

行政院及所屬各機關出國報告審核表

出國報告名稱：龍門計畫國外製造機械設備製程中品質查驗

出國計畫主辦機關名稱：台灣電力股份有限公司

出國人姓名/職稱/服務單位：邱雲長/稽查/核能安全處

出國計畫 主辦機關 審核意見	☒1. 依限繳交出國報告 ☒2. 格式完整 ☒3. 內容充實完備。 ☒4. 建議具參考價值 ☒5. 送本機關參考或研辦 ☐6. 送上級機關參考 ☐7. 退回補正，原因： ☐ (1) 不符原核定出國計畫 ☐ (2) 以外文撰寫或僅以所蒐集外文資料為內容 ☐ (3) 內容空洞簡略 ☐ (4) 未依行政院所屬各機關出國報告規格辦理 ☐ (5) 未於資訊網登錄提要資料及傳送出國報告電子檔 ☐8. 其他處理意見
層轉機關 審核意見	☐ 同意主辦機關審核意見 ☐ 全部 ☐ 部分 _____ (填寫審核意見編號) ☐ 退回補正，原因： _____ (填寫審核意見編號) ☐ 其他處理意見：

說明：

- 出國計畫主辦機關即層轉機關時，不需填寫「層轉機關審核意見」。
- 各機關可依需要自行增列審核項目內容，出國報告審核完畢本表請自行保存。
- 審核作業應於報告提出後二個月內完成。

報告人：

單位主管：

主管處主 管：

總經理
副總經理：



徐懷懷 11/3

行政院及所屬各機關出國報告提要

出國報告名稱：龍門計畫國外製造機械設備製程中品質查驗

頁數 43 含附件：☒是☐否

出國計畫主辦機關/聯絡人/電話：台灣電力公司/陳德隆（人力資源處）

/02-23667396

出國人員姓名/服務機關/單位/職稱/電話：邱雲長/台灣電力公司/核能安全處/

稽查/02-24902401 轉分機 2096

出國類別：☐1 考察☐2 進修☐3 研究☐4 實習☒5 其他（洽公）

出國期間：97/09/15~97/09/26

出國地區：韓國

報告日期：97/10/28

分類號/目：

關鍵詞：

內容摘要：本項出國計畫為依據龍門計畫 ASME Sec. III 核能級管路支架(Pipe Supports)採購合約(8749511M033B0)之規定，對核四工程核能級管路支架製造廠商 Bumwoo 公司執行製程中品質查驗，包括：停留檢驗點及見證檢驗點之執行、製造程序之查證、材料標示與包裝和儲存之查證、對不符合事項之處理、裝運前之最終檢驗及相關品質紀錄之審查等。查驗結果，品質紀錄審查發現有 12 項文件疏失，廠商均已立即配合完成改正；管路支架實體檢驗結果則未發現有不符情況。已依據查驗結果，簽署 Product Quality Certificate (PQC)，同意廠商交運本批 741 組管路支架。

出國報告（出國類別：其他）

龍門計畫國外製造機械設備製程中品質查驗

服務機關：台灣電力公司核能安全處

姓名職稱：邱雲長/稽查

派赴國家：韓國

出國期間：97年9月15日至97年9月26日

報告日期：97年10月28日

龍門計畫國外製造機械設備製程中品質查驗

摘 要

本項出國計畫為依據龍門計畫 ASME Sec. III 核能級管路支架(Pipe Supports) 採購合約(8749511M033B0)之規定，對核四工程核能級管路支架製造廠商 Bumwoo 公司及管件製造廠商 Sungkwang 公司，執行製程中品質查驗，包括：停留檢驗點及見證檢驗點之執行、製造程序之查證、材料標示與包裝和儲存之查證、對不符合事項之處理、裝運前之最終檢驗及相關品質紀錄之審查等。查驗結果，品質紀錄審查發現有 12 項文件疏失，廠商均已立即配合完成改正；管路支架實體檢驗結果則未發現有不符合情況。已依據查驗結果，簽署 Product Quality Certificate (PQC)，同意廠商交運本批 741 組管路支架。

龍門計畫國外製造機械設備製程中品質查驗

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壹、出國任務說明

本項出國計畫為依據龍門計畫 ASME Sec.Ⅲ 核能級管路支架(Pipe Supports)採購合約(8749511M033B0)之規定，對核四工程核能級管路支架製造廠商 Bumwoo 公司及管件製造廠商 Sungkwang 公司，執行製程中品質查驗，包括：停留檢驗點及見證檢驗點之執行、製造程序之查證、材料標示與包裝和儲存之查證、對不符合事項之處理、裝運前之最終檢驗及相關品質紀錄之審查等，實地查證廠商是否落實執行採購合約規定；對發現之品質不符情況，要求廠商採取必要的改正行動，以確保所採購之核能級管路支架符合採購合約之品質要求。

貳、出國行程

97.09.15 ~ 97.09.15	台北—仁川—釜山	往 程
97.09.16 ~ 97.09.16	釜山, Sungkwang Bend Co.	審查管件材證澄清事項 相關品質紀錄
97.09.17 ~ 97.09.19	Haman, Bumwoo Co.(Haman Plant)	執行品質查驗
97.09.20 ~ 97.09.25	首爾, Bumwoo Co.(Seoul Office)	審查品質紀錄
97.09.26 ~ 97.09.26	首爾—仁川—台北	返 程

參、核能級管路支架/管件製程中品質查驗工作報告

一、核能級管路支架查驗項目及數量

本次查驗項目及數量包括：

Unit 1 BONI Pipe Support：5 組

Unit 2 BONI Pipe Support：736 組

二、核能級管路支架查驗方式

查驗進行方式，主要包括：

1. 查驗相關文件及其修訂情況。
2. 審查核能級管路支架之品質紀錄文件之正確、完整性。
3. 查驗核能級管路支架之製造、標識、儲存、清潔和 Shipping Preparation 狀況。

三、查驗核能級管路支架相關文件及其修訂情況

與 Bumwoo 公司之 Project Manager Mr. Young Bae Kim, QA Group Mr. Soo Young Woo 確認目前無未結案之不符合事項；查對下列現行工作主要依據文件，確認均為台電核准文件：

1. TPC-Lisega Contract 8749511M033B0
2. Procurement Spec. for Pipe Support—ASME III, Div.1, Class 1,2,3(Spec. No.874-MS033B,Rev.0, Amendment No.2)
3. QA Manual (BWQAM-300) of BUMWOO (33061.MS033B.4-00037, Rev.0)
4. Inspection and Test Plans for Non-Welded Pipe Support & Welded Pipe Support (33061.MS033B.4-00045, Rev. 2)
5. Quality Record List(33061.MS033B.8-10050, Rev. 0)
6. Cleaning Procedure(33061.MS033B.4-00075, Rev. 1)
7. Surface Preparation & Coating Procedure(33061.MS033B.4-00042, Rev. 2)
8. Material Identification Marking Procedure(33061.MS033B.4-00044, Rev. 0)
9. Packing Procedure (33061.MS033B.4-00038, Rev. 1)

四、Bumwoo 公司負責 Lisega 公司之 BONI 及 CRD 核能級管路支架製造，至 97.09.13 之進度如下：

1. BONI 部份：

	<u>一號機</u>	<u>二號機</u>	<u>總 計</u>
Total Q' ty(sets) :	1422	4096	5518
(部份在美國製造)			
PQC Issued :	0	736	736
Shipped :	1399	1209	2608
Remain:	23	2151	2174

2. CRD 部份：

	<u>一號機</u>	<u>二號機</u>	<u>總 計</u>
Total Q' ty(sets) :	NA	111	111
PQC Issued :	(在美國製造)	0	0
Shipped :		96	96
Remain :		15	15

3. 製造工作預計 10 月底可完成，品質紀錄審查及包裝、交運工作預計今年底前可完成。

五、審查核能級管路支架之品質紀錄文件

審查各核能級管路支架之 QRP(Quality Records Package)，包括：Certificate of Compliance(C of C),NF-1 Data Report, Material Identification Report(MIR), CMTR, Visual & Dimension

Inspection Report, Paint Inspection Report, NDE Reports, As-built Drawing, Standard Component Assembly & Packing Trace List, Welding Procedure Specifications, Procedure Qualification Records, ...等，總計審查 Shipment No.8-10186 及 8-20187 共 2 份 Product Quality Certificate(PQC)所包含之 741 組 BONI Pipe Support 之 12 冊成套品質紀錄(QRP)共 4878 頁(詳附件 2、附件 3)，審查結果及處理情形(詳括弧內說明)如下：

- Shipment No.8-10186 (Total of 5 Supports)
 - 1. Support No.1G51-ANC-800133
QRP 之 Page13, Material Identification Report(MIR) 之 Item No.2, 將 PL 6 材質 SA36 誤植為 SA106 Gr.B。【已由 Bumwoo 人員更正並抽換 MIR】
 - 2. Support No.1G51-ANC-802401
QRP 之 Page19, Material Identification Report(MIR) 之 Item No.3, 將 PL 6 材質 SA36 誤植為 SA106 Gr.B。【已由 Bumwoo 人員更正並抽換 MIR】
- Shipment No.8-20187 (Total of 736 Supports)
 - 1. Bumwoo C of C No.06PP001-012
C of C 之 Attachment 1-Hanger List 中，將 Hanger No.2P11-ANC-802232 誤植為 2P11-GUD-802232(Item No.217)；將 Hanger No.2T49-STRT-800801 誤植為 2T49-GUD-800801(Item No.330)。【已由 Bumwoo 人員更正並抽換】
 - 2. Support No.2P21-ANC-801201, 2P21-ANC-803709, 2E11-GUD-810902, 2P21-GUD-822507, 2P11-ANC-801908, 2P11-STRT-801935 及 2P11-ANC-801942
上述 7 組管路支架並無 Shop Weld,不需附上 NPT Name Plate, 故 Visual & Dimension Inspection Report(Page 44,Page 321,Page 808,Page1047,Page1223,Page1234 及 Page1239)圖面上註明之" Provide NPT Name Plate" 應刪除。【已由 Bumwoo 人員更正並簽名】
 - 3. Support No.2B31-GUD-800324 及 2B31-GUD-802811
QRP 之 Page 367、370 及 764、767 缺頁碼。【已由 Bumwoo 人員補上頁碼】
 - 4. Support No.2P21-GUD-823106
QRP 之 Page1063, Material Identification Report(MIR) 之 Item No.1, 將 TS 76×76×6 材質 A500-B,N-71 誤植為 SA36; Item No.3, 將 Pipe Strap 材質 SA36 誤植為 A500-B,N-71。【已由 Bumwoo 人員更正並抽換 MIR】
 - 5. Support No.2T63-GUD-801206

QRP 之 Page 1534, Material Identification Report(MIR) 所列之 PL10(Item No.2)及 PL15(Item No.3)材質及 CMTR No.與圖面規定不符。【經實際赴現場查證管路支架，確認並未用錯材料，僅為 MIR 記錄錯誤。已由 Bumwoo 人員更正並抽換 MIR】

6. Support No.2T63-GUD-801239

QRP 之 Page 1576, Material Identification Report(MIR) 所列之 PL15(Item No.2)及 PL6(Item No.4)材質及 CMTR No.與圖面規定不符。【經實際赴現場查證管路支架，確認並未用錯材料，僅為 MIR 記錄錯誤。已由 Bumwoo 人員更正並抽換 MIR】

7. Support No.2P21-ANC-804701, 2P21-ANC-804912, 2P21-ANC-816607, 2P21-ANC-817526, 2P25-ANC-801204, 2P25-ANC-802707, 2P25-ANC-802902, 2P25-ANC-802920, 2P25-ANC-803004, 2P25-ANC-803405, 2P25-ANC-805301, 2P25-ANC-805503, 及 2P25-ANC-805504

上述 13 組管路支架之 Material Identification Report(MIR), 均將 Pipe Anchor 材質 SA299 誤植為 SA36。【已由 Bumwoo 人員更正並抽換 MIR】

8. Support No.2G41-GUD-0366

Material Identification Report(MIR) 之 Item No.3, 將 PL10 之數量 2 pcs 誤植為 1 pc。【已由 Bumwoo 人員更正並抽換 MIR】

9. Support No.2P54-ANC-800403, 2T62-ANC-800401, 2T62-ANC-801902, 及 2T62-ANC-803801

上述 4 組管路支架之 Material Identification Report(MIR), 均將 Pipe Anchor 材質 SA240 TP304 誤植為 SA36。【已由 Bumwoo 人員更正並抽換 MIR】

10. Support No.2G31-GUD-801701

Visual & Dimension Inspection Report 將 Hanger No. 2G31-GUD-801701 誤植為 2G21-GUD-801701。【已由 Bumwoo 人員更正並簽名】

六、查驗核能級管路支架之製造、標識、儲存、清潔和 Shipping Preparation 狀況

1. 以隨機方式抽查 5%，查驗下列 38 組管路支架之製造尺寸、標識、儲存、及清潔情況：

2E11-GUD-802211	2E11-GUD-802603	2E11-PRST-800127
2E51-GUD-0445	2P21-GUD-810802	2P31-GUD-800808
2P21-ANC-803709	2B31-GUD-800905	2B31-GUD-801812
2N22-GUD-800105	2P11-GUD-801310	2B31-GUD-801617
2E11-GUD-810902	2P11-GUD-801930	2P21-GUD-823106

2P11-ANC-801908	2T63-GUD-800912	2T63-GUD-801206
2T63-GUD-801239	2P21-ANC-816607	2T49-STRT-800801
2T49-GUD-801009	2G41-GUD-0366	2G51-GUD-802406
2G51-GUD-802452	2P21-GUD-827007	2P25-ANC-805301
2P54-GUD-800413	2T62-GUD-800140	2T62-GUD-800228
2T62-GUD-800329	2T62-GUD-800808	2T62-ANC-801902
2E22-GUD-802401	2B21-ANC-812408	2B21-GUD-811806
2G31-GUD-808506	2G31-GUD-801701	

2. 查驗結果上述 38 組管路支架之製造尺寸均與 As-built Drawing 相符；並均按規定標識，包括：ID Tag No., Part No., Trace No., Support No., NPT Name Plate 及 Stamp 等；製造完成之管路支架均移置於工廠的特定區域存放，清潔情況良好。
3. 準備交運之管路支架經清潔及清點數量後，裝入以防水塑膠紙內襯之大本箱中並予以固定；每一層管路支架之間用木板及泡棉襯墊；木箱四周另以木框固定及補強，附入以防水塑膠袋密封之 Packing List 並於木箱外貼上 ID Marking，存放於工廠內等候交運。Packing 及 Shipping Preparation 情況經檢查結果未發現不符合狀況。

七、核能級管路支架查驗結果

本批 741 組之管路支架製程品質查驗，相關成套品質紀錄(QRP)經審查結果雖發現有 12 項疏失，但廠商均已立即配合完成改正。管路支架之尺寸、清潔、包裝及交運前準備情況，經查驗結果均符合採購品質要求，故簽署 Shipment No.8-10186 及 8-20187 之 Product Quality Certificate (PQC)共 2 份，同意廠商交運。

八、審查管件材證澄清事項之相關品質紀錄

1. 中鼎公司負責核四工程核島區管路安裝工作，於施工過程中，多次因管材問題，以備忘錄要求本公司澄清。前述管材製造廠商為 Doosan 公司，惟其中管件部份大都由 Doosan 公司下游廠商 Sungkwang Bend 公司供應。Doosan 公司之前對管材澄清事項雖均已答覆並採取改正措施，及提送相關品質紀錄給本公司收存，惟是否與原廠商留存之品質紀錄原件相符，乃利用本次執行核能級管路支架製程中品質查驗時一併前往 Sungkwang Bend 公司查驗。
2. 本次查證包括中鼎公司 C2902-CTCI/TPC-2104M、2110M、2111M、2126M、2224M、2225M、2226M、2278M、2279M 及 2282M 等備忘錄要求澄清之管材相關事項，諸如：採購 Unqualified Source Material、Material Testing、Chemical Composition…等問題。經查證結果，確認由 Doosan 公司提送本公司之澄清文件與 Sungkwang Bend 公司留存之品質紀錄原件相符。

肆、出國期間所遭遇之困難與特殊事項

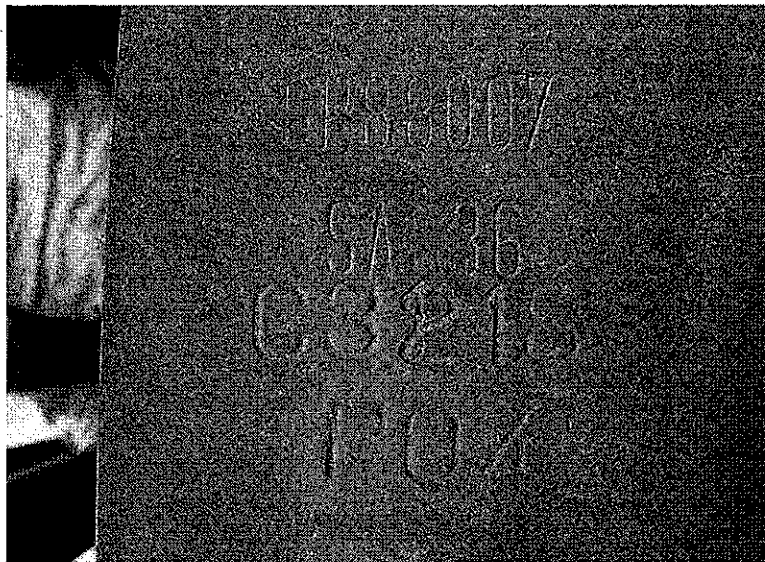
無。

伍、心得與建議

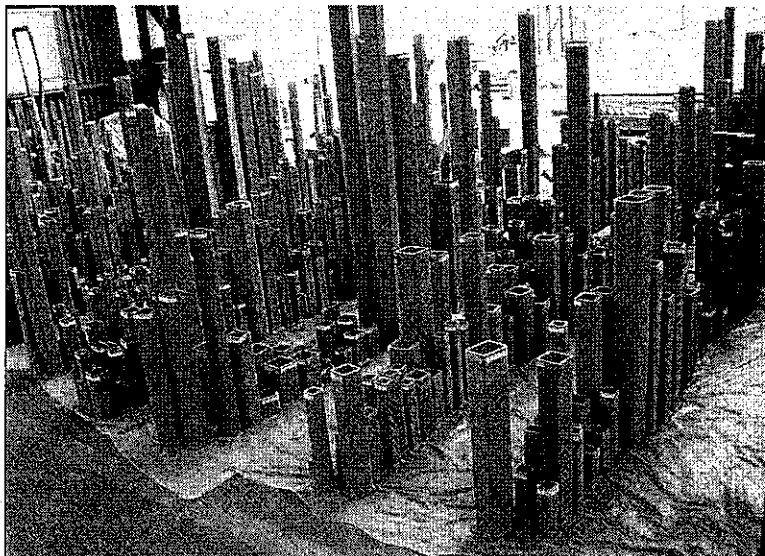
- 一、 Bumwoo 公司為核四工程 MS033B 核能級管路支架得標廠商 Lisega 公司之 BONI 與 CRD 管路支架之製造廠商。本處之前曾委託台崧公司派員赴 Bumwoo 公司執行 5 次檢驗，加上本次自行派員檢驗，檢驗結果均未發現有重大實質影響品質的不符合情況。有鑑於 BONI 與 CRD 管路支架均屬一般荷重之小口徑管路支架，而 Bumwoo 公司為持有 ASME N, U, U2, S 等 Certificate 之製造廠商，其製品具有一定的品質水準，同時 Bumwoo 公司僅負責 BONI 與 CRD 管路支架中，較為單純之鋼構件製造（標準組件則由 Lisega 公司製造）；在兼顧品質與節省檢驗時間、費用的考量下，建議免除往後實際派員前往 Bumwoo 工廠執行檢驗，改請廠商將 QRP 及 PQC 寄來台北審查及簽署。
- 二、 Lisega 公司已以 LIS-TPC-MS033B-000813 及 000831 函，請本處派員於 9/29~10/3、10/6~10/10、10/27~10/31 前往 Bumwoo 工廠執行第 9、10、11 批共 2169 組管路支架檢驗。本處業經按上述建議，函覆廠商將 QRP 及 PQC 寄來台北審查及簽署，估計可替公司節省檢驗費用約新台幣 52 萬元。

陸、附件

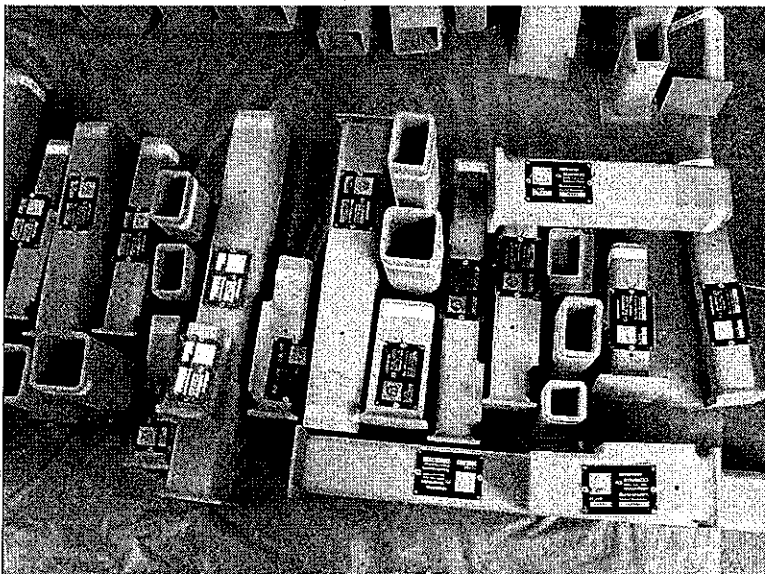
- 附件 1：品質查驗工作相關照片（共 3 頁）
- 附件 2：Quality Records Package(QRP)（共 4 頁）
- 附件 3：Product Quality Certificate(PQC)（共 26 頁）



查對 Pipe Support
(2B31-GUD-801812)
之材質

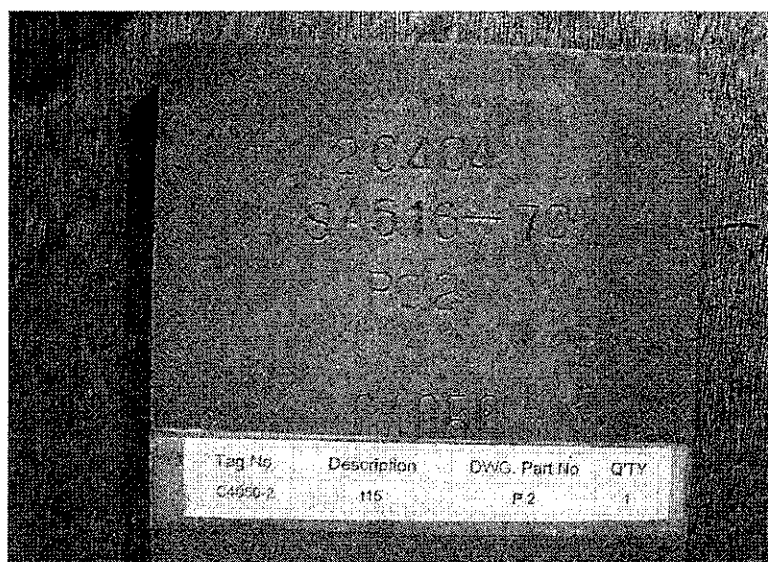


Pipe Support
之尺寸檢查

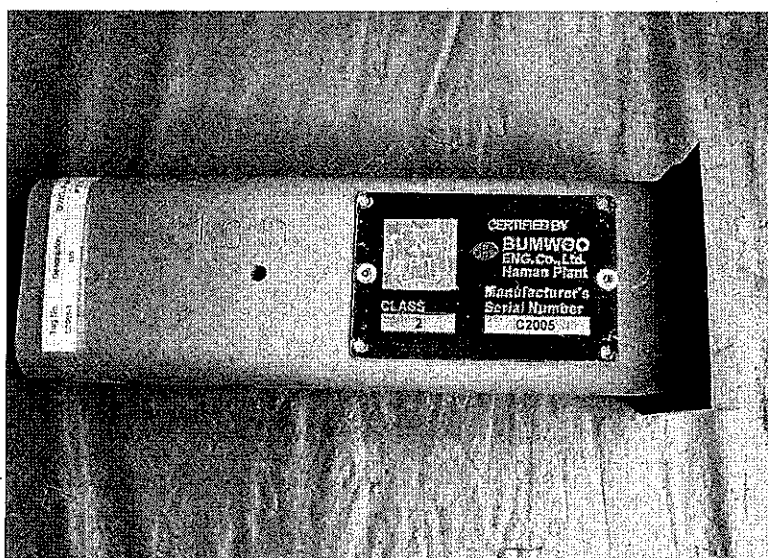


檢查 Pipe Support
之清潔情況

【附件 1】 2/3



檢查 Pipe Support
(2T63-GUD-801239)
之標識



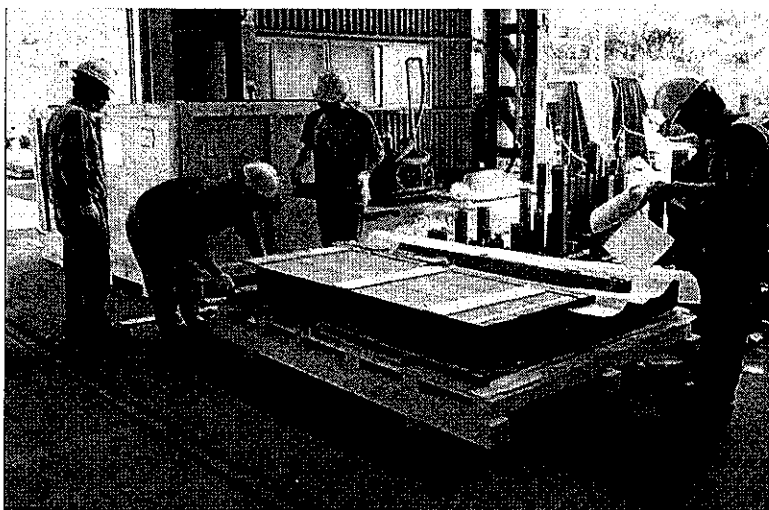
NPT Name Plate
以鉚釘固定於
Pipe Support
(2E11-GUD-802603)



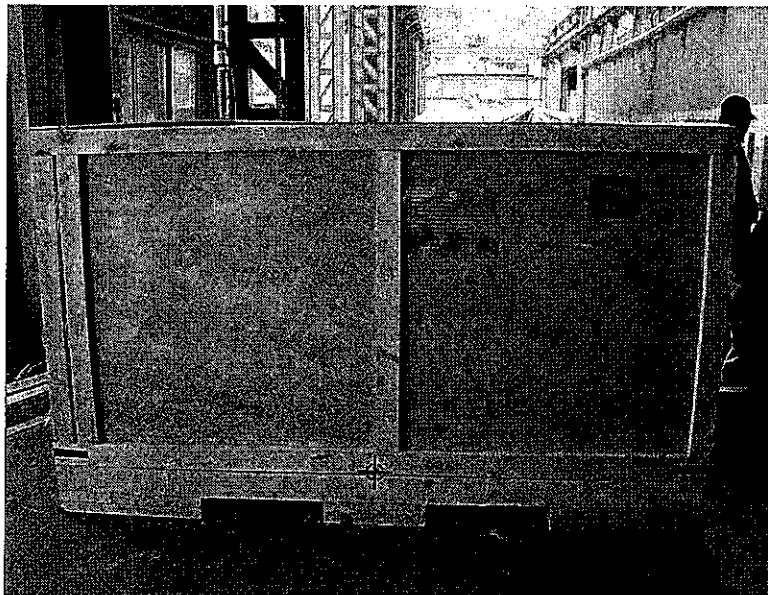
Pipe Support
裝箱前檢查情
況



Pipe Support
之裝箱情況



Pipe Support
清點裝箱情況



Pipe Support
裝箱完成情況

Rev.1 Quality Records Package Page 1/2
Documentation No. : 33061.MS033B.8-10186

Customer Taiwan Power Company
LISEGA

Customer PO-No. 8749511M033B0

Customer
Specification No. 874-MS-033B

LISEGA AG Job No. 33061

BUMWOO M/O No. 06PP001-01

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Binder Number 1/1

1. General

1.1 Product Quality Certificate

1.2 LISEGA General Delivery Certificate of Compliance

1.3 ITP(Inspection Test Plan)

1.4 Manufacturer's Data Report(Form NF-1 to be signed)

Total page of Section1--- 012

Binder Number 1/1

2. Certification of Hanger

2.1 BUMWOO Certificate of Compliance
included Hanger List-Attachment.1

2.2 Material Identification Report



- 2.3 Visual & Dimension Inspection Report
- 2.4 VT Report(Welded Support only)
- 2.5 As Built Drawing
- 2.6 Paint Inspection Report
- 2.7 NPT Nameplate Copy(Welded Support only)

Total page of Section2--- 30

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- 3. CMTR(C of C)

Total page of Section3---90

Binder Number 1/1

- 4. Technical
 - 4.1 Welding Procedure Sepecifications
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 - 4.3 CMTR Welding Wire

Total page of Section4---034

Binder Number 1/1

- 5. SIR/NCR/NUC/(if applicable)

Total page of Section5---001

Total page---167



Customer Taiwan Power Company
 LISEGA

Customer PO-No. 8749511M033B0

Customer
Specification No. 874-MS-033B

LISEGA AG Job No. 33061

BUMWOO M/O No. 06PP001-01

TABLE OF CONTENTS

Binder Number 1/11

1. General

- 1.1 Product Quality Certificate
- 1.2 LISEGA General Delivery Certificate of Compliance
- 1.3 ITP(Inspection Test Plan)
- 1.4 Manufacturer's Data Report(Form NF-1 to be signed)

Total page of Section1--- 51

Binder Number 1/11 ~ 10/11

2. Certification of Hanger

- 2.1 BUMWOO Certificate of Compliance
 included Hanger List-Attachment.1
- 2.2 Material Identification Report



- 2.3 Visual & Dimension Inspection Report
- 2.4 VT Report(Welded Support only)
- 2.5 As Built Drawing
- 2.6 Paint Inspection Report
- 2.7 NPT Nameplate Copy(Welded Support only)

Total page of Section2--- 4348

Binder Number 11/11

- 3. CMTR(C of C)

Total page of Section3--- 277

Binder Number 11/11

- 4. Technical
 - 4.1 Welding Procedure Specifications
 - 4.2 Procedure Qualification Records
 - 4.3 CMTR Welding Wire

Total page of Section4---034

Binder Number 4/4

- 5. SIR/NCR/NUC/(if applicable)

Total page of Section5---001

Total page---4711



LUNG MEN PROJECT
RELEASE FOR SHIPMENT

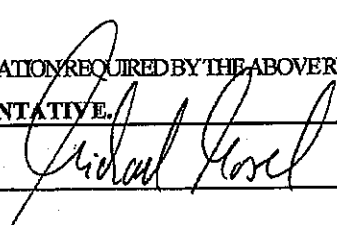
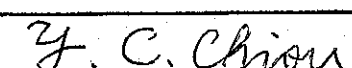
Product Quality Certificate

CLIENT: Taiwan Power Company		IPC CONTRACT NO. 874511M3B0	SHIPMENT NO. 8-10186 of LISEGA Com. 3306112
TPC SPECIFICATION NO. 874-MS-033B		REV. 0	Amendment 2
PRODUCT DESCRIPTION ASME Section III Div. 1 Class 1, 2 and 3 Pipe Supports			
SUPPLIER'S CERTIFICATION			
I HEREBY CERTIFY THAT THE PRODUCT(S) IDENTIFIED HEREIN HAVE BEEN MANUFACTURED UNDER A CONTROLLED PROGRAM AND ARE IN COMPLIANCE WITH THE APPLICABLE CODES, STANDARDS AND SPECIFICATIONS LISTED IN TPC PURCHASE SPECIFICATION REQUIREMENT.			
<u>ITEM NO.</u>	<u>QUANTITY</u>		
1	5 sets	SONI supports to LUNG MEN Unit 1 as detailed on attachment 1 BUMWOO C of C - No. : 06PP001-011	
	1G51-ANC-0035		
	1G51-ANC-800133		
	1G51-ANC-802401		
	1G51-ANC-802418		
	1P25-ANC-805310		
ALL SUPPORTING DOCUMENTATION REQUIRED BY THE ABOVE REFERENCED DOCUMENTS HAVE BEEN ISSUED TO TPC			
AUTHORIZED REPRESENTATIVE			
SIGNED	Michael Mosel	DATE	September 8, 2008
TITLE	Dipl. Eng.	SUPPLIER	LISEGA AG
TPC REPRESENTATIVE CERTIFICATION¹			
THIS IS TO CERTIFY THAT EVIDENCE SUPPORTING THE ABOVE SUPPLIER'S CERTIFICATION STATEMENT HAS BEEN REVIEWED AND THAT NO DEVIATIONS FROM QUALITY ASSURANCE REQUIREMENTS HAVE BEEN FOUND UNLESS NOTED BELOW:			
SIGNED	<i>Y. C. Chion</i>	DATE	Sep. 18, 2008
TITLE	TPC Representative	TPC Notice No.	NA
DEVIATIONS/NONCONFORMANCES FROM PURCHASE ORDER REQUIREMENTS			

1 - The TPC representative's certification does not release the supplier from their responsibility to provide work products that are acceptable under the contract nor does it preclude TPC's right to reject nonconforming work.

**LUNG MEN PROJECT
RELEASE FOR SHIPMENT**

Product Quality Certificate

CLIENT: Taiwan Power Company		IPC CONTRACT NO. 8749511M033B0		SHIPMENT NO. 8-20187 of LISEGA Com. 3306112	
TPC SPECIFICATION NO. 874-MS-033B		REV. 0		Amendment 2	
PRODUCT DESCRIPTION ASME Section III Div. 1 Class 1, 2 and 3 Pipe Supports					
<u>SUPPLIER'S CERTIFICATION</u>					
I HEREBY CERTIFY THAT THE PRODUCT(S) IDENTIFIED HEREIN HAVE BEEN MANUFACTURED UNDER A CONTROLLED PROGRAM AND ARE IN COMPLIANCE WITH THE APPLICABLE CODES, STANDARDS AND SPECIFICATIONS LISTED IN TPC PURCHASE SPECIFICATION REQUIREMENT.					
<u>ITEM NO.</u>		<u>QUANTITY</u>			
1		736 sets		BONI supports to LUNG MEN Unit 2 as detailed on attachment 1 BUMWOO C of C -No. : 06PP001-012	
ALL SUPPORTING DOCUMENTATION REQUIRED BY THE ABOVE REFERENCED DOCUMENTS HAVE BEEN ISSUED TO TPC AUTHORIZED REPRESENTATIVE.					
SIGNED		Michael Mosel 		DATE September 2008	
TITLE		Dipl. Ing.		SUPPLIER LISEGA AG	
<u>TPC REPRESENTATIVE CERTIFICATION¹</u>					
THIS IS TO CERTIFY THAT EVIDENCE SUPPORTING THE ABOVE SUPPLIER'S CERTIFICATION STATEMENT HAS BEEN REVIEWED AND THAT NO DEVIATIONS FROM QUALITY ASSURANCE REQUIREMENTS HAVE BEEN FOUND UNLESS NOTED BELOW.					
SIGNED		Z. C. Chion 		DATE Sep. 19, 2008	
TITLE		TPC Representative		TPC Notice No. NA	
DEVIATIONS/NONCONFORMANCES FROM PURCHASE ORDER REQUIREMENTS					

1 - The TPC representative's certification does not release the supplier from their responsibility to provide work products that are acceptable under the contract nor does it preclude TPC's right to reject nonconforming work.



BUMWOO
ENG CO., LTD.

CERTIFICATE of COMPLIANCE

N : 06PP001-012

Customer: Taiwan Power Company
LUNG MEN Project
Fourth Nuclear Power Plant
Unit 2, BONI
ASME Section III Div. 1 Class 1, 2 + 3 Pipe Supports

Customer PO-No.: 8749511M033B0

Customer Specification No.: 874-MS-033B, Rev. 0 Amendment N°: 2
With Specific Technical Requirements
3113.62.2413 for BONI

LISEGA AG Project N°: 33061 LISEGA AG Com-N°: 3306112

BUMWOO Project N°: 06PP001

Code Requirements: - ASME Section III Div. I – Subs. NF. Cl. 1, 2 & 3
Ed. 1989 no Add.
- 10 CFR 50 App. B; 10 CFR 21

This shall certify that the material and items, shipped under the above references, noted on the following Attachment 1, meets the requirements as noted above.

The material and parts have been manufactured and processed in accordance the above noted reference, BUMWOO ENG. CO., LTD NPT Stamp Certificate –Number N-3183, Expires December 30, 2008 BUMWOO ENG. CO., LTD QA Manual Rev. 1/3, March 27, 2007.

Date: SEP 18 , 2008

Performed:

H. ch-1a

- HONG CHEUL KIM -
- BUMWOO QA-Manager -



*Attachment.1 - Hanger List

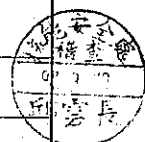
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4	33061.MS033B. 5-2210964	2P21-GUD-805203	C1845
5	33061.MS033B. 5-2210965	2P21-GUD-805204	C1846
6	33061.MS033B. 5-2210966	2P21-GUD-805205	C1847
7	33061.MS033B. 5-2210967	2P21-GUD-805206	C1848
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9	33061.MS033B. 5-2210795	2P21-GUD-1240	C1864
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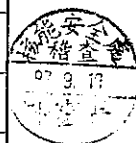
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70	33061.MS033B. 5-2209305	2B31-GUD-801104	C2585
71	33061.MS033B. 5-2209346	2B31-GUD-801503	C2619
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73	33061.MS033B. 5-2209370	2B31-GUD-801612	C2640
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75	33061.MS033B. 5-2209389	2B31-GUD-801805	C2656
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87	33061.MS033B. 5-2209929	2E11-GUD-804605	C2833
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144	33061.MS033B. 5-2210793	2P21-ANC-899912	C3361
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146	33061.MS033B. 5-2210075	2E51-GUD-802310	C3377
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150	33061.MS033B. 5-2210081	2E51-GUD-802316	C3383
151	33061.MS033B. 5-2210082	2E51-GUD-802317	C3384
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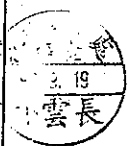
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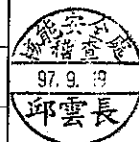
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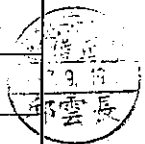
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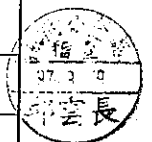
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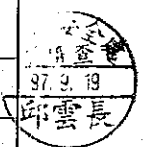


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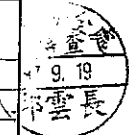


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660	33061.MS033B.5-2212220	2T62-ANC-803801	C4835
661	33061.MS033B.5-2212350	2T62-GUD-800321	C4836
662	33061.MS033B.5-2212379	2T62-GUD-800355	C4837
663	33061.MS033B.5-2212421	2T62-GUD-800822	C4838
664	33061.MS033B.5-2212422	2T62-GUD-800823	C4839
665	33061.MS033B.5-2212541	2T62-GUD-803701	C4850
666	33061.MS033B.5-2212697	2E22-GUD-800601	C4973
667	33061.MS033B.5-2212698	2E22-GUD-800701	C4974
668	33061.MS033B.5-2212700	2E22-GUD-800703	C4976
669	33061.MS033B.5-2212701	2E22-GUD-800704	C4977
670	33061.MS033B.5-2212702	2E22-GUD-800705	C4978
671	33061.MS033B.5-2212703	2E22-GUD-800706	C4979
672	33061.MS033B.5-2212704	2E22-GUD-800707	C4980
673	33061.MS033B.5-2212706	2E22-GUD-800709	C4982
674	33061.MS033B.5-2212708	2E22-GUD-801501	C4984
675	33061.MS033B.5-2212709	2E22-GUD-801601	C4985
676	33061.MS033B.5-2212710	2E22-GUD-802202	C4987
677	33061.MS033B.5-2212711	2E22-GUD-802203	C4988
678	33061.MS033B.5-2212712	2E22-GUD-802204	C4989
679	33061.MS033B.5-2212715	2E22-GUD-802207	C4992
680	33061.MS033B.5-2212716	2E22-GUD-802208	C4993
681	33061.MS033B.5-2212718	2E22-GUD-802401	C4995
682	33061.MS033B.5-2212720	2E22-GUD-802601	C4997
683	33061.MS033B.5-2212721	2E22-GUD-802602	C4998
684	33061.MS033B.5-2212723	2E22-GUD-802604	C5000
685	33061.MS033B.5-2212725	2E22-ANC-802702	C5002
686	33061.MS033B.5-2212726	2E22-GUD-802801	C5003
687	33061.MS033B.5-2212727	2E22-GUD-802901	C5004
688	33061.MS033B.5-2212728	2E22-GUD-803001	C5005
689	33061.MS033B.5-2212808	2B21-ANC-812307	C5011
690	33061.MS033B.5-2212809	2B21-ANC-812406	C5012



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691	33061.MS033B.5-2212810	2B21-ANC-812408	C5013
692	33061.MS033B.5-2212812	2B21-ANC-812707	C5015
693	33061.MS033B.5-2212813	2B21-ANC-812807	C5016
694	33061.MS033B.5-2212814	2B21-ANC-812916	C5017
695	33061.MS033B.5-2212817	2B21-ANC-813207	C5020
696	33061.MS033B.5-2212820	2B21-ANC-813320	C5021
697	33061.MS033B.5-2212843	2B21-ANC-814143	C5022
698	33061.MS033B.5-2213283	2B21-GUD-810911	C5023
699	33061.MS033B.5-2213370	2B21-GUD-811702	C5030
700	33061.MS033B.5-2213372	2B21-GUD-811704	C5032
701	33061.MS033B.5-2213379	2B21-GUD-811805	C5039
702	33061.MS033B.5-2213380	2B21-GUD-811806	C5040
703	33061.MS033B.5-2213386	2B21-GUD-811815	C5046
704	33061.MS033B.5-2213387	2B21-GUD-811816	C5047
705	33061.MS033B.5-2213388	2B21-GUD-811825	C5048
706	33061.MS033B.5-2213390	2B21-GUD-811827	C5050
707	33061.MS033B.5-2213391	2B21-GUD-811828	C5051
708	33061.MS033B.5-2213416	2B21-GUD-811922	C5076
709	33061.MS033B.5-2213426	2B21-GUD-812105	C5086
710	33061.MS033B.5-2213454	2B21-GUD-812505	C5114
711	33061.MS033B.5-2213469	2B21-GUD-812704	C5129
712	33061.MS033B.5-2213518	2B21-GUD-813019	C5178
713	33061.MS033B.5-2213533	2B21-GUD-813203	C5193
714	33061.MS033B.5-2214791	2G31-STRT-803101	C5264
715	33061.MS033B.5-2214821	2G31-GUD-806301	C5294
716	33061.MS033B.5-2214865	2G31-GUD-808501	C5337
717	33061.MS033B.5-2214869	2G31-GUD-808505	C5341
718	33061.MS033B.5-2214870	2G31-GUD-808506	C5342
719	33061.MS033B.5-2214877	2G31-GUD-808513	C5349
720	33061.MS033B.5-2214886	2G31-GUD-808522	C5358
721	33061.MS033B.5-2213780	2B21-GUD-814543	C5838
722	33061.MS033B.5-2213781	2B21-GUD-814544	C5839
723	33061.MS033B.5-2214122	2B21-GUD-817158	C6010



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724	33061.MS033B.5-2214126	2B21-GUD-817162	C6014
725	33061.MS033B.5-2214131	2B21-GUD-817170	C6017
726	33061.MS033B.5-2214741	2G31-GUD-801701	C6181
727	33061.MS033B.5-2213912	2B21-GUD-815112	C6532
728	33061.MS033B.5-2213914	2B21-GUD-815115	C6534
729	33061.MS241B.5-1210305	2G51-GUD-800106	C7124
730	33061.MS242B.5-1210306	2G51-GUD-800107	C7125
731	33061.MS243B.5-1210328	2G51-GUD-800129	C7126
732	33061.MS245B.5-1210334	2G51-GUD-800136	C7128
733	33061.MS246B.5-1210336	2G51-GUD-800138	C7129
734	33061.MS287B.5-1210415	2G51-GUD-802421	C7137
735	33061.MS294B.5-1210422	2G51-GUD-802441	C7144
736	33061.MS295B.5-1210426	2G51-GUD-802446	C7145

