think that licensed plumbers in general are		
P		law-abiding, and you wanted to disseminate the message	ge	P
Q		to the public that not all licensed plumbers are like	9	Q
R		that. That's why you were interviewed by the press.		R
		In 2000, you said you knew leaded solder material was not to be used. But did you know why?		
S	Α.	I did not look into that. We work in accordance with	٦	S
T	Α.	I did not rook into that. We work in accordance with	•	T
U				U

A	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 58	В
C		the requirements under the WWR, and the catalogue		C
		supplied by the supplier says that it is BS EN 1057,		
D		then lead-free material has to be used.		D
E	Q.	So, when you read the catalogue, did you know there	were	E
		leaded materials in the market?		
F	Α.	I knew when I joined the trade. It's just your		F
\mathbf{G}		selection of material. In 1994, material used by the	Э	G
Н		company was changed, and I did not give it any thoug	ht,	
п		as to why there was a change, because I had used it	for	H
I		many years.		I
J	Q.	When did you join the trade?		J
	Α.	I was an apprentice in 1972, in fire services		Ū
K		installation, and then I changed to a different comp	any.	K
L	Q.	So in which year did you actually join the trade?		L
	Α.	You mean plumbing? Well, 1973.		
M	Q.	You said in 1994 there was a change change of		M
N		soldering material?		N
0	Α.	Change to this soldering material.		0
0	Q.	What about before that?		О
P	Α.	Well, solder sticks were bought.		P
Q	Q.	Prior to that, it was still leaded, and then it was		Q
•		later changed to lead-free?		V
R	Α.	It's not because it was leaded that the material was	;	R
S		changed. As I said this morning, I found that this		S
		solder material is really good, because it didn't ta	ke	
T				T
U				U

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Transcript by DTI Corporation Asia, Limited

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	much skill or training. Let me say that Mr Lee or	C
D	perhaps a teenager would be able to learn if I teach him	D
D	for half an hour.	D
E	Q. I think I would need longer!	E
F	So you find that this lead-free material is very	F
-	good to use?	r
G	A. Yes.	G
Н	MR SHIEH: This morning, we did not ask about the solder	н
11	material, that is at the solder ring, whether it was	п
I	leaded or not, prior to 1994.	I
J	MR LEE: Thank you.	J
J	In 1994, for some reason, the material was changed.	J
K	CHAIRMAN: It's not "for some reason". The reason is known.	K
L	MR LEE: You knew that lead-free material was not to be	L
M	used?	M
IVI	CHAIRMAN: Don't ask. Don't go there, please.	M
N	MR SHIEH: (Chinese spoken).	N
0	MR LEE: You talked about public education. When you spoke	0
U	to your fellow tradesmen, some criticised you?	0
P	A. Yes.	P
Q	Q. Why? They thought leaded material was better?	Q
¥	A. I have no idea why they said that. I said if you were	Q
R	not trained the proper way some workers were trained	R
S	in IVE, CIC, but there are some that are not trained	S
	properly. They join the trade, they follow a master in	
T		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	a plumbing company and they just follow what the master does.	C
D	Q. So, if the master uses leaded material, then that would	D
E	be used?	E
${f F}$	A. No one would be told the difference between leaded and non-leaded soldering material. The most important thing	F
\mathbf{G}	is whether it's easy to use. I think it's better to	G
	actually see it at the site, the difference between	
Н	leaded and lead-free material. When I joined the trade	H
I	in 1972, with my own eyes I do see that leaded solder	I
J	material is not easy to use, because it's a thick stick.	J
K	We work in a confined space. It's just about	K
11	22 millimetres or 28 mm. If you carry out a thick	K
L	stick, a lot of it will drip onto the floor.	L
M	CHAIRMAN: Thick you talk about the earlier ones? A. Thicker than the lead-free wire (indicating).	M
N	CHAIRMAN: That's not that thick.	N
	A. In the early days, it's very thick. If you buy	
О	50 per cent lead, it's very thick, thicker than this.	О
P	CHAIRMAN: This is 50 per cent lead.	P
Q	A. Is it? No, it's not. I have never bought it before.	Q
	I have never seen it. From photographs, it seemed to be	•
R	like a bar.	R
S	CHAIRMAN: No, this is 50 per cent lead.	S
T	A. I have only seen it in photographs. I have never	Т
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	seen it.	C
	MR LEE: (Chinese spoken).	
D	CHAIRMAN: We are not trying to sell it. Your experience is	D
E	that leaded stick is difficult to use, but as far as we	E
F	know, they have been purchased in bulk for Kai Ching and	F
r	some other housing estates. So it's not as difficult to	r
G	use as you imagine. And they have improved too.	G
Н	MR LEE: So you now understand why they criticise you, some	**
п	other licensed plumbers, because they think it's easy to	Н
I	use?	I
J	A. Some think it's easy to use. Well, horses for courses.	J
	When I started the company, to now, I have employed	
K	a lot of workers. They don't just work for me; they	K
L	work in other sites. After the incident, I have been	L
M	told off a lot, saying I was talking out of my head.	3.6
M	I have been asking my workers, my workers working	M
N	outside, whether leaded material is easier to use, but	N
0	all of them said no.	0
O .	After the Chinese New Year, I arranged with the WSD	U
P	for a partial inspection of concealed pipes at Queen	P
Q	Mary Hospital project. I did not ask my workers to stop	Q
	working. There were three Waterworks inspectors. They	
R	stopped and watched whenever they saw soldering being	R
S	done, and they asked a lot of questions.	S
	The impression I got was there were about six or	
T		T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	seven soldering parts hung on the ceiling, and it only	C
_	took six to seven minutes to complete the process. The	
D	press said, for lead-free, it will take so many minutes;	D
E	leaded, so many minutes. But I don't think that is the	E
F	case. I watched my workers.	
F	Q. But surely leaded is cheaper?	F
G	CHAIRMAN: No need to ask this question.	G
Н	MR LEE: But you know; right?	Н
11	A. I did not look into it. Since I have confirmed that	п
I	this is easier to use and it conforms with the WWO, why	I
J	would I not use it?	J
-	Q. So even when the compliant material is much more	3
K	expensive, you still use it?	K
L	A. Of course. As I said, in plumbing works, I will submit	L
	even when it's just one small screw. A reporter has	
M	come to my company, and I have a warehouse that is over	M
N	1,000 square feet big, and they stumble upon a screw,	N
0	and you see it's been stamped with a brand.	
О	Q. Then why do you think people would criticise you?	0
P	CHAIRMAN: Sorry, I have to stop you because it's nothing to	P
Q	do with his expertise.	Q
•	MR LEE: With the Queen Mary project, who were they?	Q
R	A. Waterworks inspectors. I did a partial inspection.	R
S	There were three floors, and it's something in relation	S
	to some work.	
T		T
\mathbf{U}		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	Q. Prior to July last year, have you seen so many people	C
D	watching the work process? A. Sometimes one, sometimes two, and there has been three.	D
E	CHAIRMAN: What about inspectors from the WSD, watching you	E
F	work? A. No, just for inspection. It was part for partial	F
G	completion. I told them that there would be three	G
Н	floors, that the top layer will be laid. So they need to have an inspection. So it's an interim inspection.	Н
I	That is before the plastering is done.	I
J	MR LEE: In the past, when you were doing soldering work,	J
T 7	they never sent anyone to watch you?	
K	A. Let me clarify. I did not ask them to come to watch	K
L	soldering. I asked them to come and conduct an interim inspection.	L
M	MR LEE: (Chinese spoken)?	M
N	CHAIRMAN: Mr Lee, "no" is the answer. According to Mr Kan,	N
0	there is no need for the WSD to monitor. MR LEE: Although you insist on complying with the law that	0
P	it should be lead-free, but to your understanding, a lot	P
Q	of people don't share your view. They use leaded material. Can you say that?	Q
R	A. Let me put it in a different way. In my understanding,	R
S	the majority of the people are law-abiding. You asked	S
T	me, after the lead incident, whether I was surprised or	T
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	shocked. I was, because it's an inexpensive item. I wonder why people would cut corners. So I call my	C
D	fellow tradesmen in the associations and institutes as	D
E	to why it would happen, because I was surprised.	E
	CHAIRMAN: Perhaps you are already on a different level.	
F	Because if you are super-rich, compared to us, it's	F
G	a big difference. So it depends on how much money you	G
Н	have. If you are a businessman, if you have a lot of	
п	money, then things are different to you. You are saying	Н
I	that there should be ethics. But when there is	I
J	financial pressure we have seen a lot of cases in the	J
	High Court. We have seen cases of how people react to	
K	pressure.	K
L	A. I was called down to luck in 2000. I had to support my	L
	company's operations by selling my flat.	
M	MR LEE: You had a flat to sell to begin with.	M
N	You said most people should be law-abiding. Should	N
0	be. But as a matter of fact, not many people are	0
Ü	law-abiding?	U
P	A. In my understanding, I thought most people were	P
Q	law-abiding. From what I have heard, most of these	Q
	people thought they were law-abiding, because they were	
R	using British-made solder.	R
S	Q. All right. It's British made, it's BS; they thought it	S
Т	would be okay.	Т
•		1
U		U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	I have to check the sequence. Plumbing subcontractor. Mr Kan, we know that lead	C
D	is found in drinking water. That is, the water up the	D
E	pipes and through the pipe, some lead is dissolved, and	E
	then when you turn on the tap, the consumer would be	
F	affected; you know that?	F
G	A. Yes.	G
**	Q. It has to do with workmanship; right? Is there	
Н	a difference, whether the workmanship is good or not?	Н
I	A. Well, it was raised by the media. It was said that the	I
J	wrong solder was used, a lot of lead was released,	J
	leading to contamination. First of all, they used	J
K	non-compliant material, so that more lead was leached or	K
L	dissolved. If the workmanship was good, then the	L
	contact surface would not be big enough to cause the	
M	problem. I told that to people from the radio and from	M
N	the papers.	N
0	Q. So, if the workmanship was good, not so much lead would	0
0	be released; correct?	0
P	CHAIRMAN: So it's important to hire the people with the	P
Q	right skills? I heard you say on TV that you suspected	Q
-	those workers had never been properly trained.	
R	MR LEE: There's a body of opinion, if I may put it like	R
S	that, that this excess lead in water should mainly be	S
T	attributed to the fault of the licensed plumber. Do you	_
T		Т
U		U
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A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	agree?	C
_	A. The main responsibility rests with the licensed plumber,	
D	I agree. Under the law, the licensed plumber is	D
E	authorised to carry out plumbing works. When he signs	E
	the WWO46, he signifies his willingness to shoulder the	
F	responsibility, to make sure that suitable materials are	F
\mathbf{G}	used and that the installation would be carried out in	G
**	accordance with the WW Regulations.	
Н	Q. But as you said, people thought that using British-made	Н
I	material would be good, or good enough. What about	I
J	50 per cent lead solder?	J
J	A. So there was no proper instruction given to the workers.	J
K	Q. So there's a lack of instruction or education. We know	K
L	that although it's British-made, 50 per cent lead solder	L
	wire	_
M	CHAIRMAN: We have heard from the media that there is leaded	M
N	solder manufactured in Germany. It's available all over	N
0	the world. According to Prosperity, there was leaded	
0	solder from the mainland. Then came the British-made	0
P	ones.	P
Q	MR LEE: So people thought that it's okay, because it's	0
V	British-made.	Q
R	A. So that's why in my expert report I said we should	R
S	target public education. We should inform the public	S
	what is the right thing to do. I employed fresh	~
T		T
U		U
	400	

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	graduate engineers. I always tell them to type WSD, to	C
D	access the website of WSD, and then you can find the relevant information on all the requirements, and then	D
E	they were able to acquire all the necessary skills after	E
F	working on the site.	F
r	Q. So you have to tell them that, "Don't think that it's	r
G	<pre>lead-free if it's British-made"?</pre>	G
TT	A. I am not trying to teach them to distinguish materials	**
Н	made in the UK or the mainland. I would tell them that	Н
I	if you are to work in this trade, you should know the	I
J	basic requirements of waterworks installations, and also	J
	whether there's any contradiction with the contractual	
K	clauses, and if so you should draw the attention of the	K
L	owner, saying that your requirement is not in line with	L
	the legal ones.	
M	Q. But there's a misunderstanding, saying that the	M
N	British-made 50 per cent lead solder wire was okay, then	N
0	we have a problem?	0
	A. For bigger sites and bigger contractors, the materials	O .
P	will be supplied by the contractor to the workers. The	P
Q	workers don't have to care about whether it is	Q
	British-made or it's 50 per cent lead or other solder.	
R	When I was interviewed by the radio, some phone-in	R
S	callers criticised me. They were the contractors	S
T	working alone. They thought that buying the	Т
U		U

A	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		s Lead Found in Drinking Water	Day 58	В
C		British-made ones, materials, would be okay, and some	:	C
		learned the trade from a master, and there was no pro		
D		regulation. So they would just buy materials that th	eir	D
E		masters purchased all over the years.		E
_	Q.	You entered the trade in 1973, and then in 2000 you		
F		that lead-free solder should be used. When did you k	now	F
G		about the health hazards to the children if lead is		G
TT		found in water?		
Н	Α.	I was surrounded by the people from the media on 8 Ju		H
I		in Wan Chai, and I insisted that if everything was do	one	Ι
J		in accordance with the Waterworks Regulations and the		J
ū		materials were on the approved list, there shouldn't		J
K		any hazard caused. Since so many people asked questi	ons	K
L		about lead in water, so on that particular evening		L
		I visited the WHO website. I typed "lead in water",	and	
M		I looked up the information on lead and the sources of	of	M
N		lead. Then I told, in subsequent interviews, that th	ere	N
0		are 11 ways to be exposed to lead. It can be exposur		
0		through breathing or petrol, exhaust fumes, and I als		O
P		referred to the US standards. That's after the		P
Q		incident.		Q
¥	Q.	You are such an experienced plumber, and yet you knew		Ų
R		about this so late?		R
S	Α.	Well, we didn't know about the details of the hazards	s of	S
		certain metals, but as a licensed plumber, I always k		
T			,	T
U				U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	that I had to abide by the law and the contract.	C
D	Q. Although you have no clear idea about the possible hazards?	D
E	A. Yes.	E
	MR LEE: Thank you.	_
F	DR WONG: I don't have any questions.	F
G	CHAIRMAN: Mr Kan, thank you for coming to give evidence.	G
Н	(The witness withdrew)	Н
	CHAIRMAN: Let's have a ten-minute break before we deal with	п
I	the next witness.	I
J	(4.10 pm)	J
	(A short adjournment)	
K	(4.26 pm)	K
L	CHAIRMAN: Mr Wong.	L
	DR WONG: We are next call the deputy director of the WSD,	
M	Wong Chung Leung.	M
N	MR WONG CHUNG LEUNG (affirmed)	N
0	Examination-in-chief by DR WONG	0
0	DR WONG: (In English) Mr Wong, you have filed three witness	О
P	statements for the purpose of this hearing.	P
Q	CHAIRMAN: English or Chinese?	Q
•	DR WONG: In Chinese. You have made three statements and	Q
R	I will now read these statements. If you would like to	R
\mathbf{S}	add or change anything, I would like you to tell me, but	S
T	I will read all three statements.	T.
T		Т
U		U
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A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	(1st witness statement read in English)	C
D	(Via interpreter) Please, I will now move on to the next witness statement of yours.	D
	"(In English) 2nd witness statement of Wong	
E	Chung Leung".	E
F	(In English) I will skip the formal part.	F
G	Paragraph 3:	G
**	(2nd statement read in English)	
Н	(Via interpreter) Mr Wong, I am going to read out	Н
I	your 3rd witness statement, starting from paragraph 2:	I
J	(3rd statement, paragraphs 2 to 34, read in English)	J
	"(In English) Contamination".	
K	"(In English) Soldering".	K
L	(In English) Chairman shall I finish the whole	L
	thing?	
M	CHAIRMAN: (In English) Yes.	M
N	DR WONG: (In English) Paragraph 35:	N
0	(Paragraphs 35 to 52 were read in English)	0
O	Mr Wong, I have read out three witness statements.	0
P	Can you confirm that the contents of the three	P
Q	statements are true and correct?	Q
	A. Correct.	
R	Q. Do you want to adopt the content of these three	R
S	statements as part of your evidence?	S
T	A. I am willing to.	Т
		*
U		U
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A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 58	В
C	DR WONG: I don't have any supplementary questions to ask.	C
	CHAIRMAN: We will adjourn until 11.00 on Monday.	
D	(5.17 pm)	D
E	(The hearing adjourned until 11.00 am	E
F	on Monday, 22 February 2016)	F
G		G
Н		Н
I		I
J		J
K		K
L		L
M		M
N		N
0		0
P		P
Q		Q
R		R
S		S
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A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation		A
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