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С	2015年11月5日	C
D	<u>上午 10 時 02 分恢復聆訊</u>	D
Е	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	Ε
F	殷志明大律師,由羅夏信律師事務所延聘,代表香港房屋委 員會	F
G H	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	G H
I	林國輝大律師,由孖士打律師行延聘,代表瑞安承建有限公 司	I
J	麥高義資深大律師及許佐賓大律師,由的近律師行延聘,代 表保華建築營造有限公司	J
K	Mr. Ian Pennicott 資深大律師及林定韻大律師,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 M	李頌然大律師,由顧增海律師行延聘,代表有利建築有限公司、明合有限公司及伍克明	L M
Ν	譚俊傑大律師及吳思諾大律師,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	N
0	及 Lui Hui Ping	0
Р		Р
Q	主席:石大律師。	Q
R	石先生:係,主席先生,咁少少嘢我哋想就同委員會報告嘅,就係我哋星 期一早上,我哋係有兩個證人係以證人傳票係到庭,係要嚟呢個委員 會嘅。佢哋分別就係蕭健煌先生同埋莫海光先生,就係分別就係恆利	R
S	同埋永興佢哋嘅負責人。咁呢	S
Т	主席:恆利,同埋咩嘢話?永	Т
U	石先生:嗄,永興。	U

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- 主席:永興,係。
 - 石先生:係。但係我哋星期一同星期二,就我哋係有一個安排就係會同專 家證人,其中一個係海外嘅專家證人係會面。所以就--同埋呢位專家 證人係會與香港嘅一個專家證人係有會面同埋傾談,所以我哋星期一 同星期二我哋主要係要嚟預留時間係要同專家證人會面同埋聯繫。

所以我哋而家暫時我哋嘅打算--即係當然同大家報告,就係星期 一早上我哋係會照係開呢個聆訊,但係就純粹就係等嗰兩位證人即係 出嚟出現係報到,睇下佢哋嚟唔嚟。咁就如果嚟嘅話,我哋當然會注 意就係佢哋嘅證供,就係話「嗱,你哋可能會遲啲再嚟就畀口供。」 同埋同佢哋攞咗佢哋嘅聯絡嘅資料就再作安排,咁佢哋可能係會出現 嘅啫,就唔會係作供嘅。咁就如果佢哋唔嚟嘅話,當然委員會會作考 慮下一步嘅行動。但係無論嚟與唔嚟,都唔打算個聆訊係會長嘅,所 以就星期一早上最可能發生嘅事情,就會係即係律師團隊或者部分嘅 律師團隊會出現好短嘅時間,處理咗嗰兩位出現或者唔出現嘅證人之 後,我哋就打算提議係聆訊就唔再進行,就會押後到到星期三,就將 星期一餘下嘅時間同埋星期二全日都係預留嘅,只不過係律師嘅團隊 與專家證人會面,咁呢個係我哋嘅提議同埋打算。

- 主席:好呀,好呀。請問有冇其他大律師有意見想講?如果冇嘅話,我哋 星期一、二,基本上就係唔會聽取證供嘅。咁就星期一嘅早上就會正 如石大律師啱啱講,我哋會處理兩位證人佢哋出席嘅問題,因為呢兩 位證人係--我哋係可以畀到證人傳票佢嘅,咁而之前亦都係聯絡唔到 嘅。咁就所以各位大律師係如果你想出席星期一嘅聆訊嘅話,咁呀歡 迎;咁如果你哋想有即係用你哋--更好用你哋嘅時間嘅話,咁星期 一、二就可以你哋鍾意喜歡做你哋做嘅嘢都得,咁就呢個就係個安 排。咁我哋今日再繼續,可以再繼續。繼續請番阿馮女士入嚟,唔該。 好,我哋可以繼續。
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<u>香港房屋委員會第二證人:馮宜萱女士(房屋署副署長(發展及建築))</u> <u>宣誓繼續作供</u> <u>石先生繼續盤問</u>

- 問:馮女士,咁尋日我就係同你睇緊中國建築佢提交咗畀委員會嘅一個報告,就係講緊其實佢哋嗰個採購嘅--個女喺度處理緊,等佢整好啲嘢先。
- 答:好。咁問一問需唔需要提供番尋日個答嗰啲問題?
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問:我一陣間我問到--我講完呢一 part 之後,我會返番去尋日叫你攞番 嚟嘅資料。麻煩你打番開 B5.7,B5.7,11834。佢呢度就係講番尋 日就係話,中國建築講番就係話啲物料送到去地盤之後有冇檢視過呢 咁,咁中國建築就話由於房署嗰個 Form 6210 係冇要求去檢測或者 檢視焊料嘅,咁所以就係冇 check 到送去公--地盤嗰啲焊料嘅。

跟住我哋睇番跟住嗰頁,就 11835,咁佢呢度又講到係有啲預製 嘅組件嘅,見到嘛? "Precast units",見到嘛?

答:見到。

問:咁就話就有啲嘅預製組件,就係將一啲做水喉嘅物料係送咗返內地就 造預製嘅組件,咁中國建築嘅工程師就會就即係 check 晒所有有關 嘅資料,就畀房委會就批核。咁然之後,就何標記就會將有關嘅資料 send 去畀呢個有利呢個公司就遞交畀中國海關,咁就做一大拃嘅呢 個呈交嘅工作。咁跟住何標記就提供咗一啲資料,就話何標記就係由 呢個 Prosperity 呢間公司係買呢個焊料嘅。咁呢個 Prosperity 就亦都呢間公司就係房委會批核嗰啲焊料嗰個文件裏面出現過嗰間 公司嘅名。佢跟後來就 11836 就喺度即係繼續講番佢中國建築佢做 過啲乜嘢係 supervision,即係同埋 monitoring,即係一路監察 嘅行動。譬如話 C1.2 嗰度,你就見到佢就話佢個 stock keeper, 即係負責管理嗰個存貨嘅人,佢就會 check 番嗰啲送咗去嘅貨,用 番嗰啲買嘢嘅單嚟到 check。咁但係呢就因為有關 check 呢啲咁嘅 紀錄係房委會 keep 嘅,咁所以就中國建築係方呢啲紀錄。

> 至於你落啲就係 soldering material,關於焊料嗰度呢,佢 就叫你睇番 B1.4,B1.4 嘅,即係講番就係由於房署嗰個 form 根本 唔需要 check 焊料,咁所以就更加就係冇紀錄。

> 跟住佢餘下講咗好多關於中國建築內部做咗好多嘅嘢,咁我唔同你即係仔細咁樣睇。但係我同你講番,就係中國建築佢自己對含鉛事件,佢有個結論係乜嘢呢咁?咁我就睇之前11821,11821,你睇番2.4 段度,佢就話即係佢哋嘅紀錄就顯示佢哋將啲用料係正式呈交畀 房委員攞審批之前,佢哋係 check 過嗰個二判商嗰啲文件,就發現嗰 啲焊料其實係符合合約嗰個要求嘅。咁但係發現咗呢個含鉛事件之 後,中國建築就用肉眼咁樣去嗰個項目嗰度,就即係喺公眾嘅地方睇, 唔係入屋企睇,就用肉眼去睇嗰啲焊位,就察覺到嗰啲焊接位有啲乜 嘢異常嘅表面嘅痕跡或者特徵。

咁中國建築就話佢已經叫咗做水喉嗰個二判呈交一份報告,咁但

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係直至寫呢份報告嗰日,呢個二判係仲未呈交呢個報告嘅。咁佢跟住 就係講,就話就其實係行內係有一個規矩或者一個程序係要 check 嗰 啲焊料嘅,咁跟住佢後來補充嘅文件都有提供,提到過就係行內嘅程 序,其實係方話要驗呢個焊料。

同埋佢跟住又提到過,就係正如上面 2.2 段所講,2.2 段就係 11821 嗰度,就睇番佢以往嘅文件,就係話其實佢當日呈交去房委會 攞准許,佢係話用"FRY"呢個牌子你記得喇,佢係用"FRY"呢個牌子, 咁"FRY"呢個牌子嘅文件就係話,文件上係唔含鉛嘅,無級別嘅咁。 咁總之即係中國建築就係話,「我睇番我哋之前做嘅嘢,呈交嘅文件 就話係 fine 嘞,就唔含鉛嘞,我問咗嗰個 sub-contractor 叫佢 解釋,佢就未畀到個報告我哋。」

所以佢--跟住就睇番 2.9 嗰個結論嘞,2.9 中國建築嗰個結論, 就係話嗰個即係可能嘅原因就係做水喉嗰個二判或者係佢嗰啲工人, 喺做呢個焊接嘅時候就背住呢個中國建築,即係 behind 中國建築's back 就用咗一啲唔符合規格嘅焊料,但係中國建築喺即係做呢份報 告嘅時候,就有證據顯示其實究竟係邊個咁用嘅,邊個係即係用咗啲 錯嘅焊料,佢就講唔出。跟住佢就話即係佢哋係用咗好多嘅辦法係走 去呢個幫助或者紓緩呢個結果咁樣。

但係中國建築建佢嗰個立場就係話,起碼佢開頭係有呈交過一啲 嘅樣本,嗰啲樣本又有文件去證明,就係"FRY"呢個牌子,就寫住係 「無鉛」,咁起碼第一步就好似係做咗足。但係到到實際上落場做, 由於冇一個檢測嗰啲 sample--嗰啲實際上送咗去嘅物料,咁同埋後 來做出嚟就發現原來係有含咗鉛呢,咁所以佢就只能夠去推論,就係 總之係有人做嘅時候係用咗一啲含鉛嘅嘢,不過就唔知係邊個,咁呢 個係佢嘅一個講法。

咁我哋睇睇另外嗰啲承建商佢哋各自對出事嗰個可能嘅原因嘅講 法;咁跟住我可能會探討下就係其實睇番轉頭,可以喺邊一個階段其 實做到啲乜嘢嘢去防止。呢個我哋睇咗中國建築,我哋而家繼續睇, 就睇睇有利,有利就係 7.4。我哋攞個牛頭角下邨嗰個報告,17859, 17859,你見到呢個就係有利喺二零一五年八月嘅一個報告,你見到 嘞。咁佢下面就--喺 contractual relationship 嗰一欄佢係咁 講嘅,佢就話有利係大判,main contractor,即係主承建商;咁 有間公司叫做明合,明合就係有利嘅關於水喉方面嘅一個分判商。咁 佢話有利同埋明合都係有利控股嘅子公司嚟嘅,咁所以有利同埋明合 其實係即係姊妹公司,同一個集團。咁呢個項目嗰個持牌水喉匠就叫 做伍克明先生,伍克明先生就係明合嘅僱員嚟嘅,做咗三十一年。

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咁佢哋嘅分工就係咁嘅,咁就係有利就係整個工程嘅承建商;明 合就係做水喉;呢個伍克明就係持牌嘅水喉匠,佢負責就係喺地盤上 嘅監工同埋處理所有係有關即係水要攞准許、牌照嘅問題,同埋係有 關嘅法定嘅程序同埋步驟。

呢度停一停先。你記得尋日我問過你就係關於呢個 licensed plumber,法律規定係其實你字面上一睇,就係要 licensed plumber做嘅,係咪呀?即係除咗 licensed plumber 或者有授權 嘅公職人士之外,就有人可以做水喉嘅,你記得我同你睇 15 條,你 記得嘛?尋日。

- 答:呢個提過。
 - 問:記得。呢度就似乎就係即係有利佢講,就係呢個持牌水喉匠就係負責 去監督,即係佢冇話所謂佢做,佢話佢係監督或者係處理一啲法定嘅 要求嘅嘢。咁以你嘅理解,其實一般嘅即係行內嘅人,其實佢哋好多 時候都唔係持牌水喉匠,唔係真係落手落腳咁腯咗去做,而係只不過 係可能係簽下紙,或者係純粹叫做做下監工嘅呢?以你嘅理解。
 - 答:以我嘅理解,其實佢哋其實水喉匠可以監督一啲佢屬下嘅一啲工人去 進行呢啲工作,咁如果我記憶所及,零九年代都有過一啲 circulars,即係水務嘅 circulars 都提過呢一樣都應該係可以容 許嘅。
- 問:唔。
 - 答:咁你變咗行內普遍呢個情況都會出現嘅。
- 問: 唔。我哋--呢個未必係你嘅範疇,不過你即係好多謝你同我哋講咗內 行嗰個認知,我哋遲啲可能要考慮就係,即係如果法例係話除咗持牌 水喉匠冇人可以做之外,咁水務監督嗰方面又將個法律理解成為「唔 緊要,佢唔使自己做嘅。」佢可以監工嘅啫,咁呢個我哋遲啲可能會 探討下,咁呢個其實係咪一路對法律有個正確定係錯誤嘅理解,咁但 係我而家呢度即係指...
- 答:唔,係,即係我只可以講係普遍業內嗰個理解都係咁嘅情況。
- 問:係。因為其實可能有個潛在嘅問題,你都明白,字面係咁寫,因為持 牌水喉匠個牌佢㗎嘛,要考或者要識嘢,要讀書,就係佢去讀㗎嘛, 咁但係如果佢唔使自己做,佢淨係監工,你請啲咩嘢人返嚟佢唔知㗎 嘛,同唔同意?

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- 答: 佢係監工, 不過就佢亦都可以係一個打理人, 即係佢都負責管理埋佢 下面工友應該所做出嚟嗰個質素係達標嘅。
- 問:唔,好。咁實際上我唔知道實際上嗰個持牌水喉匠會唔會真係逐個逐 個接口去睇,咁呢個可能我哋遲啲同另外一啲證人探討一下,okay。

我哋繼續睇落去,就 17859下面嗰度,就係佢話"To procure contractually acceptable material"嗰度見唔見到?下面數 起 第 六 行 , "To procure contractually acceptable material",見唔見?佢話即係阿明合就為咗要即係採購一啲即係合 約規定可接受嘅物料,佢通常就會將所有嗰啲用嘅物料係透過有利就 提交房委會係攞呢個事先嘅准許,咁先至開工嘅。咁佢話至於實際落 手落腳去做,就係會再搵另外一個叫做 sub-subcontractor,即係 佢判上就會再判,就判咗畀呢個叫永興嘅呢個判頭去做,咁呢個永興 個老闆或者打理人就係呢個莫海光先生,見到嘛?

莫海光先生同明合就已經合作多時㗎嘞,所以嗰個合約嗰個串連 就係有利就判畀明合,明合就再判畀呢個永興,永興嘅負責人就係莫 海光先生。佢跟住就講呢個明合角色同埋嗰個持牌水喉匠嗰個角色。

佢話莫海光先生就一路喺內行都係即係獲大家嘅信賴,同埋係一 個大家覺得佢好負責嘅一個判頭嚟嘅。佢就話之前原來係做過好多項 目都冇出現過咩嘢問題,所以就明合就好信任呢個永興呢個判--呢個 公司嘅。咁佢就話雖然明合就會將一啲物料就透過有利就呈交畀房委 會去攞核准,就其實就唔係所有嘢都係明合買嘅,明合同有利係同一 個集團,所以即係佢幫埋明合講嘢即係差唔多係。其實啲料就唔係明 合買嘅,直接買料呢,即係透過一個所謂 sub-subcontractor,判 上判,由最後嗰個判頭走去買料係一個好常見嘅一個做法,咁你同唔 同意?以你業內嘅理解。

- 答:以我理解,其實佢如果連工包料判畀個二判,一般嚟講,個二判就會 買料,咁至於佢判咗三判,一般嚟講,我哋都可以容許佢判落第三浸。 所以如果佢係將呢一個工作同個責任都判落去嘅時候,佢可以由呢一 浸嘅分判商去採購,但係總體嚟講,嗰個責任仍然係屬於個總承建商 嘅。
- 問:我明。即係合約上就還合約上,合約上你追究,房委會只係同嗰個 main contractor 有合約嘅責任。

答:係,正確。

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С	問:	但係事實嘅理解,咁你都知道行內就係一路判落去,真係去買可能係 隔咗兩浸㗎嘞已經。	C
D	答:	呢個係有呢一個可能,同埋亦都喺呢個情況	D
Ε	問:	常見。	E
F	答:	嚟講,我唔知係唔係常見,不過係可以容許嘅。	F
G	問:	係,好。	G
Н	答:	因為一般嚟講,我哋就希望佢只係判到第三浸。	н
I	問:	唔。因為你越判落去嘅話,你都唔知去咗邊啲人手上㗎嘛?	I
1	答:	所以我變咗係我哋就會有一個限有規限就係去到第三浸嘅。	I
J	問:	Okay。規限係咩嘢,唔係一個合約嘅規限嚟嘅?	J
K	答:	佢係合約上面嗰個 practice,general practice。	K
L	問:	Okay。好嘞,跟住再睇落去,就係話就係由於一路就對永興嘅信任, 明合一路就會叫永興就係負責去買料,佢呢度咁講嘅,你見到嘛?	L
Μ	答:	見到。	Μ
Ν	問:	咁佢話呢啲焊料,一般呢就好快就消耗咗㗎嘞,即係簡單講,就係你	Ν
0		燒咗焊嵌咗落去就冇咗㗎嘞,成嚿嘢即係變咗形,冇咗㗎嘞,焊燒完。 係咪叫焊燒?消耗咗嘅,即係「耗材」可能叫做,係咪呀?所以就可	0
Р		能佢嘅意思就係呢啲好快消耗嘅嘢就唔係好大件嘅嘢,所以佢話就為 咗唔好話將個即係 supply 嗰個供應因為出現問題而有延誤,因為好 多嘅二判,包括明合就覺得比較方便嘅做法,就係由得嗰個最後嗰	Р
Q		個判頭,即係喺呢度係個永興就自己走去買,即係我諗佢嘅意思係方	Q
R		便,如果事事要隔咗一重,由中間嗰個判頭走去訂貨,就費時失事, 就不如做嗰個人要到就佢去買,要買幾多就佢決定。咁呢個你頭先所 講,就係即係到到第三浸都係容許嘅,對嘛?	R
S	答:	唔,對。	S
Т	問:	係。咁佢就話就呢個亦都係一個標準嘅做法,就係永興負責走去買,	Т
U		咁而永興同埋明合之間嗰個合約亦都係咁樣去講嘅,咁樣去寫嘅。咁 佢跟住嗰段就係話,明合就直至到最近就完全係唔知道用一啲唔合乎	U

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哋講嗰張水紙...

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答:係。

問:...亦都係冇要求係要走去測試呢個鉛嘅含量嘅。咁呢個可能就係符 合番你尋日所講,就係話「你所講,就係我唔好理你嗰啲紙究竟係根 據啲乜嘢嘅條例出。」有利就話「總之行內就覺得即係水務監督做法 就係我驗咗嗰八樣嘢,我就會出畀你㗎嘞,佢驗嗰啲嘢就唔包括重金 屬」咁,有利就係咁講。咁佢跟住就---嗰段就話由於水裏面嘅鉛量係 唔係話喺任何嘅測試嘅要求裏面,所以就冇人係做過任何嘅測試嘅。 即係佢又冇做,明合又冇做嘅。咁佢再講,就係話行內就眾所周知, 就係話供水系統咩嘢先至叫做係即係令人滿意呢?就係當水務監督 批咗、檢測咗嗰個水務系統,根據嗰個 WWO46 第 V 部分。我哋尋日咪 睇咗 046,046 就係開工前要話畀佢聽「我開工」,開完工我就話「我開 完工,麻煩你嚟睇」咁。咁即係總之行內就係話即係靠水務監督,你嚟---根據 46 號嗰個 form,叫咗佢嚟睇,睇完之後,就 pass㗎嘞。即係佢呢 個話係行內嘅一個睇法。

規格嘅焊料呢個事情嘅,因為出事之前,從來有人提過話嗰啲焊料嘅

規格係有問題。佢話眾所問知,就係水務監督出嗰張 1005,尋日我

答:呢個係正確嘅,而係 WWO46 Part V 都有 indicate 水務署係有派 員就去 inspect。

問:唔。

- 答:Part V佢係有呢一個 part 喺度,可以睇睇張 form Part V。
- 問:好,我明。呢個我當然會遲啲問水務署。不過你講起,我哋睇睇,WWO Form 46 Part V,應該係 37626 嘅,你嗰個證人供詞嗰個 bundle, 應該係 B15.2 嘅。
- **Q** 答:15...
 - 問:B15...
 - 答:...--15.1。
 - 問:B15.1,37626。

答: Part V 應該係 37625。

問: 625, 係咪? Sorry, 我用緊舊嗰個 pagination。37625。呢度我

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係諗住問水務監督嗰面嘅,不過即係你提出,就我而家攞埋出嚟講一 講。

答:因為就正如即係你啱啱頭先你喺嗰封信嗰度提到呢一個--呢個 part 就係咁樣嘅。

- 問: 係呀,係, Part V 呢嚿。咁你見到嘞,就係"Plumbing detailed in Part IV",即係第 IV 部分所提到嘅供水系統。尋日我哋睇過第 IV 部分,就係完咗工之後,大家簽畀水務監督,就話「我完工嘞,你 嚟睇喇。」咁嗰部分?
- 答:正確。
- 問:第∨部分就係水務監督簽嘅,就話「你第四部分講嗰拃嘢,就話『我 就睇咗嘞,喺邊日檢驗咗。」咁跟住佢就話「根據《水務條例》就方 發現有任何嘅問題。咁所以第 IV 部分所講嗰啲喉管,我就批核」咁 樣。
- 答:係。
- 問: 咁所以話至於究竟邊個責任大啲,究竟佢係即係--呢個我哋遲啲再探 討。不過, 呢個就係佢裏面所講嘅 Part V。
- 答:係,正確。
- Ν 問: 咁我哋睇番 B7.4 嘅 17860, 中間嗰段, 啱啱講完 WWO46 Part V, 我哋睇咗嘞。跟住再睇,佢就話就喺過去嗰數十年,就喺呢一個問題 0 上,即係靠呢個 WWO46 Part V 呢樣嘢就作為即係核准呢個做法, 就喺過去幾廿年都有人曾經即係作出過一啲即係話出咗事嘅報告。跟 住佢就話,焊料就唔係一樣貴嘅嘢,"Solder is not an expensive Р component."咁嘅,「焊料又唔係一樣貴嘅嘢。」咁所以就即係有 人係可以即係合理地預計到--即係或者明合嘅管理層就有可能合理 Q 地可以預計到,就係有一個同佢合作多年嘅分分判商係會用一啲唔符 合規格嘅焊料。佢就好小心嘞,佢就話假如真係咁嘅話,即係佢冇作 R 出一個指控,但係佢話「如果真係有人皆住我面用咗啲唔合規格嘅焊 料嘅話,我都冇諗過會有咁嘅事情發生,因為呢啲唔係貴嘢。」佢係 S 咁講,你見到喇。咁佢就繼續講就係話,實際上,就係明合同埋永興 之間嗰個書面協議就話永興就係要負責係連工包料,明合就有叫永興 Т 係提供買嗰啲焊料嘅單嘅。明合就話,佢係完全係依賴莫先生嗰個經 驗,而莫先生就係完全知道房委會對呢個水喉用料嘅要求嘅。佢話如 U 果有任何嘅用料係房委會批准咗嘅話,都係基於莫先生提供嘅一啲樣
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本。佢話如果吓,如果--佢亦都好小心嘅寫法,佢話如果實際上用嘅 用料係同原先呈交畀房委會嗰套樣本係唔同嘅話,咁就似乎係莫先生 就係即係辜負咗明合對佢一路以嚟嘅支持同埋信任。

咁又係即係講番類似中國建築嘅嘢,就係話可能入嘅係一套,批 核嘅係一套。實際用嘅可能唔係批核嗰一套,咁但係嗰個主承建商, 甚至喺呢度嚟講明合,即係嗰個 plumbing contractor,佢就話「我 係唔知道,我係唔知情嘅。」咁佢哋係咁講,okay?

咁跟住就--我哋睇番跟住後面嗰頁,17861。好嘞,伍克明先生, 你記得呢個伍克明先生就係嗰個持牌水喉匠,持牌水喉匠就係明合 請。呢個伍克明先生同埋佢嘅一個團隊,有隊 supervisor 嘅團隊就 係定期走去檢查嗰啲接焊嘅工作。咁但係佢即係喺呢啲咁嘅偵測嘅時 候,就冇報告過或者發現過任何唔合規格嘅焊料。佢點樣去檢測呀, 佢點樣去 test 合唔合規格呢個,我哋就遲啲睇下問唔問到佢。咁但 係佢係咁講嘅,佢話亦都冇人投訴過話嗰啲焊料有問題,亦都冇人喺 個地盤度係 spot 到一啲唔合規格嘅焊料。咁佢話有利即係係一個有 經驗嘅承建商,咁多數一啲好似有利咁樣有經驗嘅承建商就全部就係 靠嗮呢個持牌水喉匠去安裝呢個水喉嘅工作。咁亦都係跟足行規就係 由嗰啲二判,甚至係總之三判,到到第三浸,sub-subcontractor 去買料。佢話係今次呢件咁不幸嘅事件之後,先至發現呢一種咁判上 判嘅做法原來係一個潛在嘅危機,就會影響供水嘅質素。咁呢個就係 有利嘅說法,咁佢跟住就提出咗一啲即係一個補救嘅措施咁。

你睇到就係中國建築同埋有利佢哋嗰個理解,就係開頭第一浸喺 佢哋即係同房委會嗰個交往,提出嗰啲攞 approval 嗰浸,應該就係 入咗啲--唔係,起碼我哋見到就係中國建築係直情有埋嗰啲文件係 submit 咗個 sample 咁樣,好似"FRY"嗰個 sample。有利,我睇 呢份文件,我就見唔到佢有一個 submission 嘅即係文件,可能有, 可能冇喇,但係即係佢哋大家都係話個出事喺下一浸嗰度。

咁我而家睇一睇就係另外嗰兩個承建商,瑞安就係 B4.5,6617。 瑞安呢個報告,你睇睇 6617,第1段,佢就話--因為我呢個係求其 抽一個邨嚟講,即係好多個邨佢都有報告,咁呢個就係葵聯邨二期。 咁佢講就話做水喉嗰個系統嘅工作就判咗畀何標記做,咁有關嘅持牌 水喉匠就係林德深先生。咁喉管--就係批核咗出嚟嘅喉管就係以下嗰 兩個牌子。咁佢話焊料亦都係批核咗,就係以下呢兩個牌子。

跟住佢就話,又係提到就係水喉就畀水務署驗咗,咁佢亦都提到 就 Part V WWO46,咁佢跟住第7項,佢就話所有嗰啲接收、要做測

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- C 試,甚麼、甚麼嗰啲所有嘅 Issuance of Water Certificate, 佢呢度個 Water Certificate 就係 Part V 叫做,即係行內所謂 呢個 Water Certificate 其實可能都有唔同嘅理解嘅,對唔對?我 之前問過你,你就話其實係 1005 嗰個 form 就叫做 Water
 E Certificate。
 - 答:其實呢個理解係兩樣都需要嘅。

問:Okay。

- 答:即係 WWO...
- 問:總之水務監督出嘅一啲證明,證明佢 okay 咁就得?
- 答: Part V 係--Part V 係需要,另外就係因為要攞一個入伙紙之前, 1005 亦都係需要嘅,即係兩...
- 問:入伙紙就係 building 方面嘅嘢,所以就係 1005,得。咁總之即係 佢籠統嘅講法就係話水務署都 okay 咗嘞,就唔包括要驗--即係驗嘅。
 - 咁跟住右手就係 6618 嗰度,咁講即係驗水出嚟嗰啲結果,咁我哋 就唔使仔細咁樣睇嗰啲驗水嗰啲咁樣嘅結果。咁你跟住睇番就係右手 面 6620,「Response of Sub-contractor 何標記」,何標記嘅 回應。

咁瑞安就出咗信就叫何標記就解釋點解葵盛圍呢一度呢個用嘅 料,就同嗰個 approved samples,即係批核咗嘅料係會有唔同。 咁何標記就覆咗,咁主要嘅答案就係佢話直至佢回覆為止,何標記都 唔知點解用嘅料係同批核咗嗰啲料係唔同。另外,佢就話何標記係完 全知道合約嘅要求,何標記又唔知道原來市面上係可以買到啲含鉛嘅 焊料。咁佢話何標記買嗰啲料,嗰啲單就冇晒,嗰啲 purchase order,買焊料嗰啲單 disposed,即係抌咗。持牌水喉匠就係會去 檢測員工之後嗰啲成--製成品,即係嗰個結果,即係睇咗嗰個接駁嗰 啲 completed works,咁跟住就先至會向水務署係報告話完工,我 諗佢意思就係簽 46 嗰張,因為 46 嗰張就係要個持牌水務匠簽,對嘛? 嗰張係要水務匠簽?

- 答:對。
- 問:咁佢話地盤上何標記嗰啲代表就會去 check 嗰啲用料,同埋去 check 嗰啲手工,跟住就報告番畀何標記聽。咁佢就--何標記就話呢一個葵

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盛圍嘅呢個事件,就似乎係一個單獨嘅事件,咁佢話事發之前佢係唔知道原來係用咗一啲受到污染或者係即係唔合規格嘅一啲焊料。

跟住睇番 6621,6621 就係講番即係瑞安佢做嗰啲嘅所調品質控 制嘅一啲程序。你睇番中間嗰度,中間嗰度就"Although 96 types of materials used in the project were required to be inspected as per the "List of materials", soldering materials for jointing copper pipes was not included in the list."即係話雖然佢哋係嗰個品質監控嘅程序,佢哋可能 會 check 好多嘅物料,有 96 種咁多,但係就冇 check 到焊料呢樣 嘢。咁跟住就 係 講 話 "in-process quality control on workmanship."呢個就係另外一個階段嗰個質量嘅管控,亦都係冇 check 到--冇要求去 check 呢個銅喉之間嗰個焊接。咁總之,即係 一言以蔽之,你睇番右手面,就即係佢哋內部嗰個對焊料就係冇一個 特別嘅程序係要嚟 check。

我哋睇番 6623,就係瑞安。瑞安就發表佢哋意見,就對於事情--點解會發生咁嘅事情?佢就有6點,佢提出咗六個可能。「Based on limited test results and available information, not easy to conclude why the contamination is found in the soldering materials in pipe joints of copper pipe in Ⅰ. 啟晴--葵盛圍」,即係好難先至--即係好難去話點解,咁佢哋提出咗 就係六個可能性。第一個就係空氣裏面嘅鉛就呢個污染咗嗰啲焊接 位;第二,就係啲工人就錯誤地買錯咗唔啱規格嘅焊料;第三,就係 可能買嗰啲工人冇買錯,但係啲人送貨去送錯咗;第四,就係啲料可 能唔夠用,咁就--或者即係佢訂咗啲貨,啲貨嚟唔切,佢就焗住要用 吃一啲原本諗住要嚟做第二啲嘢嘅焊料,或者從第二方面攞番嚟嘅焊 料;又或者就係可能到最後一個階段可能要即係一啲叫做 pressure test,做一啲壓力測試嘅時候,可能有--有漏,啲喉管可能會漏,咁 所以佢為咗要即係補番,即係到最後個階段測試可能有啲甩漏,佢要 補番,就攞第二啲嘅焊料就抿咗落去,咁就出事,呢個係第五個可能; 第六個可能就係一啲佢話都唔知係乜嘢嘅原因, "Other causes that are not known yet." 咁跟住何標記就講話佢到而家都唔知 點解。咁去到最屘嗰度,總之瑞安就話就係其實瑞安就唔係呢個始作 俑者,即係唔係唔關瑞安事,瑞安嘅講法就係咁樣。咁佢亦都跟住就 話, 佢以後都會做好啲㗎嘞, 咁呀 used。

咁跟住就你睇番隔籬嗰頁,6624。佢解釋點解葵盛圍呢一個項目 係冇 check 呢個焊料,佢嘅解釋就係即係業內一路都覺得焊料係好微 細嘅事情。咁佢話亦都係嘞,即係政府監控嘅 body,嘅個體嘅有關

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部門都冇 check 到個鉛份嘅。咁同埋佢話一路嚟講出水紙同埋出呢個 入伙紙都冇話過要 check 鉛,咁呢個都係即係業界嘅一個睇法,咁總 之就係業界都冇做,一路都冇做,一路都冇事,呢個係佢嘅睇法。

咁佢亦都係話唔關個大判事,即係所有嗰啲承建商都係話唔關佢 事。咁出事就可能係頭先我哋聽見有人話「背住我做」又盛咁,呢度 佢哋提出咗更多嘅可能,有更多可能係無心之失嘅理由,呢個就係瑞 安提出,你見到嘞呢個。

我哋最後就睇一睇保華,保華就係 6.4。我哋睇呢個之前,麻煩 你--對唔住,我哋睇咗 7.4,有利,因為有利嗰度,我有一點想同你 睇睇嘅,7.4,17873。17873,呢個係有利嘅一個信件,你睇番下 面嗰度,"Line of Command and Subcontracting",見唔見到? 呢封信其實係抄送咗畀你,如果你睇番 17877,佢有度係 cc 咗畀你, 見到嘛?

答:見到。

- 問: "Line of Command and Subcontracting There was no specific item of inspection for solder materials or soldering works in our quality plan."即係我哋嗰個品質 監控嗰個計劃就方特別要求去睇呢個焊料。佢跟住就話,至於即係喺 地盤嗰度點樣分工,佢就話佢有個叫"Block Foremen"就係負責去 睇即係呢個前線,即係呢個手工方面嘅嘢,或者用肉眼去睇;佢哋有 個叫做 BS Coordinator 就係負責嗰啲去畫圖、繪圖嗰啲;咁有個 AQCC 就係負責即係提供物料,即係 check 物料嗰啲。跟住佢有句就 係 咁,佢話"since the usual practice was for the workers",佢話由於一般嘅做法就係嗰啲包好晒嚟嗰啲焊料,就係 喺個工場嗰度就切到即係散晒先嘅,跟住就先至攞去工場--先至攞去 地盤,所以就送到去地盤嘅時候,有利嗰啲工場--地盤嗰啲 staff 就做唔到話 check 下究竟送到去地盤嗰啲用料係唔係就係一早 approve咗嗰啲用料,你見到喇,係咪?
 - 答:見到嘅。
 - 問:個--你知唔知道有呢個做法,就係好多人即係送到去地盤,其實事先 已經切好晒一條條,所以送到去地盤,你根本就唔知係咩嘢牌子,你 知唔知有呢個現象?
 - 答:可以話有呢件事件之前,我哋係唔知。

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問:唔。

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- 問:唔。咁如果有真係咁嘅事情嘅話,你會唔會同意其實就係一個缺口嚟 嘅?因為就算你之前審批得點好都好,你送到去地盤可以係冇晒招 紙,一叭嘢咁樣送去地盤,而又冇人去到監測送去地盤嗰啲係咪 "FRY"嘅話,咁中間其實啲人買乜都得,你同唔同意?
- 答:一般嚟講,總承建商都需要確保佢嘅物料係買得啱,同埋就係到地盤 嘅時候,來貨都應該係合我哋嗰個合約嘅要求,咁呢個就係合約上面 嘅要求。咁就係佢一個承建商佢點樣喺地盤嗰度去執行呢個工作,佢 亦都需要分工。正如頭先提到就話有啲邊一個人喺個地盤嗰度幫佢打 理,呢一個分判裏面佢嗰啲物料係合乎我哋合約規格,咁呢一個承建 商裏面,佢因為有一啲人--可能都唔係一個人,可能都有唔同嘅主管 嘅人員就去管理番每一部分嗰啲物料供應,同埋到地盤嗰個--對嗰個 單嗰個驗收嘅。呢個就一般我哋正常裏面嘅理解應該就係咁樣樣。
- 問:好。我哋繼續睇番有利呢個先,唔好意思,頭先我同你睇有利嘅時候, 就忘記咗同你睇埋呢一份嘢,因為呢份係有利一個補充嘅文件,我哋 繼續睇埋落去。咁佢呢度講咗地盤一啲嘅做法,就係即係搣晒啲招 紙,咁然之後就斬晒,之後先至攞去地盤,咁呢個係有利所講嘅一個 做法。
- 答: 係。即係我哋想睇就話, 一般嚟講, 呢個就即係唔應該係咁樣發生, 即係話照常理就係應該送貨到地盤, 不論我哋房署會唔會派一個同事 同佢一齊去做呢個 checking, 其實承建商都應該確保佢送去地盤嗰 一啲物料係合乎合約嗰個要求。
- 問:既然你講起,我就而家不如問埋你。就係好多時候,我哋尋日睇過房 署有張 form,上面有一啲 item 係話到明要 check,即係當住嗰個 房署嗰個代表喺個地盤度 check 嘅。
- 答:係。
- 問:我都明白好多時候就唔可以就地真係做啲好 elaborate,好複雜嘅 一啲化學嘅測試,有陣時要靠肉眼睇,對嘛?

答:呢個正確。

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С	問:	視乎係乜嘢,即係好多時候係靠肉眼去睇,對嘛?即係你嗰個表,你 使唔使睇番嗰個表?	С
D	答:	嗰個唔使睇,我都記得,都有記憶。	D
E	問:	唔使,得。你記憶?	Е
F	答:	晤。	F
G	問:	即係唔同嘅嘢有唔同嘅 check 法,同意嘛?	G
Н	答:	正確。	н
I	問:	有啲就真係你唔可以做啲好詳細嘅化學檢測,就係可能要靠眼睇有冇 證書,有冇啲咩嘢 ISO 證書或者有啲咩嘢化驗嘅證書,對嘛?靠文件 好多時候,對嘛?	Ι
J	答:	呢一個一般嚟講,就係睇文件,document。	J
K	問:	或者睇下個包裝,條咪呀?睇下包裝嚟係咪同	K
L	答:	對下佢個型號等等。	L
Μ	問:	型號、包裝,對嘛?咁型號好多時候就有張包裝紙去睇,對嘛?	М
Ν	答:	呢個都正確。	N
0	問:	係。咁所以如果我知道冇呢件咁嘅事發生,因為呢度佢話已經一早剝 晒啲招紙。但係如果要有一個機制去 check 啲焊料嘅話,我當你唔	0
Р		可以就地「beep」下佢有幾多鉛,但係如果起碼有人去喺個工場度 喺個地盤度睇,你要求佢起碼唔好已經拆散晒,散修修嚟,你起碼	Р
Q	<i></i>	係用"FRY"嘅招紙包番住,咁係咪一個保障呢,睇番轉頭?	Q
R	答:	如果睇番轉頭或者係向前看,睇番轉頭都好難睇㗎嘞,因為咁多種唔 同嘅原因,都會令到佢嗰啲焊料會含鉛。	R
S	問:	係,我明,我明。	S
Т	答:	如果向前看,就係個物料嗰個監控個採購同監控嗰度,再加埋就係 仲有個使用上面,都係需要有一個比較嚴謹啲嘅規管,就可以防範呢	Т
U		一啲問題出現。咁當然做完啲焊位之後,仲要再有一啲測試。	U

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問:我明。

- 答: 咁最後驗埋水辦會唔會有含鉛咁,即係要全套由頭到尾都做晒咁多個 步驟,就先至可以確保到最尾唔會有問題。
- 問:唔,我明。
 - 答:因為你喺上游第一站嗰度 check 過佢冇事,難保佢下--跟住落去每 一個站有邊一個部分出現問題察覺唔到嘅,到到最後可能都會條令致 到嗰個焊料會含鉛,令致到水亦都有一啲即係含鉛嘅情況。
 - 問:我明嘅。因為而家就眾說紛紜,你都唔知喺邊度出事。如果係最屘嗰 浸先出事,即係用番頭先我哋見到瑞安講話,到最屘嗰浸原來真係用 到最屘用晒啲料,可能啲工人真係求其攞啲嘢嚟到真係做咗兩個 joint。如果係咁嘅話,你一早嗰陣時你 check 幾多都冇用,因為佢 到到最屘原來先至出事,係咪咁意思呀,你?
 - 答:即係呢一個係好多種唔同嘅原因,或者好多種唔同嘅情況、唔同嘅時 段都可以令佢有問題嗰啲因素嚟嘅。
 - 問: 係,我明。但係如果有一個機制,好簡單嘅機制,就係喺你嗰個 list 嗰度一早--就算我唔係要嗰個地盤監督,即係呢個 H--房委會佢哋嗰 個同事,就算我唔使佢攞住枝嗰啲驗鉛嗰啲嘢去「beep」下睇下有冇 鉛,但係如果有一個機制,佢起碼堅持佢話「我要見到你送嚟嗰啲嘢, 起碼有個招紙畀我望一望。」咁起碼可以隔咗第一浸,即係出事嗰個 關卡,對嘛?
 - 答: 呢一點係正確。
 - 問: 唔該。咁我哋睇番跟住佢就有講呢個 17874 繼續睇,就係嗰個 procurement process 嗰啲,我哋唔多使睇嗰度,因為嗰啲--好 多都已經講咗,即係有咩嘢監控基麼。咁跟住睇番 17876下面嗰度, 呢個我同阿張炳良先生都睇過嘅, "Cost Difference in Solder Materials",17876最底嗰度,佢就係即係計下數,就係究竟用一 啲即係唔合規格嘅焊料喺即係錢銀上睁幾多。咁佢就即係話「我哋做 過一個實驗同埋研究,就係睇下如果用啲即係唔合標嘅焊料,喺經濟 效益上會睁幾多?」咁你睇番 17877 上面,佢就話純粹用時間上嚟 講,就用含鉛嘅焊料同埋唔含鉛嘅焊料,施工嘅時間佢就話差唔多。 呢度都眾說紛紜,因為有啲人就話用啲含鉛嘅焊料可能係會快啲嘅咁 樣,呢個我哋唔好理住,okay?即係邊樣快啲,呢啲技術性嘅嘢我哋 唔好理。

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- 答:呢一個我哋喺地盤實地測試過,兩樣嘅時間相差不遠。
 - 問:即係有利都係咁講,有利都係咁講。但係有利講錢方面,佢就話每個 單位用啲含--總之即係不含鉛級別嘅焊料就會貴 76 鈫,你見到喇, `\$76 more expensive per flat″嘅,你見到,係咪?

答:見到。

- 問: 係。咁佢就話以成層樓嚟到--嘅價值嚟到畀,呢個加埋都係三十幾萬 就係即係好少兒科嘅事情,咁佢就話有利同埋明合就即係唔會係為咗 咁少少--睁咁少嘅即係盈利係走去即係造假,即係佢嘅意思就係咁 樣。咁但係即係我之前都問過張先生,就係三十幾萬,咁睇下喺邊個 眼中嘅啫,咁即係如果係即係判到落去好多浸,咁 36 萬其實都係一 個不菲嘅數字嚟嘅,你會唔會同意?
 - 答:呢一個,琴日都答過你呢個問題。

問:係。

- 答:咁有就話如果...
- 問: 佢呢個可能其實我哋遲啲陳詞會講, ...
- M 答:係,如果個...
 - 問:...但係即係常理嚟講,你會唔會...
 - 答:如果個業界知道個代價係咁大嘅,佢就唔會因此而鋌而走險。咁當然 佢就話咁即使係有警察都會有賊,但係就喺我哋嚟睇,就係如果真係 業內嘅從業員,包括去到前線工友或者係訂貨或者係分判商,或者係 即係有關嘅人士,如果佢知道用嗰啲含鉛焊料係會對個水質構成影 響,甚至如果佢用含鉛焊料,佢做呢個即係焊接嘅時候嗰啲鉛嘅揮發 對健康有冇一啲即係危害呢咁,如果佢有呢方面嘅知識,可能工友都 唔會鍾意用啲係含鉛焊料。咁我哋就話即係睇番整體嚟講,如果個業 界嘅從業員係對呢方面嘅認知係可以有呢個所調唔會認知不足嘅 話,咁佢哋應該就係成個行業都唔會用一啲係違規嘅物料。
 - 問:唔,好。即係你嘅意思其實就係--咁其實用番--即係公平啲講,就係 三十幾萬慳咗,咁個誘因就係會成條邨亦都係即係用一啲唔合規格嘅 焊料,就可以慳到三十幾萬。咁但係即係我哋由於而家都未能夠確認 係唔係即係啲人刻意地特登去用一啲唔符合規格嘅焊料,咁所以就即

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С	係呢個誘因只不過係其中一個可能,咁其他個可能可能就真係有啲工 友真係貪方便都未定。	C
D	答:係。即係如果睇番瑞安,頭先你睇 6621 嗰版唔係,六	D
Ε	問:佢有六個理由嗰版,係咪呀?	Ε
F	答:6623 嗰版,咁佢就羅列咗係唔同嘅原因。	F
G	問:可能嘅原因。	G

- 答:咁有即係喺唔同嘅時間都可能出現呢啲原因,令到嗰啲係含鉛嘅焊料 用咗喺地盤嗰度。咁所以...
- 問:即係有啲係牽涉刻意,有啲係牽涉無心之失,可能就係。
 - 答: 係, 係嘞。所以現在我哋都好難就咁靠現在嘅文件喺我哋面前, 就會 知道其實係邊一個係真正嘅原因。
- 問:希望我哋遲啲搵到下幾浸嘅證人可以幫到手。我哋睇番保華,保華頭 先我同你想睇嘅時候,我就拃亂咗戈柄,就睇番有利。我而家睇番保 華,保華就係頭先我叫你睇嘅 6.4,15087。保華嘅開頭--因為間間 公司佢做呢啲報告嗰個 format 嗰個表達嘅方式都唔同,所以保華呢 個,我同你--因為佢之前就有好多列表嗰啲咁樣嘅嘢,我就唔同你睇 嗰啲。我就同你睇 15090,15090,第5段。我哋睇番 15089 嘅最 底 嗰 度先,不如。15089 下面 嗰 度, "In accordance with Paragraph II, Part II, Schedule 2 of the Waterworks Regulations, WSD would only issues acceptance letters for "draw--off "taps, stop valves, gate valves" 一拃 咁嘅嘢喇, "Therefore, there was no WSD pre-approval letter for copper pipe and fittings",總之佢講就話係冇 一啲水務署嘅文件係特登要嚟批核呢個焊料呢樣嘢嘅,你見到嘞?
 - 答:見到。
 - 問:第3段又係嘞,WWW046 Note 7,呢個琴日都同你睇過嘅,應該係, 即係有啲乜嘢嘢係需要你呈交 form 46 嘅時候,係特登就要寫埋喺 個 annex 嗰度你用咩嘢料,你記得我琴日同你 go through 過嘅呢?

答:係,記得。

- 問:嗄。佢就話啲管,啲喉管就要報上,啲配件就某幾種配件先至要報上
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嘅啫,所以佢就話用咩嘢焊料就方報過畀水務署聽嘅。佢跟住佢就話去地盤嗰度監工,保華就發現所有報咗嗰啲嘢就係完全符合approved models嘅。

答:唔。

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問:咁喺第5段,佢就話保華嗰個判頭,即係負責做 plumbing 嗰個判頭 Golden Day--Paul Y,係咪?Golden Day嘅,應該係。

答:唔。

問:嗄,保華嗰個做水喉嗰個判頭叫做 Golden Day,就係同保華有個會 面,就話佢係買咗四百卷 "FRY" 呢個牌子嘅焊料,就係同呢個 Prosperity 買嘅,就送咗去地盤嗰度,呢四百卷就應該夠用嘅。佢 就話跟住 Golden Day 就將嗰啲送貨單呈交咗畀保華。跟住保華就又 係嘞,提議點解會有啲咁樣嘅情況發生咗呢咁樣,佢又話佢就唔能夠 揣測,但係佢就話可能係以下嘅原因:佢話第一,就係有啲水喉嘅焊 工就可能係用咗第二啲焊資料嚟到做接焊嘅工作;佢話第二就係 "FRY"呢個 Grade 99c 喺市面上可能係有啲次貨--A 貨或者叫做次 貨,或者總之 inferior quality 嘅 99c 呢個級別嘅焊料就喺市面 上流通,咁就啲焊工都 spot 唔到,呢個係保華提出嘅一個意見。佢 就冇話邊啲人造假,佢總之就係話啲焊工可能唔知咩嘢嘅原因就用咗 啲即係唔符合規格嘅嘢。佢跟住就提議一啲即係 remedial measure 呀,諸如此類嘅嘢。

跟住我想你睇番,就係保華跟住係有一啲補充嘅資料--唔係補充 嘅資料,係總之佢跟住另外有一個報告,就喺 15097--sorry, 15098, 15098。 佢 有 個 大 題 目 叫 做 "Causes and Circumstances",你見唔見到?

答:見到。

問:嗄。佢話個原因係咩嘢呢,佢就想睇--睇下 4.1,叫做 Multi-tier Subcontracting of Plumbing Installation Works,就即 係判上判嘅呢一個現象。佢就話"The Independent Licensed Plumber",呢個大草嘅 Independent Licensed Plumber 係邊 個呢?如果你睇番 15096頁。15096頁,保華就話佢哋自己--你睇 番羅馬數目字(iii),落到最底。15096頁最底嗰度,佢話保華就搵 咗一個獨立,但係就好有經驗嘅持牌水喉匠,佢就叫做"The Independent Licensed Plumber",見唔見呀?

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答:見到。

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- 問:你睇番 15097 頁,佢話保華就諮詢咗一個行內佢好德高望重嘅持牌 水喉匠,就做過好多房委會嘅項目嘅。佢就話喺八月廿四號嘅時候, 保華就邀請咗呢個持牌水喉匠,佢個底係 clean 嘅, clean record,即係唔係牽涉喺最近嗰啲出事嘅水度嘅。咁就去同有關嘅 同事--保華牽涉喺呢啲項目嘅同事,就有個 workshop,有個即係工 作坊,就同保華嘅同事去分享,就去研究、去分享,就係話即係點解 會有呢啲咁事情呢咁樣。咁呢個 15098 就係佢哋傾出嚟嘅結果,第 一、就係話判上判,呢個持牌水喉匠就話呢個判上判咁樣嘅系統,就 可能係引致到有而家呢一個嘅情況出現。佢話而家就有八成嘅水喉嘅 分判商會再判畀第三浸嘅,佢話你咁樣判上判,咁就令到啲工作嘅質 素就有保證,你見到嘛?
 - 答:見到。
 - 問: 佢跟住 4.2 就話唔夠時間。即係長話短說,就話通常做水喉係大家都 臨到最屘先做嘅,咁大家趕工,你見到。趕工,咁就拿拿林咁要做嘞, 佢話尤其是你要做呢個--剩番一個半月要做三十九層,咁就用百幾個 水喉工去做,咁就可能係即係做得快,就會有甩漏,佢咁講吓,大致 係咁意思,你見到嘛?
- M 答:唔。
 - 問:4.3,4.3 就係喺嗰啲 copper joint 嗰度,係即係 pipe joint 嗰度用咗啲唔符合規格嘅焊料。佢就話持牌水喉匠就應該係唔會容許 佢嗰啲工人係用一啲唔符合規格嘅焊料,佢話因為嗰個後果係好嚴重 嘅,無論係即係呢個時間同埋金錢損失,其實都係好嚴重嘅,呢個係 呢個水喉匠嘅意見,你見到嘛?
 - 答:見到。
 - 問:嗄。佢就話尤其是就係如果跟住出咗事嘅話,你就要拆番,然之後再 嵌番,咁就好費時失事。但係佢亦都同時就話,但係有陣時嗰啲技術 唔夠嘅工人,佢有陣時會即係出街走去買一啲 low melting point solders,可能通街可以買到嘅,咁就佢即係求求其其就整番嗰啲漏 水嘅一啲點。呢個持牌水喉匠就話,實際上就即係你係好難,甚至係 即係冇可能係可以喺個地盤度係用肉眼可以分辨開,究竟你用落去嗰 個焊接位嗰啲焊料係合規格嘅定係唔合規格,肉眼睇唔到嘅。佢就提 議到,就係話「啊,不如所有呢個 small diameter 嘅級別嘅 copper piping 就」--即係總之佢係提議,就係喺嗰啲焊料嗰啲級別嘅要求

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度係作出一啲嘅改善,要用呢個 2% sliver 嘅 solders。佢話因為 如果所有呢啲,譬如用一種叫做百分之二嘅銀嘅 solder 就可以解決 到呢個問題,即係呢個係--佢話呢個係比較冇咁容易喺啲--隨街可以 買到嘅,即係呢個佢嘅提議嗰個方法。呢個係即係第三個呢個持牌水 喉匠嘅方法。

第四個,4.4 就話,佢話行內就係太過倚賴呢個持牌水喉匠,因為持牌水喉匠係唯一一個可以簽嘢嘅人。

跟住墘多一頁,4.5, Procurement of Water Pipers and Fittings,佢就話即係業內好多時候--就頭先我哋都講過,就係話 即係將採購呢一個功用,全部就 pass 晒落去畀下面嗰浸嗰啲二判, 甚至乎係第三浸嗰個判頭。佢話為咗確保地盤上面用嗰啲物資料係容 易 trace 到,佢就話即係呢個啲大判就應該改變呢一樣嘅做法,就係 自己攞番嚟自己做,咁呢個係呢個持牌水喉匠嘅意見。

跟住 4.6,就話其實可能就係市面上嗰啲焊工,就可能對呢個市 面上出售嘅焊料係有誤解。佢主要講,就話你喺街嗰度買呢啲咁樣嘅 solder materials,就可能叫做水錫焊,水錫焊用中文其實就冇個 鉛字,佢就以為水錫焊即係唔含鉛嘞。佢就話好多時候啲焊工出街買, 「我要水錫焊」,人哋畀個水錫焊,佢就以為好安全,但係其實唔係 嘅,可能裏面好多都係含鉛嘅,即係佢提出就係有呢個咁樣嘅可能, 佢話"it is possible that plumbers may misconceive these as lead free solder materials for the copper pipes." 佢就話所以當嗰啲真係唔含鉛嗰啲焊料,即係"FRY"嘅 Grade 99c 或者係用完唔夠用,咁嗰啲地盤嗰啲工人可能真係出街就即係求其走 去買啲補充嘅一啲水錫焊,其實嗰啲就可能係含咗鉛嘅。你唔使去逐 個去評論究竟邊一個係有效啲,邊個冇效啲,但係即係咁多個眾說紛 紜,即係始終就係講番我頭先同你提出過,就係出事嘅位可能係唔同 嘅位,對嘛?

- 答:的確可以有好多唔同嘅位都可能出現問題。
- 問: 唔。如果係最屘嗰步,工人走去買 top up 嗰步出錯嘅,可能你前期 做幾多嘢都未必可以補救到,頭先我問過喇,你都同意。
- 答:係。
- 問:但係如果個問題係出現喺一開始買嘅時候,就已經係買咗啲唔合規格 嘅嘢,咁你用一個既定嘅程序去要求,一早入紙攞申請,送到去地盤 嘅時候,要起碼驗招紙,或者 beep 一 beep 一 fe,咁就可以避免,

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對嘛?

答:對,所以現在嘅好--7月之後,有呢件事之後,我哋好快就有一啲措施,就係由佢即係訂資料嗰度--喺地盤來貨嗰陣時,佢要將佢即係做 一個 warranty 添。即係更加嚴重嘅就係佢要 warranty,即係佢要 check 埋嗰啲物資料都係唔含鉛先可以放畀啲工友拎去用。

問:唔。

- 答: 同埋工友用咗佢啲料喺做邊一啲單位,邊個 flat 嘅都要 traceable。即係知道邊個工人負責邊一部分,責任到人,咁先可以 確保嗰個工友都唔會用咗一啲係唔合規格嘅料。我諗就係呢個係要全 套,仲有埋地盤嘅監管,就係要--都唔係一個位,而係好多個位都要 全部嗰啲關卡都有人去負責,去監督先至可以成事。
 - 問:好,我而家問一問你,就係轉變一個話題,就係水喉嗰個用料喺2000 年,啱啱千禧年過咗之後冇耐嗰個轉變,之前你咪喺證人供詞度講 過,就係大約二千幾年之前就唔係用呢個銅管,唔係用銅喉嘅,對嘛?

答:唔,啊,對。

- 問:之前係用嗰啲叫做 lined galvanized iron 嘅 pipe。
- 答:係,呢個係由九零年代中期一路就用起。
- N 問:UPVC lined嘅galvanized iron。
- O 答:Galvanized iron,係。
- P 問:九五前應該開始嘅,對嘛?九...
- Q 答:嗰陣時應該係。
 - 問:係。九五年前就用 Un-lined 嘅? R
 - 答:係。
 - 問:九五年後就用 UPVC lined。
 - **T** 答:係。
 - U 問:即係裏面就 lined 咗?
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А Α 2015年11月5日 食水含鉛超標調查委員會 B В 答:係嘞。 С С 問:因為如果有 lined 到裏面,你就咁用嗰啲 galvanized iron 就會 D D 用腐蝕,對嘛?即係會有侵蝕,對嘛? Ε Е 答: 係, 呢個亦都係因應水務署係 1995 年變咗都有指引嘅。 問: 係。 F F 答: 有啲 circular letters, 就係以後唔准再用一啲 Un-lined 嘅 G G galvanized iron pipe 嘅。 Η Н 問:個原因就係因為會有化學作用,會有腐蝕出現,你知道? Ι Ι 答:會生鏽。 問:生鏽, 係喇, 嗄, 嗄。好, 我想睇番你嘅--因為我想搞清楚個時間嘅 J J 問題。你睇番你嘅證人供詞第 23 段,你嗰度就話其實香港建築業裏 面做水喉,銅喉就用咗幾十年,... K K 答:唔。 L L 問:...所以大家都已經好熟悉。但係你跟住就講,就話房委會就喺 2002 Μ Μ 嘅時候--使唔使等一等?你搵到未呀? 答:見到。 Ν Ν 問:你就話房委會係喺 2002 嘅時候,就開始喺佢嗰啲建築合約嗰度 0 0 specify 就係由 UPCV lined GI pipe 就轉到用銅喉,對嘛? Р Р 答: 係, 正確。 Q 問:即係可唔可以咁講,就係 1995 年出咗嗰個 circular,即係水務署 Q 出咗個 circular, 95 年之後,一個轉變就係房委會喺佢啲合約度就 R 話你唔好用啲叫做 Un-lined 嘅 galvanized iron 嘅管,... R 答:正確。 S S 問:...請用 lined 咗嘅 UPVC lined 嘅 galvanized iron,所以 95 Т Т 年至到 2002 年,房委會嘅合約嘅做法,即係梗係唔係話咁一刀切咁 樣 2002 喇。

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А Α 2015年11月5日 食水含鉛超標調查委員會 B В 答:唔。 С С 問:大約就喺呢個 95 至 2002 呢個時段, 嗰啲合約就要求係用 UPVC lined D D 嘅。2002 年之後,房委會嘅合約開始轉咗就係要求佢哋用銅喉,對 嘛? Е Е 答: 2002 年嗰陣時嗰個分水嶺就唔係一刀切嘅。 F F 問: 唔。 G G 答:所以就係其實去到 2005 年落成嗰一啲單位、項目,就有一部分佢仍 然係用 UPVC lined 嘅啫,係。 Η Η 問:明白。 Ι Ι 答:咁就即係有一個 transition。 J J 問:明白。所以我哋成日--頭先一路我哋呢單案都成日講住話 2005 係一 個分水嶺,就唔係一個一刀切嘅分水嶺,對嘛? K K 答: 係, 2005 年就係係嗰一年就有兩類喉管嘅物料都可能同時出現嘅。 L L 問:明白。因為係 2002 年喥開始房署喺佢嘅合約裏面要求啲人用銅喉? Μ Μ 答:正確。 Ν Ν 問:所以你 2002 年開始叫人用銅喉,咁佢開始起得嚟,可能就 2005 年 第一批用銅喉嘅公司屋就出世嘞? 0 0 答:正確。 Р Р 問:嗄,但係就開始嘅時候,仲有個交接期。 Q Q 答:係。 R R 問:但係 2005 打後,06、07 嗰啲就絕大部分都係用銅喉㗎嘞,因為佢 就會可能係 2002、2003、2004 嗰啲合約開始,就開始 transition S S 咗就用銅喉,對嘛? Т Т 答: 係, 對。

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問:咁就亦即係話用呢個 soldering 呢個技術亦都係你一開始用銅喉,

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就用 soldering, 就用焊接㗎嘞, 對嘛?	С
答:對。	D
問:銅喉就焊接,lined 咗嘅 galvanized iron 就用嗰個所謂機械性 就咁即係接駁,對嘛?	E
答:唔,對。	F
問:Okay。我而家就我哋釐清咗呢個時間嘅問題之後,我就想問一問 你一個問題,你有聽過 ACQWS 呢一個委員會?呢個食水品質,畀番 個全名佢先,ACQWS 嗰個全名係叫做你等等吓,Advisory Committee on the Quality of Water Supplies,有有聽過?	G H
答:係聽過呢個名,但係就冇直接嘅接觸。	Ι
問:嗄,okay。可唔可以睇睇 A2?第 888 頁。呢個係一個政府喺 2000 年嘅時候出嘅一個新聞稿,見到嘛?佢就係宣布喺 2000 年嘅 4 月 1	J
號就成立一個叫做 Advisory Committee on the Quality of Water Supplies,呢個食水品質嘅顧問委員會咁樣。咁就裏面就 佢嘅目的就係做 advice on matters relating to the quality	K L
of water supplies,即係對香港食水品質提供意見。	L
答:唔。	Μ
問:你知道香港個即係所謂公共行政就好多呢一類嘅委員會嘅,咁裏面可 能係會有好多政府嘅官員係作為一個當然嘅成員,亦都會好多業界嘅	N
人士參與,你而家望番呢個 press release,有冇印象係有呢一個 委員會?聽過?	0
答:聽過。	Р
問:聽過?	Q
答:唔。	R
問:咁佢下面就有個 membership list 嘅,呢個通常呢啲委任就係兩年、 兩年咁樣。	S
答:唔。	Т
問:所以我哋唔使執着實際上嗰啲人係邊個喇。但係如果你睇番,你見到	U
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2015年11月5日

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С		好多係教授,	C
D	答:	唔。	D
Е	問:	:或者係即係署長,譬如話你見到有 Director of Water Supplies咁樣,嗄,或者有醫學會、九廣鐵路咁樣。你睇番 889 中 間,咁有呢個 Plumbing Ware Trade & Sanitary Ware Trade	Е
F		Association 咁樣,原來有即係水喉業界嘅人士都有嘅。	F
G	答:	唔。	G
Н	問:	你睇番 890 頁,咁 Conservancy Association 係環保嘅團體,或 者即係區議會嗰啲又有。	Н
I	答:	· 语。	Ι
J	問:	890 頁下面,房署都有成員個喎,原來,見唔見呀?Assistant Director, Housing Department。	J
К	答:	見到。	K
L	問:	見到?	L
М	答:	唔。	М
Ν	問:	所以水務署又有,房署又有,水喉業界又有嘅,呢個委員會。	N
0	答:	唔。	0
Р	問:	呢個委員會而家仲喺度嘅,而家嘅主席係陳漢輝先生,呢個委員會。	Р
	答:	唔。	
Q	問:	我點解要即係問你關於呢一個 press release 呢?我就想你睇睇	Q
R		bundle F,32頁。F1,32頁,第 tab 8第 8 個 tab,呢個就係 一個第 7 號文件,就叫做 Quality of Water in Buildings,	R
S		見唔見呀?你睇睇就係第一段,呢個 preamble,"This paper sets	S
Т		out possible strategies for enhancing the entire water supply system such that Hong Kong citizens can have confidence in drinking high quality water directly	Т
U		from their taps."咁好有趣嘅,呢個即係佢嗰陣時睇其中一個貨 題就係話香港幾時可以做到就係直接可以飲水喉水呢咁樣。	U

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答:唔。

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問:即係外國生活過,即係有陣時開水喉水直接飲嘅,香港就唔得嘅,我 啲自幼就聽到。呢度就係研究點解,同埋可唔可以做到同一樣嘢,可 以直接飲水喉水呢咁樣。

答:唔。

- 問: 佢裏面,你睇下第6段--唔係,第9段, sorry, 32頁。
- 主席:想問下呢個係幾時,邊一年嘅?
 - 石先生: 呢個係 2001 年嘅, 呢一個文件係, 因為其實係有一個會議裏面去 consider 呢一個文件嘅。一陣間我會畀主席同埋委員先生睇, 其 實係有一個呢個委員會嘅會議個 minutes, 係裏面嗰啲成員係討論呢 一個文件嘅。
 - 問: 呢個第7號文件裏面嘅第9段, 你見到嘞。
- M 答: 唔, 見到。
- 問:你睇番第8段先,佢話大廈裏面嘅食水品質問題就唔係香港獨有嘅, Ν 佢話你上網去做下研究,就見到英國、美國、加拿大、新加坡都有呢 個情況,同埋係呢個做呢份文件嘅--應該通常呢啲委員會有個秘書處 0 嘅同事做研究,所以總之係做呢一份文件嘅人就研究過互聯網上一啲 唔同國家嘅經驗。你睇番第9段,佢話英國同埋美國最常見嘅問題, Р 點解水裏面會有沿呢?就係因為佢哋起樓嘅時候用咗有--用鉛造嘅 管,同埋用含鉛嘅焊料,lead-soldered copper pipes。"The Q problem has to be addressed by dosing inhibiting chemical additives during the water supply treatment R process to suppress ionization of lead and by re-plumbing. These countries also have discolouration S complaints attributed to various causes including rusting of internal plumbing, since the use of unlined Т GI pipes is still permitted. On the other hand, Canada and Singapore, like Hong Kong, have banned the use of U unlined GI pipes."呢一段即係點解有趣嘅地方,就係佢頭嗰橛

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係直接講到我哋而家講緊嘅呢個問題,食水裏面含鉛。英美點解會有 С **呢個問題**,就係因為用咗用鉛造嘅喉管同埋用含鉛嘅焊料,見到嘛? D 答:見到。 Е 問:佢就冇講到呢個現象同香港有咩嘢關係,但係佢跟住講嗰個第二個問 題就係話水--嗰啲國家裏面另外一個問題就係水裏面有牛鏽, 呢個問 F 題就唔適用於香港,因為香港就已經係禁止咗用一啲 unlined 嘅 GI pipes。我而家諗番轉頭,點解第一句佢話關於呢個 lead-G soldered copper pipes 令到食水含鉛嘅呢個問題喺嗰陣時好似 第 9 段呢度冇乜點講咁呢?會唔會係--我知道你唔喺呢個會議裏面 喇。 Η 答:唔。

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- 問:但係你諗番時間上,嗰陣時 2001 年,香港係仲係用緊 lined UPVC pipe,唔係用緊銅管嘅,2001。
- 答: 唔係香港, 而係喺房委會嘅項目就用 lined 嘅...
- 問:項目,係,冇錯。 L
- 答:...GI pipe。 Μ
 - 問:我明,我明。
 - 答:但係出面市面...
 - 問: 係已經用緊嘞。
- Р 答:...呢隻物料係完全唔普遍嘅。
- Q 問:完全...
- R 答:即係一般市面係用開銅喉。
 - 問:我明,我明,sorry,我講錯咗。即係房委會轄下嗰啲屋就唔係用緊 銅喉嘅?
 - 答:並非用銅喉。
 - 問:所以會唔會係即係因為咁,所以你睇第 9 段裏面所講,用銅喉用--

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答:我又唔會咁睇,因為其實我哋不嬲都會有一啲研發工作,或者睇番個 市場,咁即係使我哋唔係話全部 specify 去用 lined 嘅 GI pipe, 我哋亦都唔會忽視或者忽略第二啲物料,即係如果我哋係察覺得佢有 問題嘅,其實我哋大家都會喺嗰段所謂即係研發或者係做嗰個 specifying 嘅過程都會參考嘅。 問:唔,唔。好,咁... 答:仲有一樣,因為我哋喺九零年代中期,我地係決定使用 lined GI pipe 之前亦都研究過,做過試點,係用銅喉定話用 UPVC lined 嘅 GI pipe 係比較即係恰當呢咁,都做過一啲--一個 period 嘅,即係喺九零年 代初期。 問:唔。好,咁即係話如果一個房署或者房委會嘅代表見到呢句嘢,佢就 唔會話「哦,唔關我事」,因為我哋都唔係用銅喉嘅,因為你不斷要 即係所以謂 raise your tentacles,一路去睇下,「咦,會唔會 答: 係, 係, 會嘅。 問:對嘛? 答: 係, 會。 問: 會嘅。 答:唔。

問:但係我問題就係呢份文件就即係直情係話埋畀你聽,就話用銅喉裏面 嗰啲焊料,英、美嘅經驗就係會導致含鉛個噃,咁與會嘅人士其實都 應該知道有呢個潛在個問題個噃,係咪呀?

可能用咗含鉛焊接位嘅呢一個問題喺嗰剎那在房委會嘅人眼中就未

必係一個問題,會唔會係咁?因為房委會嘅樓嗰陣時都唔係用緊銅

答:但係呢一句喺--即係睇晒成分個 context 嚟講,呢一--呢幾個字唔 係特別顯眼嘅,即係喺--佢喺成分嘅 document。

問:我明。

答:就算喺 paragraph 9 呢一段, 佢似乎都唔係個重點之一。

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問:我明。

答:嗄。

問:你跟住你睇番第 19 段, "To ensure that the internal plumbing systems are in a good and clean condition, it may be considered desirable to follow a practice similar to that in Singapore by requiring consumers or their agents to employ Licensed Plumbers or registered plumbing contractors to arrange for periodical checking and submit inspection reports to WSD. The Licensed Plumbers or registered plumbing contractors will carry out remedial action whenever defects are found and a water analyst will confirm by water sampling and testing whether the quality of water supply within the internal plumbing systems is up to the required standard." 咁有一個提議,個提議就係話「啊, 不如學新加坡」咁,就要求即係嗰啲用家或者佢哋代理人就要自己去 請啲持牌水喉匠,就定期去 check,跟住如果交啲報告咁樣。

我跟住同你睇睇就係文件第8號,你揭一揭去第40頁,第40頁 就係一個文件第8號。第8號文件佢個前言就可以話畀我哋聽之前嗰 個第7號文件幾時開會傾過。你見到第8號文件就寫住 on 2001年1 月15號傾咗之前嗰份第7號。呢份係一個後期啲嘅文件,其實我哋 有啲 minutes 喺度,但係我唔同你睇啲 minutes 住,因為即係十幾 年前嘅事情,你個人唔喺度,我諗我哋直情就咁睇呢份文件本身。因 為你睇啲 minutes,就一言--即係大家一言一語咁樣就未必睇到個重 點。我哋睇番份文件本身,你睇呢個 paper no.8,我想你睇睇就係 第6段,其實你睇番41頁頂嗰度,就係 Maintenance Requirements and Practices in Asian cities,佢就話其 實就送--send 咗啲問卷係去深圳、台北、新加坡同吉隆坡同埋東京, 就問下佢哋對呢個水喉--供水系統嗰個維修、保養佢哋嘅做法。

你睇番第6段,佢就話新加坡鼓勵嗰啲業主就每年一次起碼,就 要做以下嘅嘢。咁第二就有趣,第二就話 sampling and examination of water by a water analyst,就係要啲人攞 啲水質嘅報告。新加坡要求人哋做嗰啲水質都--喺呢度睇就唔包括鉛 嘅,但係佢包括鐵,你見到嘛?E.coli一拃咁嘅嘢,但係就冇包括 鉛嘅。

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答:唔,唔。 問:咁佢就話新加坡嘅做法就係所有公屋都要有呢個做法,同埋所有政府 大樓都要有呢個做法。私樓就自願嘅,但係新加坡遲啲就--佢嗰陣時 話就可能係想呢個立例,就係令到呢啲要求就係強制咁樣。呢個就係 第8號文件。咁以你記得,因為房署其實有代表喺呢一個委員會嘅, 其實你自己有冇記憶中有人提過或者聽過,其實對呢一個咁嘅提議後 來個發展嘅方向係點呀,你有冇隱約記憶?我知道即係你未必個人有 知道,可能要你返去做功課都未定嘅。 答: 呢個功課可能要啲得好--比較辛苦啲, 但係我想睇呢, 似乎呢一份文 獻就係講係 maintenance 嘅。 問:係。 答: 係保養維修嘅。 問:係。 答:咁所以即係我就唔知道當年我哋去參與個代表係唔係屬於物業管理同 維修方面。 問: 唔, 唔。 答:因為似乎呢份文獻佢講嗰個著眼點就係 maintenance 嚟嘅,同埋係 嗰個 use--即係嗰個 owners、user 係一啲 occupation phrase 嘅資料嚟嘅。 問: 唔。 答:我就咁睇呢一份 paper 嚟講。 問: 唔。我畀你睇睇就係實際嗰個會議嗰個紀錄,好唔好呀? 答:好。 問:A2,858頁。 殷先生:主席,我唔想打斷石資深大律師嘅問話,但係我想提出一個,就 係馮女十今日係作為房委會嘅代表出席呢個研訊嘅。當然,我哋知道

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- C 呢個房屋署係作為呢個房委會嘅 executive part,幫佢執行,但 係唔係所有嘅 functions--張局長都講過,唔係所有房屋署做嘅職 能都係代表房委做嘢嘅,我想澄清楚呢一點,因為我聽到啲問題似乎 向一個方向,就係問馮女士關於房屋署一啲職責係唔係代表房委會嘅 職責嚟?
 - 石先生:我都明白,即係 Stephenson Harwood 攞 instruction 就係 從房委會攞,所以如果我問馮女士嘅一啲問題,佢覺得其實在座佢而 家 officially 戴緊嗰頂帽,作為房委會嘅代表,其實就未必係有能 力可以做到嘅話,咁即係佢可以儘管提出。咁但係我諗即係殷大律師 都係 lay down a marker 嘅啫,咁如果馮女士佢遲啲都得,其實 佢都係即係冇咩嘢問題可以即係落到指示、唦到,咁就呢個就唔會成 為一個問題。
 - 問:好簡短嘅啫,因為即係就嚟我哋係有個 morning break,但係我想 同你你睇睇就係有關嘅會議紀錄,就係第 858 頁。
 - 答:見到。
 - 問:咁你見到就係嗰啲與會人士,咁下面你見到 present 有位 Mr Wong, Wong Bay。
 - 答:見到。
 - 問: 佢就係當時嘅副署長, 係咪, 房署?
 - 答:當時嘅助理署長。
 - 問:助理署長, sorry。
 - 答:佢係負責係屋邨管理同維修嗰邊。
- R 問:維修嗰方面,管理、維修,okay。
 - 答:管理、維修嗰邊,係嘞。
 - 問: 咁就同發展, construction, 即係而家你哋呢個項目, 咁佢個 portfolio 就唔會包括即係佢負責睇住譬如話房委會嘅建築方面嘅 合同或者管理方面嘅?

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- C 答:即使佢個工作唔係喺嗰個範疇,但係如果我哋--因為我哋有定時就係 屋邨管理維修嗰邊,同埋我哋新工程嗰邊係有 liaison on control quality,我哋就會講一啲係大家都相關要關注嗰一啲質素嘅問題, 咁所以我哋內部係有機制,我哋係嗰啲如果重要嘅資訊就可以大家係 共享。
 - 問: 係嘞,即係我正想問你,就係有陣時譬如話你哋裏面就知好多呢啲公 共嘅委員會架構,咁即係好多人出去開咗啲會返嚟,咁收咗啲--我哋 叫做收咗啲風呀,收咗啲資訊返嚟,會唔會內部有分享,即係有一個 機制咁樣去分享?
 - 答: 係,可以咁講。但係我睇番--即係我都係第一次睇呢啲文件,但係我 睇佢重點,當年呢個 committee 同裏面嘅內容,個重點似乎係側重 喺嗰個係物業管理、維修、保養嗰啲範疇,係多過你話選用物料、係 啱唔啱...
 - 問:或者施工期間要 check 下你究竟係唔係合規咁樣?
 - 答: 係嘞,就唔係嗰個 focus area 嚟,即係似乎睇,我就咁頭先嗰兩份 文件同埋呢個 minutes 裏面嗰啲參與人士,似乎嗰個係佢個重點嚟。
 - 問:我明你,係。好嘞,你睇睇 861 頁, sorry, 860。860, 佢第六段 就係討論緊第七號文件,你見到嘛?

答:見到。

問:咁就"The chairman introduced that the purpose of this paper was to present the possible strategies..."咁樣, 咁就即係個主席就作出一個介紹。咁跟住你睇番後面,6.2應該係介 紹完呢個文件之後,啲成員就大體同意,就係香港就係有需要好好哋 咁樣去維修呢個供水系統,咁呢個我哋叫 stating the obvious, 就係需要㗎喇。咁跟住 6.3 就係即係嗰個主席就問咗一啲問題,就係 水務署會唔會整一隊即係偵查隊出嚟去 check 下啲水管嘅情況,咁 水務署就回覆。咁你跟住見到 6.3.2 就有一個成員,咁總之 6.3.2, 我頭先同你講過,即係呢啲會議嘅紀錄,有陣時就頗難睇,因為有陣 時係眾說紛紜咁樣,即係呢個成員講啲嘢,嗰個講啲嘢咁樣。咁但係 即係你見到譬如 6.3.2,話有一位成員就提議咗啲嘢,咁 6.3.3 就 另一位成員就有啲意見,咁 6.3.4 又係另外一位成員就有啲意見。 我哋唔好睇嗰啲仔細嘅嘢,咁即係一般呢啲會議紀錄就係即係保密, 就係唔講個成員嘅名,但係佢講嘅內容就開誠公布咁講出嚟,對嘛?

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答:唔,對。

- 問:咁佢哋暢所欲言,但係就唔講佢個名。我想問嘅問題就係其實到到 2002年、2003年左右嘅時候開始,其實個時間上點解咁有關係,就 係呢啲會係 2001年開㗎嘛,2002年開始房委會要考慮喺公營屋邨 度要改建嗰個水喉嘅用料,用銅喎,咁銅喺呢一個會議裏面,考慮過 嗰份文件亦都有傾過,係咪,大家有傾過水質嘅問題,就係知道有 solder嘅問題,雖然唔係重點。
 - - 問:我明。即係你想講其實就係話我哋而家 15 年後出咗呢個鉛水事件, 咁我哋見到頭先嗰一段就可能個反應就係即刻嚨埋,但係你話即係總 之當時嘅人就未必係咁諗,你嘅意思係咪咁?
 - 答:呢個係正確。因為當時嘅人如果係咁樣諗,佢有咁嘅意識,佢當年應 該會將佢著墨,就講多啲嘢,例如喺呢一個 discussion,即係喺呢 個 paper 講嘅時候,呢度有咁多 deliberation,但係似乎--因為 我有睇過佢啲 minutes,如果嗰一點冇人提出嚟,...
 - 問: 係冇人講呢樣嘢, 我有同你講。
 - 答: 係嘞, 咁應該係有人關注就有人講, 即係當年都冇人察覺或者關注到 呢一個係問題喺香港。
 - 問:有冇可能話因為我哋自己就做過一啲嘅 research,我哋都睇咗啲會 議嘅紀錄,咁就係真係冇人係即係特登係喺嗰一點嗰度攞嚟提出,因 為你都見到其實 paper number 7,佢個著眼點就係可唔可以飲水 喉水。
 - 答: 係, 係嘞。
 - 問: 咁大家要傾都係傾可唔可以飲水喉水。但係我有興趣嘅就係話返到嚟 內部, 尤其是 2001、2002 係啱啱準備緊考慮去轉用銅喉, 而銅喉係 需要用 soldering 嘅。房委會嘅內部喺頭先你所講,房署又好,房 委會又好, 佢哋內部返嚟傾, 有啲交流嘅時候, 有方曾經話報告過有 呢樣嘢, 而 click 到喺考慮轉用銅喉嘅時候, 即係我哋叫做有人 put

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- c two and two together,就話「啊,我哋而家轉用銅喉,我哋需 要考慮下業界有冇啲乜嘢已經見過嘅問題,有冇需要精益求精呢?」
 D 「呢個會雖然唔關我哋直接事,但係有人提過喎」咁樣,有冇人即係 做過呢一個邏輯嘅諗法?呢個我哋而家睇 minutes 睇唔到。
 - 答: 呢一點我亦都唔可以揣測話有抑或冇,因為我當年就係冇可以--即係 而家我第一次睇呢份 paper,...
 - 問:我知,所以就可能要做功課咁解。
 - 答:但係做功課,我都有理由相信係唔會,因為如果有人會將佢嗰一點拎 出嚟 flag up 去研究,如果當年我哋會研究得到,係可以即係所謂 traceable。咁但係我哋亦都--我問過啲同事「當時我哋寫個 specification 嘅時候,咁係點樣參照嘅呢?」咁,咁一般嚟講, 我哋即係當然就有參照埋我哋物業管理維修嗰啲同事嘅意見、業界嘅 意見,同埋就係睇下當時行內,甚至係睇埋有啲國際 international 嘅 context,咁就走去寫嗰個 specification。咁我啲同事就即係 話畀我聽,其實當年都有 consult 過係 international 嘅 copper association,即係佢哋嗰啲...
 - 問:International 嘅乜嘢 association?
- M 答:Copper Association。
 - 問:Copper,係,係。
 - 答: 咁 即 係 佢 哋 都 會 係 即 係 廣 納 好 多 唔 同 嘅 意 見 , 就 去 寫 嗰 份 specification。但係就你話有方將特別係頭先你提到嗰份文件嗰 一點拎出去研究過,我就未可以問佢哋,但係我有理由相信係方將嗰 一點條拎出嚟 flag up。因為本身睇呢份文件,佢嗰個文件係方特別 著眼係講嗰個 point,如果有嘅話,佢可能就會多第二啲 papers, 特別條講係 lead in solder 或者 lead in water。但係我就咁 睇頭先你畀我睇你呢份文件同埋呢個 minutes,係睇唔到有任何嘅一 啲所謂端倪或者係跡象,顯示到當年與會人士有提及呢一點。咁當年 如果係喺開呢個會,即係呢一類或者 ACQWS 嘅會都方提及,咁我覺 得好難理解如果我去--參與呢個同事,當年黃比先生,就特別返嚟將 呢一點就向我哋特別通知,要切記,都未必有咁嘅一個論據。
 - 問:我明。即係你而家第一次見到,咁即係所謂一個 hunch,一個 gut reaction 就會係咁樣。咁但係我諗準確啲,不如返去可唔可以畀到 啲指示,搵一搵,睇下可唔可以 trace 到就係有冇啲乜嘢,即係

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- internal 嘅 minutes。或者頭先你話齋, 喺即係公屋--即係你話 唔同嘅範疇嘅同事可能都會互通消息,咁有冇啲即係大約嗰陣時嘅文 件或者啲 memo,即係有冇提過?如果冇,咁好容易,就係冇。
- 答:如果要我去尋找文件,要尋找檔案,呢個係十幾年前嘅檔案,咁我返 去我話都要搵,同埋呢一個就係--如果黃比先生屬於係物業管理同保 養嗰方面嘅嗰啲文件,咁我諗如果我現在去搵,可能會有困難,所以 我就唔可以擔保一定搵得到。咁即使喺我哋一啲即係內部嘅聯絡嘅會 議裏面,就算係唦番當年紀錄,可能都要入倉唦,因為呢啲係十幾年 前嘅事。咁但係我哋都可以嘗試盡力而為,不過我亦都估計搵唔到嘅 機會係好大。
 - 石先生:我諗即係呢個就未必好大嘅原因,但係我諗亦都毋需要話係一個 好快嘅 deadline 要畀到。
 - 主席:唔需要,不過我想提出嘅就係因為我哋注意到你嘅 specification,喺 2000 年嘅 addition,同埋喺 2004 年嘅 additions 係有轉變。2000 年嘅 addition 就係 B2 第 779 頁,或 者我而家講咗一啲 page 先,咁跟住我哋先 break。咁而 2004 年嘅 addition 就係 B2,就係 646 頁。咁因為就好似第一次講到 BS 1254,...
- 石先生:1254-1。
 - 主席:...就係喺呢一個 2004 年嘅 addition 就第一次出現。咁喺 BS 2000 年個 specifications 都仲係講到就係話"Do not use jointing material based on red lead."咁而喺 2004 年就 出現咗呢一個 1254-1(1998),咁呢度有講到就係話呢一個 lead-free solders 就係唔可以用嘞。不如我哋而家 take 一個 20 分鐘嘅 break 先。唔該。
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<u>上午 11 時 47 分聆訊押後</u>

- <u>下午 12 時 09 分恢復聆訊</u> 出席人士如前。
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問: 馮女士, 咁就頭先主席就叫咗你睇就兩個年度嘅嗰啲 specification, 一個就係 2000 年嘅, 2000 年嗰個 B2/779 應該 係, 嗰個你見到"lead based materials"嗰度, 見到嘛?

答:見到。

- 問: 嗰度就寫住"Do not use jointing materials based on red lead."2000 年嗰個年代,公營嘅房屋就未用 copper pipe㗎,頭 先佢哋講咗,都仲係用緊嗰啲 lined galvanized iron pipe, 對嘛?
- 答:正確。
- 問: 嗰陣時嗰個合約嗰個 specification 講話"Do not use jointing material based on red lead."係咩嘢意思?即係你用 galvanized iron,就唔係用即係 soldering 嘅物料應該係,咁 呢個即係 jointing material,佢指嘅係咩嘢?
- 答:現在我諗都要返去考究番。但係一般嚟講,其實以前我哋亦都唔係有 一啲-- general spec.嗰 part 都有講。你揭去後面嗰一版,780 嗰版,有講 galvanized iron pipes, UPVC lined galvanized iron pipes 係 ductile iron pipes, jointing copper pipes, jointing plastic pipes,係 jointing between dissimilar metals, dissimilar material,即係係一個全部都包括晒嘅一 個即係整體嘅一個係 specification 嚟。
 - 問:咁所以即係你嘅意思就係話...
 - 答:但係除咗 specification 之外,我哋有 drawings,另外仲有...(聽 不清),咁夾埋就會係形容當時我哋用咩嘢物料。
 - 問:唔,係,我明。但係即係我諗即係以所謂行外人嚟講,我哋嘅問題就 係 2000 年嘅時候,就用咗即係"Do not use jointing material based on red lead."呢個咁樣嘅即係而言,到到 2004 年嗰個版 本就 refer to British Standards 嘅 1254-1 嗰個。
 - 答:正確。
 - 問: 嗰個就係 lead-free solder。咁即係兩者之間嗰個背後嗰個思路 係乜嘢,點解會有啲轉變?

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喉,就取代咗,或者係可以局部或者逐步去取替咗 UPVC lined 嘅 GI pipe,我哋有一啲 review 係 going on,咁由一啲同事就專責 去統籌,應該就係屋宇裝備工程師嗰組別嘅同事嚟。咁特別去 review 嘅時候,亦都會因應最新嘅 British Standards,就去將佢再檢視 一次,然後先至寫出就係 2002 年我哋用嗰陣時候嗰個版本。咁 2002 年出一個 spec 之後, 咁我哋嗰啲 spec library, 一般嚟講就四年 update 一次,但係中間可以有唔同嘅 sections 就各自再 review 再出。但係一個 addition 我哋四年一版,咁所以就係見到 2000 版 同 2004 版嗰個轉變,其實反映咗我哋 2002 年係轉用咗銅喉嗰陣時 候哪一個最 update 嘅情況嘅。咁呢個可以能夠解釋番,即係「點解 兩個版本會有咁大嘅分別呢?」咁。咁其實我哋嗰啲 spec library 2004 年嗰套先至可以話全部將嗰啲任何有 brand name 有關嘅都係 remove 昞。 問:我知,但係... 主席:或者我哋睇一睇 2004 年嗰個 addition, 646, 唔該, B2 646。 答:646。 主席:我就係想--因為呢度係好 specifically,好針對性咁講,就係 話要用冇鉛嘅焊料,咁其實基本上都係返番去頭先石大律師佢一路問 1 個個問題嘅方向,就係如果係房委會裏面冇討論過,唔會有突然之間 走出一個咁樣樣嘅 specification 出嚟, 而呢個 specification 係好特別,好針對性咁講,係要冇鉛嘅物料。

答:不如講一講我哋嗰個 specification 個發展歷史,咁就即係個

specification 我 哋 一 向 就 係 分 開 咗 , 就 係 material、 workmanship 同埋 testing 咁樣嘅寫法。咁因應 96、97 年之後,

我哋就根據 WTO GPA,全部都應該係 non-discriminatory,唔可 以有 brand names,咁佢將全部嘅 specification 入面就重新再

檢視一次,就全部將任何有少少 brand names 有關嘅 specs 都要 改寫,咁第一個重要嘅大嘅改變。咁跟住就另外到到我哋每一個

trait 入面嘅 review, 咁因為我哋就係 2002 年, 我哋話要轉用銅

答:或者我講一講,即係所謂冇鉛物料嗰個,點解會有咁嘅 spec,即係 我都 睇過一 啲 同 事 畀 我 嘅 資 料 , 佢 就 顯 示 其 實 當 年 寫 呢 個 specification 嘅時候,當然係參考咗好多業內或者係即係國際間 嗰一啲嘅 general practice 係點寫。咁因為睇番佢如果 refer to

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- CBS 裏面提到,1254 嘅 part 1 裏面,咁佢嗰個如果係一個--有個
table,咁嗰個 table 下面嗰個就會寫到,就係 lead-free 嘅Dsolder,同埋如果係 phrasing 就要 cadmium-free on drinking
water,就有咁上下嘢寫喺度。
 - 主席:佢有一個 note 就寫住"soldering alloys with lead and brazing alloys with cadmium are not permitted in installation for water, for human consumption."
 - 答: 係。咁所以就可能我哋啲同事就係因應嗰個 BS 裏面有好多唔同嘅嘢 寫喺度,就特別係著眼,就抽咗呢一點出嚟寫落去咁解。咁呢個係我 哋做--即係啲同事做一個 specification 嘅時候,佢都要小心,係 揀一啲重點寫出嚟,同嗰個一向嘅即係慣常做法係一致。
 - 問:亦即係可唔可以咁講,就係如果想即係快手,純粹就咁話整體 British Standards咁,咁就係可以齋係用作一個整體 1254 就算 數?
 - 答:正確。
 - 問:但係你嘅意思就係你嘅同事就睇真啲 British Standards 裏面, 就抽出咗佢覺得重要,值得 highlight 嗰句,就即係主席話齋,就 針對性地就係提醒大家,「嗱,我寫到明㗎嘞,我唔寫其實都包咗㗎 嘞,不過我寫到明畀你」咁解,係唔係咁嘅意思?
 - 答:呢點係正確。
 - 問:因為其實你可以唔寫,你唔寫都包咗,因為即係 generally incorporated,個British Standards其實,可唔可以咁講?
 - 答: 係。呢點可以咁講, 一般嚟講, 就咁寫 refer to 就係 BS 乜嘢, 咁 就已經當講完㗎嘞, 咁...
 - 問:不過英文我哋叫做...(聽不清),我直情係畫埋畀你睇,就特別留意 呢嚿嘢,係咪咁解?
 - 答:係,正確。
 - 問:咁即係話你話你哋個 library 就係 update 就係 2004 嗰陣 update 咗,generally咁 update。但係其實你 2002 喥開始批核一啲合約

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А Α 2015年11月5日 食水含鉛超標調查委員會 B B 出去,其實即係斷件嘅合約都已經開始係用咗呢款 wording,係咪? С С 答:其實係呀,因為我哋啲同事都同我講,就係話即係佢呢一套就係沿用 D D 番就係 02 版本嗰陣時出嗰套,就擺落去 04 版。 Е Е 主席:二零零幾話? F F 答:2002年。 G G 主席:02。 Η Η 答: 2002 年我哋個 spec, 2002 就係個 spec 就轉咗落去,就用一啲銅 Ι 喉, 咁所以其實呢一份應該就係 2002 年嗰陣時就已經用落去做一啲 Ι 銅喉嘅--用銅喉嘅合約應該就用呢個版本。 J J 主席: 即係呢一個 2004 年呢個版本? Κ K 答:應該就係。 L L 主席: 就係 2002 年曾經改過, 就即係小改, 就 2004 年就大改? Μ 答:係。 Μ 主席,就變咗個... Ν Ν 答:即係 2004 年嗰個 addition,一個叫做集大成,就集合咗將過去譬 0 0 如 2001 年、2003 年嗰啲改動就 update 晒一套,出過一個新嘅 library。但係就 between 兩個 addition 中間,有個別嘅 Р Р specification 可能會有 updating, 咁就 update and review from time to time,咁都可以就隨時 issue,可以 use 嘅。 Q Q 主席:我明。咁你呢度嘅意思就係話加咗個細項三上去嘅,即係話要用 R lead-free 嘅 solders,就完全係有咩嘢特別原因,只不過係你哋 R 寫 specification 嘅時候, 嗰啲同事覺得「啊, 呢個都寫落去都好 。哈」,就唔係因為你哋房署或者房委會係知道有呢個問題,所以寫落 S S 去, 係咪咁 嘅意思? Т Т 答:呢個理解係正確。 U U

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- 問:其實我都想追問一樣嘢,即係任何一個改動,即係譬如話 2002 開始 慢慢改動,就係即係啲合約開始寫,就係叫人哋用銅喉,咁加上就係 如果叫人用銅喉,就會開始用呢個相關嘅 British Standards,叫 佢用 lead-free 嘅 solder。任何一個咁樣嘅改動,之前都應該有 個蘊釀期,係咪?即係唔係即刻突然間瞓醒覺轉,所以你 2002 年開 始有呢個改動,由 galvanized iron 嘅管變成 copper pipe 嘅, 至到有所謂合約上開始要直情講埋用乜嘢嘅 solder,之前有個研發 期,有個研究或者討論,「啊,好唔好改呢?應唔應該改呢?」咁有 冇㗎?
 - 答:有,呢個有嘅,應該。
 - 問:有嘅?
 - 答:唔。
 - 問:咁嗰啲技術上嘅可能考慮、見面、會議,有冇呢啲研究嘅文件咁樣, 係會㗎嘛應該?
 - 答:應該係會有呢類咁嘅即係 discussion 係出現過,因為通常一般嚟 講,如果我哋改一個 specification,第一,自己部門內部嘅同事 有一個 review,亦都會係同一啲業界有一啲聯絡,咁然後先至會去 將佢推薦。
 - 問:咁就同埋就係而家唔係話怪責你寫咗呢個 specification,要你寫 lead-free,個要求人哋用 lead-free solder 係啱。但係而家反 而個著眼點就唔係話即係寫 lead-free solder 呢樣,而係你考慮 轉話要人哋用銅喉,要人哋用 lead-free solder,整個考慮嘅過 程裏面,有冇順帶考慮埋就係有咗呢個條款,係咪有順應要改埋譬如 話地盤嗰啲即係監察嘅程序,邊啲嘢擺落 PLU1,邊啲嘢擺落 PLU2, 呢啲係整體地考慮㗎嘛應該,對嘛?
 - 答: 呢點係正確,所以正正就係點解琴日睇咗張 form 係 2005 版本, 嗰 張 610 嗰張 form,就係正正係因為有 specification 係 2004, 2004 係差唔多我哋一個分水嶺,咁就有好多 clauses 擺落去嗰陣 時,就要求佢有一個叫 verification check。因應咁樣就出,就 即係喺嗰度就睇咗一次,就將佢擺晒落去嗰張 form 入面。咁所以我 哋其實係相應地係可以話差唔多係由頭至尾都會睇,即係除咗 specification 寫落去之外,都會諗埋第時日後喺地盤運作上面係 點,有啲乜嘢相應嘅地盤嘅 site inspection 嘅工作要做,都會 一併考慮埋。

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咁當然可能有個 time lag,即係譬如我頭先提到就係譬如 2004 版本嗰個 addition,先至正式係擺咗咁多銅喉嘅料落去,雖然佢 2002 年開始用,係嗰陣時我有--中間有一啲係出一個--一般係講叫 做 DCMP 嘅 instruction,就會出呢一啲咁嘅新嘅 spec。同時,相 應地如果係到到 site inspection 有關,佢都要有同步,有一啲 改變,就 site inspection 都會改。

再者如果真係係一啲好 critical 嘅 item,就算 pass 個 assessment 嗰啲 items 都會再一次改埋。咁全部都係要 in sequence,因為有 specification 之後,出 tender 先至用新嘅 specification。咁所以跟住就會下一步就到 site inspection,咁然後再做就做 pass assessment。咁一般嚟講, 我哋如果同事都好有呢個咁嘅意識,就係當日佢嗰個規格嘅改動,就 會係一條龍服務, in sequence,幾樣嘢就會一連串咁樣去有一個 改動。

- 主席:等陣,我又想 interrupt 下佢。不如我哋又用番 2004 呢個 specification 去講。就我見到,其實 PLU1 裏面,我哋可唔可以 去番前面,去到即係 PLU 最前最前嘅時候,即係講啲 item 嘅時候。 即係我想表達嘅嘢係乜嘢,如果你睇番我哋講緊 water supply,講 緊供水系統嘅嘢,嘅物料,嘅 materials,PLU1,water supply, 基本上所有同 water supply 有關係嘅嘢全部都係 PLU1,换句話嚟 講,係由銅喉去到 valve,去到任何嘅嘢都唔驗個喎,係冇一樣嘢係 驗嘅基本上。PLU1 呀,你睇番 PLU1 裏面所有嘅嘢,總之凡係同供 水系統有關嘅都唔驗。但係如果你去到 PLU2,就連個廁紙架都驗。
 - 答:主席,呢個就唔係話驗同唔驗嘅分別,...
 - 主席: 唔係, 即係你話--我哋尋日聽到就係話去到個地盤嗰度睇定唔睇吖 嘛。
 - 答: 呢一點我可能會有個少少嘅澄清, 唔係話驗同唔驗嘅分別, 只不過琴 日大家提過嗰張 form, 嗰張 form 裏面嗰個著眼點, ...

石先生: 37641。

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答:... 嗰一個其實就係有一個因應於就係有個 on-site delivery verification 嗰 一 個 , 如 果 有 嗰 個 字 眼 擺 咗 落 去 我 哋 嘅 specification 裏面,就先至會將佢特別係抽出嚟,就喺呢張 form 6210 嗰度提出嚟。而呢張 form 嘅意思或者個意義,唔係話個總承 建商唔需要 check,而只不過就係話喺呢一個 list 裏面,呢個清單 裏面,就 contractor 就要喺我哋嘅 site staff 嘅面前嗰度 check。

主席:Okay。

- 答:即係呢個--咁唔係話唔 check,所以我呢點就唔可以 construed to mean 係我哋係唔 check。
- 主席:即係換句話嚟講, PLU1 裏面所有嘅嘢,都唔會喺一個房屋署嘅人 員面前係驗收?
- 答:主席,咁呢一點我哋都要澄清,因為其實我尋日提過,嗰個用料係即 係好多,千百款,咁而呢一個表列,只不過係佢有三十款咁上下喥。
- 主席:我知。
- 答:咁所以就係有好多物料唔係需要總承建商喺我哋同事面前 check,但 係唔表示咁就係個承建商就可以唔 check 啲物料。
- 主席,我明,呢個另外一件事。總承建商 check 唔 check 就你唔好理佢 住先。你因為係房委會又好,房署又好,你係大業主嚟,即係你嘥咁 多錢去開一橦公屋,咁你大業主,我諗唔多唔少都要關心下究竟我啲 錢係唔係使得啱先得,係咪?咁即係我就好奇怪,就係因為跟住好似 PLU2 就係講緊嗰啲廁所、衛生間裏面嗰啲嘢,或者排污嗰啲嘢,嗰 啲你又全部擺晒落去 PLU2 個喎,就要有機會係房署嘅人員係驗收。 PLU,但係供水系統裏面所有嘅嘢,都冇一樣嘢係話有機會喺房署人 員面前驗收。即係因為我就做刑事多,係咪?咁即係職業上,咁原來 你--譬如你由04年開始,就已經將嗰啲嘢擺咗落去 PLU1,去到 2012 年,大大話話過咗 8 年咁上下,10 年、8 年咁上下,你都係 PLU1, 你十幾年原來都唔需要係喺房署人員面前驗收,咁換句話嚟講,我偷 雞你都唔知。
 - 答:其實如果係要加番一個係 on-site delivery verification 嘅 要求落去合約嗰個規格裏面,亦都唔係只限於係 PLU2,即係如果而 家咁,即係現在我哋今年就有加埋 PLU1 嗰啲落去。

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- 主席:即係事後之後,但係你明我意思,我睇番你由 2004 年去到 2012 年都係 PLU1,即係從來都冇人--即係我有一啲唔係好明,就係你要 consume 咁大量嘅 copper pipe,而運到去地盤嘅時候,原來係冇 一個房署嘅人去驗收,喺佢哋面前係。咁因為你而家知道,其中有啲 valve、有啲 taps 諸如此類就畀人偷龍轉鳳,而家我哋知道你啲 report 出嚟係咁樣樣。
 - 答: 嗰個個案亦都唔可以話作係偷龍轉鳳,因為嗰個純粹就係話佢填咗張 form WWO 46 嘅時候,其實我哋嘅同事仲未去到批料嗰個階段。如 果去到批料嗰個階段,就一定要係符合個水務署嗰啲批准嘅要求,有 四個 criteria,即係有 type A、B、C、D 咁樣。
 - 主席: 唔係,我哋知道譬如有啲話咩嘢 viceroy 嘅水龍頭,跟住又畀人 换咗另外一隻呀諸如此類。
- 答: 嗰個佢唔係換嘢, 佢係 submit 個 sample 畀我哋嘅同事批核, 呢個 就係後者。咁而係佢批完辦之後,應該一般嚟講就係個 licensed plumber,就會同番水務署就去修訂番或者修改番 WWO 46 後面嗰個 附件, 呢個一般嚟講,都係香港慣常嘅 practice。因為第一次佢填 張 form 入去嘅時候, 係喺個開工嘅時候有幾耐, 但係仲未去到全部 啲辦係批晒嘅階段, 咁但係批個辦,譬如假如佢批嗰隻係即係譬如 XYZ 咁先算, 但係佢之前張 form 就寫 ABC, 但係 XYZ 本身一定係根 據係有一啲係水務嘅要求, 係可以批核得到, 即係包括有譬如係一啲 水務嘅批文,或者係個 BS trademark 等等,我啲同事先會批,跟 住佢先會訂購去用。
 - 主席, 唔係, 即係你嘅意思即係話畀我聽總之就係某一個裝置, 總之佢係 符合呢一個英國嘅標準, 咁實際上裝咗, 裝 A 又好, 裝 B 又好, 裝 C 又好, 其實基本上係唔重要, 係咪咁嘅意思?

答:呢點唔係咁嘅意思。

主席:咪係囉。

- 答:我嘅意思就係話唔係存在偷龍轉鳳嘅問題,而係佢就喺地盤用嘅物料 就係我哋同事當年批准佢用嗰隻物料,即係有 sample approval, 同埋有佢嘅 submission。同埋我哋批嘅時候,同事亦都會喺一個團 隊裏面,都 check 過佢嗰啲提交嘅,包括係化驗嘅報告同埋係文件, 同埋有冇一啲水務署嘅批文,咁然後先至批准佢用呢啲物料。
- 主席:我知, 呢啲係 on paper submit 個 sample 畀你哋嗰陣時, 但係

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- 答:實際上...
- 主席:即係 on paper,我完全唔懷疑你係有一套既定嘅程序,但係如果 你--譬如好簡單,你去到個地盤度,原來成個供水系統由第一項去到 第尾項,最屘嗰項都冇人 check。咁而你哋去到最後,你哋最後去到 收貨嘅時候,你哋又係話「啊,我哋淨係 conduct 一個 performance test 嘅啫,我哋淨係想知道啲水究竟得唔得,work 唔 work,啲水 流唔流」,基本上冇人再睇究竟裏面嗰啲部件究竟係唔係啱嗰隻部 件,咁就好似唔係幾好喎,係咪?

實際上去到施工嘅時候就係冇人 check㗎嘛, 係咪?

- 答:主席,呢一個亦都未必係咁嘅情況,因為我哋冇一個--唔需要叫同事 同個承建商一齊 witness 去驗收,但係喺佢平時,即係 day to day 個 general checking 嗰陣時候,如果睇嗰張 form,佢一般嚟講 就係有啲係 10 per cent,咁佢大概都會睇番嗰啲 brand 嘅型號啱 唔啱,同當時我哋批嗰啲物料係唔係相符,喺嗰度同事係可以 check 得到。
- 主席:咁我明白。

答:就所以就唔係話完全唔 check。

- 主席:另外一樣嘢我想問一問你,即係你同唔同意其實 British Standards 同呢個 quality of drinking waters 其實係方直 接嘅關係?
- 答:呢個問題我都好難以作答,即係我只可以講就係話因為既然係個--有 一啲《水務條例》要求我哋係 comply with British Standards, 咁我哋就 comply。咁但係呢個 drinking water 嘅 quality 係咩 嘢,我哋一般都會理解為就係驗水版嘅時候,就會將一啲重要嘅 parameters,就將 佢 係 羅 列 出 嚟,咁 如 果 符 合 晒 嗰 啲 parameters,就應該係有一啲所調係優質嘅食水,或者係有一啲最 基本係可以符合一個衞生要求嘅食水。
- 主席:咁係即係呢個你嘅理解,我唔同你有爭議。不過,好簡單如果我哋 睇下而家我哋成日講嘅 British Standards 1254-1(1998),呢 個 British Standards,其實係講緊 copper 同埋 copper alloy 嘅 plumbing 嘅 fittings,講緊 fitting with end for capillary, soldering or capillary brazing to copper tubes.。1254-1(1998)呢個 British Standards 裏面所講嘅係

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- C講究竟你啲銅係要用乜嘢 material 用,你嗰個 tubes 個 wall
thickness 係要幾多、個 temperature 如果要燒焊嘅時候、個
maximum temperature 係幾多、個 maximum pressure 係幾多。
全部都係講呢啲好 technical 嘅嘢,完全同水嘅 quality 係一啲
都冇關。咁你點可以話「啊,我 fulfill 咗 British Standards,
所以啲水就一定係冇問題」呢?因為兩件事嚟,conceptually 係兩
件事嚟。係呀,即係你都係用番--即係想講番頭先嗰個答案?你明我
個意思嘛?
 - 答:我明你嘅意思,咁但係...
 - 主席:因為嗰度係講緊你要做呢啲銅喉,要接駁嘅時候,你嗰啲銅喉就要 點點,最厚係、最薄係幾多、凸出嚟幾多、可以承受壓力幾多、熱力 係幾多,諸如此類,同水係完全有關。
 - 答:我只可以講就係話嗰個成個 plumbing installation, 佢有佢嘅 system 嘅 performance 同埋有 system 嘅 integrity,咁佢一 什係有一啲基本嘅要求要 fulfill,咁我哋根據個 British Standards 裏面嗰啲要求就寫落去合約裏面。
 - 主席:得,好嘞。咁另外一樣嘢我想問,我嘅理解你哋有好多位 Chief Architects,有兩位 Chief 嘅 Building Services Engineer, 我嘅理解,我睇咗佢哋嘅--即係我怱怱一望,望過佢哋嘅口供,咁呢 個 Chief Building Service Engineer,佢 involve 喺供水系 統裏面,就只係 involve 喺嗰個泵房裏面嘅嘢,啱唔啱呀我嘅理解?
 - 答:不如我咁講,分開兩個部分,一個就係中央系統裏面,負責 specification 方面先,主席頭先睇到關於我哋嗰兩個就係 project 裏面嘅 Chief Architect 同 Chief Building Services Engineer,佢嗰個執行上面嗰個工作。但係咁我要講一 講,就係我哋點樣去負責發展同埋係管理或者打理呢啲 specification,中央嘅系統,咁其實flush salt water supply system 就有兩個部分,第一個部分就係 water pump 同埋 associated pipework inside pump room,泵房裏面。另外一 部分就係 pump installation outside pump room,就泵房以 外。咁頭先見喺 project 負責工作嘅部分的確就係咁樣分,泵房裏 面就係個 Chief Building Service Engineer 負責,咁以外就 係個 Chief Architect。但條我哋寫個 specification 嘅時候, 譬如喺嗰個係水泵同埋係 associated pipework inside pump room,我嗰個 spec 就叫做 FWP,咁另外個 specification,個

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- C pump installation,就係 water supply installation 就 係 PLU1,同埋 sanitary appliances,就係潔具嗰啲就係 PLU2。
 D 咁喺我哋分工裏面,個 Chief Architect 就係負責係 PLU2,但係 PLU1,即係關於呢個係 water supply 呢一部分, specification,同埋係 FWP 嗰兩個 specification,就係 Chief Building Services Engineer 負責。
 - 主席:得,即係換句話嚟講,我哋可以搵嗰個 Chief Building Services Engineer 負責寫呢一個 PLU1 嗰個人嚟話畀我哋聽點解 咁寫?
- H 答:係可以,主席。
 - 主席:得,唔該。
 - 答:就嗰位同事都係證人之一。
 - 主席:Okay。好,我問完嘞基本上。
 - 問:我想同你澄清少少嘢先,就係關於一樣嘢,如果寫咗喺 PLU1 底下, 同埋喺 PLU2 底下,嗰個 relevance,在地盤驗需唔需要在房委會 或者房署嘅同事面前去驗,就係取決於 form 6210,即係 37641。 就送達嘅時候,需唔需要在職員面前開始檢驗,就係 6210 所寫嗰拃 就要嘞?施工期間會有啲 spot check,即係或者你叫做 random 嘅 check 又好,或者即係 spot check 又好,嗰啲就係我哋尋日睇過, 有啲 100 per cent、10 per cent 或者 random,就由嗰個文件 去取決?
 - 答:正確。
 - 問:嗰個係 B1/86。
 - 答: 係, 嗰個係同--呢一個 form 同嗰啲物料係完全冇關係, 嗰啲就係全 部所有喺地盤嗰啲裝置同物料都應該係涵蓋, 就所以就係同呢一個 form 係冇關係。
 - 問:好嘞,我哋睇番尋日睇過嗰個 B1/86,B1/86,一拃嘢,其實係由 79 開始。咁呢度就係 list of items requiring various category checks,見到嘛?
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答:見到。

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問: 咁就有 100 per cent、10 per cent,同埋個 random 咁囉,尋 日我哋都睇過呢一個文件。咁就呢一個就係去決定究竟施工期間房署 嘅職員去到巡視嘅時候,佢哋對啲乜嘢嘅物料應該採取一個乜嘢嘅態 度去 check,如果 check 嘅話,係要十件抽一件定係要 check 晒定 係 random,就係跟呢一個表嘅指示去做,對嘛?

答:呢個正確。

- 問:好嘞,咁你睇番第 86 頁,第 86 頁嗰度就係有講到係關於 plumbing 嘅 arrangement。咁我哋尋日就講過就呢度係有講過話係要 check 焊料,咁你就搵唔到焊料。咁但係我哋睇下譬如話 PLU1.02 嗰度, "Plumbing above ground water supply pipes"嗰度,咁嗰 個 pipe testing 100 per cent 或者 cleaning of water tank。 嗰個 pipe testing 100 per cent 嘅意思係乜嘢,可唔可以解畀 我哋聽?
 - 答:嗰個 pipe testing 就主要係講譬如 pressure test 呀等等嘅嘢, 即係一個 function 嘅 test 嚟。
 - 問:咁但係就要起好晒之後先至 test 嘅呢個 100 per cent?
- 答: Pipe 我諗係一個個 zone 去 test 囉,就未必一定係起好晒,即係如 果佢 zone by zone 可以 test 到,係可以一個個 zone 去 test。
- 問:Okay,okay,得,得。
- 答:但係佢一定要有某一個系統係已經係完成咗,先至可以進行。
- 問:得,得。咁而側邊嗰啲 10 per cent check,你尋日就舉過個例子, 就係可能十件擝一件嚟 check,咁呢度就可以--即係你 10 per cent check 就可以斷件計嗰啲就擝一件嚟到 check 咁解,嗰啲係咪?
- 答:其實唔係擝一件,而係譬如係有十個 flat,咁我同事就會去一個 flat 嗰度,佢裏面嗰度 check 咗佢,但係就唔係鋸佢出去驗,就唔 係嗰一隻款嚟。
- 問:Okay,okay。咁佢裏面有嗰啲--我有度想睇睇,就係 pipe joint 係咩嘢嚟?
 - 答: Pipe joint 就係顧名思義,即係 joints of pipe,即係兩條喉

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管接駁嘅位。 問:就唔係 solder 嗰樣嘢,完全唔關事? 答: 佢都係靠 visual 睇嘅一般嚟講, 呢一類 check, 如果佢喺呢度唔係 將佢去所謂拎去化驗,... 問: 化學分析, 唔係? 答:唔係化學分析。 問:就算 6210 上面嗰啲都唔係化學分析,嗰啲都係可能係靠眼睇,睇文 件咁嘅啫? 答: 係嘞。咁其實就再講番少少關於我哋嗰啲, 頭先講 specification 嗰度,我哋亦都 from time to time 去做一啲 update 或者 review,咁其實 PLU1 同埋 FWP 嗰兩個 specification,其實我 哋 % 2010 年就請咗一個顧問,幫我哋再 review 番呢一啲 installation 嗰啲 specification,咁 review 咗之後,2013 年已經完成個 review, 就喺 2014 年嗰個最新嘅版本應該就係會 update 咗。 問:咁 PLU1 as a category, PLU1 基本上就係包含水管, PLU2 就係 包括即係潔淨、潔具嗰啲咩嘢,對嘛? 答:潔具,正確。 問: 咁就而你尋日都講過, 即係合約嘅規定屬於 PLU1 裏面嘅嘢, 就唔係 強制一定要事先提供樣本畀房委會批核,但係好多時候啲承建商都會 咁做? 答:其實 general practice 佢哋都會。 問: 係, 但係... 答:即係呢一個係已經係差唔多係約定俗成。 問:約定俗成㗎嘞? 答:做咗好耐,佢哋一定係會批,因為其實唔批--一般嚟講,係特別係啲 大件嘅物料或者重要嘅物料,佢都一定會係畀我哋審批。 - 49 -

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В			В
C	問:	就攞個安心,即係唔好話去到,發現原來唔收貨或者盛,咁就唔知點 算嘞?	С
D	答:	係嘞。	D
Ε	問:	即係佢約定俗成,佢攞咗冇蝕底嘅呢啲嘢,係咪?	E
F	答:	正確嚟講,佢一般都要攞呢個即係 approval,然後佢先敢去所調訂 料,去用。	F
G H	問:	即係雖然唔係合約強制 PLU1 裏面嘅嘢一定要事先攞到,但係即係作 為約定俗成嘅做法,佢哋一般都會咁做,係咪?	G H
I	答:	係,即係呢個係一個差唔多係一個 standard practice 嚟。	I
J	問:	PLU2 就合約直情規定你係要一定攞咗事先嘅批核先,先至可以去 做?	J
K	答:	係,呢個係正確。	K
L	問:	Okay。咁但係 PLU1 嗰個 definition 就係 water supply 嚟?	L
М	答:	係。	М
N	問:	Okay。咁但其實即係我又問番,即係英文就叫做 what is the why and reason behind 擺佢落去 PLU1 定係 PLU2。即係我明白你頭 先講,就話一般啲人都會咁做,雖然合約方規定,PLU1 啲人都會係	N
0		事先入定紙。咁點解覺得 PLU2 嘅嘢,合約上係咁緊要,一定要佢事 先入紙,攞咗批核,PLU1 又唔使呢?撇除啲人係咪都會咁做呢個考 慮,點解覺得 PLU2 要強制佢入咗紙畀你批核先,而 PLU1 又唔使?	0
Р	広・	其實 PLU2 應該就係嗰啲 sanitary appliances,係啲所謂大件嘅	Р
Q	台・	嘢嚟,PLU2 就係 sanitary appliances,即係大型嘅潔具嚟。潔	Q
R		具,因為情況一樣,我哋就唔可以 specify 個 brand name,我哋 一定要係寫個 performance-based specification,就唔同即	R
S		係一般出面私人都有寫個 brand name,咁我哋就冚唪唥都將佢只係 寫嗰個 specification 嘅 performance,冇 brand name,冇 discriminatory嘅一個 indication。咁所以就一定要佢 submit	S
Τ		畀我哋批核嗰隻,即係譬如型號等等,係咪合乎個規格,咁一般嚟講, 可能 check 嘅嘢都會可能比較多少少都唔定,咁就一定就要即係有	Т
U		一個版,同埋係你話個批版嘅過程可能就咁解。	U
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問:咁其實理論上你話 non-discriminatory,即係唔可以純粹話 x 牌子我就係要你一定要畀個 x 牌子我,咁呢個原則其實都係 apply 落去 PLU1 裏面嘅嘢?
答:我諗可以諗番即係以前或者再早一代,當我哋仲可能有啲用 brand name,有啲甚至我哋所謂叫做 approved list of materials 嗰一類咁嘅運作嘅時候,就舊時可能有一啲 brand name 係可以擺落去用嘅,咁然後嗰一堆就演化成為現在,即係呢個 PLU2 嗰一個

specification •

問: 唔係,我明,但係頭先你--我頭先我問你個問題就係話個原則點解覺 得 PLU2 嘅嘢要事先可以批核, PLU1 就唔使,咁你頭先就講咗兩樣 嘢,第一樣嘢就係你哋而家寫 specification 就唔可以寫牌子,咁 所以我要睇你攞嚟畀我嘅嘢,我就去試測下,先至決定批唔批你。咁 但係呢一個 argument 就同樣應用 % PLU1 包含 嘅 嘢,你 non-discriminatory 就乜嘢都 non-discriminatory㗎喇,對 嘛?

答:呢個正確。

- 問: 咁所以其實你剩番就係第二樣, 就係 PLU2 嘅嘢比較大型啲, PLU1 嘅有可能係細啲咁, 係咪?
- 答:我諗又唔可以咁樣分,即係 PLU2 就係根本就係嗰啲潔具有關嘅一 啲...

問:沖涼缸?

答:係嘞,一啲 component 嘅嘢。

問:洗手盆嗰啲, 係咪?

- 答:主要係嘞,嗰啲係屬於係 component,就係一啲大件嘅,即係譬如 你話係即係坐廁、洗手盆嗰類嘢。咁而 PLU1 就真係一啲係好 generic嘅material,例如係嗰個pipe,一般嚟講,以前我哋都 唔會寫 brand name嘅嘢嚟。即係我哋以前一向都唔會寫佢用乜嘢 嘅型號,即係譬如咁講,一啲係好 general 嘅 material,係 commonly use,同埋就係可以係國際性上面一般都可以好方便咁樣 可以採購,就根據一啲 specification 係跟一啲國際標準,例如係 British Standards 等等,都已經可以足夠去採購嘅一啲物料嚟。
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А Α 2015年11月5日 食水含鉛超標調查委員會 B В 問:即係唔同牌子之間冇乜嘢分別嘅可能? С С 答:係。 D D Е Е 主席:我又直係唔係好同意喎,你銅喉唔同嘅生產商生產出嚟嘅銅,係個 質素係可以有好大分別個喎。 F F G G 問: 會唔會? Η Н 答:Copper pipe 一向以來,我哋睇得返嚟,甚至現在,即係事後再檢 Ι Ι 測,驗呢啲嚟,嗰個 pipe 全部都係 copper。 J J 主席:咁即係換句話嚟講,最平嗰隻就得,係咪咁嘅意思? K K 答:呢個價格就唔係考慮因素,總之合唔合嗰個規格,總之就係睇佢合規 L L 格嘅物料, 佢個生產出嚟嘅物料係符合嗰個 specified standard, 咁嗰隻可以係一隻合用嘅物料。 Μ Μ 主席:即係我隨便--我可能未必所講嘅係正確,是否係因為供水,尤其是 飲用水嗰個系統已經有《水務條例》係監督,咁所以所有有關供水嗰 Ν Ν 啲裝置,就全部入晒去 PLU1? 0 0 答:簡單啲去形容,其實呢一個情況都會出現,即係《水務條例》裏面嗰 啲,其實全部都係涵蓋喺 PL --呢個我都唔敢肯定,但係... Р Р 主席: 係呀, 所以基本上都唔使 test, 因為有《水務條例》監督住? Q Q 答: 咁基本上面,我哋就係話我哋都係採用一個 risk-base 嘅 approach,即係風險為本,如果我哋察覺得到佢係有風險,就即使 R R 佢《水務條例》裏面,如果我哋知道得到,我哋都可以有咁嘅理由相 信,可以去針對性去抽查。但係即係如果我哋喺冇任何端倪,又冇任 S S 何線索嘅情況底下,就未必會察覺到呢個風險嘅存在。 Т Т 主席:唔該。 U U 咁繼續,石大律師。啊,我哋要早啲午膳,我哋而家休息,兩點 V V

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<u>下</u> 午	
	12 時 52 分聆訊押後
下午	2時30分恢復聆訊
出席	人士如前。
宣誓	房屋委員會第二證人:馮宜萱女士(房屋署副署長(發展及建築) 繼續作供 <u>生繼續盤問</u>
	馮女士,我想同你再簡短地澄清下關於 PLU1 呢個級呢個即係類 類別嘅嘢,同 PLU2 呢個類別類型嘅嘢嗰個分別。PLU1 就係 啲水喉系統嗰啲, PLU2 就係嗰啲潔具嗰啲 sanitary item 嗰啲
答:	Appliances °
問:	即係 PLU2 就會包括啲咩嘢類型嘅嘢,洗手盤、沖涼缸嗰啲,係咪
答:	正確。
問:	PLU1 就係喉管,總之整個供水系統嗰啲嘢?
答:	係。
	咁 PLU1 同埋 PLU2, 頭先我哋講過其中一個分別, 即係不厭其煩 樣再講番, 就係 PLU2 就係合約規定一定要事先攞到房委會嘅即 approval(批核); PLU1 就唔係強制, 不過好多人都咁做。咁你 先畀過一個解釋我哋點解兩者之間會有呢個咁嘅分別, 第一, 你就 可能係有即係 PLU2 裏面嘅嘢多數係大件啲嘅嘢; 咁 PLU1 嗰啲 管又可能係細件啲嘅嘢。咁但係無論大細都好, 都係需要符合合約 面所要求嗰個 spec 嗰個要求, 無論係 performance 也好, 或者 學即係成分也好, 點都好。咁點解一樣係需要房委房署 pre-approve, 另外一樣係唔使呢?
答:	不如我講一講嗰個即係唔係話大細或者係

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2015年11月5日

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問: 係, 係嘞。

- 答:...pre-approve 問題。而係 PLU1 主要就係嗰個 plumbing system;而 PLU2 就特別係抽咗一啲係 sanitary appliances 出 嚟咁解。咁而一般嚟講,雖然話 PLU1 就唔係 mandatory 全部嘅物 料都要所調預先 pre-approve,但係一般嚟講 general practice , 基本上嘅物料或者合約裏面全部第二啲 specification 嘅物料,承建商都要有一個 material approval schedule 畀我哋。咁一早定咗就係佢要將有一啲物料係等我哋嘅同 事有一個審批嘅過程,咁呢一類嘅過程即使我哋合約唔寫明係一個 mandatory 嘅 practice,都係一個我哋 general expectation of contractor 嘅 practice。
 - 問:停一停先,我明。In general 啲人係咪都會咁做,但係我想明白就 係你背後個 thinking,點解合約上面有啲你規定就要,有啲又唔使? 你唔好理有啲人係咪都係咁做,如果係咪都會咁做,你不如叫埋佢 做, 係咪? 但係即係點解合約上有一種嘢你覺得係特別需要強制佢畀 定你?譬如話沖涼缸、洗手盤,點解有需要事先畀定你哋去睇,反而 啲喉管就唔使呢?
 - 答:不如我講講,我就話 in general,其實嗰個 practice 就係即使我 **呲唔寫明,唔訂明,就承建商都係會畀物料我哋批核嘅,呢個係一個** general practice •
 - 問:明白。
 - 答:即係我哋抽離啲,唔係淨係講 PLU1 同 2 嘅分別。即係就算我合約裏 面第二啲 clauses, 未必有話 mandatory 呢啲一定要 pre-approve °

問:我明, 係。

答:但係一般嘅 practice,我哋都係咁樣去運作,咁呢樣我想釐清先。

問:得。

答: 咁第二點我先至再解釋點解 PLU2 有少少特別嘅咁,我就可能同佢以 前嘅前身有少少關係,因為我哋就唔可以再使用--有寫一啲 brand names 嘅時候,咁以前就有一啲--呢類物料,同佢整體嗰個--可能 係嘅整體嗰個 design 或者個 appearance 有關係, 嗰一啲嘅特別 嘅 appliances,就會有一個所謂"pre-approve"嘅一個過程咁

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C 解。咁最--我要--我即係再將佢抽離咗少少,唔係話我哋唔寫--唔 要pre-approve嘅,就係忽視嗰啲所謂細嘅嘢,並唔係咁嘅意思。 我哋呢點要澄清先,即係嗰個物料嗰個審批係我哋一個--比較重要嘅 一個過程。咁即使我哋唔係寫話 mandatory,其實都有呢個需要。 咁...

問:Okay。

- 答:...但係就點解呢個特別咁--即係 PLU2 有咩嘢咁特別呢?我就解釋 多少少,就係同佢個前身有少少關係咁解。
- 問:即係譬如話前身可能你會出個 spec--specification 嘅時候,你 會講埋某牌嘅潔具、某牌嘅沖涼缸。而家就唔寫得,你淨係可以寫啲 好基本,好 neutral 嘅嘢。咁但係可能你哋作為一個發展商,你都 想譬如話嗰個沖涼缸可能矜貴啲,或者係某個特別嘅牌子,你又唔可 以寫落個合約度,咁所以就要有呢一個即係 pre-approval 嘅過程? 反而喉管就即係--其實即係又唔係特別要佢好靚,咁所以就唔需要事 先要 approve 咗, 係咪咁解?
 - 答:我諗唔係咁嘅意思,而係一般嘅物料我一定要合規格,呢個係--即係 呢個必然嘅。
- 問:係,明白。
 - 答:咁個物料審批亦都係要確保佢提供嘅物料係可以係合乎合約個規格。 咁但係點解 PLU2 有少少特別,可能嗰個設計上面,或者喺嗰個 design 上面,亦都想佢有一啲係--有一套嘅 design 係可以 compatible,即係就唔會搞到佢就隻隻嘅唔同嘅 product 擺埋一 齊嘅時候,可能就會比較突兀啲嘞,咁可能就會睇睇佢,會唔會嗰一 個嘅 approval...
 - 問:即係成套廁所可能要靚啲,即係同樣嘅色調或者盛?
 - 答:或者係同埋嗰個色調系列等等,即係唔會夾埋一齊之後,原來就係望 出嚟就完全係唔 compatible,雖然佢睇落去嘅規格都可以合乎嗰個 要求,譬如一個紅加個綠,即係就唔會搞到咁樣樣。
 - 問:即係呢一啲係 on top of 一啲基本 specification, on top 嘅 嘢,就唔係話所謂合約可以好死板地用 specification 寫到出嚟嘅 嘢?

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答:咁基本一定佢要合乎個合約規格先,即係呢個係必然嘅。

問:係,係。

- 答:但係有一啲就係話即係你成套系列嘅 design,如果要佢 compatible 嘅話,咁可能就要睇晒一套,嗰陣時就有個 pre-approval 呢個過 程,就比較會係等到嗰個 de--即係成個--我哋嗰個項目團隊就可以 有呢個機會去睇晒佢一套,就去批核。
- 問:明白。即係簡單嘅例子,你唔會喺合約度寫明話所有廁所都需要用某 個色調嘅嘢,咁但係實際實踐起嚟,你要嗰個 pre-approval 可能 除咗要 vet 佢嗰個基本係咪符合 specification 以外,可能就係 要睇呢一啲--可能美感上嘅嘢?
 - 答: 係, 係咁嘅意思。但係就其實一般嚟講, 全部我哋 specify 嘅物料, 承建商佢要確保佢可以係合乎我哋規格, 然後先至可以訂料去用, 呢 個係一個 general 嘅 condition。
 - 問: 唔,okay,明白。另外,就有一個--頭先我就係問緊你一個問題, 就係關於二千零一--Sorry,2002 就開始你哋嘅合約,就要求人哋 係用銅管--銅喉,開始即係要求啲公屋裏面嗰啲供水系統係用 copper,合約開始。
- 答:最初嗰陣時,其實就合約個 specification 就有兩套系列並存,一 套就係 UPVC lined 嘅 GI pipe,一套就係銅喉。咁兩套並存,其 實承建商係可以選擇用邊一套,咁但係一有呢個 choice 之後,就全 部承建商都係選用銅喉。
 - 問:可能佢哋因為做私樓用慣銅喉,係咪呀?

答:係,係。

問:好。咁我頭先都問過,其實。你唔使而家畀到我,但係可能呢個係一 個對 document,對文件嘅一個 request,可能 Mr Yin 或者 Stephenson Harwood可以即係聽住,就係我哋想睇一睇有冇一啲 喺房委會作出一個政策上嘅改變?由lined GI pipe 轉做 copper pipe,呢個過程裏面--我哋唔好講話中間有個 transitional period 兩者存在,呢個係實踐起嚟嘅事情,但係有一個所調政策上 嘅改變。咁你頭先都同我哋講過就係呢個政策上嘅改變,除咗係研究 嗰個 clause 點樣寫之外,就應該都會研究埋由於轉用銅喉,有冇啲 乜嘢順應嘅實踐嘅措施相應,譬如話你改變你嗰個 list,使唔使加

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啲嘢,使唔使--呢個可能係一個逐步逐步嘅一個過程,改咗個 clause 先,咁跟住同事又會話「啊,由於改咗個 clause,我哋使唔使研究 有啲咩嘢 knock-on effect 呢?」咁樣。

我哋想搵番,我知道可能要用耐啲嘅時間,唔使聽日畀,咁我哋 都未必需要主席畀一個 deadline,咁但係可唔可以搵到就係由於呢 一個政策上嘅改變,房委會有冇做過一啲嘅 step?呢啲肯定係政策 改變前做嘅,關於用銅喉,譬如話 pros and cons,安全或者係 specification 上嘅考慮,譬如話有冇啲咩嘢 memo 呀盛去講「啊, 我哋要考慮用咩嘢 spec 喎,我哋嗰個 clause 係咪應該要加一嚿嘢 呢?」整個 draft 望下呢類嘅嘢。同埋研究埋順應嘅一啲實踐起嚟嘅 措施,咁大家同事之間,即係你知好多呢啲嘢都會有文件嘅往來,一 套嘅文件可以話到畀我哋聽,整個由 GI pipe migrate 到變成 copper pipe 之間所一啲技術上同埋文件草擬上嘅一啲內部嘅考慮 嘅文件,可唔可以搵到一拃畀我哋?可能呢一個係會 spend 一段時 間,由 2000、2001 可能開始考慮,一路到到可能 2004。就未必要 成箱,因為我哋係針對好細嘅呢一點,就係即係由轉做 copper piping 引致嘅一啲改變,你明白我嘅要求嘅嘢嘛?

- 答:主席,我明白大律師嘅要求,不過可能真係需要一啲時間去搜集呢啲 咁嘅紀錄,可以咁講。咁就因為可能都需要一啲時間。
- 問:係,明白,明白。
 - 答:但係一般嚟講,我主要講個常規,就係我哋都係點樣會改,有啲嘢改, 一定係有一啲譬如 feedback,即係根規日常嗰啲有啲用家嘅 feedback,保養維修嘅 feedback,或者係我哋同個業界嗰啲聯繫, 包括施工同埋日後嗰個即係使用等等,咁呢個就係一個常規,都係咁 樣做。但係如果你話實際上要攞番嗰一啲文獻或者係一啲檔案出嚟, 的確我需要時間去搵,因為呢個都係十多年前嘅一啲紀錄嚟。
 - 問:得,可唔可以盡量搵。
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石先生:我諗--我唔知主席使唔使 hold 咗個 deadline,要幾時畀,定 係即係畀佢用...

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主席:唔需要,唔需要。

石先生: 搵住先喇, 即係如果搵...

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主席:搵住先,係喇,聖誕節之前都得。

答:好。

- 問:盡量搵,好唔好?你哋知道我嗰個目的,就我想睇下有冇一個 paper trail,大家嗰陣時個思路諗下,「啊,轉咗銅,轉咗銅,啊,用咗 咩嘢 solder,用啲咩嘢 solder,有冇諗過 solder 有定冇,如果 冇就係你一個 blank,如果有,有冇正反考慮,有冇啲咩嘢要整落去 呢?」咁,可能係冇嘅完全係,咁就冇,係咪?
- 答: 係呀,我可以--即係我諗我可以搵多少少資料,就大概籠統可以記憶 所及,就係點解要有呢個改動,因為我哋使用嗰隻 UPVC lined 嘅 galvanized iron pipe, 喺業界真係十分不普遍,即係除咗我哋 係一個大戶去用之外,似乎坊間係...

問: 冇人用。

- 答: 係冇人用。咁我亦都睇住個大勢所趨,咁既然成個大勢都係咁,咁自 己都應該改變我哋個 practice,就順應嗰個大勢,就用番銅喉。再 加埋就係好多用--好多即係啲住戶,佢入伙之後,如果佢要改動啲喉 管,佢就搵出面嗰啲坊間嘅師傅,個個都係用銅喉,咁我諗而家我就 係睇番就係成個業界其實用銅喉嘅情況係十分普遍,反而我哋自己就 孤芳自賞,就用嗰隻 UPVC lined 嘅 GI pipe,就似乎冇乜嘢人, 冇乜嘢第二啲人係用,咁就順應個民情,或者個大勢所趨就改動。咁 我諗呢一個我記憶所及,就係咁上下嘅一個 feedback 過程,令到我 哋去改。咁但係有冇文獻特別寫,過程中間大家點樣商討,咁可能真 係要搵多啲時間要去搵啲資料。
- 問:我明。即係剛才你畀嘅例子就係個 driving force,即係背後點解 要改,原來就係因為咁樣,可能有一啲嘅 paper trail。但係比較 有興趣嘅,我哋就係決定咗改之後,或者決定緊改嘅時候,譬如話有 冇考慮過安全方面嘅問題。有可能你搵出嚟嘅文件其實係冇㗎,因為 大家都覺得係即係呢樣嘢其實已經係 tried and tested,即係佢 毋需要特別講,可能係冇,個答案係,fair enough,咁就冇,咁 但係起碼就搵咗先,我哋想知道。或者有冇人特登話要坐低,「我哋 研究下安全問題先」,可能學你話齋,可能行內根本大家都覺得都安 全,「講乜嘢吖,冇問題嘅」,可能係咁,fair enough,起碼我 哋想知道先。

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答:不如我都可以口述埋。

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- 答:其實我都嘗試過唦呢個資料,即係 trace下「點解我哋咁樣寫落去, 特別係講即係 soldering 或者 lead-free 咁 specific 嘅呢?」 咁,咁我哋搵過,真係搵唔到一啲 physical record 係點解。即係 我哋搵到嘅就係喺個即係 BS 嗰個 1254 嗰度裏面個 table,就的確 喺個 footnote 嗰度寫咗係嗰個即係關於 soldering 嗰個物料,咁 佢就喺嗰度 dig up 出嚟,就係我問啲同事就係咁上下嘅過程。咁我 都嘗試過去唦有冇紀錄,咁如果大家要我哋再去唦,我可以嘗試再唦 多一次出嚟,不過我哋 initially 去搵,係搵唔到呢一個點解會咁 樣嘅做法,或者係當時係咪 aware of 呢個 risk,似乎就唔係。
 - 問:Okay,okay。盡量試下搵,即係尤其是...
 - 答:我盡量再搵,但係就即係我哋已經曾經嘗試過自己都去搵呢一個紀 錄。
 - 問:我明。即係 not so much about 點解要改個 clause,而係改個 clause 之後嘅我哋叫一啲 knock-on effect,即係會唔會影響到 你哋 draft 嗰個 form 或者即係加咗啲 item。我明,即係有陣時可 能話如果呢度冇,就肯定係冇加到,但係中間個 thought process 有冇...
 - 答: 係, 或者大家都想知道有方曾經傾過, 而真係...
 - 問:如果冇就冇,係咪,即係。
 - 答:據我哋初步嘅理解,問啲同事同埋唦埋紀錄,正確地講應該係冇,因 為當年大家亦都真係唔 aware of 呢一個 risk。
 - 問:Okay。咁麻煩你再啲一啲先,因為而家我講係好原則性咁同你講,叫 你搵一搵。
 - 答:係,咁我哋都曾經嘗試過,自己都去即係尋根究底,不過係未成功。
- 問:好,好,唔該。咁我想同你而家去即係我哋 move on 去講另外一個 課題,就係你睇睇嗰個 Task Force,應該係房署自己嗰個 Task Force 嗰個報告,就係 A1,691頁。3.3.2 段,就係 691。佢裏面 就講到有一個現象,我哋唔係講緊啲焊料,我哋就講緊-- sorry, 呢個係水務署嗰個 Task Force。
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答:水務署,係。

問:我講錯咗,水務署。我呢個唔係講緊啲焊料,呢個係講緊另外一啲嘢, 佢個標題就叫做"non-compliance with BS",即係與英國標準不 符。佢就話有啲閥門,valves 係閥門,係咪,叫做?valves 係閥 門吖嘛?

答:係。

- 問:同埋一啲水喉,就即係拆咗出嚟之後去驗,就發現唔係入畀水務監督 G Image was a form 裏面嗰啲閥門同埋水喉嚟。咁雖然佢哋係屬 於 approved list 裏面嗰啲即係我諗係牌子或者種類,但係總之就 Н 係之前入紙唔係寫嗰樣嘢。咁同埋佢就話驗咗呢一啲攞咗出嚟嘅水喉 同埋閥門之後,就發現原來佢裏面係總之就唔符,即係對於鉛嗰個要 求佢係超咗,見到嘛?係"Did not comply with the BS requirement in respect of the lead contents of 4-6 per cent for the copper alloy, 0.5-2.5 per cent for the copper alloy for taps."咁樣,即係總之係超咗標嘅鉛嘅成分。 K 呢個報告就話雖然呢個水喉同埋閥門有呢一個咁樣嘅現象,就係個排 --即係嗰個種類係唔同咗,同埋嗰個含鉛量係超咗標,不過佢用一啲 L 嘅分析,分析過之後,佢用嗰啲叫做改數分析,你都知道,isotropic analysis,就發現佢裏面含嗰啲鉛就唔係水裏面發現嗰種鉛,所以 Μ 食水含鉛呢件事故就唔關呢個水喉同埋呢個閥門裏面嗰啲鉛嘅事 情。呢一度我哋嘅專家證人佢哋會自己去獨立地去審議水務署佢呢個 Ν 報告嗰個 modeling 嗰啲嘢,但係咁我想問一問,就係你個人諗唔諗 到乜嘢嘅理由,就係會係呢個寫入去 WWO 嗰個 form 46 裏面 approve 0 咗嘅嘢?即係你知 WWO 46 嗰度有個表要寫嘢落去,尋日都講到,寫 一拃嘢落去, 呢一種嘅水龍頭同實際用嘅係唔同。咁呢一個房署嘅人 員有冇任何嘅 role to play,有冇身分喺呢樣嘢上面? Р
 - 答:不如講一講一般嘅流程,...
 - 問: 係呀, 我就想知道。
 - 答: 嗰個流程 WWO 46 最初入嗰張 form 嘅時候係喺合約開工有幾耐 嘅事,咁一般嗰陣時候,其實即係即使工程師都未或者係未完全係正 式所謂過晒一個批辦嗰個階段,咁但係嗰張 form 入咗去先。跟住如 果係個承建商要提交一啲物料,...
 - 問:對唔住,停一停先。你話係即係未開始--你話係未開始做嘅時候已經 入咗去?

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- 答: 唔係,係喺合約,即係嗰個合約開工冇幾耐嘅時候,就填咗一張 form,一般嚟講就個 licensed plumber 填咗之後,就畀我哋嘅同 事,我哋嘅團隊可以係則師或者工程師都得,咁佢就會再審批,跟住 就簽名。咁但係...
 - 問: 呢個係起樓好早期?
- 答:係嘞,即係 contract commencement 有幾耐。
 - 問:因為通常喉管就最屘先整。
 - 答:咁但係嗰陣時其實批辦嗰個過程,可能啱啱起步,係未批完,咁所以 通常佢哋簽嗰張 form 嘅時候,如果我啲同事簽嘅時候,其實嗰陣時 佢哋仲係可能批辦嘅過程係啱啱開始或者正在進行中。咁一般嚟講, 就係水務署同埋個 licensed plumber 都有一個所謂即係慣咗嘅 practice,就係 licensed plumber 可以繼續一路將嗰啲物料嗰 個清單,當佢有更改嘅時候,就可以水務署度再做番一個修訂。咁呢 個就應該水務署都有 service letters 提過呢點,係可以咁做,直 至到佢即係最後報 completion 之前,就要有一個 update 嘅 list。咁呢一個...
 - 問: 佢係要正式改個 WWO 46, 即係要文件都應該改番?
 - 答: 佢應該改個 annex,咁嗰部分就係由個 licensed plumber 就係同 水務署嗰邊再可以 update 番個 list,咁...
 - 問:我明,咁點都要有啲文件要改咗㗎,係咪?如果真係後來改咗。即係 話 day one 我寫 X 牌,後來我發現整下整下,我要用 Y 牌,咁我點 都要喺個 annex 扠咗個 X,加番個 Y 落去?
 - 答:呢個工作就會係個 licensed plumber 會係佢即係跟進嘅工作。咁 但係喺嗰個我哋啲同事個團隊,佢批嘅物料嘅時候,佢一定係要經過 嗰個批評嘅過程,就要確保佢哋係符合水務署嘅要求。咁所以佢批而 就用嘅物料,就必定符合 WWO 46 裏面有一個 category,有幾種, 可以有 BS Kitemark,可以水務署批文等等,嗰一啲要求。咁佢一 定要 check 到佢係符合嗰一啲 approval 嘅 criteria,先至可以 批准嗰隻物料喺地盤嗰度用。咁但係與此同時,就係假如佢批呢隻物 料,係同 WWO 46 個 annex 裏面嘅物料有出入,咁嗰個 licensed plumber 就應該上水務署就改番嗰一個紀錄,或者改番嗰一個清單。
 - 問: 係嘞,因為我嘅腦袋中就係即係用呢啲物料,同水喉有關嘅物料,

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potentially 就房署方面要 approve?

答:係。

- 問:頭先我哋講話你開工前,你要 approve,就算合約唔需要,啲人都會 畀你 approve,咁呢樣野。所以 housing 自己會有一套嘅 approval,我 approve 你用某種嘅水龍頭咁。WWO 46 又要寫個 annex,又要畀水務署又要批,咁所以我想知道即係兩者之間就應該 到頭來,大家個文件度應該 show 到都係 housing 批你用嘅水龍頭 就同水務署最終版本,佢紀錄批你用嗰個水龍頭都應該一樣,即係我 就 in my simple mind,即係理論上係咁樣諗嘅應該?
 - 答:係,呢點都係正確,係,係。
- 問:咁先後嘅次序,頭先你所講,就係可能成橦樓開工有幾耐,都未有耐 要鋪喉嘅時候,就先入住一份 WWO 46 先,可能嗰個係一個好初步嘅 idea,「我諗住大家傾過,不如用 X 呢個牌子、呢個型號或者呢一 款喇」咁。咁就寫咗先,因為開頭最需要嘅就係一個 intention to commence work,其實 46 係,係咪?
- 答:係。嗰個係"materials intended to be used"。
 - 問: 係, intended to be used 咁樣,我打算用呢樣嘢。咁好嘞,時 序上就係可能開頭嘅時候就有呢樣嘢,咁畀 housing 去 approve 用 邊種喉,喺呢個時序上係後來先發生,係咪?
 - 答:一般嚟講都會係,但係即係嗰段時間可能有一某隻料都可能批緊或者 批咗,但係另外有好多隻都仲係未批,或者未係提交都唔定。即係嗰 個時序就係呢一個 submit WWO 46 嗰個時間係比較早,咁一般嚟講, 就肯定未係全部批晒啲物料。
 - 問:Okay。咁總之入 WWO 46 嘅時候係比較早,咁後來佢哋塵埃落定,佢 哋打定主意,我真係而家決定要用 X、Y、Z 呢三個牌子,咁佢就正式 就係同 housing 攞咗 approval,畀埋個貨辦 housing 睇,housing 就 approve 咗話「好喇,你可以用 X、Y、Z 喇」。
 - 答:咁 housing 就會跟番住水務署嗰啲 criteria,然後先至去審批, 所以審批嘅過程一定 check 到佢係符合水務署嘅要求。
 - 問:好。咁佢批咗 X、Y、Z 出嚟,即係房署覺得 X、Y、Z 呢三個牌子嘅 水龍頭係會過到 water 嗰關,咁我就批出嚟?

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問:咁但係批咗出嚟,可能同 day one WWO 46 嗰張紙上面嗰個 intended to be used 嗰啲係唔同,咁就要個 licensed plumber 就走去同 水務署講話「喂,而家我哋最終塵埃落定係用 X、Y、Z 呢三個牌子喎, 唔係 day one 同你講嗰個 A、B、C 喎,唔該改番個 annex 嘞」咁, 係咪咁樣個時序應該就係?

- 問:Okay。如果係咁嘅話,頭先我哋睇番嗰個 Task Force 裏面 3.3.2, 佢話實際上搵出嚟嗰個龍頭,拆出嚟嗰個閥門同埋嗰個水龍頭去驗, 發覺原來唔係 WWO 46 裏面所寫 intended to be used 嗰啲龍頭 喎咁,咁你以你睇下嗰個,點解會有呢個事情發生咗?即係係咪基本 上就係可能房署可能審批咗,但係有人忘記咗或者冇同呢個水務署改 番呢會係?
- 答:據我哋嘅認知,應該係呢個情況,即係就個 licensed plumber 冇 將佢去水務署嗰度,將呢個 annex update 番。
- 問:Okay。我哋當然我哋會問番當時即係負責嘅同事,因為嗰兩個 Chief 都 name 咗,咁我哋會問番個 chief architect 或者個 chief building services engineer, 佢哋會清楚啲, 係咪應該?
- 答: 佢哋每一個項目嘅同事就手頭上應該有佢嘅紀錄,會比較清楚少少當 時嘅時間係點。
- 問:得,好,得。咁但係佢後來就發現,實際用嗰兩隻龍頭同埋閥門,雖 然係 on the directory of pipes and fittings accepted by 水務監督,你睇番 3.3.2,但係都係超咗標個喎,裏面嘅鉛量。 咁你--我知道你唔係水務署,你嘅意見,點解會有咁嘅事情發生,即 係水務署 list 咗 A、B、C 牌,咁你就照批畀 A、B、C 牌,但係驗出 嚟又超咗個喎,點解會有呢個事情發生,你諗?
- 答: 呢一個就可以話兩個層次,第一個層次就係話 WWO 46 裏面個 annex 用嘅物料,同最後我哋喺地盤嘅物料有分別,呢個第一個問題喺呢 度。第二個問題就係即使嗰啲物料係有水務署嘅所謂 pre-approved list,但係佢嗰啲 alloy 合金嘅含鉛量都係超標。咁第二個問題其 實就係同第一個係冇必然嘅關係,因為有一啲係即使佢同 WWO 46 annex 2 嘅物料係一樣,驗出嚟佢...

答:係,呢個係正確應該係。

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- B B 問:都可以超標? С С 答: ...alloy 都係會超標, 咁所以就唔係兩個有直接必然嘅關係。 D D 問:我明。 Е Е 答: 係嘞, 咁... F F 問:即係頭先嗰個例子,即係話個 licensed plumber,可能佢走去同 個水務署講話「唔該,我想 amend 番我個 annex,將佢裏面嗰啲水 G G 龍頭變成最終我哋落墨用嗰三款, which is on your list, , 咁 就改咗。咁第一個問題就解決咗,大家就嗰個 document reflects Η Η the actual taps used。第二個問題仲存在,就係我用隻水務署 批我用嗰三種 on their list 嘅都含鉛超標喎咁。 Ι Ι 答: 係, 正確, 即係變咗我... J J 問:咁呢個問題你有咩嘢睇法? Κ K 答:呢個第二個問題嚟,即係同第一個問題係有必然關係。 L L 問:我明。 Μ Μ 答:咁呢個問題就係即係我只可以話我哋睇佢嗰個水務署當年嘅批文,咁 我哋就會批個承建商可以用呢隻物料,但係跟住落嚟嗰個即係生產過 Ν 程嗰個品質嘅監控嗰一部分,有可能係某一個批次出現一啲 Ν deviation,即係呢個我就可以就係從一個即係 layman 或者抽離啲 嘅角度去睇呢一件事。 0 0 問:即係嗰個牌子可能退步咗,或者可能係冒牌,或者 day one 決定將 Р Р 呢個牌子放入去個 approval list 嘅時候就可能睇漏眼,即係好多 原因嘅可能? Q Q 答:我諗原因就即係好多種,咁但係就再講番我哋自己嗰個監控過程,咁 R R 我哋即使係將有一啲所謂 leak valves 或者各樣嘢,如果即使我哋 做一個 testing,都係做一個 performance 嘅 test,未必會就做 S S --就唔會做一個將佢嗰個合金成分再去分析嗰個 chemical analysis 嘅 test 嘅,咁我諗我哋都要講一講即係一般我諗業界常 Т Т 規運作都會係有咁嘅流程,就除非特別有原因,你話懷疑邊一隻或者 邊一類嘅物料嘅合金成分係唔啱 BS,如果唔係,一般都會相信個生產 U
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商就會按照佢當時嗰個批核嗰啲物料就去生產嘅。

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- 問:所以譬如話 day one 呢幾隻嘢, 佢後來就判出嚟--驗出嚟就係含鉛 超咗標, 但係 day one 係房署 approve 咗嘅, 因為佢屬於水務署嗰 個 list 裏面佢 approve 過嘅牌子。
- 答:正確。
- 問: 咁房署喺 approve 呢幾個龍頭嘅時候, 佢就按水務署嘅本旨辦事, 佢就冇真係獨立地真係走去刮啲嘢出嚟驗下鉛,就冇呢個步驟嘅,化 學分析呢個步驟係冇嘅, 係咪呀?

答:正確。

- 答:或者我講一講,呢條問題,其實"FRY"佢係有兩款 solder material,有一款係 lead free,有一款就唔係 lead free 嘅。
- 問:我明, 佢呢度就大大隻字 lead free 喋嘛, 佢尋日我睇過啲相係。
- 答:係,但係因為"FRY"佢有兩款,即係一款就係 lead free,一款就 唔係 lead free,咁兩款其實個樣子都係一卷,不過係嗰個 label 就係唔同顏色咁解嘅,咁所以就係唔係一定係買"FRY"嘅就係 lead free嘅。
 - 問:我知,我知,即係"FRY"嘅無鉛版本咁。
 - 答:係。
 - 問:Okay,咁即係你就係信基本上就話佢話「我用"FRY"嘅無鉛版本。」 咁大家行內裏面造成"FRY"無鉛就係信㗎喇,咁就?
 - 答:係,因為呢一個--即係呢一個 solder material 係行內好普遍,...
- 問:我明。
 - 答:又好慣用,又好常用,直頭一講,就通行都知嘅。
- 問:我明,我明,即係佢用〝FRY″嘅牌子嚟到話明係〝FRY″無鉛,咁大家
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就有信心知道「你話得係"FRY"無鉛,就係。」佢走去搵個冇牌嘅, 尤其走咗去五金舖買番嚟嘅,畀一卷嘢你,你會點呢?你會唔會 test 呢?

- 答:如果你話現在,就當然係會喇,但係如果你話以即係當時就大家都唔 知道呢一個係一個問題或者係一個 risk 嘅,咁當然當其時我哋同事 亦都即係冇乜咁嘅所調 awareness 會咁樣去 check 佢呢一個咁嘅 item。
- 問:咁即係話當時如果有人嚟,佢又唔係用"FRY"呢個大家即係聞名嘅一個牌子...
- 答:或者佢用"FRY",買咗一隻有鉛嘅,我哋都唔知嘅,即係...
- 問:哦,okay,或者佢用一個冇包裝紙嘅,去鴨寮街或者五金舖買咗一卷 嘢嚟畀你,咁佢就話「我話畀你聽我打算用呢隻,我話係無鉛嘅。」 咁就接受㗎喇,當年?
- 答:當年,我諗批閱辦,因為而家 from hindsight,因為我哋真係有 叫啲同事去 check 佢用緊嗰卷...

問:得,明,明。

- 答:...或者嗰一條係咪有鉛,而當其時我哋更加唔知道有一啲係所謂用 X ray fluorescent 嘅 check,或者用一啲 lead check 嘅 swap 可以 check 到,咁所以喺冇嗰個 awareness,亦都冇嗰個相應嘅配 套底下,咁其實我哋嘅同事,就係我哋冇要求佢咁樣做呢--進行呢啲 測試嘅。
- 問:得,明白。最後,我問你一個問題,就係有關啲預設嘅配件, prefabricated part,咁我麻煩你就係睇一睇 B3.1,B3.1, 1169,1169,呢個就係房委會嗰個 interim finding,其實好多 finding 嘅,即係 final 嗰個報告又有,但係我哋睇一睇你哋個 interim finding,因為我想搵嘅係一個事實啫,我求其攞呢一份 就得唻喇,就第 27 段,(a)嗰度佢就話食水過--含鉛超標嘅事件 就唔應該係有關你用一啲預設組件,即係廚房或者廁所預設組件,即 係唔關事嘅,佢話除咗啟晴邨之外,其他嘅地方,廚房同埋浴室就唔 用預設組件嘅,就真係啲水喉匠就喺呢個--實際喺個 unit 嗰度即係 安裝嗰啲喉管嘅。咁佢就話就算係預設水喉嘅組件,即係喺廚房或者 浴室度用預設組件,都只不過係喺啟晴邨嗰度係作為一個試驗計劃嗰 度去做嘅啫,咁而喺啟晴邨嗰度就七個即係食水含鉛嘅單位裏面就得

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問一問嘅,係即係我諗係喺監管方面,就係如果預設組件,咁嗰啲預 D D 設嘅組件係喺香港以外嘅地方生產, 喺內地造㗎嘛? Ε Е 答: 呢一個生產過程係喺內地嘅。 F F 問: 喺內地, 咁即係話連嗰啲水喉嘅接駁都會喺內地做嘅? 答:水喉接駁喺嗰個 prefabricated unit 裏面嗰啲就會係,但係有好 G G 多水喉嘅接駁其實就唔會喺嗰啲 unit 裏面嘅,有啲喺出面。 Н Η 問:就成嚿嘢嚟咗之後,就喺外面駁,... Ι Ι 答: 再駁。 J 問:...但係 within 嗰個預設組件入面嗰啲水喉接駁就會喺內地嘅時候 J 整, 係咪呀? Κ K 答:正確嘅。 L L 問:咁做嗰個人就唔係持牌水喉匠嚟? Μ Μ 答: 持牌水喉匠, 一般嚟講, 就像話佢可以容許佢係有一啲 supervisory 嘅角色,而係有一啲 qualify 嘅 workers,就係同佢一齊去做呢個 Ν 工作。 Ν 問:即係基本上,我哋撇除持牌水喉匠,根據第15條條例嗰個正確演繹, 0 0 係咪一定要自己一個人落手落腳做,因為如果係法例正確嘅演繹,係 要求佢一個人落手落腳做嘅話,即係以往嘅理解完全錯嘅話,就無論 Р Р 你係香港工人、大陸工人都唔得嘅,okay。 Q Q 答:係。 R R 問:但係即係就算我當你係可以有個 supervisory role,即係你嘅意 思就係呢個持牌水喉匠,你就 expect 佢係一個香港嘅林德森或者伍 S 克明或者佢哋, 佢哋--即係你呢個就 expect 佢哋可以喺香港就對一 S 啲内地嘅工人就即係作出呢個 supervisory 嘅功用, 係咪呀? Т Т 答: 呢個一般嚟講, 就係佢自己都可以上去即係一啲生產嘅場地嗰度... U U 問: 睇住佢做? V V - 67 -Transcript by DTI Corporation Asia, Limited

一個係牽涉到一個廚房係有預設嘅組件嘅咁樣。關唔關預設組件事,

呢個我哋遲啲可能我哋嘅專家會慢慢去了解,但係我有一個問題就想

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В		В
С	答:都呢一個一般嚟講,嗰個就係生產同埋嗰個監控嘅過程都可以有咁嘅 expectation 嘅。	С
D	問:唔,okay。但係你真係覺得佢真係會走上去睇住佢哋做?	D
Е	答:呢一個就要問番個總承建商佢點樣去管理佢嗰個生產線。	E
F	問:但係 prefabricated unit 係咪嗰個 main contract 容許㗎,講 明嘅,係咪呀?	F
G	答:全部都一定係個	G
Н	問:講明㗎嘛?	н
Ι	答:係,全部都係總承建商去負責嘅,即係不論嗰啲生產嘅產地係喺香港 地盤現場,抑或喺香港地盤以外,都係由個總承建商係負責嘅。	Ι
J K	問:但係業內好似有個感覺就話「Okay,嗱,我唔理你,你孭飛,簽紙就 得㗎喇。」咁,係咪咁嘅呢,其實?個 licensed plumber,「你 實際有方上去唔緊要,最緊要要你個名。」	J K
L	答: 呢一點,我就唔敢代個水喉匠去答嘅,但係一般嚟講,如果簽得名嘅 話,佢都應該係有一個即係管理嘅角色同埋個責任喺度嘅。	L
M N	問:我睇一睇林德森講乜,你睇一睇 bundle Q,唔該,第17頁,呢個 就係佢有一個會面嘅時候嘅紀錄嚟嘅,佢就話第3段,就林先生確	M N
0	認有關嘅水務表格 WWO 47,林德森先生就係負責係做啟晴邨同埋葵 聯邨,佢就話有關嘅水務表格 WWO 46 同埋相關嘅材料將會係由佢簽 署及遞交,但據佢記憶所及,佢就未能確定實際安裝喺啟晴邨同葵聯	0
Р	邨嘅水喉配件是否有跟足該份申報表嘅申報內容而安裝。即係佢都唔 sure WWO 46裏面寫嘅嘢係唔係即係實在如果實際安裝嘅嘢。佢	Р
Q	就話「林先生稱就啟晴邨及葵聯邨所使用嘅水喉配件嘅更改,作為負 責該項目嘅水喉匠的他曾向該工程項目的駐地盤屋宇裝備工程師」,	Q
R	即係 Building Chief Building Service Engineer,係 咪呀,呢個係?	R
S	答:呢個係如果係個呢個名應該係 Building Services Engineer。	S
Т	問:唔係 chief ?	Т
U	答:唔係 chief。	U

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- C 問:唔係 chief,okay。「提出需向本署申報」,即係向水務署申報,「惟該工程項目的駐地盤屋字裝備工程師曾向他表示無須修改及再次遞交有關的水務表格 WWO 第一及第二部分,由房署與署方的相關人員溝通即可,故林先生並無向本署遞交有關更改水喉配件的水務表格。」即係話房署有人同佢講話「你唔使 amend 嗰份 annex to 嗰個 WWO 46 嘅。」佢係咁講,你見到嘛?
 - 答:我第一次見到。
 - 問:好,你今日見到原來林德森咁講話其實房署人叫佢唔使改嘅,你有咩 嘢反應?
 - 答:我就咁睇落去,覺得呢一件--即係呢一個--呢一句句子有少少係匪夷 所思,因為一般嚟講,照計,我哋嘅同事未必會咁樣同林先生去叫佢 唔做某一啲嘅工作嘅。
 - 殷先生:主席,我嘅指示就係呢一段入面所講話該工程項目嘅駐地盤屋字 裝備工程師未必係指房屋署嘅,嗰個 contractor,嗰個承建商自己 有一個係吻合呢一個咁樣嘅名稱嘅人嘅。
 - 石先生:Description,哦,得。咁遲啲我哋要逐個問,因為有兩個人 都叫做 Building Service Engineer,即係主席你知道 Housing 都會有一個 Chief Building Service Engineer。
 - 主席:唔係,跟住嗰句話「由房署與」...
 - 石先生:「處方」, 係喇, 「由房署與處方」吖嘛, 咁即係好似即係個 context 就係由房署...
 - 主席:由房署嘅屋宇嗰--即係屋...

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- 答:不如我咁講一講,其實我哋合約裏面有要求個總承建商係聘用一個 Building Service Engineer,去負責佢地盤統籌一啲 building services 嘅一啲工作嘅,咁第一點。咁第二點,一般嚟講,我哋地 盤都未必有一個所謂駐地盤嘅屋字裝備工程師,即係 Resident Building Service Engineer,喺呢一個咁嘅合約裏面,我哋係 冇 呢 個 咁 嘅 人 員 嘅 , 個 project 嘅 Building Service
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В			В
С		Engineers ,就並非或者冇一個係所謂駐地盤嘅 Building Service Engineer。	С
D	問:	個 project 就有個 Chief Building Service Engineer,但係	D
Ε		嗰個就唔係 on site 喺度即係	E
F	答:	佢有 Chief,下面有 Senior,有 Project 嘅 Building Service Engineer,但係我哋冇咁嘅 luxury 有一個	F
G	問:	得。	G
н	答:	係駐地盤嘅 Building Service 嘅 Engineer。	н
I	問:	Station 喺度嘅,okay。	Ι
•	答:	係喇。	I
J	問:	即係如果係咁嘅話,就我哋 China Construction 都會問下佢有冇	J
К		嘅,遲啲就,因為呢個係 China Construction 嘅,中國建築,okay。 已經忘記細節咁諸如此類。Okay,咁到最後就係有兩樣,就係 follow	K
L		up 番尋日即係想請你幫忙嘅,第一,就係我想問你,就係10110W 嗰個架構,即係關於長期 update 嗰個 manual,因為尋日你同我哋	L
Μ		講就係嗰張 form,37641,係 part of 一個 manual 嚟㗎嘛,咁我 就話裏面有冇一個架構、一個 structure 可以畀到我哋睇你哋內部。	Μ
Ν	答:	37641 係	Ν
0	問:	37641 係嗰張 form,37641,	0
Р	答:	Okay,得,得,見到。	Р
Q	問:	即係 form 6210,你記得嘛?	Q
D	答:	記得。	
R	問:	咁你有冇搵到即係相關嘅資料係關於即係你房署裏面嗰個架構,即	R
S		係究竟有冇邊啲同事、邊個部門即係負責去 update 嗰個 manual 嗰 個問題?	S
Т	答:	好我諗我即係講多少少個 story。	Т
U	問:	好。	U
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答:就首先就有呢啲 inspection form,都係因應個 specification 嘅要求,咁我哋就會有一個相應嘅 site inspection 嘅 procedure 嘅,咁而喺今朝我都提過,關於係 fresh water plumbing installation 嘅 specification,就包括兩個部分,一個就係個 泵房,同埋喺 pump room 裏面嘅裝置,另外一個就係 plumbing installation 係 outside 個 pump room,而喺個泵房裏面嗰個 specification 就屬於我哋有一個叫 FWP 嘅 specification,而 喺個泵房以外嘅就係喺 PLU1 同埋 PLU2 嗰兩個 specification 嘅,而喺負責呢一啲 specification 嘅同事,個團隊,Chief Building Service Engineer,我哋叫 CBSE2,個 team 就係負 責打理 FWP 同埋 PLU1 嗰一個 specifications,而 Chief Architect (Development and Standards)就係負責 PLU2 嗰部分嘅 specification 嘅,呢個就係大家個分工,咁就佢都係同 樣係遞屬同一個助理署長嘅。

> 咁任何呢啲改動,其實我哋有一啲即係部門裏面就有一個叫 Joint Technical Group Building Services,另外一個就係 Joint Material Group,咁就係由呢兩個--如果 PLU1 同埋係 FWP 嗰部分有任何改動嘅,就會係由呢一個 Joint Technical Group Building Services 就係負責,而另外一個 PLU2 嘅,就係由個 Joint Material Group 嘅同事就負責去睇嘅。咁呢一個平台或者 呢啲平台就係有我哋部門裏面新工程組嘅同事同埋就係物業管理同維 修 部 分 嘅 同 事 同 時 係 進 行 一 啲 review,就因 應 係 有 一 啲 performance feedback,同埋就係一啲最新嘅物料嘅發展,然後 加埋就係諮詢埋業界,然後先至再--甚至係規管部門,先作一啲改動 或者係 update 嘅。

另外就到到嗰啲 specification,佢要經過審批程序,都係部 門我哋有一個 Development and Construction Management Board 就去再即係參考、參閱,然後先至出嘅。

仲有,就係--呢個就係講嗰個大概情況,再講多少少嘢,就係喺 2010 年嘅時候,我哋請咗一個顧問,就幫我哋就再 review specification for 一啲係 Building Services 嘅 installations,咁就包括埋頭先我提到嘅 fire service and water pump,即係 FWP 個 specification,同埋仲有 plumbing, 就係 PLU1 嘅 installation。咁 嗰 個 就係我 哋 就想我 哋 specification 可以與時並進,因為用咗咁多年,我哋就會有一個 review,咁而嗰一年,就我哋搵直情--唔係淨係自己做,仲聘用一 個係顧問嘅屋宇裝備嘅公司幫我哋去進行呢一個 review,同埋 cope

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with changes in international standards,因為知道就世 界上面有好多可能新嘅發展同改動,包埋 trade 同埋 professional practices , 就 因 住 即 係 可 以 話 與 時 並 進 , 根 據 最 新 嘅 technology, review 埋嘅, 呢個工作就喺 2013 年就完成咗, 而所 以話頭先講到最新嘅 spec.就喺 2014 年版本出現嘅。

> 咁但係喺呢一啲即係 review 嘅同時,我就講番就係呢張 form 6210,即係大家睇而家呢度係 3741 呢張 form,咁呢一張 form 其 實就係因應或者順應當年 2004 年嗰個 specification,就應運而 生嘅,因為 2004 年嗰陣時就有好多我哋嗰啲 review 之後,就擺咗 一個 clause 落去,就係寫到明,就有個叫做 on-site delivery verification,咁既然合約個規格有呢個要求,個 site inspection都要有呢一個 on-site verification,就係咁嘅意 思嘅。咁呢一個就係--即係呢一個就係我話所以係我哋地盤嗰個檢測 好多時都會係因應嗰個合約規格與時並進嘅時候因而發展嘅,咁呢個 form 就係 2005 年。

咁就一路就如果我哋話我哋收到如果有任何嘅警示令到我哋去改 動個 specification, 咁呢一啲 inspection forms 嘅内容都會 應運而生,就再改動,或者因應我哋喺 site practice 發現某啲物 料可能係 prompt to 某一啲嘅 incidents,我亦都會擺落去呢一個 咁嘅要求裏面嘅,咁呢個就係由地盤前線嘅 feedback,同埋就係我 哋有一啲係用家用咗之後個用戶嘅 feedback,同埋仲有就係業界裏 面係與時並進嘅要求,一併去改動。咁關於呢個 form 自己,就即係 我就再講番個 form, 頭先我提到 review 個 specification 就已 經係有兩位係即係 chief 嘅同事負責,咁去到呢個係叫做 DASM,即 係呢張 form 裏面嘅運作,咁呢一個 manual 就係叫--就係一個係 site inspection 嘅 manual 嚟嘅,咁其實我哋呢一啲 manual 就 每一年都有個 annual review 嘅,咁當然個 review 就唔係張張 form 每一版都有嘢要更改嘅,但係每一年都有一個 review,因應當 年嗰個 feedback, 就去 update 個 manual, 同埋有一啲--某一啲 嘅測試等等,可能都要與時並進嘅,咁呢個就係整體運作係咁。而係 負責嘅同事--呢一個 manual, 嗰個 review authority 就係 Chief Architect 嚟嘅,咁就係我話因住機構嘅改變,就會係可能有唔同 designation 嘅同事,就 review authority就 2002 年至 2012 年呢十年就係一個--個 post title 就係 Chief Architect 1, 2012 年就係 Chief Architect 4,2013 到現在就係 Chief Architect 5, 咁就因住我哋機構個改變, 就有唔同嘅 post 去負責, 而個 issuing authority 一向有一個即係適任嘅 Assistant Director 就去負責做一個 issuing authority, 咁呢個就係我哋

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 嗰個運作上面嘅 operation。但係即係成個 document,即係呢個 manual 裏面嘅改動就係集思廣益嘅,同埋係因應嗰個即係地盤或者 條業界不斷嘅發展,亦都係與時並進。而我哋有 record 都係每年都 有 review,咁一向以來,每一年都有些微嘅改動,就係睇下佢係改 邊一部分嘅工作。
 - 問:你剛才講嗰個 reviewing authority 嗰拃,譬如話 CA1、CA4、 CA5 就係即係呢個係 attach to 個 post 嘅,即係 whoever occupies the position of CA4,就係佢做喇?
 - 答:係,正確。
 - 問:因為呢啲調嚟調去㗎嘛,我哋知道係。
 - 答: 係, 但係佢下面係有一個團隊嘅, 因為我哋一向嘅工作或者運作就係 有分工, 有合作嘅, 就唔係佢自己一個人就即係自己做晒一份。
 - 問:得,得,得,得,得,明白。另外就係可能你已經即係解答埋我呢個 問題㗎喇,就係咁呢個我哋尋日講咗啲例子,就係關於即係 paint 嗰幾度,係點樣即係寫咗落去嘅。
 - 答: 係,我就係話因應個 specification,當年佢寫落去嘅時候,就即 係寫到明或者訂明咗佢要有咁嘅 requirement,咁跟住就喺個 form 度會 reflect 出嚟。
 - 問:因為--係,冇錯,因為我都睇過 FIN7,好厚嘅,FIN7,我哋睇一睇, 不如,FIN7,900頁--唔好,我哋由頭睇起喇一係,呢個就係--哦, 呢個啟德--呢個啟晴邨嚟嘅,okay。呢個啟晴邨嗰個 contract book 嘅其中一部分,因為成本嘢好厚嘅,你知道喇,嗰啲 contract, 咁我哋就抽咗即係有關嗰啲出嚟。呢個 FIN7 就係 proprietary suspended ceiling,有度係講 paint 嘅,佢嗰啲 requirement 就好多,你見到,你睇番譬如話 895 咁樣,佢呢度就講到有 Submission Requirement,呢度就係講佢如果要呈交一個 sample 畀房署去 approve 嘅時候,嗰啲 requirement 就係跟呢個 Submission Requirement,係咪咁解?
 - 答:係,正確。
 - 問:咁就有一大堆就 quality requirement 咁樣就到 896 咁樣,你跟 住睇喇, "quality and performance requirements are as follows",896,咁就有"Preliminary examination of paint"

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BC咁諸如此類, 呢度就係教就係當第一部分, 即係要房署去 approve

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答: 係, 正確。或者...

問: 呢個就係 part of the contract,其實即係個 contract 本身已 經話到明教你哋點做㗎喇,其實,係咪咁解呢?

嗰啲漆油嘅時候,就要跟呢一拃嘅 criteria 去 test, 係咪咁解?

- 答:通常佢呢個係 submission requirement,即係佢要畀到一啲 certificate,就係證明佢嗰個物料係 comply 嘅。
- 問:哦,即係佢未必一定要係畀房署,房署做呢啲 test 嘅,佢只要畀到 啲文件證明佢 fulfil 咗呢啲 test 已經得㗎喇?
- 答:通常係 document check,因為如果唔係,我哋啲物料咁多--即係 咁多...
- 問: 係喇, 佢畀桶漆油你, 你就攞番去咁樣驗, 就唔係咁做嘅?
- 答: 係, 咁我哋一定就係睇番佢嗰個 test certificates。
- 問:Okay,得。咁你跟住睇 897 嗰度,897 就係"On-site Delivery Verification",呢度就係個合約嘅規定,就係去到個地盤嗰度要 verify 嗰啲物料,就係用以下嘅方法去 verify?

答:正確嘅, 係喇。

問:咁所以譬如話 verification item 就一拃嘢,proprietary brand name、manufacturer's name 嗰啲就叫你用眼睇,睇下嗰個包裝 嘅資料係唔係符合 Approved sample,咁就中呢,咁就即係 tick, 譬如話 labelling,咁就 visual check 咁樣,即係個合約本身就 已經講到明呢啲 paint 係要 check 嘅,用呢啲嘅 check 法,咁所以 就順應地,喺頭先我哋睇嗰張 form 上面就有提及到譬如話有相關嘅 FIN7 嗰個 clause。

答:係。

問:其實即係話畀人聽,就話「嗱,呢度 paint 呢度呢,個合約就要你 check 嘅」...

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答:係。

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喇」咁, 係咪咁解呢?

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E	答:呢個係可以咁樣去理解嘅,係,但係呢個 on-site delivery check 即係話佢一定要即係 check 晒呢一啲 items up,佢呢一個就講到 明,就係"inform CM's representatives who may present to witness the verifications"。
F G	問:係,"inform Contract Manager's representatives who may present to witness the verifications",但係一定要㗎嘛, 根據你嘅 record form?
Н	答:正確嘅,係。
I	問:咁所以基本上就係合約裏面定下嗰個 on-site 嗰個 verification 都係靠肉眼或者係靠一啲文件上嘅證明?
K	答:係。
L	問:好,唔該。你等我睇下先。
Μ	石先生:我有第二啲問題。Sorry,我有第二啲問題。
Ν	主席:就邊位
0	陳先生:My Chairman, may I openly apply to ask questions of Ms Fung?
Р	主席:仲有冇其他律師想問問題,想問?除咗水務署之外,有冇其他律師 係想問問題,Mr McCoy,仲有冇其他律師想問問題?冇,仲有一、
Q	二、三、四、三個、咁不如我哋 take 一個十分鐘嘅 break 先,跟住 十分鐘之後,我哋再繼續。
R	
S	<u>下午3時28分聆訊押後</u>
Т	下午3時40分恢復聆訊
U	出席人士如前。
V	- 75 - Transcript by DTI Corporation Asia, Limited

問:...「你就攞番本合約,跟番個合約裏面叫你點 check,你就點 check

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С 主席:Mr Chan。 D Е 香港房屋委員會第二證人:馮宜萱女士(房屋署副署長(發展及建築)) 宣誓繼續作供 F 陳先生盤問 G 問:Ms Fung, I know it's been a long couple of days. Perhaps I can speed things up by first asking you this. Did Η you hear the oral testimony of Prof Cheung on Monday and Tuesday, or if not, did you have some opportunity Ι to read the transcript of his evidence? J 答:我聽過,但係我有睇過個 transcript,我聽過張主席嗰個答問嘅。 問: And is there anything, in terms of the evidence that K you heard, that you would disagree with or wish to bring up? L Μ 主席: 呢個問題太闊, 太... Ν 0 問: Ms Fung, you were asked some questions yesterday about the Housing Authority's lack of awareness as to certain Р lead-related risks and about the authority's risk awareness approach in general. Do you remember that? Q 答:我記得嘅。 R 問:I would like to ask you a few more questions in this S area, and let's see if we can perhaps add a bit more light and context to the matter. Let me start with the Housing Authority's approach specifically to the Т risk of non-compliance with the specifications which the Authority has included in its building contracts U and documents, since this really goes to the heart of

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В		В
С	matters. Am I right that, as a matter of practical reality, a given building contract that the Housing	C
D	Authority may have may involve dozens or indeed hundreds of specific requirements on design, technical	D
Е	or managerial matters?	Е
F	答:Can you please repeat the last part of your question?	F
G	問:Yes. Is it right that for the average or standard contract that the Authority will have in terms of its construction projects, the number of specifications	G
Н	that you will find in the contract would number in the dozens if not the hundreds?	Н
I	答:The specification I think is over 9,000.	Ι
J	問:Oh, in the thousands?	J
K	答:I think I've got it in	К
L	問:Over 2,000? 9,000 or 2,000? Anyway, it's in the thousands.	L
Μ	答:If I can refer to the paragraph. It's 9,000-something.	М
Ν	問:So in the thousands? I don't need a precise figure from you, but it's a high number. Isn't the reality	Ν
0		0
Р	答:Over 9,000 and about 280 refer related to the plumbing installations. I think it's a total of over 9,000 specifications and about 280 are relating to plumbing	Р
Q	installation.	Q
R	問:Yes. Now, the reality is that, in theory, any one of these stipulations could be breached by the contractor	R
S	of the	S
Т	主席:你可以用中文答又得,英文答又得,	Т
U	工庙、小可以用中文台文侍,英文台文侍,•••	U

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2015年11月5日 食水含鉛超標調查委員會 主席:...隨便你。 問:I'm sorry, yes, we should have raised that. Whatever language you are most comfortable in, Ms Fung, in answering in, please feel free to use that, although probably logistically it's helpful if you are consistent in the language that you use for your answers. 答:Sorry, please repeat your last question. Η 問:Yes, of course. So, of the 9,000-odd stipulations in total, of which I think you have told us there are nearly 300 relating to plumbing, from a risk perspective, in theory anyway, any one of these specifications might be breached or not followed by a contractor who's required under the contract to

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答:一般嚟講,我諗喺我哋風險管理,就唔係同嗰個 specification 數 目嘅多寡係而掛鈎嘅,主要原因,我睇番我哋都係一個係如果用喺一 個風險為本嘅角度去睇,就不論嗰一啲 specification 嘅要求係點 嘅情況,我哋都會要搵一啲方法去處理嘅,咁一般嚟講,就係如果睇 番嗰啲物料,我哋知道佢會係容易有問題出嘅、高風險嘅,就會有一 啲 measures 去處理, 咁而一啲比較相對地大家都感覺佢風險唔高 嘅,就照一般嘅常規去處理。

follow the specifications; is that right?

- 問: So, in other words, it's necessary, given the limited resources of the Authority, to base, really, its priorities on some risk management system or some risk management assessment; is that correct?
- 答: 呢點係正確嘅, 即係根據--一般嚟講, 就我哋嘅合約就將嗰個即係承 建嘅責任就係將佢係叫個承建商去負責嘅,咁喺我哋嚟講,就作為房 委會一個公營機構嘅業主,就派駐我哋嘅同事同埋一啲駐地盤嘅人員 就幫我哋手,所謂做一啲就係抽查嘅工作。
- 問: In relation to the lead incident that we are now inquiring as to, would you agree with this, that the

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would not do so?

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主席:都係太長。

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real question in relation to awareness is not whether the Authority or others in the industry should have generally known that lead can be harmful to health, or indeed that lead may end up in water through a number of different possible ways. I suggest to you that the real question as to risk is much more specific, namely: what was the risk that contractors within Hong Kong who were required by contract to use non-leaded solders 主席:我唔明你條問題,太長。 陳先生:I will break it down. I will break it into two 問: Do you agree that the real risk that the Housing Authority had to guard against in this case, in relation to the use of non-leaded solders, was the possibility of contractors not complying with the specific contractual specifications? In other words, having specifically specified in your contracts that non-leaded solders were not to be used, ... 問:...there would be a risk of non-compliance?

陳先生:I was thinking of doing it this way, Mr Chairman: if I put the proposition, I simply want to see whether U U the witness agrees with it.

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主席:太長,follow 唔到。

陳先生:Okay.

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問: Ms Fung, isn't the great risk, in relation to the contracts that the Housing Authority has, not that you have not included a specific clause as to non-leaded solder, but that they would simply not be followed in

practice?

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主席:對唔住,我可能係一個刑事嘅法官,太長,請再簡單啲。

主席:你個 proposition 太長,你可唔可以簡單啲?

陳先生:Yes.

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- 問:Why don't I approach it this way, Ms Fung: isn't it right that in relation to the construction industry in Hong Kong, which is very large and very active, before this lead incident, the Housing Authority had no knowledge of any incident in Hong Kong where a contractor had used a leaded solder when it was told to use a non-leaded one?
 - 答:主席,我諗我哋冇察覺過有咁嘅問題,咁關於個 risk,就嗰個 risk 就係 risk of occurrence of 呢啲-- of this non-lead-free solder,我哋係冇察覺過嘅。
- 問: I will ask you a few questions in a moment as to the process by which you select contractors for Housing Authority projects. But could I first ask you whether it's safe to assume that in the construction or before the construction of these 11 affected estates, there was a careful vetting process in relation to each of the contractors that were selected?
 - 答:呢一點條正確嘅,我哋有一個房委會嘅承建商名冊,佢哋一定要符合

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 C 一啲基本嘅要求,先至可以喺個名冊上面,包括係技術嘅要求,佢喺 香港嗰個工作過往嘅業職等等,同埋財務要求等等,咁係有一--佢有 一定嘅要求,包括埋仲有就係喺屋宇署,佢有一個係註冊嘅承建商, 同埋就佢亦都需要有各類唔同嘅 ISO 嘅要求,例如係品質管制,就係
 E ISO 9000,環境管理就 ISO 14000,仲有就係安全嘅管理 OHSAS 18000 等等,咁佢仲要有--而家就有--有埋 ISO 50001 嗰個能源管 理嘅要求,咁喺我哋嚟講,一般要求個承建商都要係有實力,同埋係 喺香港都有--起碼有三年嘅經驗嘅。

- 問: I pause for a moment because I have been requested to pause to allow the transcribers to hear the translation first before I continue. Ms Fung, do you recall questions put to you yesterday involving an incident of lead contamination in Scotland, and also similar matters in Wales and the United States? If you don't recall, that's perfectly fine.
 - 答:我以前係未睇過呢啲過案,係琴日係第一次睇嘅。
 - 問: In relation to foreign, overseas experience, may I ask you this. As far as the Housing Authority is concerned, does it actively consider or take into account guidelines given by the World Health Organization, the WHO?
 - 答:簡單回答,我哋係沒有嘅,因為我哋相信如果 WHO 有嗰啲關於世衛嘅 要求,就一般嚟講,會喺法例裏面都已經反應咗嗰個要求同埋各類嘅 檢測。
- 問: Now, in relation to the WHO -- and do tell me if this is not within your knowledge -- are you aware that part of the fundamental mandate of the organisation is to direct and co-ordinate international health measures and matters of international health awareness? Is this something familiar to you? If not, I will move on.

答:No.

U 問:That's fine.

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- 答: 呢一個唔係我哋一個即係工作職能嘅範圍,我哋所以--如果要即係睇 番一啲全部呢啲要求,都會係睇番相關香港嘅法例,然後去遵守,咁 喺遵守嘅同時,如果我哋覺得可以做得更加好、更加安全嘅,我哋可 以再做多一步,不過建基於都係香港法例、法規嘅。
- 問: You were taken earlier today, I believe, to a further new document to this inquiry. I believe it's in bundle A2 at page 888. It's a report of an Advisory Committee. Perhaps we can go to that document. It's bundle A2, page 888. To begin with, this is the press release in relation to the setting up of the Advisory Committee. Do you recall a series of questions being asked in relation to the work of this committee?
 - 答:(沒有可聽到的回答)
- J 問:Could you ask you please then to go to the report of the committee, which I believe is at bundle F1, page K 32. The first page of the report, just for context, starts at page 30 of the bundle, and I believe you were L taken specifically to paragraph 9 and the first sentence of that paragraph. That's page 32 of that Μ bundle. Paragraph 9, the first sentence, reads: "In the UK and [the United States of America], the most Ν common problem is the presence of lead in water since during their development stage, lead pipes and 0 lead-soldered copper pipes were widely used." Do you have that statement in front of you?
 - 答:Yes.
 - 問: Can you please tell the Commission whether, in your knowledge or experience as an architect, the use of lead pipes and indeed lead solders were, in certain countries, quite common place up until relatively recent times, the last few decades; is that correct?
 - 答:如果作為我一個喺房委會--房屋署做副署長嘅角色去睇呢一個文件嘅 內容,佢呢一句嘅意思就話畀人聽喺英國同埋係美國有某一啲問題, 但係呢一個問題似乎當年喺呢個會議裏面都冇人將佢 pick up 作為
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係一個喺香港需要面對嘅 issue。

- 問: In fact, if one is referring to the development stages of the United Kingdom and the USA, we would probably be looking quite a few years back. My question is, if the context is one of maintenance, the maintenance of buildings and the safety of water quality there, that is an entirely correct statement, to point out that, in the past, leaded solders had been used; is that correct?
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- 主席:我唔係好明你嘅意思,我嘅理解就係鉛嘅水喉就用咗幾百年,有鉛 嘅 solder,就好似唔係好 common 用嘅啫,如果我嘅理解係冇錯誤, 呢一句我諗個意思就係可能話喺起屋嘅時候就出現咗呢啲咁樣樣嘅 問題,因為可能幾--應該咁講,呢一、二百年起嘅屋就最初就可能都 用鉛嘅喉管,好喇,跟住去到譬如 1993,我哋見到美國 EPA 個報告, 2000 年蘇格蘭個報告,咁就發覺喺呢啲新造嘅屋裏面,當起呢啲咁 樣樣嘅銅喉接駁嘅時候,就發覺有人用鉛嘅 solder,我嘅理解就係 咁嘅意思,就唔係話乜嘢 maintenance、乜嘢嘢,基本上就係話「啊, historically 就有呢啲咁嘅 problem,以前就用鉛管,後來用銅 管,就有鉛嘅焊料」。係喇,就係咁樣樣嘅理解,係咪呀?
- 陳先生:Yes.
- 主席:即係簡單啲嚟講,因為唔好講到咁複雜。
 - 陳先生:Yes, Mr Chairman. I understand that.
- 問:Do you have any comments in relation to what has been stated at the first part of paragraph 9, from the perspective of the Housing Authority?
 - 答:第一,我第一次睇呢一句,今日先第一次睇,但係同埋係我就覺得當 年就冇人有意識到或者認為係銅喉或者銅喉嘅焊料係會含鉛係有問 題,因為如果唔係,可能呢一個諮詢委員會都當時可以將佢拎出嚟做 一個課題就去探討嘅,但係我睇完呢一段,由第一句去到最後嗰句, 似乎都冇再跟進呢一個課題嘅,咁所以我有理由相信就係當時呢一個

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- 委員會亦都冇將呢一個問題拎佢出嚟作為一個係 risk area 需要去 address 嘅,我就會咁樣去睇就呢一--去解讀呢一段第 9 段。
- 問: Thank you for that clarification. Now, Ms Fung, moving to a slightly different area. You were asked certain questions yesterday about a document issued by the Water Authority in August 2012, titled "Guidelines on Cleansing and disinfection of Fresh Water Inside Service"; do you recall that?
 - 答:(沒有可聽到的回答)
- 問: You may need to say "yes" rather than just nod. Now, if I understand your evidence correctly, yesterday, you seem to say that, in certifying that the materials used in the 11 affected estates conformed with the British Standards, you looked to the 2012 circular and the eight testing parameters in that circular. Do you recall that part of your evidence?
- L 答:Yes.
- M 問:First, may I just clarify with you: am I right in this, that of the 11 affected estates under inquiry, only three were completed after 2012, ie after the guidelines were issued?
 - 答:I think I have to check that, as a matter of fact.
 - 問: Perhaps I can assist with this. In relation to Kwai Luen Estate, I believe that was around 2014; Kai Ching, 2013; and Wing Cheong, that's 2013 as well. But certainly so far as we can see, the remainder of the estates were completed prior to 2012.
- s 答:That's correct.
 - 問: Thank you. Now, in relation to those estates and the certification process there, what then was the Housing Authority -- what did it take into account, in the absence of the 2012 guidelines?

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- 答:我諗全部嗰啲測試都係要因應當時 prevailing 嘅 requirements 去做一啲測試嘅。
- 問: Now, in relation to the estates that you said you referred to the 2012 guidelines for, you agree firstly that lead content was not one of the eight parameters set out in the guidelines in that circular; is that right?

- 問: Could you please explain, in that case, how the Η Authority considered that a set of parameters that did not include one which tested for lead would be of any help or relevance in verifying whether the solders which had been used in the Authority's developments contained lead? In other words, Ms Fung, in relation to the certification of non-lead solders for the Κ Housing Authority's developments, what, as far as the Authority is concerned, is the relevance of 2012 circular?
 - 答:我只可以用第二個方法去答,就係一向以來,我哋都有呢個所謂 risk awareness,就係關於有水中含鉛,而令我哋諗到可能係啲焊料含鉛 ITTI ITTIL ITTIL ITTIL ITTIL ITTIL ITTILIATION ITTILIATIO ILLIATION ITTILIATION ITTILIATIO ILLIATIO 足水務署嘅要求,做一啲適當嘅測試,即係一啲 test,咁當然喺唔 同時間可能就有唔同嘅要求,咁就應該係可以令到我哋嘅食水係合乎 一啲係衛生嘅要求嘅。
 - 問: Thank you very much. Now, in relation to an area which we touched upon earlier, the selection process of contractors, there's also a nominated subcontractor arrangement that the Authority sometimes enters into; is that correct?
 - 答:呢個係正確嘅,一般喺屋宇裝備嗰啲部分,我哋就會有一啲 nominated subcontracts.
 - 問:Is it correct that there is a nominated subcontractor arrangement for plumbing subcontractors for fire services construction, but not for inside service?

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答:正確。

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- 答:我哋係有一個消防水泵嘅指定分包商,但係食水安裝嗰部分,一般嚟 講,行內好多都係屬於係 domestic subcontracting,就通常包 括係咩嘢嘅,就係即係汲水、排水都係同埋一個分判嘅合約嘅,就唔 係淨係汲水,即係唔係淨係 water supply,而仲有就係就 drainage 都包埋一齊。
 - 問: And in general terms, how does the Housing Authority decide when to use a nominated subcontractor arrangement and when not to?
 - 答:一般嚟講,如果係一啲係主要嘅屋字裝備嘅工程,咁就由一啲--即係 有啲特別嘅法例規管,咁我哋就會將佢係擺落去一啲係指定嘅分包 商,咁就一般嚟講,就係所以我哋講到就譬如消防水泵就係其中一個 例子嚟㗎喇,另外就可能有譬如升降機、電力裝置等等。
 - 問: Is there a documented set of criteria that the Authority refers to for cases where a nominated subcontractor is considered appropriate? Is there a set of criteria that's been set down?
 - 答:係, 喺我哋房委會嘅名冊上面都有一啲係 list of contractors, 就當呢啲係指定分判商嗰啲名冊嘅,例如係消防水泵有一個系列,電 力裝置有一個系列,就升降機又有另外一個系列。
 - 問: Ms Fung, in your earlier evidence, you referred to periodic supervisions of ongoing construction that was carried out by staff of the Housing Authority. Could I ask how the frequency of those periodic supervisions was determined? How frequent were these supervisions and what considerations went into deciding the frequency?
 - 答:一般嚟講,我哋都係以一個即係風險為本嘅一個方法就去釐定或者係 去決定我哋嗰個 inspection 嘅 percentages 係幾多嘅,咁就每一 --我哋有一個標準,而每一個合約嗰個我哋指嘅同事,個 chief,即 係個 project manager 都可以有咁嘅權力或者有咁嘅機會去因應佢 嗰個 project specific 嘅 need 去再將佢再改動嘅。
 - 問: So, if I understand your evidence correctly, it all falls within the discretion of the managing parties or the Authority; there's no fixed protocols or

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parameters as far as frequency is concerned?

- 答:我哋有一啲--係,我哋有一啲基本--基準嘅 frequency 或者係 inspection 嘅 percentages,有一啲係 100 per cent,咁有啲 可能 10 per cent,有啲就係一個工場裏面,就 check 幾個--幾次 咁樣,咁係有一個基準,但係呢個基準同埋喺呢個框架底下,就係個 別嘅項目,佢可以有自己嘅微調或者有自己嘅調校,因應佢哋嗰個合 約嘅特質而定。
- 問: Are there any guidelines that one can refer to at least for a general indication as to the level of frequency or regularity that inspections would be made, general inspections, for a given project or a given type of system within a project?
 - 答: 呢啲係有嘅,有一啲基本指引,係有嘅。
- 問: So, in relation to plumbing systems, as far as you aware or as far as you recall, what guidance was given in relation to the frequency of inspections of plumbing works in particular?
- M 答: 呢一個頭先其實係今日睇過某一啲 exhibits 都有見過嗰一...

問:Per cent...

- 答:...都見過嗰個 page 嘅, percentages of inspection, 睇到 係譬如 PLU1、PLU2 嘅呢啲, 有邊一啲係 100 per cent, 有邊啲 係 10 per cent, 有啲就係--咁樣嘅分界嘅。
- 問: Perhaps you can assist by explaining how, if at all, this concept of percentages of inspection differs from frequency or the period of a particular inspection. You have referred to -- and we remember your evidence as to different percentages -- 10 per cent, 100 per cent. But is that the same thing as the frequency of inspection or supervision?
- 答:其實 frequency 或者 percentage 都係即係同嗰個即係所謂視察嘅 頻密係有關係嘅,咁所以就唔--所以我哋--喺我哋嚟講,要訂定嗰個 所謂 frequency,定個 percentage 就已經足夠㗎喇。

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- 問:And would you be able to give an answer as to how the С frequency of the Authority's inspection of, say, plumbing construction would compare to that of an D authorised person in a private project development and the frequency in which plumbing construction would be Е inspected in that private context? Is there any difference? F 答: 咁我哋就一般我哋嘅 practice 同業界大概係相約, 但係我哋冇做過 G 一個 direct 嘅 comparison,跟 private sector 嗰度。 問: Thank you. Η 答:我哋所即係訂定嘅 percentage 就係同我哋現在我哋睇嗰個風險同埋 Ι · 咽個人手同埋喺地盤嗰個運作, 係以嗰個做一個--即係一個比例去訂 定嘅。 J 問:Thank you. Now, Ms Fung, as a matter of your experience Κ in the Authority's construction work, would you agree that it's generally preferable, in terms of time or
 - L practicality, to ensure that there's compliance with building specifications during the time of actual M construction, rather than when construction is completed? N

主席:再講多一次,唔該。

陳先生:Yes. I would like to know from this witness whether she would agree that...

問: If you are going to focus your efforts and resources

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- in assuring contractual compliance, the best time to do it is when the plumbing system or whatever it is you are looking at is in the actual process of being built and not just afterwards?
 - 答:喺嗰個 in-process 嗰個 inspection 同埋喺佢嗰個最後完成嗰件

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- 工程嘅 inspection,我哋睇佢係同等重要嘅,唔會話一個就可以取 С 代另外一個,咁同埋特別係如果 performance base 或者 output base 嘅一啲 product 嘅話,咁最後個製成品係好緊要,同埋個 D performance,有啲譬如係水喉等等,你即使做完每一個接駁位, 最後佢要成個 installation 都要係完整,先可以測試嘅, 嗰啲更 Е 加係最後個 testing and commissioning 係尤其重要, 呢一類就 同一般即係 M&E 嗰啲好相似,就完之後,最後個測試,如果佢唔 pass F 嘅話,你就要去 check 番究竟邊個環節佢會出錯,咁就再去 rectify 嘅,咁當然個代價就會大過佢一早就 do it right first time, G 但係係兩套嗰個 checking 都係相輔相成,而唔可以話用一套係取代 另外一套。 Η
 - 問: Perhaps we can hone in a little bit on the question of leaded solders and their use and the checking of that. We have heard evidence about the different packaging that solders come in. Do you recall that? You have "FRY", you have other materials that the solders themselves come packed in. Do you agree that one simple way of checking, or verifying the content of the solder is by on-site visual inspection at the time when these materials are brought in, when they are still in their packaging or when they are being unpacked?
 - 答:現在嚟講,即係唔可以講番以前,因為以前我哋就真係呢個方一個 risk awareness,就方 check 嘅,咁現在嚟講,我哋唔淨只係目 測或者睇佢嗰個來貨單,而係佢應該仲有個 quarantine 嘅 system,即係物料到地盤,就有個檢測,check下佢,因為你--我 信佢個樣係啫,你唔知佢嗰個物料本身係唔係真係 complying 嘅, 就要再用一個 testing,就係將嗰批次嘅貨品再 check — check 佢 係咪真係無鉛,然之後先可以係 release for use 嘅,咁嗰個就唔 淨只係 on-site delivery check 咁簡單,嗰個我哋而家擺落去 嗰個更高規格,一個叫 quarantine checking,咁驗明佢係正貨, 係合晒規格,然後先可以 release for use by workers,跟住 workers 拎去邊度用,仲要有個 traceability,即係邊個工友拎 咗嗰啲物料喺邊一個地方去工作都要 traceable,日後就可以即係 追查番,如果有問題嘅,就知道邊一個環節或者邊一個人係會用咗一 啲係違規嘅物料。
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問:I understand what you say about these additional or

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- Cother checking measures. But in relation to the
simple method of going on site, looking at the
packaging of the solders, will you agree with me that
that is a very simple, effective way of conducting a
spot verification of what materials are being used?
 - 答:不如咁樣講,如果對一隻物料,原來佢係有高風險,擔心佢出錯嘅, 就咁靠目測嘅,如果係怕佢個物料嘅成分係唔合規格嘅,就算目測, 對完佢個樣,亦都會擔心嘅話,的確要用一啲儀器或者用一啲更加科 學嘅方法去測試,先至可以確保佢隻物料係達標嘅。
 - 問:All right. I hear what you say. Now, can I ask in relation to one particular paragraph of your witness statement, paragraph 78. It's page 37541 and I think internally page 39. Paragraph 78 of your witness statement. You say there there's no cost information, to your knowledge, in relation to the bills of quantities, but you refer to investigations where the Authority discovered that there is no significant cost savings in the use of soldering materials containing lead. Do you have that in front of you?
- M 答:Yes.
 - 問: Could you please elaborate a bit on what particular tests or investigative steps were actually taken for you to make this statement, in relation to the saving of time? What investigations were actually made by the Authority in relation to this?
 - 答: 呢一個 investigation 就係即係有呢件事件之後我哋去進行一啲調 查所得嘅,例如頭先今日都大家提過每戶或者每一伙就有慳咗幾多錢 嗰一個 document,同埋就喺市面再 check 一個價錢,因為之前喺 我哋合約裏面嘅 bills of quantities,就有呢一個 cost information,因為 soldering 就唔係一個獨立嘅一個 price item,佢只係係嗰啲銅喉裏面 built-in rates,就已經包埋嗰啲 soldering 嘅,咁所以我哋當時--我哋以前係睇唔到,亦都唔知道 佢落價係落幾多,所以亦都冇去追查究竟呢個合約或者一座樓佢需要 用幾多數量嘅物料嘅,即係呢一句嘅意思就係咁。
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- 問:Ms Fung, it may be my fault, but I'm not quite sure I got an answer to my question as to the investigative steps that were taken.
 - 答: 呢一個 investigation,就係話我哋分析就係佢嗰個--即係嗰個價 格,即係物料嘅價格,同埋仲有就係嗰個用--即係含鉛焊料同埋用無 鉛,用個 lead-free 嘅焊料,需要嗰個時間,即係我哋睇兩樣,因 為我哋之前係冇呢個 awareness,更加冇呢個 risk awareness, 咁我哋事後--因為有人話畀我哋聽,就係話即--個價格就分別唔大 嘅,甚至有啲人話分別好細嘅啫,...
- 問:Now...
 - 答:...不過就可以慳到時間,...

問:Yes.

- 答:...咁我哋就只可以就--我唔可以就咁靠聽業界講,我哋都喺地盤都 做過一啲測試,就係睇下佢做嘅時間係咪慳到呢?發現係慳唔到時間 嘅,咁但係價格方面亦都係相差亦都係唔大嘅,呢一段就係咁嘅意思 嘅。
- 問: Ms Fung, am I right in thinking that for a typical multi-storey building, such as one which the Authority would have, there could be up to 96,000 or 100,000 joints that would need to be soldered for that development, about 100,000 or 90,000 joints? Is that an accurate estimate, or if not, what would you suggest?
 - 答: 呢一個就視乎個設計而定, 不過一般嚟講, 係會有--每一座樓, 睇下 佢有幾多個單位, 咁隨時可以係過萬個 joint 嘅, 睇下佢有幾多個 單位, 每座樓, 同埋就係佢個設計係點樣樣。
- 問: Would you accept or agree with me that if there is even a very small time saving between types of solders for a particular joint, for a single joint, that could become a very significant saving if multiplied across this sort of scale, among the 100,000, 90,000, 80,000, joints in a building?

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- 答: 呢一個我哋就話即係如果大家知道有個後果係咁嚴重嘅,就唔應該睇 佢有冇慳到或者慳唔慳到錢或者時間,即使--佢慳嘅時間或者錢相對 其實就唔多嘅,即係如果由我哋後來佢嗰個調查就睇到佢慳嘅錢同埋 慳嘅時間亦都唔會係多嘅,但係佢如果用一啲唔合規格嘅物料,如果 一經畀我哋發現,要佢全部嘅喉管拆晒再去做嘅,嗰個代價係會更大 嘅,咁佢如果--即係如果知道後面有一啲關卡察覺到如果佢用嘅料係 唔啱規格,佢要换晒佢嘅,個代價係會好大,即係如果我哋係最尾要 check 佢有冇鉛--有冇水中含鉛或者係焊料含鉛,而佢知道有呢個風 險嘅話,亦都--佢都唔會咁--即係所謂咁愚蠢就要去犯呢個風險或者 冒呢個險嘅,但係因為個--如果佢知道有個 consequence,如果係 有呢--有一啲--即係後面有一啲係 checking 嘅 mechanism,等我 哋可以察覺得到呢個問題嘅話,佢係一定走唔甩嘅,咁佢呢個--佢 аware 呢個 consequence,佢就唔會係因小失大嘅。
 - 陳先生: Mr Chairman, I propose to move to a new area of questioning. In fact, Mr Wong may continue tomorrow when I am not here. I understand that Mr McCoy and Mr Pennicott may have an application to make, so I wonder if this would be a useful point at which to pause my questioning or the Department's question and to continue tomorrow morning. I will allow Mr McCoy to make an application.
- MR PENNICOTT : Mr Chairman, if I can make the application. 0 I make it primarily on behalf of China State but I understand it is supported by the other three main Р contractors. It relates to the date of service of the witness statements by the four main contractors. As currently directed, we are to serve by close of Q business on Monday afternoon. The application is for an extension of time for 48 hours until the end of R Wednesday of next week. The reality of the situation is that we've had resources tied up in the hearing. S I have mentioned this to Mr Shieh. I'm not quite sure what position he takes. But we would invite you to Т make a direction that we have a 48-hour extension of time. I can't see how any prejudice can be caused to U anybody. We are not going to get to the contractors'

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А Α 食水含鉛超標調查委員會 2015年11月5日 B B witnesses for a long time yet, on the present rate of С С progress. D D 主席:Yes? Е Е MR MCCOY : Paul Y General Contractors Ltd entirely supports the application. F F 主席:Yes? G G 林國輝先生: On behalf of Shui On, we also support. Η Н 石先生:我就見唔到有任何嘅即係影響嘅對我哋,因為即係我哋係唔係禮 拜一同禮拜二都唔會有,就直情,咁所以就我亦都見唔到話會拖慢咗 Ι Ι 個進展,所以我係唔會反對嘅。 J 李先生:主席,就住我代表有利及同埋伍克明,都係希望同樣嘅申請。 J 主席:星期三? K K 李先生:星期三, 係。 L L 主席:即係幾多點呀? Μ Μ 李先牛: Close 就係四點半。 Ν Ν 主席:四點半?咁就星期三,四點半之前 file witness statements。 0 0 Р Р 馮女士,今日我哋都聽咗好多你嘅證供,都差唔多,麻煩你聽日 再返嚟,啲律師都仲有啲問題想問你嘅。 Q Q 答:好,得。 R R 主席:我哋聽朝早10點再繼續。 S S 答:多謝主席。 Т Т 主席:我哋休庭,唔該。 U U

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Α	食水含鉛超標調查委員會	2015年11月5日	A
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C	<u>2015 年 11 月 5 日</u> <u>下午 4 時 23 分聆訊押後</u>		С
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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	А
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	Thursday, 5 November 2015 (10.03 am)	С
D	(Transcript of simultaneous interpretation except where	D
E	otherwise specified)	E
	CHAIRMAN: Mr Shieh.	
F	MR SHIEH: Chairman. There are a couple of things I would	F
G	like to report to the Commission. On Monday morning we	G
Н	have two witnesses coming here, Mr Siu Kin Wong and	
11	Mr Mok Hoi Kwong. They are the responsible persons of	Н
Ι	Wing Hing and Hang Lee.	Ι
J	On Monday and Tuesday, we have an arrangement for	J
	a meeting with the expert witnesses. One of them is	
К	a foreign expert. For Monday and Tuesday, we will set	K
L	aside time to meet with the expert witnesses.	L
	So I would like to report to all of you that on	
Μ	Monday morning we will proceed as usual, and we will	М
Ν	await the two witnesses. If they turn up, then we will	Ν
0	take down their contact information. They will not be	0
0	testifying, they will just be turning up. If they don't	0
Р	turn up, then the Commission will consider what to do	Р
Q	next.	Q
x	The hearing is not going to be long, so on Monday	Y
R	morning the legal team or some of the legal teams will	R
S	deal with the witnesses who might or might not appear,	S
_	and then the hearing will be adjourned until Wednesday.	
Т		Т

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04 B
С	We set aside the rest of the Monday and Tuesday for	the C
	legal teams to meet with the expert witnesses, and	
D	that's how we are going to proceed.	D
E	CHAIRMAN: Any further comments from other counsel? If	not, E
F	then on Monday and Tuesday we will not be hearing an	-
F	evidence. On Monday morning, like Mr Paul Shieh SC s	said F
G	a moment ago, we will deal with the two expert	G
Н	witnesses, their attendance. We can issue summonses	to H
п	the two witnesses.	п
Ι	If the senior counsel would like to attend the	I
J	Monday session, you are more than welcome, but if yo	u J
-	want to spend your time in some other ways, you may	Ŭ
K	choose to do whatever you want to do. This is the	K
L	arrangement going forward.	L
	All right, let's carry on. I invite Ms Ada Fung	
Μ	please.	Μ
Ν	You can come down this way; it doesn't really	Ν
0	matter.	
0	Yes, please carry on.	0
Р	MS ADA FUNG YIN SUEN (on former oath)	Р
Q	Cross-examination by MR SHIEH (continued)	Q
C C	MR SHIEH: Madam Fung, yesterday we were looking at	× v
R	China State's submission to the Commission regarding	R
S	their procurement.	S
	Are you busy now?	
Т		Т
U		U
V		V

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	A. Do we have to submit the reply that we made yesterday?	С
D	Q. I will come back to the information after this part.	D
D	B5.7, please turn to that, page 11834.	D
Ε	Yesterday, China State made the point that when	Ε
F	materials were delivered to the site, they were	F
	inspected. According to China State, the Housing	-
G	Department doesn't require any checking of the soldering	G
Н	materials, so the soldering materials delivered to the	Н
	site were not checked.	
Ι	Over the page, at 11835, it refers to the	Ι
J	prefabricated or precast units; can you see that?	J
	A. Yes.	
К	Q. For some of the precast units, some of the plumbing	K
L	materials were made in the mainland of China, and the	L
	China State engineers would check all the information	
М	for approval by the Housing Authority, and then	Μ
Ν	Ho Biu Kee send the information to Yau Lee Wah Company	Ν
0	for application to Chinese customs department. So there	
0	are a lot of submissions to be made. Then Ho Biu Kee	0
Р	gave the information that it purchased materials from	Р
Q	the company called Prosperity, which is the same	0
Y	supplier as stated in the document.	Q
R	Then, page 11836, it goes on to say what China State	R
S	has done in the way of supervision and monitoring.	S
	C.1.2, as you can see there, the stock keeper was	
Т		Т
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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	responsible for checking the delivered materials against	С
	the purchase orders. The checking records are kept by	-
D	the Housing Authority, and China State doesn't have	D
Е	these records.	E
_	Further up the page, for soldering materials, it	
F	refers to B.1.4. Since there is no need to check the	F
G	soldering materials, they don't have that many records.	G
Н	It goes on to talk about the internal work	
п	undertaken by China State, but I would like to say that,	Н
Ι	in terms of the lead in water incident, there is	Ι
J	a conclusion. Let me refer you to page 11821.	J
0	Paragraph 2.4 there:	J
K	"The record showed that prior for the formal	K
L	submission to [the Housing Authority] for approval,	L
	[they] had checked the documents submitted by	
Μ	the \ldots subcontractor \ldots [and the material] was in full	Μ
Ν	compliance with the contract specification	Ν
0	requirements."	0
0	But:	0
Р	" after the 'lead' issue was advised by [the	Р
Q	Housing Authority], [they] carried out a visual	Q
C C	inspection of the soldering joints of the pipes \dots [and	×
R	they] did not spot any abnormal features on the	R
S	soldering joints.	S
_	[China State] have requested the plumbing	
Т		Т
U		U
V		v

А Annex: Realtime English Transcription based on floor / Simultaneous Interpretation Α Commission of Inquiry into Day 04 B Excess Lead Found in Drinking Water В subcontractor to submit a report of the incident. С С However, up to the moment of writing this report ... [it D D has not been submitted]." It goes on to say that there is no practice in the Е Е industry to check the soldering materials. In the F F subsequent paragraphs, it also emphasises the point that there is no such check of soldering materials in the G G trade. Η Н As indicated in paragraph 2.2 on 11821, when they Ι Ι sought submission for approval of the brand Fry, it is of a lead-free grade. So, from the document, it talks J J about Fry being lead-free. I have asked the Κ K subcontractor to give an explanation, but the report has not been submitted. L L Paragraph 2.9, there is a conclusion there. The М Μ conclusion of China State is that one of the possible reasons is that the plumbing subcontractor or its Ν Ν workers, when carrying out the copper pipe installation, 0 0 carried out the installation behind China State's back Р Р and used the non-compliant soldering materials. However, there is no evidence to show which one of them Q Q used the non-compliant soldering material. They say R R they are using every effort to provide relief to the residents. S S It is the position of China State that at least they Т Т U U

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Annex: Realtime English Transcription based on floor / Simultaneous Interpretation

Commission of Inquiry into Excess Lead Found in Drinking Water

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submitted some samples, backed up by documentation, to say that the Fry product is lead-free, but when it comes to the actual installation, since there are no samples of the delivered materials, and as it turned out it contained lead, their conclusion was that someone used non-compliant materials in the installation.

Let's have a look at the other contractors regarding the possible causes, and then I can take up with you as to what has been done to prevent this from happening.

Now we have dealt with China State, let's move on to Yau Lee, 7.4. Let's take a look at the Lower Ngau Tau Kok Estate, Phase 1. 17859.

Here, you can see that the report is dated 21 August 2015, "Contractual relationship", under that paragraph, Yau Lee is the main contractor. There is М a company called Ming Hop, which is a plumbing subcontractor. Yau Lee and Ming Hop are wholly owned subsidiaries of Yau Lee Holdings Ltd, so they are sister companies themselves.

The licensed plumber was Mr Ng Hak Ming. Mr Ng Hak Ming has been an employee of Ming Hop for 31 years. The division of work is like this: Yau Lee is the main contractor; Ming Hop is dealing with plumbing; and Mr Ng Hak Ming, as a licensed plumber, "carried out the on-site supervision and also the handling of all the

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Day 04

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 04	B
С		water licensing issues and the related statutory		С
_		requirements with the Water Authority".		
D		Let's pause here for a minute. Yesterday, I put :	Lt	D
E		to you about the licensed plumber, but you need the		E
Б		licensed plumber to undertake the work, and nobody ca		-
F		deal with this other than the licensed plumber. Do y	ou	F
G		remember that?		G
н	Α.	Yes, I do.		
Н	Q.	It seems that Yau Lee is saying that this licensed		Η
I		plumber is responsible for supervision or handling the	ıe	Ι
J		statutory requirements.		Ŧ
J		In your understanding, in the industry, the licen	sed	J
K		plumbers do not roll up their sleeves and handle the		K
L		actual work. They are doing the supervision; is that		L
L		right?		L
Μ	Α.	As far as I understand, they supervise the workers u	nder	M
Ν		them to undertake the work. As far as I can remember		N
		in the 1990s, there were circulars that mentioned that	at	
0		this would be allowed. So, in the industry, this is		0
Р		a commonplace situation.		Р
	Ο.	This may not be within your remit, Madam Fung, but I	am	
Q	~ -	pleased that you told us something about what happene		Q
R		in the industry. The laws say that other than the		R
		licensed plumber, nobody can do it, but the licensed		
S				S
Т		plumber can just play the supervising role. Is there		Т
U				U

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Α	Annex.	Realtime English Transcription based on floor / Simultaneous Interpretation	А
В		ission of Inquiry into Lead Found in Drinking Water	Day 04 B
С		any misunderstanding of the law?	C
	Α.	Well, this is the general understanding of the trade	
D	Q.	There may be a potential problem this is what it	D
Е		says the licensed plumber has to sit for an	E
_		examination, they have to study for the licence; if t	-
F		just supervise, we don't know who the people he is	F
G		employing to do the job are.	G
н	A.	They also manage the workers, they have to make sure	Н
		that the standard is up to the standard.	1
Ι	Q.	Well, I don't know whether the licensed plumber would	d I
J		oversee the work at every joint. We may explore that	J
		with other witnesses later. Let's carry on.	
K		Page 17859, "To procure contractually acceptable	K
L		material". Can you see that, six lines down, "To	L
		procure contractually acceptable material"? It says	
Μ		Ming Hop has to procure contractually acceptable	Ν
Ν		materials and that it:	N
0		" normally submits and obtains all the materia	1
0		approvals from the [HA] through Yau Lee before execut	
Р		of any of the \ldots works. The physical installation w	ork P
Q		however is usually undertaken by a separate	Q
		sub-subcontractor"	
R		And this one is Wing Hing. Wing Hing is run and	R
S		managed by a person named Mok Hoi Kwong. Do you see	S
		that?	
Т			Т
U			U

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Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 04	В
С		"Mr Mok has had a long-term relationship with		C
D		Ming Hop"		D
D		So the contractual relationship is: Yau Lee		D
Ε		contracts out to Ming Hop, and then Ming Hop contrac	ets	Ε
F		out to Wing Hing, and Wing Hing is managed by Mok Hoi Kwong.		F
G		Then it goes on to talk about the Ming Hop's role	9	G
		and the role of the licensed plumber. It says that		
Н		Mok Hoi Kwong was very much trusted in the trade, th	at	Η
Ι		he was a very responsible trade contractor. He had		Ι
J		undertaken a lot of other projects and there was no		J
J		problem. That is why Ming Hop trusted Wing Hing.		J
K		It says:		K
L		"Although Ming Hop would submit materials for		L
		approval to the HA through [Ming Hop], not all mater	rials	
Μ		were in fact purchased by Ming Hop."		Μ
Ν		Ming Hop and Mr Mok belonged to the same group, b	out	Ν
0		then the materials were purchased by the final		0
0		sub-subcontractor, and that is something normally se	een.	0
Р		Do you agree with that, according to your		Р
Q		understanding of the trade?		Q
τ.	A.	From what I understand, if it is a subcontract,		Q
R		including materials and workmanship, then actually w	e	R
S		will also allow them to have sub-subcontracting.		S
	Q.	So, if the work and the responsibility have both bee	en	
Т				Т
U				U

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Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	I	A
В		aission of Inquiry into a Lead Found in Drinking Water	Day 04	B
С		sub-subcontracted, it is okay for the sub-subcontrac	tor:	С
		to do the procurement, but then the overall		
D		responsibility belongs to the main contractor?	I	D
E	A.	Yes, contractually the HA only has a relationship wi	ith J	E
_		the main contractor. But, as you know, there is a la	-	
F		of subcontracting in the trade, and the actual	I	F
G		procurement may be done by a second level subcontrac	tor.	G
Н		Well, I don't know whether it is normally seen, but		H
п		is permitted.	I	1
I	Q.	Normally speaking, we would only want them to	I	[
J		subcontract to the third level?		J
	Α.	Well, yes, with a multiple layer of subcontracting,		•
K		don't know which one will eventually undertake the w	vork.	K
L		There is a general practice that we would hope that	it J	L
		would only go to the third level of contracting.		
Μ	Q.	"Given the relationship of trust built up over the	r	М
Ν		years, we understand that Ming Hop would require	I	N
0		Wing Hing to purchase the solder material Solder		0
0		material is generally consumed very quickly"	(0
Р		You would weld it and then it would take a differ	rent I	P
Q		shape and form and it will actually be used, and it'	s	Q
C		not there anymore. So what it means is that it is no		×
R		a very major item and it is used up very easily.	I	R
S		"In order to avoid work progress being hindered	S	5
		especially due to the instability of supply, many		
Т]	Г
U			τ	U
V			•	V

Annex: Realtime English Transcription based on floor / Simultaneous Interpretation
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Commission of Inquiry into W.

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B	Excess Lead Found in Drinking Water Day 04	В
С	subcontractors, including Ming Hop, considered it more	С
	efficient to let installation workers, in this case	-
D	Wing Hing, carry out the procurement directly."	D
E	I think this is about convenience. If there is	Ε
	a layer in between and if it is for the one in the	
F	middle layer to buy the materials, then it will be	F
G	a waste of time, and then it will be left to the final	G
Н	installation workers. And that is what you mean, that	
11	it is permitted for the third layer of subcontractor to	Η
I	buy the materials.	Ι
J	It is said that this is:	J
•	" a standard practice between Ming Hop and	0
K	Wing Hing for Wing Hing to purchase the solder material,	К
L	and this was also reflected in the written agreement	L
	between them for this Project."	
Μ	Then in the next paragraph it says:	Μ
N	"Ming Hop was, until recently, completely unaware of	Ν
0	any concerns regarding the use of allegedly substandard	
0	solder material. Prior to recent events there have been	0
Р	no concerns regarding the quality of materials used in	Р
Q	pipe jointing."	0
Y	It says here:	Q
R	"It is a known fact that there has been no	R
S	requirement for testing of heavy materials, including	S
	lead, as part of the requirements for obtaining	
Т		Т
U		U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 04	В
С	a Certificate Regarding Water Supply Connectors	С
	(WWO 1005)"	
D	That's the form that we mentioned yesterday, and	D
Е	this is in line with what you said yesterday. You said,	E
-	regardless of what the forms say, according to what	
F	requirements, the industry is of the view that, "The	F
G	Water Authority would only ask me to test the eight	G
Н	parameters", and then the certificate would be issued	Н
п	and that the tests would not include heavy metals. This	п
Ι	is what Yau Lee is saying.	Ι
J	The next paragraph:	J
	"Since lead content in water supply is not subject	Ū
K	to inspection or test, the building or plumbing	K
L	industry, Ming Hop, and we ourselves therefore, have not	L
	carried out any specific testing."	
Μ	It goes on to say:	Μ
N	"It is commonly known within the industry that the	Ν
0	quality of the water supply system would be considered	0
0	to be satisfactory once the Water Authority approved and	0
Р	certified its inspection results in accordance with	Р
Q	WWO 46 Part V"	Q
C	We looked at it yesterday, didn't we? WWO 46 says	×
R	before works start, I would have to inform the Water	R
S	Authority, and after works are completed, we should	S
_	inform the WA to come and do inspection.	
Т		Т
U		U

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Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04			B
С		So the industry has said it will rely on form WWO	46	С
D		for the Authority to approve and certify the inspect		D
D		results. It is said that this is what the trade rega	ards	U
Ε		to be the practice.		Е
F	Α.			F
		WSD sends staff to do inspection. That is what is ir	1	_
G		part V of the form. We can take a look.		G
Н	Q.	Well, yes, we will go to the WSD later, but since yo		н
		mention it, let's go to the form: WWO 46, part V. It		
Ι		should be at page 37626 in your bundle, B15.1. It		Ι
J		should be page 37615.		J
		Sorry, I am using the old pagination. I had thou	ght	
K		I would put the question to the Water Authority, but		K
L		since you mention it, let us also look at it.		L
	Α.	Yes, this is what is mentioned by Yau Lee.		
Μ	Q.	You can see, in part IV, after the works are complet	ed,	Μ
Ν		you would have to sign the form and tell the WA that	it	N
0		is ready for inspection.		_
0		Then part V says we have looked at those works		0
Р		that you mention in part IV and it has been mentioned	d on	Р
Q		a certain day and according to the WWO, there are no		0
Q		problems identified and that is why the plumbing wor		Q
R		mentioned in part IV is approved.		R
S		Now, who should take up the bigger responsibility	?	S
		We can explore that later, but this is what part V s		2
Т				Т
U				U
V				v

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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 04	B	
С	Let us go back to B7.4/17860. We have just looked		С	
	at WWO 46 part V. Let's carry on. It says:			
D	"In the past decades, no adverse report has ever		D	
Ε	been made"		E	
T	That is, using WWO 46 part V for approval. In usin	-	_	
F	that part V, no adverse report has been made by any		F	
G	party on this particular issue, in the past decades.		G	
Н	It goes on to say that solder is not an expensive			
п	component, so it was beyond the reasonable expectation		Н	
Ι	of Ming Hop's management that a subcontractor with who	m	Ι	
J	it had developed a long-term partnership would utilise		J	
	substandard material in their projects. It is saying		J	
K	this very carefully. It is not making any accusation.		K	
L	It is actually saying that, "If someone does use		L	
	non-compliant solder behind my back, I would not have			
Μ	expected it because it is not an expensive component."		Μ	
Ν	It goes on to say that:		N	
0	" In practice, since the written agreement between			
0	Ming Hop and Wing Hing provided that Wing Hing was to		0	
Р	provide the labour, tools and jointing materials,		Р	
0	Ming Hop did not ask Wing Hing to submit invoices for		0	
Q	the purchase of jointing materials including the solde		Q	
R	material. According to Ming Hop it has relied on the		R	
S	experience of Mr Mok who is fully aware of HKHA's		S	
~	specifications for plumbing works"		0	
Т			Т	

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	It says that if any materials had been approved by	С
	HA, it would have been based on material submissions	
D	made by Mr Mok.	D
E	Again, it's very careful in its wording. It says:	E
	"If it turns out to be the case that the materials	_
F	actually used were different to the samples supplied and	F
G	approved, then [it would seem that] Mr Mok took	G
Н	advantage of Ming Hop's long-term support and trust."	
п	So it is similar to what China State said.	Н
I	Maybe the materials approved were of one type and	Ι
J	the materials actually used might not be the materials	J
-	approved. But then the main contractor and here even	U
K	the plumbing contractor, Ming Hop, said it was not in	K
L	the know. This is what they said.	L
	Let us turn the page: 17861. Mr Ng Hak Ming, you	
Μ	remember, is the licensed plumber employed by Ming Hop:	Μ
Ν	" Mr Ng Hak Ming and his supervisors made	Ν
0	periodic inspections of the soldering work. But during	
0	these inspections, no substandard material was ever	0
Р	reported or detected."	Р
Q	How he inspected and tested the materials, we will	Q
x	try to put the questions to him, but it is said here:	Y
R	"Neither had any complaint on solder material been	R
S	made to the Yau Lee site management team. No	S
	substandard solder material had been spotted on site	
Τ		Т
U		U

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Annex: Realtime English Transcription based on floor / Simultaneous Interpretation
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Commission of Inquiry into Excess Lead Found in Drinking Water

A

B

Day 04

С	during construction."	С
	It says Yau Lee is an experienced contractor, and:	
D	"The majority of experienced main contractors like	D
Ε	Yau Lee have relied a great deal on the licensed	Ε
	plumbers [to do] \dots plumbing installation works, and	
F	have followed the common practice of letting the	F
G	subcontractor or sub-subcontractor purchase the solder	G
Н	materials. It is only after such an unfortunate	Н
11	incident we learn that such trade practice [that is the	п
Ι	multiple layer of subcontracting] has the potential to	Ι
J	cause a serious issue with the quality of water supply."	J
-	This is what Yau Lee says, and it goes on to propose	U
К	improvement remedial measures.	K
L	What you can see is that China State and Yau Lee say	L
	that their understanding is that, in their exchange with	
Μ	the HA, which is the first level where they seek	Μ
Ν	approval, at least what we see is that China State has	Ν
0	documentation to show that it has submitted a Fry	0
0	sample.	0
Р	From this document on Yau Lee, I cannot see the	Р
Q	mention of a submission. It may be there or it may not	Q
C C	be there. But then both of them say that the problem	×
R	has happened with the next layer.	R
S	Let us look at the other main contractors: Shui On.	S
	B4.5. Please look at page 6617, Shui On's report. The	
Т		Т
U		U
V		v
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B

Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		nission of Inquiry into a Lead Found in Drinking Water	Day 04 B
С		first paragraph. I am just taking an estate randoml	у. С
D		This is on Kwai Luen estate, Phase 2. In fact there	are D
D		reports on all the estates.	D
Е		It says the plumbing work subcontract has been	Ε
F		sublet to Ho Biu Kee, and the licensed plumber was	F
Г		Mr Lam Tak Sum, and the pipes that were approved	r
G		belonged to the following two brands. It says solde	ring G
Н		materials have been approved, and they belong to the	
п		following brands.	Н
Ι		Then it goes on: the plumbing works were tested b	by I
J		the WSD, and it also mentioned part V of form WWO 46	ј. Ј
U		Then number (vii), it says:	U
K		"The acceptance testing requirements"	K
L		And so on and so forth, issuance of water	L
		certificate, et cetera. The water certificate actua	-
Μ		points to part V. In the trade, they may have	Μ
Ν		a different understanding of a water certificate.	Ν
0		I asked you and you said it was actually form 1005.	
0	A.	Well, actually, we need both.	0
Р	Q.	As long as certification of HA has to be issued?	Р
Q	Α.	Well, part V is necessary, and also before the issue	e of Q
×.		occupation permit, 1005 is also important or 1005 is	
R		also required.	R
S	Q.	So, generally speaking, it says here that the WSD ha	as S
		given them approval, and it does not include the tes	-
Τ			Т
U			U
V			V

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04 B
С	of content of lead in water.	C
D	Then 6617, or 6618, these are the testing results	D
	I don't think we have to go into the details.	
Ε	Then look at 6620, "Response from subcontractor-	Ε
F	Ho Biu Kee". Shui On had issued a letter to Ho Biu F	(ee F
	to explain why, in Kwai Shing Circuit were different	
G	from the approved samples. Ho Biu Kee replied; the	G
н	major points are:	н
	" Up to this moment of writing, [Ho Biu Kee] d	id
I	not know why and how the soldering materials used \dots	. I
J	were different from the approved sample."	J
	Then it says:	
K	"[Ho Biu Kee] fully understood the contractual	K
L	requirements [and]	L
	[Ho Biu Kee] did not know the availability of	
Μ	lead-contained soldering materials in [the] market .	M
Ν	Materials were ordered but the purchase order	s N
0	were disposed."	
U	In other words they were no longer available.	0
Р	"Licensed Plumber would inspect the completed	Р
Q	works"	Q
-	So, in other words, they would check the complete	-
R	fittings and connections before reporting completion	to R
S	the Water Supplies Department. I believe they are	S
T	referring to form 46. That form was signed by the	
Т		Т
U		U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	plumber.	C
D	It says: "Site representatives of HBK would check the	D
Е	materials and workmanship of plumbing works in KSC and	E
	reported to head office of HBK."	
F	HBK also said the incident at Kwai Shing Circuit is	F
G	an isolated incident and before the incident they did	G
т	not know that non-compliant solder was being used.	
Н	Now let's look at page 6621. 6621 is on Shui On's	Н
Ι	quality assurance procedures in KSC.	I
J	Now, in the middle of the page, it says:	J
U	"Although 96 types of materials used in the project	J
K	were required to be inspected as per the 'List of	K
L	materials requiring", and so on, and it says:	L
	" the soldering materials for jointing copper	
Μ	pipes was not included in the list"	Μ
Ν	Although 96 materials would be inspected, soldering	Ν
0	materials were not among the list. It says:	0
U	"For in-process quality control on workmanship",	0
Р	and so on.	Р
Q	This is about another stage, about the quality	Q
	control in another stage. Again, the soldering joints	C
R	between copper pipes were not inspected.	R
S	So, simply speaking, when you look at the right	S
т	side, there are no fixed procedures for checking the	-
Τ		Т
U		U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	soldering materials.	С
_	Now let's look at page 6623. Shui On gave the cause	
D	of the incident, and six possibilities were raised. It	D
E	says:	E
	"Based on the limited test results and available	_
F	information, it is not easy to conclude why the	F
G	contamination is found in the soldering materials in	G
Н	pipe joints of copper pipe in KSC."	
11	So it's difficult to pinpoint the cause.	Н
Ι	Six factors were mentioned:	Ι
J	"(i) Lead content in air contaminating the metal	J
Ū	surface of piping including the soldering materials.	0
K	(ii) Non-compliance soldering materials mistakenly	K
L	ordered and used by workers.	L
	(iii) Non-compliance soldering materials mistakenly	
Μ	delivered to site and used by workers.	М
Ν	(iv) Workers using soldering materials from other	Ν
0	sources due to delay of delivery of the approved	
0	materials in order to cope with the tight site	0
Р	progress."	Р
Q	In the final stage, they might have to do some	0
Y	pressure test, and there might have been leakages of the	Q
R	copper pipes, so the workers might have used soldering	R
S	materials from other sources. That's the fifth	S
	possibility.	
Т		Т
U		U

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Annex: Realtime English Transcription based on floor / Simultaneous Interpretation

And the final possibility is:

Commission of Inquiry into Excess Lead Found in Drinking Water

А

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Day 04

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"Other causes that are not known yet."

And Ho Biu Kee said that up until now they don't know the cause, and SOBC said they are not to be blamed for the incident, and they said they would do better next time or in the future.

Now page 6624. Here, they explained why soldering G material was not inspected in Kwai Shing Circuit, and Η they feel that the soldering material was generally not of high quality in the industry. They said the relevant government control bodies did not test for lead content in water, and the lead content in water was not checked Κ before issuance of water certificate and occupation permit. That's the normal practice in the trade. So that's their view.

> And they said the contractors are not to blame, and more possibilities were raised. Some might be inadvertent mistakes. So that's what Shui On said.

Now let's look at Paul Y. B6.4. Before we look at this document, let's look at 7.4, the part on Yau Lee, page 17873. This is a letter of Yau Lee.

Let's go down. It says, "Line of Command and Subcontracting" -- do you see those words?

You were copied on this letter. When you look at page 17877, you were carbon copied; do you see that?

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Т

U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	So, under the title, "Line of Command and	C
D	Subcontracting", it says:	D
D	"There was no specific item of inspection for solder	D
Ε	materials or soldering works in our quality plan."	E
F	So, in our quality plan, we did not inspect for	F
ľ	quality materials. It says:	F
G	"As regards the division of works in supervising the	G
Н	plumbing works on site our Block Foremen were	
п	responsible for frontline supervision of plumbing	Н
Ι	installation Our BS co-ordinator was responsible for	Ι
J	plumbing design drawing co-ordination and our AQCC was	J
-	responsible for material submission and documentation	U
K	checking."	K
L	It says:	L
	"But since the usual practice was for the	
Μ	workers"	Μ
Ν	So the normal practice is that the packaged	Ν
0	materials would arrive at the site piece by piece,	0
0	before they are being taken to the construction site.	0
Р	So, by the time that they arrive at the site, Yau Lee's	Р
Q	site supervision staff could not inspect the materials	Q
-	that arrived, to see whether they have been preapproved.	· · · ·
R	Do you see that part?	R
S	Are you aware of such practice? Some materials have	S
T	been chopped up before they arrived at the site are	
Т		Т
U		U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	you aware of this situation?	С
	A. Before the incident, we did not know about it, and after	-
D	the incident we heard about it. We have not seen	D
Ε	anything in person.	Ε
	Q. If this indeed happened, do you agree that it was	
F	a flaw? Despite the pre-inspections, the materials	F
G	could have arrived on site without any supervision, and	G
	no one would check whether it's of the Fry brand, so	
Н	they can use whatever materials they want?	Н
Ι	A. Generally speaking, contractors must procure the right	Ι
J	materials, and the origin of the materials must satisfy	т
J	the contractual requirements.	J
K	As for the execution on site by the contractors,	K
L	they must have the right division of work. They must	L
	have staff to inspect the materials, to make sure they	_
Μ	follow the contractual requirements.	Μ
Ν	So our contractors would normally assign multiple	Ν
	staff and supervisors to take care of the materials, the	
0	supply of materials, the inspection and delivery	0
Р	checking and so on. So that's our normal understanding.	Р
Q	Q. Now, let's go back back to the case of Yau Lee. We have	0
Q	to go through this paper, which was an additional	Q
R	submission by Yau Lee. So the general practice on site	R
S	is that all the labels would be peeled off; that's what	S
	Yau Lee said?	5
Т		Т
U		U

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into a Lead Found in Drinking Water	Day 04	B
С	A.	Generally speaking, this should not have been done.		С
		Normally, when materials are delivered to the site,		
D		whether HA officers are present, the contractor shou	ld	D
Ε		still ensure that the arriving materials follow or a	re	Е
F		compliant with the contractual requirements.		_
F	Q.	We looked at a form by the HA earlier and some certa	in	F
G		items must be inspected in the presence of HA's		G
н		representative. I understand that chemical tests cou		••
Н		not be done on site, and only visual inspections cou		H
Ι		be done. Do you need to refer to the form again?		I
J	Α.	No, I remember what it says.		т
J	Q.	So different items require different methods of		J
K		checking? In some cases, you cannot do chemical test	ts	K
L		and you must rely on visual inspection, and you can	only	L
		check for certain certificates like ISO certificates		-
Μ		test certificates and so on; is that correct?		M
Ν	Α.	Generally speaking, we would inspect the documents.	:	N
0	Q.	Or the packaging?		
0	Α.	We would check the models of the materials.		0
Р	Q.	Well, models and materials; right? So you would loo	k at	Р
Q		the labelling; right?		•
Q	Α.	Yes.		Q
R	Q.	Well, I know it didn't happen, but if there is	- - -	R
S		a mechanism to inspect soldering material, you might	not	S
		be able to send anyone on site, but you must at leas		
Т				Т
U				U
v				v

Α	Annex	Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into Lead Found in Drinking Water	Day 04 B
С		ask them to keep the labelling, for example the Fry	С
		labelling for the Fry brand?	
D	A.	Retrospectively, it's difficult to say, because the	re D
E		might be different causes for the presence of lead :	in E
F		soldering material. But in terms of procurement and	
F		monitoring and usage, we must have more stringent	F
G		control, in order to avoid these problems, and we wa	G G
Н		do tests on the soldering material, and we also have	
п		test for lead in water. So we have to follow all th	н
Ι		steps along the chain, to make sure that there aren	't I
J		any issues. Even if the upstream part is all right,	you J
-		cannot ensure that the downstream is compliant as we	
K		and at the end of the day the soldering material mig	ght K
L		contain lead and the water might also contain lead.	L
	Q.	I understand. There are different versions to the s	story
Μ		and you don't know where the problem came from. So,	in M
Ν		the final stage, if the workers have no materials le	eft N
0		and they must use materials from other source, then	
0		your prior inspections would be in vain?	0
Р	A.	There are a lot of causes and scenarios, a lot of s	tages P
Q		where problems might arise.	Q
×.	Q.	I understand, but if we have a simple mechanism in	Q
R		place, even if the HA inspector does not need to te	st R
S		for lead on site, at least if we have a mechanism in	ı S
		place to require labels to be produced, that would a	
Τ			Т
U			U

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Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation	А
В		Commission of Inquiry into Excess Lead Found in Drinking Water Day 04	
С		the purpose of monitoring; right?	С
D	Α.	Yes.	_
D	Q.	And for 17874, on the procurement process, we have	D
Ε		talked about it already, and for 17876, at the bottom -	Е
		I looked into this part with Prof Anthony Cheung at	
F		the bottom of page 17876. So they have estimated cost	F
G		difference between lead-free solder and leaded solder o	or G
		substandard solder.	
Н		So a study was conducted to estimate the cost	Н
Ι		difference between both types, and for 18777, at the	I
T		top, time-wise, the time required for carrying out	
J		lead-free soldering works are comparable to that for	J
К		carrying out soldering works with substandard solder.	K
L		Let's not look at such technical issues first.	L
	A.	We actually experimented on site and the time required	
Μ		are similar.	Μ
Ν	Q.	And in terms of cost, for lead-free solder, it is HK\$70	5 N
0		more expensive per flat than leaded solder, and for the	
0		whole building, the cost difference is only about	0
Р		\$322,000. Neither Yau Lee nor Ming Hop would use	Р
0		substandard solder because of the small savings. So, a	
Q		I said, \$300,000-odd might be a big or small sum,	Q
R		depending on the angle we are looking at.	R
S	A.	I answered this question already.	S
	Q.	But by common sense what's your view?	5
Т			Т
U			U

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Α	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	B
С	Α.	, 1	0	С
D		it. Well, in our opinion, if trade practitioners, including frontline workers, subcontractors and relat	ted	D
Е		people, knew that leaded soldering material would af:	Foot	Е
		water quality, and if they knew that the salts produc		_
F		from the soldering process might affect health, the	1	F
G		workers might have been unwilling to use the leaded	(G
Н		soldering material.		Н
11		So if trade practitioners had better awareness of		H
Ι		the issue, then the trade would not use any	1	I
J		non-compliant materials.		J
	Q.	So, just to be fair, if \$300,000-odd can be saved, t		-
K		it's a substantial amount for the entire estate, but	up	K
L		until now, we are not sure whether substandard solder	ring I	L
		material was used intentionally. Some workers may ha		
Μ		done it for convenience.	I	M
Ν	Α.	When you look at page 6621 the page with six reas	ons, I	N
0		right? Page 6623, a list of possible factors were		~
0		listed. And these factors could service at different		0
Р		points in time, which led to leaded soldering materia	al I	P
Q		being used. Some were intention and some were		Q
-		inconvenient, so we cannot just look at the documents		×
R		before us and confirm what the real reason was.	J	R
S	Q.	So hopefully the answering witnesses can help. For	S	S
Т		Paul Y, let's go back to Paul Y. B6.4, page 150707.	r	Т
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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	Well, different companies have different formats in	С
	their submissions. Paul Y included a lot of tables, but	
D	let's not look at those. Let's look at 15090,	D
Ε	paragraph 5.	E
Б	Let's have a look at the bottom part of 15089:	
F	"In accordance with Paragraph 11, part II,	F
G	Schedule 2 of the Waterworks Regulations, WSD would only	G
Н	issue acceptance letters", and so on:	н
	"Therefore, there was no WSD pre-approval letters	11
Ι	for the copper pipe and fittings"	Ι
J	Basically, it says that there are no documents to	J
	approve the soldering materials.	-
K	Paragraph 3, WWO 46 Note 7 I think I put this to	K
L	you yesterday there are certain things that had to be	L
	included into the annex when the form was submitted,	
Μ	regarding materials. It says that the pipes will have	Μ
N	to be submitted, but for components, there are only	Ν
0	certain components that would have to be reported. So	0
0	soldering materials were not reported to the Water	0
Р	Supplies Department.	Р
Q	And:	Q
C	"On-site inspection revealed that Paul Y had	×
R	supplied and installed all the approved models as per	R
S	the sample submissions"	S
	Paragraph 5:	
Т		Τ
U		U
v		V

Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		aission of Inquiry into a Lead Found in Drinking Water	Day 04	B
С		"Paul Y's plumbing subcontractor [Golden Day,		С
D		I think it is, Golden Day, the subcontractor] confirm during an interview"		D
E		That 400 rolls of lead-free solder wire, Fry grad	le,	Е
		was purchased from Prosperity, which were delivered		
F		the site, and these 400 rolls should be enough. And		F
G		Golden Day submitted the delivery notes to Paul Y.		G
		Why did we see this happen? Paul Y said they		
Н		couldn't conjecture but probably because of the		Н
I		following reasons:		Ι
J		"Some plumbers might have used solder wire of oth	er	J
J		quality for jointing copper pipes.		J
K		2. There might be '99c' solder wire of inferior		K
L		quality in the market which could not be easily		L
		identified by the plumbers."		
Μ		So this is the view of Paul Y. It doesn't say wh	0	Μ
Ν		committed it, it just said that some wire of inferio	r	N
0		quality was used. And it goes on to talk about the		
0		remedial measures.		0
Р		Let me refer you to some of the further informati	on	Р
Q		from Paul Y: 15098, "Causes and Circumstances". Can		Q
×		see that?		Y
R	Α.	Yes.		R
S	Q.	The likely causes are like this. 4.1, "Multi-tier		S
		Subcontracting of Subcontracting of Plumbing		
Т				Т
U				U
V				v

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	Installation Works":	С
	"The Independent Licensed Plumber"	
D	These are in capital letters. It referred to 15096,	D
E	Paul Y says (iii), on page 15096, Paul Y had	E
	an independent highly experienced licensed plumber, the	
F	"Independent Licensed Plumber"; can you see that?	F
G	15097. Paul Y consulted:	G
U	" an independent and highly experienced licensed	
Н	plumber who has been involved in a [lot] of projects	Н
Ι	[under] the Housing Authority. On 24 August 2015,	Ι
J	Paul Y invited the licensed plumber (who possesses	J
U	a clean record)"	J
K	He was involved in the recent saga.	K
L	So there was a workshop, to share with the staff	L
	members of Paul Y, regarding this particular incident.	
М	15098 shows you the results of discussion. The	Μ
Ν	first one is about subcontracting. The licensed plumber	Ν
0	said that the subcontracting mechanism may have caused	
0	this problem.	0
Р	"At present, more than 80 per cent of the plumbing	Р
Q	subcontractors have further subcontracted their works to	Q
x	3-tier sub-subcontractors The likely result of this	Q
R	arrangement is that the works may appear to have	R
S	been"	S
	The quality would have been guaranteed.	
Т		Т
U		U
V		v

Annex: Realtime English Transcription based on floor / Simultaneous Interpretation

Commission of Inquiry into Excess Lead Found in Drinking Water

А

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4.2, "Insufficient Time". Long story short, for С С plumbing, this part of work is left to the very end of D D the project, and they will have to get on with the work very guickly, and they have 39 storeys within 1.5 months Е Е and they have eight plumbers, and they have to do the F F work so quickly, and that may have caused a problem. That's roughly what it says. G G

4.3, "Substandard Solder Materials at Copper Pipe Η Joints". It says that the licensed plumber would not allow workers to use unauthorised solders because of the serious consequences. In terms of time and also financial losses, the consequences can be serious. Can Κ you see that?

If problems occur, you have to strip out the fittings and re-assemble the fittings. It would mean a lot more time. Some semi-skilled plumbers may purchase some solder, low melting point solders from nearby hardware stores and just pick up these solders from the hardware stores to resolve the problem of leakage.

According to a licensed plumber, it would be difficult to differentiate inferior quality solders used on site by visual inspection. He suggests upgrading the use of lead-free solders for small diameter copper pipe jointing to 2 per cent silver solders. If the

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Day 04

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А Annex: Realtime English Transcription based on floor / Simultaneous Interpretation Α Commission of Inquiry into Day 04 B Excess Lead Found in Drinking Water В 2 per cent silver solders are used, then this will С С eradicate this problem, because people will not just buy D D any solders off the street. 4.4, "Overreliance on Licensed Plumbers": licensed Е Е plumbers are the only people who can sign the documents. F F 4.5, "Procurement of Water Pipes and Fittings": in the trade, as we said earlier on, if procurement is G G passed on to the subcontractors or the Η Н sub-subcontractors, to ensure that the materials can be

Ι traceable, then the main contractors should take over the procurement. This is the view of the licensed J plumber. Κ

4.6: the welders might have misunderstanding of the solder material. When you buy solder material and speak L to hardware stores, it is commonly referred to as Μ (Chinese spoken), and this may be construed as not containing any lead -- literally, it means "water tin Ν solders" -- and it is possible that a plumber might 0 misconceive these as lead-free solder materials for the copper pipes:

"Therefore, when the lead-free solder wires ... [like] 'Fry' Grade 99c, are used up on site, plumbers probably may have purchased some top-up solder supply, ie those 'water tin solders' from local hardware stores ..."

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Α	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	B
С		And they may contain lead.		С
		You don't have to comment on which one is more		
D		effective, but of all these different views, it comes		D
Ε		down to the very point that the problems may arise fr	om	E
_		different parts.		
F	A.	Indeed, there may be many parts that cause the proble	ems.	F
G	Q.	Now, for the last part, maybe the workers are buying		G
Н		top-up solders that are suspect, and a lot of work wo		
11		have been in vain. But if the problems arise from th		Η
Ι		very beginning, if they purchased a substandard solde	r	Ι
J		in the first place, then certain established procedur	es	J
U C		would be useful for them to make the submission, and		9
K		labelling can be checked and that problem could have		K
L		been prevented?		L
	A.	After the incident, we have introduced measures. Whe	n	
Μ		the materials are delivered to site, there is		Μ
Ν		a quarantine to make sure that the materials are		N
0		lead-free before they would be released to the worker		0
0		When the workers are using materials for certain unit		0
Р		they should be traceable. That will make sure that t	he	Р
Q		workers will not use any substandard materials. We n		Q
-		to have site supervision on different parts, and we h		×
R		to make sure that there are different people monitori	ng	R
S		different parts of the work.		S
_	Q.	Let me put this to you. The plumbing materials, afte		
Τ				Т
U				U

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Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into s Lead Found in Drinking Water	Day 04 B
С		2000, there was a change. In your statement, you sat	id C
		that, round about the year 2000, copper pipes weren'	t
D		used previously, it was the lined galvanised iron pi	pes D
E		that were used?	\mathbf{E}
P	Α.	Yes, they were used in the 1990s.	_
F	Q.	Yes, uPVC lined galvanised iron pipes, I think it	F
G		started in 1995, didn't it? Before 1995, it was	G
Н		unlined. After 1995, was uPVC lined GI pipes, becaus	
11		without the lining, if you just use the galvanised i	ron,
Ι		then there may be corrosion; is that right?	Ι
J	A.	Yes, in 1995, there were guidelines and there were	J
		circular letters issued by the Water Supplies	9
K		Department. The unlined galvanised iron pipes were	K
L		prohibited.	L
	Q.	The reason is there may be a chemical reaction, ther	e
Μ		may be corrosion?	М
Ν	A.	Yes, it may go rusty.	Ν
0	Q.	Let me turn I would like to find out or ascertain	
0		timing to paragraph 23 of your statement. Here yo	0
Р		said copper pipes have been used in the construction	Р
Q		industry for many years and people are very familiar	
¥.		with it.	Q
R		Then you went on to say that in 2002 hang on	R
S		a second. Have you found it?	S
	Α.	Yes.	
Τ			Т
U			U
V			V

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	Q. In 2002, in the building contracts, the Housing	С
0	Authority would specify that uPVC lined galvanised iron	C
D	pipes would be switched to copper pipes. In 1995,	D
E	a circular was issued by the WSD, and then the HA would	E
_	prohibit the use of unlined GI pipes. Instead, they	
F	should use uPVC lined galvanised iron pipes.	F
G	So from 1995 to 2002, round about that time, in the	G
Н	contracts, they specified the use of uPVC lined	п
11	GI pipes. After 2002, the contracts require the use of	Н
Ι	copper pipes?	Ι
J	A. The year 2002 wasn't a watershed. The projects	J
	completed in 2002, some of them were still using uPVC	U
K	lined pipes. There was a transition then.	K
L	Q. We keep talking about 2005 being the watershed.	L
	A. In 2005, there were two types of materials that could	
Μ	co-exist.	М
Ν	Q. In 2002, in the HA contracts, you require the use of	Ν
0	copper pipes. Starting from 2002, they started using	0
U	the copper pipes. Maybe by 2005 the first batch of	0
Р	public housing units using copper pipes began to come	Р
Q	onstream, and then in 2006-2007, most of them used	Q
-	copper pipes, before the construction began in	Ľ
R	2002-2003, and so on. So there was a transition period	R
S	there.	S
_	For soldering technique, once copper pipes were	
Т		Т
U		U
X 7		

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Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	A	A
В		aission of Inquiry into s Lead Found in Drinking Water	Day 04	B
С		used, soldering was also used?	(С
	Α.	Yes.		
D	Q.	Lined GI pipes, you use the mechanical compression	I	D
Ε		technique?	I	E
	A.	Yes.		
F	Q.	Having got the timing out of the way, I would like t	.o	F
G		put this to you. You heard of this ACQWS let me	find (G
		the acronym in full name Advisory Committee on th		
Н		Quality of Water Supply. Have you heard of that?	ł	H
Ι	A.	I heard this title but I haven't got direct contact	with I	I
J		it.	1	J
U	Q.	Please refer to A2, page 888. In the year 2000, thi		,
K		press release was issued, announcing that on 1 April	I	K
L		2000, an Advisory Committee on the Quality of Water	I	L
		Supplies was set up. This ACQWS, the purpose is to		
Μ		advise on matters relating to the quality of water	Ν	M
Ν		supplies.	ſ	N
0		As you are aware, in public administration in		~
0		Hong Kong, there are a lot of such Advisory Committe		0
Р		with government officials sitting as ex officio memb	ers, I	P
Q		with also members from the trade. Can you recall suc		Q
×		a press release, now that you are looking at it?		Y
R	A.	Yes, I have heard about it.	I	R
S	Q.	There is a membership list near the end. Usually, t	he	S
_		term of appointment is for two years. We need not be		
Т]	Т
U			τ	U
V			۲	V

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	bothered with the actual membership, but if you just take a glance you will see the director, a lot of	С
D	professors; you can see the Director of Water Supplies,	D
Ε	and also the medical association, MTR or KCRC; and in	Е
F	the middle part you can see the plumbing and sanitaryware trade.	F
G	Then go to page 890: Conservancy Association, green	G
Н	groups, District Councils. Then page 890, near the end, even the Housing Department, can you see that:	н
Ι	"Assistant Director, Housing Department"?	Ι
J	A. Yes, I can see that. Q. There were representatives of the WSD, the Housing	J
K	Department, and also the plumbing trade. The Advisory	K
L	Committee is still in existence. The chairman now is Mr Chan Hon Fai.	L
Μ	Why do I want to put a question to you on this press	Μ
Ν	release? Because I would like you to look at bundle F,	Ν
0	page 32. F1, page 32. Tab number 8. This is paper number 7. It is called, "Quality of	0
Р	Water in Buildings". Can you see it? Please look at	Р
Q	the preamble: "This paper sets out possible strategies for	Q
R	enhancing the entire water supply system such that	R
S	Hong Kong citizens can have confidence in drinking high	S
Т	quality water directly from their taps."	Т
U		U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking WaterDay 04	В
С	This is very interesting. The topic is about people	C
D	being able to drink directly from the tap. If you have	D
	lived overseas, you will know that that is possible, but	D
Ε	in Hong Kong we have been taught from very young that we	Ε
F	should not drink from taps. This is the task for that	F
	committee.	
G	Please look at paragraph 9 on page 32.	G
Н	CHAIRMAN: Which year is this?	н
	MR SHIEH: This is year 2001. There was a meeting	
I	considering this paper. I will let the Chairman and the	Ι
J	Commission see that in fact there were minutes showing	J
	that the paper was discussed.	
K	Please look at paper number 7, paragraph 9. Maybe	K
L	in paragraph 8 first.	L
м	It says:	
Μ	"The problem of water quality in buildings is not	Μ
Ν	unique to Hong Kong. A literature research of	Ν
0	publications and through the internet [will show	0
0	that] in the [UK], [the US], Canada and Singapore [there	0
Р	is this situation]."	Р
Q	Usually, the Secretariat of such committees would do	Q
C	the research. Suffice it to say that the person who put	×
R	together this paper searched for experience in overseas	R
S	countries on the internet.	S
	Let us look at paragraph 9:	
Т		Т
U		U

Annex: Realtime English Transcription based on floor / Simultaneous Interpretation

Commission of Inquiry into Excess Lead Found in Drinking Water

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"In the UK and USA, the most common problem is the С presence of lead in water since during their development D stage, lead pipes and lead-soldered copper pipes were widely used. The problem has to be addressed by dosing Е inhibiting chemical additives during the water supply F treatment process to suppress ionisation of lead and by re-plumbing. These countries also have discoloration G complaints attributed to various causes including Η rusting of internal plumbing, since the use of unlined Ι GI pipes is still permitted. On the other hand, Canada and Singapore, like Hong Kong, have banned the use of J unlined GI pipes"

Why is this paragraph interesting? Well, the first part is right on what we are talking about, and that is lead in water, and why there was this problem in the UK and US. It is because they used copper wires and they used solder that included lead. Can you see that? A. Yes, I do.

Q. But it doesn't say how this relates to Hong Kong. Then it goes on to address a second issue. It says there is another problem in these countries, and that is there is rusting in the pipes.

But this does not apply to Hong Kong because in Hong Kong we have already banned the use of unlined GI pipes.

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Day 04

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Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	В
С		Now, thinking back, why is it that in the firs		С
D		line it says, "lead-soldered copper pipes were widel used", it says that is causing the problem of the	У	D
Е		presence of lead in water. Now, why is it that it is	S	F
Ľ		not elaborated in paragraph 9? I understand that you	13	Ε
F		were not at the meeting, but thinking back, think ab		F
G		the timing, it was in 2001, and in Hong Kong we were		G
		still using lined GI pipes. We were not using coppe:	r	
Н		pipes at that time.		Η
Ι	Α.	No, not in Hong Kong, but only for HA projects. But	in	Ι
J		the market, that material was not common at all. The	e	J
-		market was using copper pipes.		U
К	Q.	Okay, I understand. Sorry, I was wrong. For HA		K
L		projects, you did not use copper pipes?		L
	A.	No.		
Μ	Q.	So would it be because of that, when you look at		М
Ν		paragraph 9 here, it says maybe lead-soldered copper		N
0		pipes were widely used. That is what paragraph 9 say	ys.	0
0		Now, at that time, in the eyes of the HA, that wo	ould	0
Р		not be a problem because that was not the type of pi	pes	Р
Q		used in HA buildings?		Q
	Α.	No, I wouldn't say that, because we would always do		C
R		research about the market. So even if we were not us	sing	R
S		lined GI pipes, we would not neglect the fact that o	ther	S
т		materials might be a problem, and in the process of		т
Т				Т
U				U

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Α	Annex.	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water Day 04		B
С		drawing up specifications we would avail ourselves t	0	С
D		Such for reference. One more thing. In the mid-1990s, before we deci	ded	D
E		to use lined GI pipes, we did pilots to decide wheth	er	Е
Ľ		we should use copper pipes or uPVC lined GI pipes, w		Ľ
F		was more appropriate, and in the early 1990s we did		F
G		a pilot about that.		G
	Q.	So in other words, if an HD or HA representative sho		Ū
Н		read this line, he or she would say, "It has nothing		H
I		do with us because we don't use copper pipes"? You h		I
		to raise your tentacles to see whether anything woul		
J		about the materials and you would of course want to		J
К		these points?		K
T	Α.	Yes, we do.		-
L	Q.			L
Μ	£.	copper pipes were used, so that in the UK and USA th		Μ
N		had this experience of having lead in water, and tho	_	NI
1		people at the meeting should know this as a potentia		Ν
0		problem.		0
Р	Α.	Well, but then, in the context of this paper, these	few	Р
		words were not particularly conspicuous.		
Q	Q.			Q
R	-	Even within paragraph 9, this might not be the main		R
a		point.		
S	Q.			S
Т	*•	- analistana. Non prouse room at paragraph 19.		Т
U				U
V				v

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Commission of Inquiry into Excess Lead Found in Drinking Water

Day 04

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"To ensure that the internal plumbing systems are in С С a good and clean condition, it may be considered D D desirable to follow a practice similar to that in Singapore by requiring consumers or their agents to Е Е employ Licensed Plumbers or registered plumbing F F contractors to arrange for periodical checking and submit inspection reports to WSD. The Licensed Plumbers G G or registered plumbing contractors will carry out Η Н remedial action whenever defects are found and a water Ι Ι analyst will confirm by water sampling and testing whether the quality of water supply within the internal J J plumbing systems is up to the required standard."

There is the suggestion we may follow Singapore to require the consumers or their agents to employ licensed plumbers themselves to do periodic checking and to submit reports.

Let me ask you to turn to page 40, paper number 8. The preamble of paper number 8 tells us when paper number 7 was discussed, and you can see here, on 15 January 2001, members discussed paper number 7. This is a paper that has come later. There are minutes, but I won't go into the minutes first. This happened over a decade ago and you were not at the meeting, so let us look at the papers themselves. The minutes would record the discussion and we might not know the main points.

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoDay 04Excess Lead Found in Drinking WaterDay 04	В
С	Let us look at the papers themselves. Paper	C
D	number 8. I would like you to look at paragraph 6. At	_
D	the top of page 41, "Maintenance Requirements and	D
Ε	Practices in Asian Cities". It says:	Ε
F	"Questionnaires were sent to Shenzhen, Taipei,	F
F	Singapore, Kuala Lumpur and Tokyo requesting for	F
G	information on their maintenance requirements on	G
н	plumbing systems."	н
п	Paragraph 6 says:	п
Ι	"The Singaporean practice recommends building owners	Ι
J	to arrange, at least once a year, for [the	J
-	following]"	U
K	Number (ii) is interesting: to file a report.	K
L	In Singapore, it doesn't require the test for lead,	L
	but E.coli and other things, including iron. It says,	
Μ	in Singapore, all Housing Development Board housing has	Μ
Ν	to do this, also for all government buildings, and then	Ν
0	for private estates this is voluntary. Then it says	0
0	that Singapore was contemplating legislative amendments	0
Р	to make these requirements compulsory. This is	Р
Q	paper number 8.	Q
C C	From what you can recall, because the HD was	Y
R	represented on this committee, can you recall whether	R
S	someone talked to you about this suggestion and what	S
	happened to it as a kind of direction for development?	
Τ		Т
U		U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	Maybe this was not your personal knowledge. Maybe you	С
	have to do some homework when you go back.	C
D	A. Well, it would be very hard for me to do this homework,	D
Ε	but it seems this paper is about maintenance. I don't	Е
F	know whether our representative at the committee also	-
F	belonged to the management or maintenance branch. It	F
G	seems this paper is on maintenance and the	G
Н	responsibility on the owners, and this is about	
п	information about the occupation phase of buildings.	Н
Ι	Q. Now I can show you the minutes. A2, page 858.	Ι
J	MR YIN: Chairman, I would not want to interrupt counsel,	J
U	but I would like to point out that Ms Fung is here as	J
K	a representative of the HA. Of course we know that the	K
L	Housing Department is the executive arm of the Housing	L
	Authority, but, as Mr Anthony Cheung has said, not all	
Μ	HD functions are executed on behalf of the HA. I would	Μ
Ν	just like to clarify this point, because I can detect	Ν
0	a line of questioning which is about HD functions and	0
0	responsibilities, but some of those might not be	0
Р	executed on behalf of the HA.	Р
Q	MR SHIEH: Well, I understand that the HD would get	Q
×	instructions from the HA, but if I ask questions of	Q
R	Ms Fung and if she is here as representative of the HA	R
S	and she therefore may not be able to take the questions,	S
T.	she can say so. I think Mr Yin is trying to lay down	
Τ		Т
U		U

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Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	Α	
В		Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04		
С		a marker here. If Ms Fung can dig up the information	^л , с	
		if she thinks this is not a problem, this is not		
D		a problem.	D	
Ε		We will very soon have a morning break and this w	E E	
F		be very brief, but please look at the minutes, page		
F	Α.	I can see that.	F	
G	Q.	You can see the people present, and you will see	G	
Н		a Mr Wong there. He is the assistant director,	Н	
п		Mr Wong Bay.	п	
Ι	Α.	He was responsible for estate management maintenance	. І	
J	Q.	Okay, so maintenance. His portfolio would not inclu	de J	
		the construction contracts or management of contract		
K	Α.	Well, even if he did not have that area of work, but	the K	
L		estate management and new projects people would	L	
		regularly sit together and talk about common concern		
Μ		including quality. So there is this internal mechani	. M	
Ν		If there is important information, we will be exchan-	ging N	
0		it.		
0	Q.	Well, exactly. I would like to ask you, when you ha	ve	
Р		these Advisory Committees, many people would be	Р	
Q		represented, they would be getting wind let's say	Q	
τ.		they would get information from these committees	Y	
R		would there be an exchange mechanism within the HA?	R	
S	A.	Yes, you can put it that way. This is the first time	e S	
		I have looked at these papers, but I can see that the	e	
Т			Т	
U			U	

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Transcript by DTI Corporation Asia, Limited

Α	Annex: Rec	altime English Transcription based on floor / Simultaneous Interpretation		A
В		on of Inquiry into ad Found in Drinking Water	Day 04	В
С	th	nrust of this committee is on property management as	ıd	С
	ma	aintenance, more than procurement of materials and		
D	cc	onstruction. I mean, judging from the papers I have	;	D
Ε	be	een shown, and also the people represented at this		E
Б	cc	ommittee, I believe that is the thrust of this		
F	cc	ommittee.		F
G	Q. I	understand you. Let us go to page 860, paragraph	5.	G
Н	Th	his is on discussion of paper 7; can you see that?		Н
	A. Ye	es.		11
Ι	Q. "	The chairman introduced that the purpose of this pa	per	Ι
J	Wa	as to present the possible strategies"		J
		So the chairman gave the introduction of the pape	r.	
К		Then let's go to the next page. 6.2:		K
L		"After the presentation members generally agr	eed	L
	th	nat there was a need to properly maintain the plumb	ing	
Μ	sy	ystems in buildings."		Μ
Ν		I would say that this is stating the obvious.		Ν
0		6.3: the chairman asked questions, and that is		0
U	wh	nether WSD would form an inspection team to check the	ıe	0
Р	cc	onditions of water pipes. The WSD responded.		Р
Q		Then in 6.3.2, a member I was saying to you th	at	Q
-	th	nese meeting records would include statements and		x
R	cc	omments by members. In 6.3.2, a member commented		R
S	sc	omething. Then in 6.3.3, another member supplemente	d	S
_	SC	omething. In 6.3.4, another member added something.		
Т				Т
U				U

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Annex: Realtime English Transcription based on floor / Simultaneous Interpretation

Commission of Inquiry into Excess Lead Found in Drinking Water

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Let us not look at the details. Usually, minutes are keeping members' names confidential, but then their comments would be recorded faithfully. Since their names are not there, they would have said what they had wanted to say.

My question is, by 2002-2003 -- the timing is relevant, because these meetings were held in 2001. In G 2002, starting in that year, the HA considered using Η different piping materials. You were switching to Ι copper. And during this meeting, the issue of water quality was discussed, although it was not a focus of J the discussions?

- A. According to the paper, it was not an issue that was emphasised. The legal framework stipulated maintenance, and they also addressed the existing conditions of the Μ buildings. So, since it was a minor point, I have reason to believe that the members did not pick up on that point.
 - Q. I understand. What you are saying is that 15 years on, we have these lead in water incidents, but what you are saying is that they might not be thinking about it at that time, the attending members?
 - A. If they had thought about it, they would have discussed it further.
 - Q. No one mentioned this point?
- Т
- U

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Day 04

Α	Annex:	: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into Lead Found in Drinking Water Day 04	В
С	Α.	It should have been discussed at that time, but at that	С
-		time nobody paid attention or discussed it. We did some	
D		research ourselves and we have read some meeting	D
Ε		minutes.	Ε
Б	Q.	Indeed, no one dwelled on that point. On paper 27, the	
F		focus was on whether tap water was fit for drinking. In	F
G		2001 and 2002, they were considered switching to copper	G
н		pipes, and for copper pipes soldering is necessary.	Н
п		And whether for the HA or HD, there were internal	п
Ι		discussions. Was this issue ever recorded? Did anyone	Ι
J		put two and two together and say, "Since we are	J
-		switching to copper pipes, we are going to consult the	U
K		trade; we should do better"? Although this is not	K
L		directly relevant, but someone might have mentioned it?	L
	A.	We cannot tell from the minutes. We cannot speculate on	
Μ		whether that happened.	Μ
Ν	Q.	I understand. So you might have to do some research?	Ν
0	Α.	But I have reason to believe that the answer is no. If	0
0		someone did raise this problem, then it would have been	0
Р		traceable, but we have asked the relevant colleagues on	Р
Q		what they considered as they drew up the guidelines.	Q
×		Of course, they learned from property management	Q
R		companies, they learned from the trade, and they also	R
S		looked at the international context, when they drafted	S
		the specifications. So my colleagues told me that they	
Τ			Т

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А Annex: Realtime English Transcription based on floor / Simultaneous Interpretation Α Commission of Inquiry into Day 04 B Excess Lead Found in Drinking Water B did consult international copper associations and they С С consulted widely before coming up with the D D specifications. But whether that point in the paper was specifically Е Е studied, I haven't asked them this question yet, but F F I have reason to believe that that point was not elaborated on. In the paper, that point was not G G emphasised. If so, it would have been addressed in Η Н other papers on lead in water or lead in solder. Ι Ι But according to this set of minutes, there was no sign to indicate that the relevant people at that time J J did mention this issue. In the ACQWS meeting, it was Κ K not mentioned; Mr Wong Bay did not mention that point. Q. So that's your gut reaction, but for accuracy's sake, L L can you dig out more information, for example internal Μ Μ minutes, to trace this point? You said the different teams might communicate with each other, so can you Ν Ν provide documents or memos from that time? If the 0 0 answer is no, please say so. Р Р A. If I am to dig out the archives from more than ten years ago, if Mr Wong Bay was in charge of property Q Q management, then it might be difficult for me to dig out R R those papers. So I cannot make any guarantees. Even for internal co-ordination meetings, we might S S have to dig up the archives, since we are talking about Т Т U U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 04	В
С	more than ten years ago. We will try our best, but it's	С
	likely that we would not be able to dig them up.	
D	MR SHIEH: This is not a major point, so we cannot set	D
E	an imminent deadline.	Ε
Е	CHAIRMAN: Yes, it's not necessary. For the certifications,	
F	in the year 2000 edition, there are some words there	F
G	have been changes. In the 2000 edition, B2/729 well,	G
н	let me go through those pages before we take a break,	Н
	and in the 2004 edition, B2/646.	11
Ι	For BS 1254-1, it was first mentioned in the 2004	Ι
J	edition, and for the year 2000 edition, the	J
	specification did not mention the words, "Do not use	_
K	soldering material containing lead". In the 2004	К
L	edition, we saw 1254-1 (1998) for the first time on	L
	banning leaded solder.	
Μ	Let's take a 20-minute break first.	Μ
Ν	(11.48 am)	Ν
0	(A short adjournment)	0
0	(12.09 pm)	0
Р	MR SHIEH: Madam Fung, a moment ago the chairman asked you	Р
Q	to have a look at the specifications for two different	Q
c	years. The year 2000 $B2/779$ for the year 2000, "Lead	×
R	based materials"; can you see that?	R
S	A. Yes.	S
Т	Q. "Do not use jointing materials based on red lead."	
		Т
U		U
v		v

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into Lead Found in Drinking Water	Day 04 B
С		Now, in the year 2000, in public housing, you sti	С
D		used lined galvanised iron pipes and not copper pipe:	
D	A.	Correct.	D
E	Q.	At that time, the contract specification says, "Do n	ot E
F		use jointing materials based on red lead." What does	
F		mean? You used galvanised iron, so that doesn't invo	olve F
G		any soldering materials. The jointing materials, what	at G
		does it mean?	
Н	A.	Generally speaking, it says in the general spec o	H ver
Ι		the page, there is a reference to galvanised pipes,	Ι
T		GI pipes, jointing copper pipes, jointing plastic pip	pes,
J		joints between dissimilar metals.	J
К		So this covers a comprehensive range of	K
L		specifications.	L
L	Q.	So you are saying, other than specifications, we hav	
Μ		drawings and bills of quantities, and I take it toget	М
N		they refer to the kind of materials used. As a layma	
		in the year 2000, it refers to, "Do not use jointing	
0		materials based on red lead." In 2004, it refers to	O the
Р		British Standard 1254-1; that's lead-free solder. So	
0		between the two, what are the rationale behind them?	
Q	Α.	Let me say something about the development of the	Q
R		specifications. We have materials, workmanship and	R
S		testing. After 1997, when the WTO GPA, all of them	S
		should be non-discriminatory, there cannot be any bra	
Т			Т
U			T

U

V

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04 B
С	names, and we reviewed all the specifications, and all	С
D	the specs that have to do with brand names would have	
D	be revised. That was a major change.	D
E	Then, for individual trades, we had a review. In	E
F	2002, we said they would have to switch to copper pipe	s, F
r	to replace the lined GI pipes. We had a review and	Г
G	there were colleagues who co-ordinated the review, and	G
Н	there was the building services engineers section.	Н
	In the light of the latest British Standard, we	
I	reviewed the situation, and we came up with the 2002	I
J	version.	J
	The specs would be updated every four years, there	
K	can be certain specs that can be reviewed in the inter	im K
L	period, but we have a four-year cycle for the differen	t L
м	versions.	
Μ	So, between 2000 and 2004, it reflected the updated	d M
Ν	situation involving the switch to copper pipes. In the	e N
0	2004 version, everything to do with brand names was	0
0	removed.	0
Р	CHAIRMAN: Let's have a look at the 2004 edition: page 646	ō, P
Q	please.	Q
	A. 646.	×
R	CHAIRMAN: This is very specific. Lead-free solder has to	R
S	be used.	S
	So it comes back to the point made by Mr Paul Shiel	1
Т		Т
U		U
V		v

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	that if there was no discussion in the Housing	С
_	Authority, we would not have had such specifications,	
D	and these specifications specifically refer to lead-free	D
E	materials.	E
_	A. Lead-free materials I have read some information from	
F	my colleagues when the specification was drafted, we	F
G	had regard to the industry practices and the	G
	international and general practices. BS 1254-1, there	
Н	is a table there. It refers to lead-free solder.	Н
I	CHAIRMAN: There is a note saying soldering are not	Ι
Ŧ	permitted for installation for water for human	Ŧ
J	consumption.	J
K	A. So we had regard to the BS standard, and focused on this	К
L	particular section. So, when we drafted the	L
	specifications, we had to be careful with the issues; we	
Μ	have to make sure that it is in line with the general	Μ
Ν	practice.	Ν
0	MR SHIEH: Can I put it this way: if we need to look at the	
0	British Standard, we can just look at 1254, but your	0
Р	colleagues highlighted some of the key things in the	Р
Q	British Standard and make it more specific in fact,	0
Q	this has been included, but they want to make specific	Q
R	by highlighting all these key points. Even if you	R
S	didn't refer to this, the British Standard would have	S
	been generally incorporated?	
Т		Т
U		U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 04	В
С	A. Yes, indeed. We can just say, "Refer to the British	С
	Standard", and it would cover everything.	
D	Q. And this is highlighted for specific attention?	D
E	A. Yes.	Е
-	Q. But your library was updated in 2004. There was	
F	a general updating, in fact, in 2004: when you approved	F
G	the contracts, you started using this version; is that	G
п	right?	
Н	A. My colleagues are telling me that they used the 2002	Η
Ι	CHAIRMAN: What year?	Ι
J	A. 2002 would have been the specification that requires the	J
Ū	use of copper pipes. So, in 2002, we started using	0
K	this the contract was based on this particular	K
L	version, the 2004 version.	L
	CHAIRMAN: So the 2002 version was slightly adjusted?	
Μ	A. Yes, the 2002 incorporated all the changes in 2001 and	Μ
Ν	2002. We incorporated everything there. Between the	Ν
0	two editions, we may have some updating from time to	0
0	time, and issue them for use.	0
Р	CHAIRMAN: Yes, I understand. So what you are saying is	Р
Q	that there is a sub-item 3, that lead-free solder has to	Q
τ.	be used, there was no particular reason; it's just that	Y
R	when you drafted the specification, your colleagues felt	R
S	it would be a good idea to include that. It wasn't the	S
	case that the Housing Authority or the Housing	
Т		Т
U		U

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Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into Lead Found in Drinking Water	Day 04 B
С		Department realised that there was such a problem an	.d C
		therefore you included it; is that right?	
D	Α.	Yes, your understanding is correct.	D
Е	MR	SHIEH: I would like to follow up on one issue. For	any E
_		changes 2002, you modified the specs, and then th	
F		contracts would specify copper pipes, and you have t	.o F
G		make sure that they follow the British Standard and	G
		lead-free solder would be used for any changes li	
Н		this, I'm sure that there would be a bit of formulat	H.ion
Ι		period and you wouldn't just wake up and adopt this	Ι
J		standard. Now, you changed in 2002 and switched from	m
J		GI pipes to copper piping, and then you had the cont	J
K		specification for the type of solder to be used. I'	m K
L		sure that there would be a period of formulation in	this L
		regard. Was there such a period of discussion?	2
Μ	Α.	Yes.	М
Ν	Q.	You might have had meetings and technical discussion	ns. N
		Would you have records of such meetings and discussi	ons?
0	A.	Well, there should be such discussions. Generally	0
Р		speaking, if we change any specifications, first of	all P
0		there would be a review done by the departmental sta	ff
Q		and then they would contact the industry before the	Q
R		change would be effected.	R
S	Q.	Also, it is not that we want to take you to task for	c S
~		writing in this specification. Requiring people to	
Т			Т
U			U
V			V

Transcript by DTI Corporation Asia, Limited

Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		aission of Inquiry into a Lead Found in Drinking Water	Day 04	В
С		lead-free solder is correct. But the point is not ab		С
D		writing in this specification, but rather considering the switch to copper pipes and also the use of lead-	-	D
Е		solder. I'm talking about the entire process of		E
		consideration.		
F		Did you also consider this point: now that there	is	F
G		this specification, should you also change the		G
Н		inspection procedures of the sites and also what show	ıld	
п		be included in PLU1 and PLU2; there should be		Η
Ι		comprehensive consideration, right?		Ι
J	A.	Yes, you are correct. That is why, because of this		J
		specification in 2004, we call 2004 a watershed, and	we	-
К		would ask for checks, and everything has been include	≥d	K
L		in that form. That is why we can say we have looked	at	L
М		the entire process from beginning to end. Apart from	l	М
171		having a new specification, we had also thought about	5	Μ
Ν		site operations and whether there should be		Ν
0		complementary site inspections.		0
		Of course, there is a time-lag. As I said, we have	7e	U
Р		the 2004 version, and then we included all the copper	2	Р
Q		pipes. Even if started to use them in 2002, in the		Q
		interim, we issued the DCMP instruction, including the	ıe	-
R		new specifications. Also, there should be also chang	jes	R
S		to site inspection, and we would also then change the	ose	S

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inspection requirements. Then, for individual items,

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04 B
С	the instructions to inspect them would also be change	ed. C
_	So the next step would be for site inspection and	
D	they have to pass assessments. Our staff are very mu	ch D
Ε	aware that whenever there is a change to the	E
F	specifications, there should be the entire sequence of	
F	change of different things.	F
G	CHAIRMAN: Please wait. I would like to interrupt. Let'	s G
Н	look at the 2004 specifications. From what I can see	
п	actually PLU1 can we roll back a little to the	Н
Ι	beginning, when we had PLU and also the items.	I
J	What I would like to say is, we are talking about	J
0	water supply, the water supply system and materials,	9
К	PLU1. Basically, everything that is related to water	K
L	supply will be under PLU1. In other words, from copp	er L
	pipes to valves, to anything actually, you do not	
Μ	check any of those, none of those. Under PLU1 loo	k M
Ν	at PLU1 and everything under PLU1, anything that h	nas N
0	to do with water supply is not checked. But if you g	
0	to PLU2, even the toilet paper rack is checked.	0
Р	A. Chairman, it is not about checking or not checking.	Р
Q	CHAIRMAN: No. Yesterday we heard whether you would insp	pect
τ.	these things on site.	×.
R	A. Maybe I would like to clarify. It is not a matter of	R
S	checking and not checking. But yesterday we mention	S
	mentioned a form. The focus of that form	
Т		Т
U		U
V		V

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04 B
С	MR SHIEH: 37641.	С
_	A. There is on-site delivery verification. If there is	
D	this wording in the specification, then those would k	De D
Е	picked out and mentioned in form 6210. The purpose o	f E
-	this form is not that the main contractor doesn't hav	
F	to do the checking, but rather, in this list, the	F
G	contractor has to do the checking in front of our sit	ce G
	staff.	
Н	So it is not that there is no checking. This canr	not H
I	be construed to mean that we do not check.	I
J	CHAIRMAN: In other words, all the things in PLU1 will no	ot
J	be checked in front of an HD staff; is that right?	J
K	A. Chairman, I also have to clarify this point.	K
L	I mentioned that there are thousands of materials, ar	ld L
	this list only includes about 30 materials. Many	
Μ	materials need not be checked by the main contractor	in
Ν	front of our staff, but it doesn't mean that the mair	n N
0	contractor doesn't have to check them.	
0	CHAIRMAN: Okay, I understand, but that's a separate thin	ng.
Р	The main contractor, whether he checks or not, let us	P
Q	put that aside. You are the HA or the HD. You are th	
· v	owner, you are the major owner. You spend so much mo	Q ney
R	on building public housing, and you of course want to	, R
S	concern yourself with whether money is well spent.	S
	I find this rather strange, therefore. PLU2, it	
Т		Т
U		U

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А

B

seems to me, is about toilets, the sanitary fitments, С С and also sewage arrangements. All those are in PLU2. D D And probably HD staff would do the acceptance tests. But then, under PLU1, whatever that has to do with Е Е water supply will not be checked in front of HD staff. F F I have been dealing with criminal cases, and because of that, I would say starting from 2004 you started to G G put these under PLU1, and then by 2012, about eight Η Н years later, you still have PLU1. And it seems you Ι Ι don't need to check those materials in front of HD staff, and that has gone on for over ten years. So J J people could have cheated on you. K K A. Actually, if the on-site delivery verification requirement has to be included, in fact that is not only L L limited to PLU2. We should also include PLU1. М Μ CHAIRMAN: Well, but this is after the event. You know what I mean? From 2004 to 2012, they are all in PLU1. In Ν Ν other words -- well, I really can't understand -- you 0 0 consumed such a large quantity of copper pipes, and yet Р Р when they are delivered to the site, there is no HD staff who will be checking on those pipes. You should Q Q know some valves, some taps, they were not the kind R R approved. We know that from the reports. A. Well, no, I don't think they have been exchanged for S S inferior quality. It is when they filled out WWO 46, it Т Т

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Α

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Day 04

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	was not the stage for our staff to approve the materials	С
D	yet. When it is the stage for our staff to approve	D
D	materials, then they must be in compliance with the WSD	D
Ε	standards.	Ε
F	CHAIRMAN: We know about Viceroy taps, but they were	F
-	replaced or exchanged for another one?	ľ
G	A. No, it is not about exchanging them, but then they	G
Н	submitted a sample to us, and after the sample was	Н
	approved, usually the licensed plumber would revise	п
I	WWO 46 and its annex with the WSD.	Ι
J	This is the common practice in Hong Kong. When they	J
	first fill out the form, it would be shortly after the	Ŭ
K	works start, but it would not be for all the samples to	K
L	have been approved. Say if the sample that is approved	L
	is "XYZ" but the form indicates "ABC"; however, "XYZ"	
Μ	must also be in compliance with WSD standards and they	Μ
Ν	must have got the approval of the WSD or BS trade mark.	Ν
0	Only then will our staff approve the procurement.	0
Ū	CHAIRMAN: Well, in any case, you are telling me that as	0
Р	long as there is compliance with the British Standard,	Р
Q	then whether they install A, B or C, that doesn't	Q
-	matter; is that what you are saying?	×
R	A. No, that's not what I mean. What I mean is, it is not	R
S	that they have exchanged materials for inferior type	S
	materials. The thing is, the materials they use on site	
Т		Т
U		U

Commission of Inquiry into Excess Lead Found in Drinking Water

А

B

Cshould be in accordance with the sample that is
approved. Also, when approval is made, the staff wouldDhave checked their testing results documents, and alsoEWSD approval, yes, before the materials are to be used.FCHAIRMAN: Well, this is about the submission of sample and
the documentation, but when actually in the constructionGsites, nobody checks the materials; right?

I do not doubt that you have an established Η procedure to do it on paper, but it's very simple. You Ι go to a construction site, and then from the first item to the last item -- and if this is about the water J supply system, yet no one checks any of those. And Κ then, at the very end, when you take over the building and you also only do a performance test, you only want L to know whether the water is flowing. Basically, no one М looks at the components and whether they are using the components as approved. Well, it doesn't seem to be Ν very satisfactory. 0

A. No, Chairman, that might not be the case. We do not need to have staff and the contractor to witness the examination and checking of material. But day-to-day, they would do 10 per cent check, they would look at the type and the brands, whether they are in line with the approved materials. Our staff can do that. It is not that there is no checking.

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Day 04

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04	В
С	CHAIRMAN: Then I would like to ask you another thing.		С
D	Would you agree that British Standards have no direct relationship with the quality of drinking water?	:	D
Е	A. I cannot really answer this question. I can only say	7,	Е
	since the water regulations require us to comply with	1	
F	British Standards, we comply with the BS, but as to t	he	F
G	quality of drinking water, our understanding will be that, when water samples are checked, the important		G
Н	parameters should be listed, and if there is complian	ice	H
Ι	with all the parameters then we should have quality		Ι
J	drinking water. And basically the quality would comp with hygiene standards.	ly	J
К	CHAIRMAN: Well, this is your understanding. I wouldn't		K
L	argue with you. But it's very simple. We are always		L
Μ	talking about British Standards 1254-1 (1998). This	is	М
N	actually about copper and copper alloy, and plumbing fittings with capillary brazing and capillary brazing	, to	N
0	copper tubes.		0

Now, this is 1254-1 (1998) British Standard. It's about the materials to be used for copper pipes. And what is the thickness of the wall and also the maximum temperature for welding, the maximum pressure? All that is very technical. It has nothing to do with the quality of drinking water. How can you say, by fulfilling the British Standards, the water must be

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Р

Q

R

S

Т

U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoDay 04Excess Lead Found in Drinking WaterDay 04	В
С	problem-free? Actually, conceptually, these are two different	C
D	things, right? You just want to repeat your answer? Do	D
E	you get what I mean?	E
	A. I understand you.	
F	CHAIRMAN: Because the standard is about jointing of copper	F
G	pipes, and the copper pipes have to be like this and	G
Н	like that, the thinnest like this, the thickest like	Н
п	this, the pressure that it can stand, the heat that it	п
I	can stand. It has nothing to do with water whatsoever.	Ι
J	A. I can only say that there is a performance and system	J
	integrity for plumbing installations, and there are	-
K	basic requirements to fulfil, and according to the	К
L	British Standards, we would inspect the installations	L
	and so we write them in.	
Μ	CHAIRMAN: Okay. Another thing. My understanding is you	Μ
Ν	have many chief architects and two chief building	Ν
0	services engineers. My understanding is I had	0
0	a glance of their witness statements about this CBSE,	0
Р	the involvement of this CBSE is only within the pumping	Р
Q	station or the pumping room; is that right? Am I right?	Q
-	A. Let us separate it into two parts. One in the central	x
R	system, and the specifications. Chairman, you looked at	R
S	our two projects, and the CA and the CBSEs, and their	S
Т	actual work. But what I want to say is, how do we	Т
-		1
U		U

Commission of Inquiry into Excess Lead Found in Drinking Water

Α

В	Excess Lead Found in Drinking Water	Day 04 B
С	develop and manage the specifications? Actually, the	re C
D	is a central system. For fresh water supply system,	_
D	there are two parts: one water pump and associated wo	D D
Ε	inside pump room. The other part is pumping	Ε
	installations outside pump room. And in the project,	
F	this is how the division of labour is. Within the pu	mp
G	room, it is the CBSE, and outside, the CA. But when	we G
Н	write the specifications about the water pump and	
п	associated pump work inside pump room, we call it FWH	Н.
Ι	As for the other part, it's PLU1, and sanitary	I
J	appliances, PLU2.	J
	About our division of labour, the chief architect	
K	responsible for PLU2, but water supply within PLU1 ar	nd K
L	FWP are the responsibilities of the CBSE.	L
	CHAIRMAN: Okay. In other words, you can ask the chief	
Μ	building services engineer, who is responsible for	Μ
Ν	writing PLU1, to tell us why he did it this way?	Ν
0	A. Well, yes. Okay. That colleague is also a witness.	
0	CHAIRMAN: Okay. That's all for my questions.	0
Р	MR SHIEH: I would like to clarify something with you.	If P
Q	something is written under PLU1 or under PLU2 now,	Q
×	what is the relevance of this? Whether it is necessa	-
R	to check materials in front of HD staff at	R
S	a construction site, that depends on form 6210. That	is s
	page 37641. That is, upon delivery, whether the	
Τ		Τ

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Α	Annex:	: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into E Lead Found in Drinking Water	Day 04 B
С		materials have to be checked and examined in front of staff. This is in form 6210.	E HD C
D		During the work stage, there are spot checks. We	D
E		can call it spot checks or random checks. Some tests	Ε
		would be 100 per cent, some 10, some would be done	
F		randomly; it depends on the document B1/86.	F
G	Α.	So this has nothing to do with the plumbing material	s. G
н		It says all construction materials should be covered.	
Н		It's not relevant to the form.	Н
Ι	Q.	Now let's look at B1/86 which we looked at yesterday	I
J		already. We have a number of items, starting from	J
0		number 79. This is a list of items requiring various	
K		degrees of checking.	K
L		So we have 100 per cent, 10 per cent check or ran	dom L
		check. We have seen this paper yesterday already. T	his
Μ		stipulates during the works phase, when the HD staff	Μ
Ν		make inspections, how they should deal with different	- N
0		materials and the degrees of checking; they would for	
0		the percentages in this table?	0
Р	Α.	Correct.	Р
Q	Q.	Now let's look at page 86. Page 86 mentioned the	Q
		plumbing arrangements. As we said yesterday, this ta	-
R		doesn't stipulate the checking of lead in soldering	R
S		material. For PLU1.02, on "Plumbing - Above Ground	S
T		Water Supply Pipes", pipe testing is listed at	_
Τ			Т
U			U

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		aission of Inquiry into Is Lead Found in Drinking Water	Day 04	В
С		100 per cent, and also cleaning of water tank. "Pipe		С
		Testing" is listed under the column of 100 per cent.		
D		What does it actually mean?		D
Е	Α.	Pipe testing refers to pressure tests. It's		Е
Б		a functional test.		-
F	Q.	But the test can only be done after the works is		F
G		completed; right?		G
н	Α.	The test can be done zone by zone. If it can be done	5	Н
		zone by zone, then that's what we can do. We don't h	ave	11
Ι		to wait for the completion of the whole works, but we	2	Ι
J		have to wait until the system is finished before we c	can	J
		conduct the test.		
К	Q.	For 10 per cent checks, you can test the items item }	оу	K
L		item; right?		L
	A.	No. Let's say if we have ten flats, we would check o	one	
Μ		flat, but it doesn't mean we would take away a compor	ient	Μ
Ν		for testing.		Ν
0	Q.	What does it mean by "Pipe Joint"?		0
0	A.	Well, obviously, pipe joints refer to joints of pipes	s,	0
Р		the joints between different pipes.		Р
Q	Q.	It has nothing to do with soldering; right?		Q
	A.	We do visual inspection for this item. This is not		×
R		a chemical test.		R
S	Q.	For the items above, on 6210, those are not chemical		S
		tests; you rely on visual inspections, right?		
Т				Т
U				U
V				v

Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation	A	4
В		aission of Inquiry into a Lead Found in Drinking Water	Day 04 H	3
С	Α.	Yes. Now, for the specs we mentioned, we update or		С
D		review them from time to time. For PLU1 and FWP, for these two specifications, they were reviewed. We	I)
E		commissioned a consultant to do a review in 2010, and	l it H	E
		was completed by 2013, and in the latest, 2014, editi	.on,	
F		it has been updated.	F	7
G	Q.	So, for PLU1, as a category, it basically includes wa	ater (G
н		pipes, and PLU2 includes sanitaryware?	Ţ	H
п	Α.	Yes, correct.	I	1
Ι	Q.	As you said yesterday, the contractual requirements	Ι	L
J		belong to PLU1, and the provision of a sample is not	J	ſ
		mandatory but most contractors would do so?		,
K	Α.	As a general practice, they would do so. This is a r	iorm H	K
L		which has been in place all along. For bigger parts	or I	Ľ
		important components, they would submit samples for o	our	
Μ		approval.	Ν	M
Ν	Q.	So this is for peace of mind; correct? So the norm i	.s N	N
0		that they would seek approval beforehand?		~
0	Α.	Strictly speaking, they have to they would seek	(C
Р		approval before they order the materials.	I)
Q	Q.	Even though the materials under PLU1 do not have to b		2
τ.		preapproved but as a norm they would do so?		Z
R	Α.	This is almost a standard practice.	ł	R
S	Q.	For PLU2, the materials require pre-approval according	ng S	3
T		to the contract?	_	-
Т			ſ	ſ
U			τ	U
V			N.	V

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 04	B
С	A.	Yes.		С
	Q.	So the definition of PLU1 is water supplies?		
D	A.	Yes.		D
Ε	Q.	In English you said, "What's the reason for includin	g	E
Б		them in PLU1 or PLU2?" I understand it's standard		-
F		practice despite the lack of contractual obligations		F
G		For PLU1, pre-approval is usually sought. So, for PL	JU2,	G
Н		why is pre-approval required whereas there is no such	ı	п
11		requirement for PLU1? Why must the PLU2 materials be	1	Η
Ι		preapproved whereas PLU1 mustn't?		Ι
J	A.	PLU2 refers to sanitary appliances. They are big		J
		components. They are big sanitary fittings or		Ū
K		appliances. So we cannot specify the brand names. W	e	K
L		must write down the performance-based specifications		L
		But for other cases, usually only brand names are		
Μ		given. So we only give performance-based specificati	ons	М
Ν		instead of brands, so we don't want to discriminate		N
0		against anyone.		0
0		So we will see whether the brands, or the specifi	с	0
Р		models comply to the performance specs. So samples m	ust	Р
Q		be submitted for approval from us.		Q
-	Q.	You said it's not discriminatory in nature and you w	on't	Ľ
R		discriminate against any brand; so, in principle, the	is	R
S		principle should apply to PLU1 as well?		S
T	A.	A long time ago, we had something called a list of		
Τ				Т
U				U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	А
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	approved materials. Then certain brand names could be	С
	used. Eventually, it became the PLU2 specifications.	
D	Q. Yes, I understand that point. But my question was why	D
Ε	do you think the PLU2 materials must be preapproved,	Ε
F	where the PLU1 materials aren't? In the specifications	F
I	now, you cannot mention brands, so you would see whether	Г
G	the materials comply before you grant approval.	G
Н	But this principle should also apply to PLU1. If	
11	you are not discriminatory, then it should apply to	Н
Ι	PLU1. So the only point is that PLU2 refers to big, big	Ι
J	appliances.	J
	A. I don't think we can say that. PLU2 are sanitary	-
K	components like wash basins. These are bigger	K
L	components, such as toilets, wash basins, whereas PLU1	L
	are generic materials like copper pipes. In the past,	
Μ	we usually didn't give brand names; we didn't specify	М
Ν	the models. Commonly used or internationally available	Ν
0	pipes are stipulated. We would follow international	0
0	standards such as the British Standard.	0
Р	Q. So there's little difference between different brands;	Р
Q	right?	Q
x	CHAIRMAN: I don't really agree with that. Different	Q
R	manufacturers would have different qualities of copper	R
S	pipes.	S
	A. For copper pipes, all along copper pipes are made of	
Т		Т
U		U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day	v 04 B
С	pure copper.	С
D	CHAIRMAN: So, in other words, the cheapest pipes will do?	D
D	A. Cost is not the consideration; the main consideration is	5 D
Ε	the standard, whether the materials comply with the	Ε
F	specified standards.	F
ľ	CHAIRMAN: I might not be correct but I just want to put	г
G	something to you. For the potable water system, it is	G
Н	already regulated by the Waterworks Regulations, so all	н
11	the water supply to toilets is covered by PLU1; is that	п
I	the case?	Ι
J	A. Generally, yes. All the WWO clauses apply to PLU1.	J
J	CHAIRMAN: So, in other words, there's no need for testing	J
K	because it's governed by the WWO?	К
L	A. We would adopt a risk-based approach. If we detect any	L
	risk, even if it's been covered by WWO, we can conduct	
Μ	checks, but without any signs or warnings, we might not	Μ
Ν	be aware of risks.	Ν
0	CHAIRMAN: It's time for lunch. We will take an early lunch	
0	and resume at 2.30. Let's resume at 2.30. Thank you.	0
Р	(12.52 pm)	Р
0	(The luncheon adjournment)	
Q	(2.31 pm)	Q
R	MR SHIEH: Madam Fung, let me briefly clarify with you the	R
S	PLU1 definition and also PLU2, and the difference	S
	between the two.	
Т		Т
U		U
V		V

А Annex: Realtime English Transcription based on floor / Simultaneous Interpretation Α Commission of Inquiry into Day 04 B Excess Lead Found in Drinking Water В PLU1 is about the Water Supplies Department С С facilities. PLU2 is about the sanitary appliances. D D PLU2, what sort of things would be included? What about the washing sink. PLU1 is about the plumbing Е Е facilities, the water supply system. F F PLU1 and 2, one of the elements being proposed, PLU2, under the contract, there has to be prior HA G G approval. PLU1, it is not mandatory, but many people Η Н would seek approval. Ι Ι You have tried to explain the difference between the two. First of all, PLU2, mainly we are dealing with J J larger items; PLU1, the pipes are of smaller size. Κ K Whether they are of a large or small size, they have to measure up to the specs under the contract, whether L L we are talking about the performance, the chemical М Μ compounds, and so on. Why is it that there is a need for prior approval for one but not the other? Ν Ν A. It is not a question of the size. PLU1 is the plumbing 0 0 system; PLU2 is about the sanitary appliances. PLU1, it Р Р is not mandatory for all the materials to be preapproved, but the general practice is that for all Q Q the materials, the contractor would give us the approval R R scheduled, and they would let us approve the materials. We may not make it mandatory. There is a general S S expectation and this is a general practice. Т Т U U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	Q. I understand. In general, people would do that. But	С
	what I am trying to find out is the thinking behind it.	
D	Why is it that for certain items there is a need for	D
Ε	approval but not others? Why is it that under the	Ε
Б	contract there are some things where there is a need for	
F	pre-approval let's say the bathtub and the sink, why	F
G	is it that there is a need for pre-approval but not so	G
Н	much the pipes?	н
	A. In general, the practice is that even if we do not	п
Ι	specify it, the contractor would let us approve the	Ι
J	materials, and let's not deal with PLU1 and 2. For	J
	other clauses, it may not be mandatory, but in general,	
K	as a general practice, this is how it works.	К
L	Second, PLU2, it is rather unique. We cannot	L
Μ	specify the brand names and the materials may have to do	м
IVI	with the appearance and the design. There is	Μ
Ν	a pre-approval process for these appliances.	Ν
0	So it is not a question of us ignoring the smaller	0
	items. There is no question of that. This is for	-
Р	clarification. It is an important process for us to	Р
Q	approve the materials. We may not make it mandatory but	Q
D	there is a need to do so.	-
R	PLU2 is special because of the omission of the	R
S	brand.	S
Т	Q. Previously, there would be a specification and you would	Т
•		I
U		U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	specify a certain brand of appliances or bathtub. Now,	С
-	you cannot say this, you can only make it neutral. But	Ũ
D	as a developer, you would like the bathtub to be of	D
Ε	a particular brand, if you can't really say the brand,	Е
_	that's why you have to have the pre-approval. But for	
F	pipes, you don't have to make it so special; there is no	F
G	need for pre-approval, is that right?	G
ц	A. No. The materials have to measure up to the standard.	п
Н	The approval of the materials is to make sure that the	H
Ι	materials will measure up to the contractual	Ι
J	requirement. PLU2 is rather unique, because in terms of	J
	design, we like to have a design which is compatible.	U
K	We don't really want to have the appliances or the	K
L	products really of different design.	L
	Q. Like the bathtub and the toilet may be of a certain	
Μ	colour tone, colour scheme?	Μ
Ν	A. Yes, we like to make things compatible, and maybe the	Ν
0	specification is good enough. Let's say they have a red	0
0	and green and so on, this may not be good enough.	0
Р	Q. Now, these are things on top and you may not make it	Р
Q	rigid in the specification?	Q
-	A. They have to, to measure up to the contractual	x
R	requirements. But in terms of design, to make them	R
S	compatible, we need to have a pre-approval process, to	S
_	make sure that the project team would have the	
Τ		Т
U		U

Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into E Lead Found in Drinking Water	Day 04	B
С	0	opportunity to look at the whole thing.		С
D	Q.	You would not say, for the bathrooms, "You need		D
		a particular colour", but in the pre-approval proces	5,	ν
Ε		rather than looking at the specifications, you also	look	Е
F		at the aesthetic element?		F
	Α.	Yes, indeed, but the materials that we specify, the		-
G		contractors would have to make sure that they measure	e up	G
Н		to the requirements before they can place the order.		н
		This is a general condition.		
Ι	Q.	Understood. Also, a moment ago, I put a question to	you	Ι
J		regarding 2002. You started the contractual		J
		requirements for copper pipes to be used for PRH unit	ts,	
К		and copper pipes had to be used?		K
L	Α.	Under the contract specification, we had two things	in	L
		existence. One is uPVC GI pipes, the other one is		
Μ		copper pipes. The contractor can choose which one to)	Μ
Ν		use. With this choice, all contractors opted for cop	pper	N
0		pipes. Maybe they still use copper pipes in the priv		0
0		sector.		0
Р	Q.	Right. I put this before and you don't have to answ	er	Р
Q		me now. Maybe this is a request for documents. Mr Y	in	Q
· v		might look at this.		V
R		Now, in the Housing Authority, I would like to fi	nd	R
S		out about any policy changes, from lined GI pipe, mo-	ving	S
		on to copper piping. In this process of change le	et's	
Т				Т
U				U

Commission of Inquiry into Excess Lead Found in Drinking Water

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not talk about the transition period for the time being -- but there is a policy change involved.

A moment ago, you said that this policy change, rather than considering how the clause should be drafted, you also had to consider the actual measures, like the list might have to be changed, there may be certain addition. This is an incremental change. You change the clause, then with the change there may be knock-on effects.

Now, what we would like to -- I know it might take a little bit longer time; you don't have to produce this tomorrow, we don't really want to set a deadline -- but because of this policy change, has the Housing Authority conducted any study -- this must be studies prior to the policy being changed, the pros and cons of using copper pipes and the safety consideration; any memo to say that the clause should have certain things added to it -have you considered the implementation measures prior to the policy being changed? I'm sure there would be some documents available for the change from GI pipe migrating to copper pipe. Do you have any documents, any papers, internally, in preparation for the change?

Now, from 2000 to 2001, you may start the deliberation, and then 2004-2005 -- I don't need the whole box, boxes of documents.

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Day 04

Α	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	B
C		Now, regarding the migration from GI pipes to copp pipes, I need some documents are you with me?	er	С
D	A.	Chairman, I understand the SC's request, but I think	we	D
E		do need a bit of time to put together these records.	We	Е
		do need a bit of time.		
F	Q.	Understood.]	F
G	A.	But as a general practice, when we change the measure	es,	G
н		we would have regard to the feedback from users, from		
Н		the maintenance and repair people. We also look at t		H
Ι		implementation, the construction. This is the usual]	I
J		practice.		J
K		But if you want me to get hold of the documentatio	,	K
		I do need time, because we are talking about somethin that happened about a decade or so ago.	g	
L	0]	L
Μ	Q.	Please try your best. Chairman, maybe before Christmas?]	М
Ν		Try your best, Ms Fung. You know what I am drivin	a i	N
0		at. I would like to find out about the paper trail,		
0		deliberation with the change to copper pipes, and wou		0
Р		there be any consideration of the solder, and also]	Р
Q		things did you consider maybe there was nothing, t	hen	Q
D		you tell us there was nothing.		_
R	Α.	I can get hold of more information, but, as far as I	can	R
S		recollect, we made the change because with uPVC-lined	GI	S
Т		pipes, it wasn't popular in the trade. We were a big		Т
U			1	U

Α	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	B
С		user, but in the market out there, nobody was using t	his	С
D		kind of pipes. As we looked at the trend, we had to		D
		change the practice to align ourselves with the gener	al	_
Е		practice.		Е
F		If people have moved in, then it would be difficul because people out there were using copper pipes.		F
G		Copper pipes were so commonly used and we were the od	d	G
		man out: we used GI pipes. And we just moved on with		
Н		the trend. That was the process that drove the chang		Η
Ι		As to whether there were any papers, any		Ι
J		deliberation, I think I need time to put together		J
		information.		
K	Q.	Yes, I understand that. The example you gave was the		K
L		driving force, why there were such changes. Now, wha	t	L
М		we are interested in is, in the process of considerin	-	
Μ		the changes, did you consider the hazard, the safety		Μ
Ν		element? Maybe in the paper that you dug up there wa	S	N
0		nothing because there was something that was tried		0
		and tested; maybe the answer was nothing. Fair enoug		U
Р		But please have a look and see whether there would be		Р
Q		any information. Maybe someone would say that we sho		Q
		consider the safety element. As you said, maybe the		c
R		trade considered nothing wrong with the system.		R
S	Α.	Let me say this. I did try to find the information,		S
Т		I tried to trace the specifics regarding soldering, a		Т

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Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into a Lead Found in Drinking Water	Day 04	B
С		we couldn't find any physical record in this regard.		С
D		All we got was the BS 1254, the table, and we have the		
D		in the footnote. This is in relation to soldering.		D
E		That is what I have, and we asked the colleagues. I	did	E
F		try to dig up the record. If you want me to find out		F
F		more records, I will try, but initially we didn't		F
G		find any record in this regard we were not aware	of	G
Н		this risk.		н
	Q.	Please try your best.		п
I	Α.	Yes, we will. But we have already tried to locate t	he	Ι
J		records.		J
-	Q.	It's not really about why the clause had to be chang		U
K		We are more interested in the knock-on effects and		K
L		whether it would affect the form.		L
		The records are not here, but what about the thou	ght	
Μ		process, that's something we want to know.		М
Ν	Α.	According to our initial understanding and our recor	ds,	N
		strictly speaking the answer was no, because we were		
0		aware of the risks at that time.		0
Р	Q.	So please try to locate the records. So this is abo	ut	Р
Q		the principle, initial principle.		0
Q	Α.	We tried to do it but we have not found anything yet		Q
R	Q.	I would like to move on to a new topic, for the Task	:	R
S		Force, the Task Force by the Housing Authority, the		S
		report: A1, page 690. Paragraph 3.3.2, page 691.		2
Т				Т
U				U
V				v

Commission of Inquiry into Excess Lead Found in Drinking Water

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С	A situation was mentioned. We are not talking about	С
	solder. This is by the Water Supplies Department. This	
D	is not about solder but rather something else. The	D
E	title is for "Non-compliance with BS", non-compliance	E
	with the British Standard, in other words.	
F	Some valves are mentioned and taps. When	F
G	dismantled, they were found to not be the brands and	G
	models submitted to the Water Authority in the form	
Н	WWO 46. Although they were on the approved list of	Η

brands and models, they were not the brands stated on the form.

Elemental analysis of these valves and taps showed that the lead content:

"... did not comply with the BS requirement in respect of the lead contents of 4-6 per cent for the copper alloy for valves and 0.5-2.5 per cent for the copper alloy for taps."

In other words, there's excessive lead. And the report says that, despite non-compliance with BS requirement in terms of the types and models, according to isotropic analysis, the lead contained in these fittings are not the same as the lead in water. So the lead in water incidents were not relevant to the presence of lead in these valves and taps.

My question is, for the approved materials on WWO

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Day 04

Α	Annex:	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	B
С		form 46, you understand that a list of fittings would	l be	С
D		included on form 46. Did the Housing Department's		D
	_	officers have a role to play on this front?		
Е	Α.			Е
F		WWO 46 was filed, it was when the works just started,		F
		and the building services engineers have not approved	l it	
G		at that point, but the form was filed.		G
Н	Q.	Hold on a second. You said the form was submitted		н
		before the works began?		
Ι	Α.	No, I meant the form was filled out by the licensed		Ι
J		plumber and it was submitted to our staff, including	the	J
		engineers, and our staff would get the form and sign	on	
K		it. It was when the project first started. And the		K
L		approval process had just started at that time. So,		L
		when they signed the form, the approval process for	the	
Μ		samples had just started.		Μ
Ν		So, generally speaking, the WSD and licensed plum	ber	N
		have a usual practice, in that if there are updates	to	
0		the list, the licensed plumber can clarify that with	the	0
Р		WSD. And before completion, an updated list must be		Р
0		compiled.		0
Q	Q.	So they could revise WWO form 46; right?		Q
R	Α.	They can update the annex, and the licensed plumber	and	R
S		WSD can update the list.		S
5	Q.	So, in other words, some documents have to be update	d?	5
Т				Т
U				U
V				v

Α	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	В
С		For example, if I stated brand X and I changed to		С
D		brand Y, I had to make the change on the form; right?		D
D	Α.	That's the work for the licensed plumber. For our		U
E		staff, when they approve the materials, they have to		E
F		make sure that the materials comply with the WSD		F
-		requirements. And the materials must satisfy the		•
G		requirements under the form WWO 46 categories.		G
Н		So those criteria must be checked before approval	is	Н
		given for the materials. If the approved materials a	re	
Ι		different from those listed in form WWO 46 annex, the	2	Ι
J		licensed plumber should update the list.		J
	Q.	Right. As far as I recall, the HD would vet the list	of	Ū
K		materials. So the Housing Department would approve t	he	K
L		types of taps used, and for WWO 46, the annex must	be	L
		approved by the WSD. So, at the end of the day, if t	he	
Μ		taps approved by HD well, it should be the same as	5	Μ
Ν		the taps approved by the WSD; right? In theory, they		N
0		should be the same?		0
0	Α.	Yes, correct.		0
Р	Q.	What about the order? When the works started, WWO 46		Р
Q		was filed before the plumbing works began, so the bra	nds	Q
		and models would be stipulated. So the most importan	t	C
R		thing for the beginning stage is an intention to		R
S		commence work.		S
	Α.	"Materials intended to be used".		
Т				Т
U				U

Α	Annex.	Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into Lead Found in Drinking Water	Day 04 B
С	Q.	"Intended to be used".	С
		So, in terms of time order, this is what happened	d at
D		the beginning. And the Housing Department would lat	er D
Е		approve the type of pipes to be used?	Ε
	A.	Yes, basically, some pipes might be approved, but or	
F		might not, or the form might not have submitted	F
G		altogether. So form 46 was submitted at an early st	age G
Н		and not everything would be approved at that point.	н
п	Q.	By the time they confirmed the brands to be used, the	H
I		would seek approval from the Housing Department and	they I
J		would send samples?	Ј
0	A.	The Housing Department would follow the criteria of	
K		WSD in approving the application. So we would make	sure K
L		that all WSD requirements are met.	L
	Q.	Let's say if brand "XYZ" were approved, that means	that
Μ		the Housing Department feels that they will comply w	with M
Ν		the WSD requirements. But the approved materials or	Ν
0		fittings might no longer be the same as those on for	
0		WWO 46. So, at the end, the WSD would ask them to	0
Р		update the annex, according to the latest brands to	be P
Q		used?	0
Q	A.	Correct.	Q
R	Q.	Now paragraph 3.3.2, for the Task Force. It says so	ne R
S		valves and taps dismantled were found to be not the	S
		brands submitted to the WA in the form WWO 46.	-
Т			Т
U			U
V			v

Α	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into Lead Found in Drinking Water	Day 04 B
С		So why do you feel that happened? Was it a case o	of C
		neglect or did someone forget to update the WSD?	
D	Α.	That's the case. The applicant did not update the ar	nnex D
Ε		to WSD.	Ε
F	Q.	I would like to ask the chief architect or the chief	
F		building services engineer involved.	F
G	A.	They should have records and they would have a clear	er G
Н		picture what happened at that time.	н
11	Q.	Later, for the two valves and taps used, they were o	n H
Ι		the directory of acceptable pipes and fittings.	Ι
J		There was still excessive lead. I know you don't	J
U		represent WSD, but why do you think that happened? T	
K		application was for brands A, B and C, but yet there	was K
L		excessive lead. Why do you think that happened?	L
	Α.	We are looking at two different issues. First, the	
Μ		materials in the annex of form WWO 46 are different i	Erom
Ν		the materials actually used. The second question or	the N
0		second issue is, although the WSD has pre-approval, t	che O
0		lead content in alloys is excessive, and the two issu	-
Р		are not correlated to each other, and some materials	are P
Q		the same as those within form WWO 46, but there was	Q
-		still excessive lead. So the two had no direct	
R		relation.	R
S	Q.	So, in the example just now, so the licensed plumber	S
_		probably went to the WSD, asking to have the annex	
Т			Т
U			U
V			v

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		aission of Inquiry into a Lead Found in Drinking Water	Day 04	B
С		updated, which is on your list, so that the document		С
		reflects the actual taps used.		
D		The second issue still remained, for the three ta	ips	D
E		approved by WSD, there was excessive lead. So what	is	E
		your take on this?		
F	A.	This is not related to the first issue, actually. W	e	F
G		can try to dig up the approval documents by the $\ensuremath{\mathtt{WSD}}$	at	G
Н		that time.		TT
п		With regards to quality control for the		H
Ι		manufacturing process, certain there might have b	een	I
J		deviations in some batches. So this is a layman's a		J
0		on this issue.		J
K	Q.	So some brands might have deteriorated, they might b	ре	K
L		counterfeit products, or there might be neglect when		L
		filling out the form in the first place?		
Μ	A.	There can be many reasons, but talking about our cor	itrol	M
Ν		and surveillance, even if we test the valves, when w	e	N
0		conduct the performance test, we would not test or		
0		analyse the alloy. In the industry, they have this		0
Р		process. Unless there are specific reasons or doubt	, as	Р
Q		to certain materials containing alloy that is not		Λ
Q		compliant with BS, then they would produce the mater		Q
R		according to the specification.		R
S	Q.	Please materials were found to be in excess of the		S
		standard. But at day one they were approved by the		~
Τ				Т
U				U
V				v

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	1	A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 04	B
С		Housing Department, because they were on the Water	(С
		Supplies Department's list. When the HD approved the	ese	
D		taps, it acted in accordance with the WSD. It didn't]	D
Ε		test the chemical?]	Е
Б	A.	Correct.		F
F	Q.	I put this to you yesterday. Some gave the Fry sold	er	F
G		to the HD for testing and it was approved, and maybe	the	G
Н		Housing Department trusted the brand Fry, it claimed		Н
		be lead-free, and you didn't conduct any chemical te		[]
I		did you?	J	I
J	A.	Fry has two types of material, one is lead-free, one	: is	J
		not.		
K	Q.	I understand, but here we are talking about the]	K
L		lead-free one.	J	L
	A.	Fry has two products, one lead-free, one not lead-fr		
Μ		These two types come in rolls. The only difference i	is	Μ
Ν		the colour of the label.	1	N
0	Q.	So when you buy Fry, it doesn't have to be lead-free		~
0	A.	Yes.	· · · · · ·	0
Р	Q.	So basically you trust that if they use a Fry lead-f	ree I	Р
Q		product, you would have trust in it?		Q
×.	A.	This solder material is so popular, so commonplace i		Q
R		the trade, everyone in the industry would know this	J	R
S		brand.	;	S
	Q.	I understand. If they say it is Fry lead-free, then		
Т			,	Т
U			I	U
v			,	V

Α	Annex:	: Realtime English Transcription based on floor / Simultaneous Interpretation	А
В		ission of Inquiry into a Lead Found in Drinking Water	Day 04 B
С		people would have confidence. If they buy something	out C
D	А.	of the hardware store, would you test it? Now we would, but at that time, nobody knew that the	re D
Е		was such a risk. At that time, our colleagues didn't	
L		have such an awareness to check this particular item	
F	Q.	At that time, if someone did not use this famous Fry	F
G		brand name	G
	A.	Well, we don't even know if they used Fry lead produ	
Н	Q.	Well, if they buy it from the street or from the	H
I		hardware store, they present this roll and they claim	m I
J		that it is lead-free, you would accept it at that ti	me, J
-		wouldn't you?	Ŭ
K	A.	With hindsight, our colleagues would not check wheth	er K
L		the roll contains lead or not. We didn't even know	L
м		there was an X-ray fluorescence check or test that c	
Μ		be conducted. Without the awareness and without the	Ν
Ν		necessary arrangement, our colleagues wouldn't condu	ct N
0		these kinds of tests.	C
	Q.	Finally, let me say something about the prefabricate	
Р		parts. Would you please have a look at B3.1/1169.	Р
Q		This is the interim findings of the Housing	Q
D		Authority. There aren't many findings. Let's have	_
R		a look at the interim findings. Paragraph 27.	R
S		"(a) The 'excess-lead-in-water' incidents are	S
Т		unlikely attributed to the use of prefabricated kitc	hens T
-			1
U			Ŭ

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation		А
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04	В
С	or bathrooms."		С
	So it's got nothing to do with this.		
D	"With the exception of Kai Ching Estate, in all		D
E	cases prefabricated kitchens and bathrooms do NOT	have	E
Б	plumbing pre-installed"		
F	So the plumbing is installed on site.		F
G	"Pre-installed plumbing in prefabricated kitche	ns	G
Н	and bathrooms was only used as a pilot in Kai Chin	g	п
11	Estate. And even in Kai Ching Estate, out of t	the	Н
Ι	seven flats from which water samples were found to		Ι
J	contain excess lead content, only one involved		J
U	a prefabricated component (a kitchen) with water p	ipes	J
K	pre-installed"		K
L	Whether it has to do with the prefabricated uni	ts,	L
М	we can find out from the experts, but let me put		м
Μ	a question to you. For prefabricated units, they v	vere	Μ
Ν	manufactured outside of Hong Kong; is that right?		Ν
0	A. The manufacturing was done in the mainland.		0
0	Q. So the pipes were connected in the mainland; is th	at	U
Р	right?		Р
Q	A. Piping connection, in the prefabricated units, yes	. But	Q
-	there are many connections that are not inside the	units	×
R	but they are outside.		R
S	Q. Once the whole thing came to Hong Kong, they would	make	S
m	a connection, but, within the prefabricated units,	the	
Τ			Т
U			U
V			V

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 04	В
С		connection was done in the mainland?		С
	A.	Correct.		
D	Q.	So the one who does it is not a licensed plumber?		D
Ε	A.	A licensed plumber, we allow them to have the		E
_		supervisory role and supervised people could be allo	wed	
F		to work together with them.		F
G	Q.	Under section 15, the licensed plumber, does he have	to	G
н		do it himself, under the law, it is stipulated		Н
11		a licensed plumber will have to undertake the work,		п
I		then, whether we are talking about local workers or		Ι
J		mainland workers, it is not allowed, even if there i	3	J
		a supervisory role. You are saying that the licensed	1	-
К		plumber, Lam Tak Sum or Ng Hak Ming, you would expec	t	K
L		them to play the supervisory role, do you?		L
	A.	Well, they can travel to the place of manufacturing.	In	
Μ		the process of manufacturing, there is such		Μ
Ν		an expectation.		Ν
0	Q.	Do you really think that they would turn up at the s	ite	0
U		to supervise the manufacturing?		0
Р	A.	Well, you have to ask the main contractor as to how	they	Р
Q		manage the production line.		Q
-	Q.	Prefabricated units, is it in the main contract?		x
R	A.	Well, this is the responsibility of the main contrac	tor.	R
S		Whether the manufacturing takes place in Hong Kong o	r	S
T.		whether the manufacturing takes place outside Hong K	ong,	_
Τ				Т
U				U

Α	Annex	:: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		nission of Inquiry into s Lead Found in Drinking Water	Day 04	В
С		it is the main contractor that is responsible.		С
D	Q.	I get the feeling that as long as they can sign on t	he	D
D		dotted line, it would be okay. Whether a licensed		D
Ε		plumber has turned up, it doesn't matter, as long as	you	Е
F		sign on it?		F
	A.	Well, I cannot say this on behalf of the licensed		-
G		plumber, but as long as they put their signature the	re,	G
Н		they should have the supervision role and		Н
		responsibility.		
Ι	Q.	Let's have a look at what Lam Tak Sum had to say.		Ι
J		Bundle Q, page 17.		J
		That's a record of an interview. He said in		
К		paragraph 3: Mr Lam confirmed that the form WWO 46,		K
L		Mr Lam is responsible for Kai Ching Estate, he said	that	L
		WWO 46, what materials were submitted by him, but as	far	
Μ		as he recollects, he couldn't remember whether the t	aps	Μ
Ν		and plumbing was installed in accordance with WWO 46		Ν
0		Mr Lam claimed that for Kwai Ching and Kwai Luen		_
0		Estates, with regard to the change of the fittings,	ne	0
Р		did ask the chief building services engineers.		Р
Q	A.	It should be "building services engineer", not "chie	f".	0
¥.	Q.	It was said that it had to be submitted to the WSD.	The	Q
R		engineer told him that there was no need to resubmit		R
S		WWO 46, part I and part II. It would be okay for hir	ı to	S
		communicate with the Housing Department. So Mr Lam o	lid	~
Т				Т
U				U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04 B
С	not submit the form. So the Housing Department told	him C
	that he didn't have to amend the annex to WWO 46.	
D	That's what he said. Can you see that?	D
E	A. This is the first time I have seen that.	Ε
	Q. Well, that's what Mr Lam said. The Housing Departmen	
F	told him not to have to change it. How do you respon	rd F
G	to that?	G
Н	A. I think this sentence is really mind-boggling, becau	
п	normally my colleagues would not normally tell Mr Lar	n to
Ι	refrain from doing certain things.	I
J	MR YIN: Chairman, my instruction is that what this	J
0	paragraph says is the "resident BSE". This may not b	
К	the Housing Department. The contractor has his own	К
L	professional with his particular title.	L
	MR SHIEH: We can find out about it, because there are t	
Μ	people with the title "building services engineer".	М
Ν	Housing has CBSE.	Ν
0	CHAIRMAN: When it says the Housing Department, I think	
0	the context it was the Housing Department's engineer	0 who
Р	told you.	Р
Q	A. Let me say this. Under the contract, the main	Q
C C	contractor has to have a building services engineer t	
R	co-ordinate the building services work. Second,	R
S	generally speaking, in the construction site we don't	t S
	normally have a resident BS engineer. So we don't ha	ive
Т		Т
U		U
V		V

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day 04	В
С	this particular personnel. So we don't really have	С
-	a resident building services engineer for this project.	C
D	MR SHIEH: But you have a CBSE?	D
Ε	A. Yes, under the chief, there is a senior, there is	E
-	a project BS engineer. We don't have the luxury of	_
F	a resident BS engineer.	F
G	Q. If this is the case, then we will put this to China	G
н	Construction, because this is a project under China	Н
	Construction. The details were forgotten, and so on.	11
Ι	Finally, I would like to raise two more than points.	Ι
J	First, the internal structure, and also the manual. You	J
	talked about the form, 37641, and I asked you whether	
K	there was any structure that you can show me. 37641 is	K
L	the form, form 6210.	L
М	Have you found anything that shows the responsible	
М	department within the HD for updating the manual?	Μ
Ν	A. Let me talk a little bit more about the story. Some	Ν
0	inspection forms well, there are certain inspection	0
-	procedures, according to the specifications. As	Ū
Р	I mentioned this morning, for plumbing installation, the	Р
Q	specs contain two parts. The first part is the pumping	Q
	station and the equipment inside, and second is the	
R	installation of the equipment outside. And for the	R
S	specifications inside the pumping room, we have	S
Т	something known as SWP, and for the specs inside the	T
I		Τ

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Commission of Inquiry into Excess Lead Found in Drinking Water

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pumping room, they are going by PLU1 and 2. And the CBSE, or chief building services engineer, would take care of SWP and PLU1 and the relevant specifications, and the chief architect (development) would take care of the specs under PLU2. So that's the division of work. They both work under the same Deputy Director.

G We have a joint technical group, building services, and we have another working group, another joints material group. For PLU1 and LWP, if there are any updates, the chief building services engineer would be responsible for that. And on the other hand, PLU2 would be taken up by the other chief building services
K engineer.

> The staff responsible for property management would conduct a joint review and they would provide feedback on performance and the latest updates and availability of materials. Then they would collect views from the trade before updating the manual.

And under the specifications, the materials must undergo approval. We have a construction materials management board in our department, and their advice would be sought before confirming the manual. And in the year 2010, we commissioned a consultant to review the specifications for building services installations, and that included the fire services and LWP pumps and

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Day 04

Commission of Inquiry into Excess Lead Found in Drinking Water

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the plumbing under PLU1. I hope our specifications are up to date and that's why we conducted a review.

We commissioned a consultant who specialises in building services, and we wanted to cope with standards on the international scene, including those in the trade and professional practices. So we wanted to keep ourselves up to date with the latest technologies. So G it was completed by 2013 and the latest specs were Η published in 2014.

So, for the form 6210, page 37641, the form was created based on the 2004 specifications. After the review in 2004, we inserted a clause to include expressly on-site delivery verification. Since this is a contractual requirement, the site inspection must include on-site delivery verification.

So a lot of times our site inspection would be updated based on the latest developments of the trade. So that's what happened in 2005. If we receive any warnings or alerts that prompts us to update the form, then the manual would be updated as well, or if during site practice some materials could lead to certain incidents, then they would be included as well in the requirements.

> So we rely on feedback from frontline workers or users, and we also listen to the trade in order to keep

> > - 187 -

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Commission of Inquiry into Excess Lead Found in Drinking Water

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So, for the form itself, I said that the specifications would be updated by two chief grade officers. This is the site inspection manual. We conduct an annual review for this manual.

Of course, we wouldn't update every page, but we do have an annual review and, based on the feedback, we would update the manual and some tests have to be updated as well.

The review authority is the chief architect, and, based on organisational changes, there would be different colleagues involved: between 2000 and 2012, chief architect 1, and for 2004 it's chief architect 4, and in 2013 it's chief architect 5. So different staff would be responsible. And the issuance authority would be an assistant director. So that's the way that we work.

As for changes to the entire document, they are based on different views and the latest trade developments. We conduct an annual review and we have slight changes every year, on different areas of work. Q. You mentioned the reviewing authority, CA1 to 5. This is attached to the post, right, so whoever is attached to CA4 would be responsible, since the actual people would be switched around?

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Day 04

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation			A
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04			B
С	Α.	We have always had a division of work. No single per would take up the work.	rson	С
D	Q.		next.	D
T	ç.	question already. For paints, let us just look at so	ma	-
E		examples. Why did you include paints?	-	E
F	Α.	When the material was included, there was a requirem	ent	F
G		that such was required on the form.		G
	Q.	Now let's look at FIN 7. Page 900.		C
Н		Let's start from the beginning. This is for		H
I		Kai Ching Estate. This is part of the contract book	for	Ι
T		Kai Ching Estate. The contract was very thick, so we		Ŧ
J		will just look at some parts: "Proprietary suspended		J
К		ceilings", and paint was mentioned.		K
L		There are a lot of requirements. For example, in		L
		line 5, it says "Submission Requirements": if a sampl	e	
Μ		is provided for HD approval, then the following		Μ
Ν		requirements must be met.		N
0		There are a number of quality requirements.		0
0		Page 896, et cetera. For quality and performance		0
Р		requirements, page 896, we have "Preliminary examinat	zion	Р
Q		of paint", and so on.		Q
		So, when the HD approves the paints, these criter	ia	
R		would be followed. So this is part of the project, p	art	R
S		of the contract. So, in other words, everything is		S
Т		stipulated.		т
1				Т
U				U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation		A	4
В		nission of Inquiry into s Lead Found in Drinking Water	Day 04 H	3
С	A.	So these are submission requirements, so certificate	S (С
5		must be produced to prove that the materials are		
D		compliant.	I	D
Ε	Q.	So, as long as they can provide the right documents	that H	Ξ
F		they have done those tests, it's enough; right?	_	_
F	Α.	Usually, we would look at document tests. We would	look	ť
G		at their certificates.	(G
Н	Q.	For page 897, "On-site delivery verification": accor	-	T
п		to the contract, when the materials arrive at the si		H
Ι		the following methods would be adopted?	I	[
J	Α.	Correct.	J	ſ
0	Q.	So, under the verification items, we have a number o		J
К		items. We have proprietary brand names, manufacture	r's F	K
L		name; visual inspections would be done, and they wou	ld I	Ĺ
		tick off certain items, and the method is visual che	ck.	
Μ		So the contract says very clearly that the paints	Ν	M
Ν		must be checked. So, on the form we just looked at,	the N	N
0		relevant FIN 7 clauses have been mentioned. So,		_
0		according to the contract, the paints must be checked		C
Р		and you should refer to the contract for the methods	. I	2
Q	Α.	Yes, you can look at it that way. But the on-site	(2
C C		delivery check means that all these items must be	Ň	۲
R		checked.	I	R
S	Q.	So you inform the contract manager and blah, blah, b	olah. S	5
_		But it's mandatory, right, according to the record for		
Т			1	Г
U			τ	U
V			v	V

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	А
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	A. Yes.	С
	Q. So basically the on-site verification, it is stipulated	
D	on the contract, relies on visual checks or document	D
Ε	checks?	E
Б	A. Correct.	_
F	MR SHIEH: Thank you. I have no other questions.	F
G	MR CHAN: My Chairman, may I openly apply to ask questions	G
н	of Ms Fung?	н
п	CHAIRMAN: Any questions from other counsel, apart from the	Н
Ι	WSD?	Ι
J	Would any counsel Mr McCoy? Do any counsel wish	J
U	to ask questions? We have four.	J
К	Let's take a ten-minute break. We will re-convene	K
L	after ten minutes.	L
	(3.29 pm)	
Μ	(A short adjournment)	Μ
Ν	(3.40 pm)	Ν
	Cross-examination by MR CHAN	
0	(All questions from Mr Chan were in English)	0
Р	MR CHAN: Ms Fung, I know it's been a long couple of days.	Р
Q	Perhaps I can speed things up by first asking you this.	0
Q	Did you hear the oral testimony of Prof Cheung on Monday	Q
R	and Tuesday, or if not, did you have some opportunity to	R
S	read the transcript of his evidence?	S
	A. I listened to that but I didn't see the transcript.	-
Т		Т
U		U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	I heard Chairman Cheung's testimony.	С
D	Q. And is there anything, in terms of the evidence that you heard, that you would disagree with or wish to bring up?	D
Е	CHAIRMAN: This is a very broad question.	Ε
	MR CHAN: You were asked some questions yesterday about the	-
F	Housing Authority's lack of awareness as to certain	F
G	lead-related risks and about the authority's risk	G
	awareness approach in general. Do you remember that?	
Н	A. Yes, I do.	Н
I	Q. I would like to ask you a few more questions in this	Ι
J	area, and let's see if we can perhaps add a bit more	J
U	light and context to the matter.	J
K	Let me start with the Housing Authority's approach	К
L	specifically to the risk of non-compliance with the	L
	specifications which the Authority has included in its	
Μ	building contracts and documents, since this really goes	Μ
Ν	to the heart of matters.	Ν
0	Am I right that, as a matter of practical reality,	0
0	a given building contract that the Housing Authority may	0
Р	have may involve dozens or indeed hundreds of specific	Р
Q	requirements on design, technical or managerial matters?	Q
c	A. (In English) Can you please repeat the last part of your	×
R	question?	R
S	Q. Yes. Is it right that for the average or standard	S
T.	contract that the Authority will have in terms of its	_
Т		Т
U		U
V	102	v

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	А
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	construction projects, the number of specifications that	С
	you will find in the contract would number in the dozens	
D	if not the hundreds?	D
Ε	A. (In English) The specification I think is over 9,000.	Е
T	Q. Oh, in the thousands?	-
F	A. (In English) I think I've got it in	F
G	Q. Over 2,000? 9,000 or 2,000? Anyway, it's in the	G
Н	thousands.	н
	A. (In English) If I can refer to the paragraph. It's	п
Ι	9,000-something.	Ι
J	Q. So in the thousands? I don't need a precise figure from	J
	you, but it's a high number.	
К	Isn't the reality	К
L	A. (In English) Over 9,000 and about 280 referring to the	L
	plumbing. I think it's a total of over	
Μ	9,000 specifications and about 280 are relating to	М
Ν	plumbing installation.	Ν
0	Q. Yes. Now, the reality is that, in theory, any one of	0
0	these stipulations could be breached by the contractor?	0
Р	CHAIRMAN: You can choose to answer in Chinese or English.	Р
Q	MR CHAN: I'm sorry, yes, we should have raised that.	Q
	Whatever language you are most comfortable in,	
R	Ms Fung, in answering in, please feel free to use that,	R
S	although probably logistically it's helpful if you are	S
T	consistent in the language that you use for your	
Т		Т
U		U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation		Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04	В
С	answers.		С
_	A. (In English) Sorry, please repeat your last que	stion.	
D	Q. Yes, of course. So, of the 9,000-odd stipulation	ons in	D
Ε	total, of which I think you have told us there a	are	E
Б	nearly 300 relating to plumbing, from a risk		
F	perspective, in theory anyway, any one of these		F
G	specifications might be breached or not followed	d by	G
Н	a contractor who's required under the contract .	to follow	Н
11	the specifications; is that right?		п
Ι	A. In general, in our risk management, it's got no	thing to	I
J	do with the number of specifications. We have t	his	J
U	risk-based approach. It doesn't matter what the	2	U
K	specifications are. We would find ways to deal	with	K
L	them. Generally speaking, if certain materials	are	L
	prone to problems, if they are of high risk, the	en we do	
Μ	have measures to deal with them. For materials	that are	Μ
Ν	of a lower risk, then we would deal with them in	n	Ν
0	accordance with the normal practice.		
0	Q. So, in other words, it's necessary, given the l	imited	0
Р	resources of the Authority, to base, really, it:	5	Р
Q	priorities on some risk management system or som	me risk	0
¥.	management assessment; is that correct?		Q
R	A. That is correct. Generally speaking, our contra	act would	R
S	place the construction responsibility on the		S
	contractors. For our part, as Housing Authority	, as the	
Τ			Т
U			U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	landlord, we would have our staff or the resident staff	С
-	helping us to random-check the materials.	Ū
D	Q. In relation to the lead incident that we are now	D
Е	inquiring as to, would you agree with this, that the	E
	real question in relation to awareness is not whether	
F	the Authority or others in the industry should have	F
G	generally known that lead can be harmful to health, or	G
	indeed that lead may end up in water through a number of	
Н	different possible ways. I suggest to you that the real	Н
I	question as to risk is much more specific, namely: what	Ι
J	was the risk that contractors within Hong Kong who were	J
J	required by contract to use non-leaded solders would not	J
К	do so?	K
L	CHAIRMAN: I don't really understand your question.	L
	MR CHAN: I will break it down. I will break it into two	
Μ	parts.	Μ
N	Do you agree that the real risk that the Housing	Ν
0	Authority had to guard against in this case, in relation	
0	to the use of non-leaded solders, was the possibility of	0
Р	contractors not complying with the specific contractual	Р
Q	specifications? In other words, having specifically	0
Q	specified in your contracts that non-leaded solders were	Q
R	not to be used, there would be a risk of non-compliance?	R
S	CHAIRMAN: Your question is too long. We cannot follow it.	S
-	MR CHAN: I was thinking of doing it this way, Mr Chairman:	6
Т		Т

U

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U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water Day	04 B
С	if I put the proposition, I simply want to see whether	С
	the witness agrees with it.	
D	CHAIRMAN: Your proposition is too long; can you make it	D
Ε	simple?	Ε
Б	MR CHAN: Okay.	
F	Ms Fung, isn't the great risk, in relation to the	F
G	contracts that the Housing Authority has, not that you	G
Н	have not included a specific clause as to non-leaded	н
	solder, but that they would simply not be followed in	п
I	practice?	Ι
J	CHAIRMAN: Excuse me, this is way too long. Please simplify	J
-	it further.	Ŭ
K	MR CHAN: Yes.	K
L	Why don't I approach it this way, Ms Fung: isn't it	L
	right that in relation to the construction industry in	
Μ	Hong Kong, which is very large and very active, before	М
Ν	this lead incident, the Housing Authority had no	Ν
0	knowledge of any incident in Hong Kong where	0
0	a contractor had used a leaded solder when it was told	0
Р	to use a non-leaded one?	Р
Q	A. We were not aware of such incident or issue. As for the	Q
×	risk, we were not aware of the risk of non-lead-free	v
R	solder.	R
S	Q. I will ask you a few questions in a moment as to the	S
	process by which you select contractors for Housing	
Т		Т
U		U
V		V

A	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
B		nission of Inquiry into s Lead Found in Drinking Water	Day 04	B
С		Authority projects. But could I first ask you whethe	r	С
C		it's safe to assume that in the construction or befor		C
D		the construction of these 11 affected estates, there	was	D
Е		a careful vetting process in relation to each of the		Е
		contractors that were selected?		
F	A.	This is correct. We have a list of HA contractors as	nd	F
G		they must satisfy certain basic requirements before		G
		being listed, including technical requirements, past		
Н		track record in Hong Kong, financial records and so o		Η
Ι		So there are certain requirements.		Ι
J		And the Buildings Department also has a list of		J
-		contractors and certain ISO requirements must be met		U
К		For example, ISO 9000 for environmental management as	nd	K
L		ISO 1400 and HASAS for us, and that's ISO 18000, and	we	L
		also have ISO 52000, 5001.		
Μ		So, generally speaking, our contractors must be		Μ
Ν		competent and they must have at least three years'		N
0		experience in Hong Kong.		0
0	Q.	I pause for a moment because I have been requested t		0
Р		pause to allow the transcribers to hear the translat:	ion	Р
Q		first before I continue.		Q
×		Ms Fung, do you recall questions put to you		Y
R		yesterday involving an incident of lead contamination	ı in	R
S		Scotland, and also similar matters in Wales and the		S
		United States? If you don't recall, that's perfectly	,	
Т				Т
U				U

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A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoDay 04Excess Lead Found in Drinking WaterDay 04	В
С	fine.	С
	A. I had never read about those incidents before yesterday.	
D	Q. In relation to foreign, overseas experience, may I ask	D
E	you this. As far as the Housing Authority is concerned,	Е
F	does it actively consider or take into account	_
F	guidelines given by the World Health Organization, the	F
G	WHO?	G
Н	A. Simply speaking, no. The reason is we believe that if	Н
11	the WHO has the relevant requirements, they would have	п
Ι	been reflected in the laws already, and the testing	Ι
J	requirements, et cetera, would have been reflected in	J
	the regulations already.	
K	Q. Now, in relation to the WHO and do tell me if this is	К
L	not within your knowledge are you aware that part of	L
	the fundamental mandate of the organisation is to direct	
Μ	and co-ordinate international health measures and	Μ
Ν	matters of international health awareness? Is this	Ν
0	something familiar to you? If not, I will move on.	0
0	A. (In English) No.	0
Р	Q. That's fine.	Р
Q	A. (In Cantonese) This is not within our scope of	Q
x	responsibilities. If we are to address all these	Y
R	requirements, we would look at the relevant ordinances	R
S	in Hong Kong, and if there is any room for improvement,	S
	we can refine it further. But everything is based on	
Τ		Т
U		U

Α	Annex:	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	B
C	0	the laws of Hong Kong. You were taken earlier today, I believe, to a furthe:		С
D	Q.	new document to this inquiry. I believe it's in		D
Ε		bundle A2 at page 888. It's a report of an Advisory		E
F		Committee. Perhaps we can go to that document. It's bundle A2, page 888.		F
G		To begin with, this is the press release in relat:	ion	G
Н		to the setting up of the Advisory Committee. Do you		н
I		recall a series of questions being asked in relation the work of this committee?		I
	Α.	(Nodded head).		-
J	Q.	Could you ask you please then to go to the report of		J
K		committee, which I believe is at bundle F1, page 32.		K
L		The first page of the report, just for context, start	.S	L
		at page 30 of the bundle, and I believe you were take	en	
Μ		specifically to paragraph 9 and the first sentence of		M
Ν		that paragraph. That's page 32 of that bundle.		N
0		Paragraph 9, the first sentence, reads: "In the UK and [the United States of America], the		0
Р		most common problem is the presence of lead in water		Р
		since during their development stage, lead pipes and		
Q		lead-soldered copper pipes were widely used."		Q
R		Do you have that statement in front of you?		R
S	A.	(In English) Yes.		S
	Q.	Can you please tell the Commission whether, in your		~
Т				Т
U				U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	knowledge or experience as an architect, the use of lead	С
	pipes and indeed lead solders were, in certain	
D	countries, quite commonplace up until relatively recent	D
E	times, the last few decades; is that correct?	E
F	A. As the Deputy Director of the HA, what this is saying is	_
F	that there were problems in the UK and USA, but no one	F
G	picked up these issues at this meeting or committee, and	G
Н	no one thought these issues had to be tackled in	Н
п	Hong Kong.	п
I	Q. In fact, if one is referring to the development stages	Ι
J	of the United Kingdom and the USA, we would probably be	J
	looking quite a few years back.	Ū
K	My question is, if the context is one of	K
L	maintenance, the maintenance of buildings and the safety	L
	of water quality there, that is an entirely correct	
Μ	statement, to point out that, in the past, leaded	Μ
Ν	solders had been used; is that correct?	Ν
0	CHAIRMAN: I don't really understand what you meant. Leaded	0
0	pipes have been used for centuries. For leaded solder,	0
Р	they weren't very common, if I'm correct. I think the	Р
Q	meaning of this sentence was that during the	Q
τ.	construction stage, certain issues would surface. In	× v
R	the past 100 or 200 years, lead pipes were commonly	R
S	used, and up until 1993 we saw the EPA report in the	S
	US and the report in Scotland in 2000 too we found	
Т		Τ

U

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A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	A
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	that in new houses, when copper pipe connections were	С
D	made, lead solder was used. So that's my understanding.	D
	So it has nothing to do with maintenance or other	
Ε	issues. So historically there were such problems. Lead	Ε
F	pipes were used and eventually copper pipes were used	F
_	and the copper pipes contained lead. So that's the	×.
G	simple understanding; that's the simple interpretation.	G
н	Let's not make things too complicated.	н
n	MR CHAN: Yes, Mr Chairman. I understand that.	п
Ι	Do you have any comments in relation to what has	Ι
J	been stated at the first part of paragraph 9, from the	J
	perspective of the Housing Authority?	
К	A. It's the first time I read this sentence. I feel that,	K
L	back then, nobody was aware that copper pipes or solder	L
	for copper pipes would contain lead. Otherwise, the	
Μ	Advisory Committee would have looked into this issue	М
Ν	separately.	Ν
-	But in this paragraph, according to the report, this	
0	issue was never tackled or addressed. So I believe that	0
Р	the Advisory Committee did not pinpoint this issue as	Р
Q	a risk area to be addressed. That's my interpretation	Q
-	on paragraph 9.	x
R	Q. Thank you for that clarification.	R
S	Now, Ms Fung, moving to a slightly different area.	S
T	You were asked certain questions yesterday about	
Т		Т
U		U

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into a Lead Found in Drinking Water	Day 04 B
С		a document issued by the Water Authority in August 2	2012, C
		titled "Guidelines on Cleansing and disinfection of	
D		Fresh Water Inside Service"; do you recall that?	D
Е	Α.	(Nodded head).	E
	Q.	You may need to say "yes" rather than just nod.	
F		Now, if I understand your evidence correctly,	F
G		yesterday, you seem to say that, in certifying that	the G
Н		materials used in the 11 affected estates conformed	
п		the British Standards, you looked to the 2012 circu	H lar
Ι		and the eight testing parameters in that circular.	Do I
J		you recall that part of your evidence?	J
0	A.	(In English) Yes.	U
K	Q.	First, may I just clarify with you: am I right in t	his, K
L		that of the 11 affected estates under inquiry, only	L
		three were completed after 2012, ie after the guide?	lines
Μ		were issued?	М
Ν	A.	(In English) I think I have to check that, as a mat	ter N
0		of fact.	
0	Q.	Perhaps I can assist with this. In relation to	0
Р		Kwai Luen Estate, I believe that was around 2014;	Р
Q		Kai Ching, 2013; and Wing Cheong, that's 2013 as we	
Q		But certainly so far as we can see, the remainder o:	${f Q}$ f the
R		estates were completed prior to 2012.	R
S	Α.	(In English) That's correct.	S
	Q.	Thank you. Now, in relation to those estates and the	
Т			Т
U			U
V			v

Α	Annex:	: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В		ission of Inquiry into E Lead Found in Drinking Water	Day 04 B
С		certification process there, what then was the Housin	g C
D		Authority what did it take into account, in the	_
D		absence of the 2012 guidelines?	D
E	Α.	(In Cantonese) I think all the tests had to be done i	n E
Б		accordance with the prevailing requirements.	
F	Q.	Now, in relation to the estates that you said you	F
G		referred to the 2012 guidelines for, you agree firstl	У G
Н		that lead content was not one of the eight parameters	
п		set out in the guidelines in that circular; is that	Н
I		right?	I
J	Α.	Correct.	J
-	Q.	Could you please explain, in that case, how the	Ŭ
K		Authority considered that a set of parameters that di	d K
L		not include one which tested for lead would be of any	L
		help or relevance in verifying whether the solders wh	ich
Μ		had been used in the Authority's developments contain	ed M
Ν		lead?	Ν
0		In other words, Ms Fung, in relation to the	
0		certification of non-lead solders for the Housing	0
Р		Authority's developments, what, as far as the Authori	ty P
Q		is concerned, is the relevance of 2012 circular?	Q
x	A.	I think I will answer this question like this. All	Q
R		along, we didn't have any risk awareness about lead i	n R
S		water. So much so that we could think of the problem	of S
		lead in solder, we would act in accordance with the ${\tt W}$	SD
Τ			Т
U			U

Α	Annex.	Realtime English Transcription based on floor / Simultaneous Interpretation	I	A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	B
С		requirements to conduct the tests. At different time	≥s,	С
		there may be different requirements, and we have to a	make	
D		sure that the drinking water would measure up to the	I	D
E		health or the hygiene standard.	I	E
F	Q.	Thank you very much. Now, in relation to an area wh		F
r		we touched upon earlier, the selection process of		C
G		contractors, there's also a nominated subcontractor	(G
Н		arrangement that the Authority sometimes enters into		H
		that correct?	-	-
I	Α.	Yes, that is correct. Normally, it is for the build	ing I	[
J		services part that we have nominated contractors.	J	J
	Q.	Is it correct that there is a nominated subcontracto		
K		arrangement for plumbing subcontractors for fire	I	K
L		services construction, but not for inside service?	I	L
м	Α.	Yes, we have the fire installation, fire pump nomina		
Μ		subcontractor, but for the inside services, well, th	e	М
Ν		trade will use domestic subcontracting. It's not just	st r	N
0		the water supply; the drainage will also be included		0
0		it.		9
Р	Q.	And in general terms, how does the Housing Authority	· I	P
Q		decide when to use a nominated subcontractor arrange	ment	Q
		and when not to?		
R	Α.	Generally speaking, for major building services	I	R
S		installations, governed by specific legislation, we	\$	S
T		would let the nominated subcontractors do it, like t		T
Т]	Г
U			τ	U
V			۲	V

Α	Annex:	Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into Lead Found in Drinking Water	Day 04	B
С		fire services pumps, for example, and the lifts, the	E&M	C
		installations, and so on.		
D	Q.	Is there a documented set of criteria that the Author	rity	D
Ε		refers to for cases where a nominated subcontractor i	.S	Е
_		considered appropriate? Is there a set of criteria		
F		that's been set down?		F
G	Α.	In the Housing Authority's list, we do have a list o	f	G
Н		contractors. For the nominated contractors, like the		
п		fire services pumps, we do have a list, and E&M we do		Н
Ι		have a list, and for lifts we do have a list.		Ι
J	Q.	Ms Fung, in your earlier evidence, you referred to		J
0		periodic supervisions of ongoing construction that wa		J
K		carried out by staff of the Housing Authority. Could		K
L		I ask how the frequency of those periodic supervision	IS	L
		was determined? How frequent were these supervisions		
Μ		and what considerations went into deciding the		Μ
Ν		frequency?		N
0	A.	Generally speaking, we work on the basis of risk-base		0
0		approach with which to decide the inspection percenta		0
Р		We do have some criteria. The chief professionals wo	uld	Р
Q		have regard to the specific needs and make some chang		Q
-	Q.	So, if I understand your evidence correctly, it all		×
R		falls within the discretion of the managing parties of	r	R
S		the Authority; there's no fixed protocols or parameter	ers	S
T		as far as frequency is concerned?		
Τ				Т
U				U

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		aission of Inquiry into Is Lead Found in Drinking Water	Day 04	В
С	Α.	Yes, we have some basic frequency or some inspection		С
D		percentage, some 100 per cent, some maybe 10 per cent		D
		Maybe we would have a certain frequency. We do have	tne	
E		criteria. But for individual projects, there can be		Е
F		fine-tuning, depending on the character of a particul project.		F
G	Q.	Are there any guidelines that one can refer to at le	ast	G
		for a general indication as to the level of frequency	-	
Н		regularity that inspections would be made, general		Н
I		inspections, for a given project or a given type of		Ι
J		system within a project?		J
0	A.	Yes, we do. We do have fairly rigid guidelines.		J
K	Q.	So, in relation to plumbing systems, as far as you a	ware	K
L		or as far as you recall, what guidance was given in		L
		relation to the frequency of inspections of plumbing		
Μ		works in particular?		М
Ν	Α.	In some of the exhibits, we did see that particular		N
0		page, about frequency of inspection. PLU1, PLU2, som	le	0
0		of them are 100 per cent, some 10 per cent. We do ha	ve	0
Р		all this information.		Р
Q	Q.	Perhaps you can assist by explaining how, if at all,		Q
-		this concept of percentages of inspection differs fro		C
R		frequency or the period of a particular inspection.	You	R
S		have referred to and we remember your evidence as	to	S
Ŧ		different percentages 10 per cent, 100 per cent.	But	re-
Τ				Т
U				U

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Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		ission of Inquiry into E Lead Found in Drinking Water	Day 04	B
С		is that the same thing as the frequency of inspection supervision?	n or	С
D	Α.	Well, the frequency has to do with the frequency of		D
Е		official inspection. So, in determining the percenta	uge,	E
-		we would do that.		Ľ
F	Q.	And would you be able to give an answer as to how th	е	F
G		frequency of the Authority's inspection of, say,		G
		plumbing construction would compare to that of		
Н		an authorised person in a private project development		н
Ι		and the frequency in which plumbing construction would	ld	I
J		be inspected in that private context? Is there any		J
-		difference?		
К	A.	Our practice would be similar to that in the trade,	but	K
L		we haven't done any direct comparison with the privat	ce	L
		sector.		
Μ	Q.	Thank you.		Μ
Ν	Α.	Well, the percentage that we have would be on the ba	sis	N
0		of risk and the manpower, and also the actual operat:		0
0		of the site.		U
Р	Q.	Thank you.		Р
Q		Now, Ms Fung, as a matter of your experience in t		Q
D		Authority's construction work, would you agree that :		
R		generally preferable, in terms of time or practicalit	CY,	R
S		to ensure that there's compliance with building		S
Т		specifications during the time of actual construction		Т
_				*
U				U

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04 B
С	rather than when construction is completed?	С
	CHAIRMAN: Can you repeat that question?	
D	MR CHAN: Yes. I would like to know from this witness	D
Е	whether she would agree that if you are going to focu	E E
F	your efforts and resources in assuring contractual	_
F	compliance, the best time to do it is when the plumbi	.ng
G	system or whatever it is you are looking at is in the	G
н	actual process of being built and not just afterwards	? H
	A. We have the in-process inspection and also as-built	n
I	inspection. We take them as just as important; one	Ι
J	can't replace the other. In particular, when it come	s J
	to the performance-based or output-based products, th	
K	end product would be very important.	K
L	Now, for the performance of the plumbing, for	L
	instance, you may have completed the connection, but	we
Μ	have to make sure that the entire system is good enou	ngh M
Ν	and the as-built commissioning and testing would be v	very N
0	important. It would be similar to the E&M facilities	
0	If they fail to pass, we will have to check what part	0
Р	has gone wrong and rectify the situation. And the pr	ice P
Q	we pay would be higher.	Q
C C	But the two sets of checking would be just as	×
R	important. They are complementary. We cannot have or	ne R
S	overriding the other.	S
	Q. Perhaps we can hone in a little bit on the question o	of
Т		Т
U		U

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Transcript by DTI Corporation Asia, Limited

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Commission of Inquiry into Excess Lead Found in Drinking Water

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leaded solders and their use and the checking of that. We have heard evidence about the different packaging that solders come in. Do you recall that? You have Fry, you have other materials that the solders themselves come packed in.

Do you agree that one simple way of checking, or verifying the content of the solder is by on-site visual inspection at the time when these materials are brought in, when they are still in their packaging or when they are being unpacked?

A. Yes. I won't talk about in the past, because we didn't have this risk awareness; we didn't check on that. Right now, also we conduct visual inspection. We do have a quarantine system as well: when the products turn up on the site, there would also be a checking, we have to make sure that the product itself is in compliance; so the products will be checked to verify that they are lead-free before they would be released for use.

So this is not just on-site delivery check. We have a quarantine checking as well, to make sure that the products are up to scratch before releasing them to the workers.

> And we do have a traceability to monitor where the workers are when they are using the products, and that would enable us to have an audit trail; if there are

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Day 04

Α	Annex	: Realtime English Transcription based on floor / Simultaneous Interpretation	1	4
В		nission of Inquiry into s Lead Found in Drinking Water	Day 04	B
С		problems, we know who used the non-compliant materia	als.	С
	Q.	I understand what you say about these additional or		
D		other checking measures. But in relation to the sim	ple	D
E		method of going on site, looking at the packaging of	the l	E
_		solders, will you agree with me that that is a very		
F		simple, effective way of conducting a spot verificat	ion	F
G		of what materials are being used?	(G
Н	A.	Let me put it this way. If there is a high-risk	,	
п		product, even visual inspection may not really be th		H
Ι		answer to the problem; we have to have some devices,	I	[
J		a more scientific way to make sure the products are		J
0		measuring up to scratch.	ચ	,
K	Q.	All right. I hear what you say.	J	K
L		Now, can I ask in relation to one particular	J	Ĺ
		paragraph of your witness statement, paragraph 78.		
Μ		page 37541 and I think internally page 39. Paragrap	h 78	M
Ν		of your witness statement.	I	N
0		You say there there's no cost information, to you		~
0		knowledge, in relation to the bills of quantities, b		0
Р		you refer to investigations where the Authority	I	P
Q		discovered that there is no significant cost savings	; in	Q
×		the use of soldering materials containing lead. Do		ł
R		have that in front of you?	J	R
S	A.	(In English) Yes.	٤	5
	Q.	Could you please elaborate a bit on what particular		
Т			ŋ	Г
U			I	U
V			,	V

Α	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В		aission of Inquiry into Is Lead Found in Drinking Water	Day 04	B
С		tests or investigative steps were actually taken for	you	С
		to make this statement, in relation to the saving of		
D		time? What investigations were actually made by the		D
E		Authority in relation to this?		E
	Α.	The investigation was done after the incident, and w		
F		had some findings.		F
G		As discussed earlier today, we came up with the c	ost	G
Н		saving for each flat, and we compared it with the man		
п		costs. In the bills of quantities, there is no cost		Н
Ι		information. The reason is that soldering is not		Ι
J		a separate price item. The built-in rates for the		J
-		copper pipes already include solder. So we didn't kr		U
K		the cost of the solder and we did not trace the		K
L		quantities of solder required for the flat or building	ng.	L
	Q.	Ms Fung, it may be my fault, but I'm not quite sure		
Μ		I got an answer to my question as to the investigativ	ve	Μ
Ν		steps that were taken.		N
0	Α.	We looked at the costs of the materials in the		0
0		investigation and we compared the time required for		0
Р		using unleaded solder and leaded solder. We had no		Р
Q		awareness of such risks at that time. We were told		Q
τ.		later that the cost difference wasn't significant		Y
R	Q.	Yes.		R
S	Α.	but then they could save some time. But we cannot	C	S
		just rely on what the trade says, so that's why we d	id	
Т				Т
U				U
v				v

A	Annex.	: Realtime English Transcription based on floor / Simultaneous Interpretation	A	١
В		ission of Inquiry into Lead Found in Drinking Water	Day 04 H	3
С		some tests on site, to see whether there were any	(۲
0		savings in time required. And cost savings were also		`
D		insignificant. So that's what I meant in paragraph	78. I)
E	Q.	Ms Fung, am I right in thinking that for a typical	I	£
		multi-storey building, such as one which the Authori	ty	
F		would have, there could be up to 96,000 or 100,000	F	7
G		joints that would need to be soldered for that	(ŗ
		development, about 100,000 or 90,000 joints? Is that		_
H		an accurate estimate, or if not, what would you sugg	est?	ł
I	A.	It depends on the design. Generally speaking wel	l, I	
J		it depends on the number of units in a building. We	can J	r
J		have more than 100,000 joints in some cases. It real		
K		depends on the number of storeys and flats, and it a	lso H	ζ
L		depends on the design.	Ι	
	Q.	Would you accept or agree with me that if there is e		
Μ		a very small time saving between types of solders fo	r	Л
N		a particular joint, for a single joint, that could	Δ	J
_		become a very significant saving if multiplied acros	S	
0		this sort of scale, among the 100,000, 90,000, 80,00	0,)
Р		joints in a building?	I)
Q	A.	If the consequences or the negative consequences wer		•
Q		apparent, then they would not decide to save the mon	еу,	Į
R		because we subsequently found that the cost and time	ł	ł
S		savings weren't significant. If we discovered	S	
		non-compliant materials were used, they have to repl		,
Т			ï	ſ

U

 \mathbf{V}

U

A	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry intoExcess Lead Found in Drinking WaterDay 04	В
С	all the pipes and plumbing, and the cost implications	С
D	would be even higher for them The cost implications	-
D	would be great if they had to replace all the pipes.	D
Е	If we had to test for lead in solder or water, if	Ε
F	the contractors were aware of that, they wouldn't be	F
Ľ	stupid enough to commit to this risk. We have the	Г
G	checking mechanism in place and they would be found out	G
н	sooner or later. So, as a result, they would not gamble	Н
	on that.	п
Ι	MR CHAN: Mr Chairman, I propose to move to a new area of	Ι
J	questioning. In fact, Mr Wong may continue tomorrow	J
	when I am not here.	
K	I understand that Mr McCoy and Mr Pennicott may have	К
L	an application to make, so I wonder if this would be	L
	a useful point at which to pause my questioning or the	
Μ	Department's question and to continue tomorrow morning.	Μ
N	I will allow Mr McCoy to make an application.	Ν
0	APPLICATION FOR EXTENSION OF TIME FOR SERVICE OF WITNESS	
0	STATEMENTS	0
Р	MR PENNICOTT: (In English) Mr Chairman, if I can make the	Р
Q	application. I make it primarily on behalf of	0
Q	China State but I understand it is supported by the	Q
R	other three main contractors. It relates to the date of	R
S	service of the witness statements by the four main	S
	contractors.	
Т		Τ
U		U

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking Water D	ay 04 B
С	As currently directed, we are to serve by close of	С
_	business on Monday afternoon. The application is for	
D	an extension of time for 48 hours until the end of	D
Ε	Wednesday of next week.	Ε
	The reality of the situation is that we've had	
F	resources tied up in the hearing. I have mentioned thi	s F
G	to Mr Shieh. I'm not quite sure what position he takes	• G
Н	But we would invite you to make a direction that we hav	
п	a 48-hour extension of time. I can't see how any	Н
I	prejudice can be caused to anybody. We are not going t	• I
J	get to the contractors' witnesses for a long time yet,	J
0	on the present rate of progress.	J
К	CHAIRMAN: (In English) Yes?	K
L	MR McCOY: (In English) Paul Y General Contractors Ltd	L
	entirely supports the application.	
Μ	CHAIRMAN: (In English) Yes?	М
Ν	MR LAM: On behalf of Shui On, we also support.	Ν
0	MR SHIEH: I don't see any impact on us. (Chinese spoken).	
0	MR LI: Chairman, I represent Paul Y. (Chinese spoken).	0
Р	CHAIRMAN: Wednesday, what time? 4.30 pm. So the deadline	Р
Q	is 4.30 on Wednesday, and the witness statement must be	e Q
×	filed before that time.	Q
R	Ms Fung, we have heard a lot from you, so that's	R
S	about it. Please come back tomorrow and there will be	S
	further questions from the counsel, so we will see you	
Т		Т
U		U
V		v

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Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation	Α
В	Commission of Inquiry into Excess Lead Found in Drinking WaterDay 04	В
С	at 10 am tomorrow. The hearing is adjourned.	C
	(4.23 pm)	
D	(The hearing adjourned until 10.00 am the following day)	D
Е		Ε
F		F
G		G
Н		н
Ι		Ι
J		J
K		К
L		L
М		М
Ν		Ν
0		0
Р		Р
Q		Q
R		R
		K
S		S
Т		Т
U		U
V		V

Α	Annex: Realtime English Transcription based on floor / Simultaneous Interpretation		A
В	Commission of Inquiry into Excess Lead Found in Drinking Water	Day 04	В
С	INDEX		С
D	PAGE		D
D	MS ADA FUNG YIN SUEN (on former oath)2		D
E	Cross-examination by MR SHIEH (continued)2		E
F	Cross-examination by MR CHAN		F
	APPLICATION FOR EXTENSION OF TIME FOR SERVICE119 OF WITNESS STATEMENTS		-
G	OF WIINESS STATEMENTS		G
Н			Н
I			Ι
J			J
K			K
L			L
М			М
Ν			N
0			0
Р			Р
Q			Q
R			R
S			S
Т			Т
U			U
V			v
	216		