The Hongkong Electric Co Ltd

香港電燈有限公司



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LAMMA POWER STATION EXTENSION ENVIRONMENTAL MONITORING & AUDIT PROGRAMME AT CONSTRUCTION PHASE

Report Title Environmental Monitoring and Audit Report

(August 2006)

Date 14/09/2006

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EXECUTIVE SUMMARY

This is the sixty-fifth monthly Environmental Monitoring and Audit (EM&A) report for the Project "Construction of Lamma Power Station Extension" prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air quality and noise for the said project in August 2006.

After successful completion of post-project monitoring in September 2002, no further marine water quality monitoring for the reclamation works would be required.

Air and noise monitoring were performed. The results were checked against the established Action/Limit (AL) levels. An on-site audit was conducted once per week. The implementation status of the environmental mitigation measures, Event/Action Plan and environmental complaint handling procedures were also checked.

Construction Activities Undertaken

Construction activities for Lamma Extension during the reporting month are tabulated as follows:

Item	Construction Activities
Unit L9 Civil and Building Works	Main Station Building, 275kV Switching Station Building, Shunt Reactor, Chimney, Drainage & Road, Fire Services Water Tank and Fire Pump House, C.W. Culvert System & Equipment Room, C.W. Pump Equipment Room, Gas Receiving Station, Pipe & Cable Rack and Lamma Power Station Addition and Alteration (LPS A&A) Works
Unit L9 Mechanical Erection	Installation of GRS piping
Unit L9 Electrical, Instrumentation & Control Erection	Cable Tray Cover Installation
Transmission System	Backfilling above portal structure for Cable Duct 2 and cable trench from N4 landing point to Cable Duct no.2 Entrance
Miscellaneous	Slurry ash piping & filling

Environmental Monitoring Works

All monitoring work at designated stations was performed as scheduled satisfactorily.

Air Quality

No exceedance of Action/Limit levels on 1-hour TSP and 24-hour TSP for air quality was recorded in the month.

Noise

Construction work for Lamma Extension was carried out during the restricted hours including evening-time, holidays and night-time under valid Construction Noise Permits. No exceedance of Action and Limit levels for noise arising from the construction of Lamma Extension and transmission system was recorded in the month.

Site Environmental Audit

Independent Environmental Checker (IEC) conducted a site inspection on 16/08/2006. The inspection result is attached in Appendix H.

Site audits were carried out on a weekly basis to monitor environmental issues on the construction site. The site conditions were generally satisfactory. All required mitigation measures were implemented.

Environmental Licensing and Permitting

Description	Permit No.	Valid	Period	Issued To	Date of
		From	To		Issuance
Varied Environmental Permit	EP-071/2000/C	18/05/05	-	HEC	18/05/05
Construction Noise Permit	GW-RS0032-06	11/02/06	10/08/06	Contractor	27/01/06
Construction Noise Permit	GW-RS0138-06	24/03/06	21/09/06	Contractor	24/03/06
Construction Noise Permit	GW-RS0278-06	24/05/06	19/11/06	Contractor	24/05/06
Registration of Chemical Waste Producer	WPN5213-912-P2781-07	11/06/04	-	Contractor	11/06/04
Registration of Chemical Waste Producer	WPN5213-912-K2801-03	15/09/04	-	Contractor	15/09/04
Registration of Chemical Waste Producer	WPN5517-912-T2007-02	17/03/05	-	Contractor	17/03/05
Registration of Chemical Waste Producer	WPN5213-912-W2852-09	25/01/05	-	Contractor	25/01/05
Registration of Chemical Waste Producer	WPN4111-912-M2534-09	20/06/05	-	Contractor	20/06/05
WPCO Discharge Licence	EP890/W2/XD020	22/11/04	30/11/09	Contractor	22/11/04
WPCO Discharge Licence	EP890/W2/XD021	03/02/05	28/02/10	Contractor	03/02/05

Description	Permit No.	Valid Period		Issued To	Date of
		From	To		Issuance
WPCO Discharge	EP890/W2/XD008 (V.1)	29/06/06	30/11/09	HEC	29/06/06
Licence					
APCO Specified	L-7-028	22/06/06	31/12/08	HEC	22/06/06
Process Licence					

Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures for the construction activities as recommended in the EM&A manual were implemented in the reporting month.

Environmental Complaints

No complaint against the construction activities was received in the reporting month.

Future Key Issues

The future key issues to be considered in the coming month are as follows:

Unit L9 Civil and Building Works

- to continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained;
- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary;

Unit L9 Mechanical Erection

- to continue monitoring the noise level during construction
- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary;

Unit L9 Electrical Erection

- to continue monitoring the noise level during construction
- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary;

Transmission System

- to continue monitoring the noise level during construction;
- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary;

- to closely monitor the construction activities in order to avoid disturbance to the rare plants;
- to provide temporary fire fighting equipment for prevention of fire within the work sites.

Concluding Remarks

The environmental performance of the project was generally satisfactory.

1. INTRODUCTION

1.1 Background

The Environmental Team (hereinafter called the "ET") was formed within the Hongkong Electric Co. Ltd (HEC) to undertake Environmental Monitoring and Audit for "Construction of Lamma Power Station Extension" (hereinafter called the "Project"). Under the requirements of Section 6 of Environmental Permit EP-071/2000/C, an EM&A programme for impact environmental monitoring set out in the EM&A Manual (Construction Phase) is required to be implemented. In accordance with the EM&A Manual, environmental monitoring of air quality, noise and water quality and regular environmental audits are required for the Project. As the post-project marine water monitoring was successfully completed in September 2002, no further water quality monitoring for the reclamation works would be required.

The Project involves the construction of a gas-fired power station employing combined cycled gas turbine technology, forming an extension to the existing Lamma Power Station. The key elements of the Project including the construction activities associated with the transmission system and submarine gas pipeline are outlined as follows.

- dredging and reclamation to form approximately 22 hectares of usable area;
- construction of six 300MW class gas-fired combined cycle units;
- construction of a gas receiving station;
- construction of a new transmission system linking the Lamma Extension to load centres on Hong Kong Island;
- laying of a gas pipeline for the supply of natural gas to the new power station

This report summarizes the environmental monitoring and audit work for the Project for the month of August 2006.

1.2 Project Organisation

An Environmental Management Committee (EMC) has been set up in HEC to oversee the Project. The management structure includes the following:

- Environmental Protection Department (The Authority);
- Environmental Manager (The Chairman of the Environmental Management Committee);
- Engineer;
- Independent Environmental Checker (IEC);
- Environmental Team (ET);
- · Contractor.

The project organisation chart for the construction EM&A programme is shown in Appendix A.

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1.3 Construction Works undertaken during the Reporting Month

Construction activities for Unit L9 civil and building works were for the Main Station Building, 275kV Switching Station Building, Shunt Reactor, Chimney, Drainage & Road, Fire Services Water Tank and Fire Pump House, C.W. Culvert System & Equipment Room, C.W. Pump Equipment Room, Gas Receiving Station, Pipe & Cable Rack and LPS A&A Works. Construction activity for Unit L9 mechanical erection was GRS piping installation. Construction activity for Unit L9 electrical, instrumentation & control erection was Cable Tray Cover installation. Construction activities for Unit L9's associated transmission system were backfilling above portal structure for Cable Duct 2 and cable trench from N4 landing point to Cable Duct no.2 Entrance. Layout plans for construction site and transmission system are shown in Figure 1.1 and Figure 1.2 respectively.

The main construction activities carried out during the reporting month and the corresponding environmental mitigation measures are summarized in Table 1.1. The implementation of major mitigation measures in the month is provided in Appendix I.

Table 1.1 Construction Activities and Their Corresponding Environmental Mitigation Measures

Item	Construction Activities	Environmental Mitigation Measures
Unit L9	Civil and Buildin	ng Works
1	Main Station Building	Air – Dust suppression measures implemented.
		Noise - General noise mitigation measures employed at all work sites throughout the construction phase.
		Waste ManagementWaste Management Plan submitted and implemented.
2	275kV Switching Station Building	Air — Dust suppression measures implemented.
		Noise — General noise mitigation measures employed at all work sites throughout the construction phase.
		Waste Management - Waste Management Plan submitted and implemented.

Item	Construction Activities	Environmental Mitigation Measures	
3	Shunt Reactor	Air — Dust suppression measures implemented. Noise	
		General noise mitigation measures employed at all work sites throughout the construction phase.	
		Waste Management - Waste Management Plan submitted and implemented.	
4	Chimney	Air - Dust suppression measures implemented.	
		Noise - General noise mitigation measures employed at all work sites throughout the construction phase.	
		Waste Management - Waste Management Plan submitted and implemented.	
5	Drainage & Road Works	Air - Dust suppression measures implemented.	
		Noise - General noise mitigation measures employed at all work sites throughout the construction phase.	
		Waste Management - Waste Management Plan submitted and implemented.	
6	Fire Services Water Tank and Fire Pump	Air - Dust suppression measures implemented.	
	House	Noise General noise mitigation measures employed at all work sites throughout the construction phase.	
		Waste Management - Waste Management Plan submitted and implemented.	

Item	Construction Activities	Environmental Mitigation Measures	
7	C.W. Culvert System & Equipment Room	Air Dust suppression measures implemented. Noise General noise mitigation measures employed at all work sites throughout the construction phase.	
		 all work sites throughout the construction phase. Waste Management Waste Management Plan submitted and implemented. 	
8	C.W. Pump Equipment Room	Air – Dust suppression measures implemented.	
		Noise - General noise mitigation measures employed at all work sites throughout the construction phase.	
		 Waste Management Waste Management Plan submitted and implemented. 	
9	Gas Receiving Station	Air – Dust suppression measures implemented.	
		Noise - General noise mitigation measures employed at all work sites throughout the construction phase.	
		Waste Management - Waste Management Plan submitted and implemented.	
10	Pipe & Cable Rack	Air – Dust suppression measures implemented.	
		Noise - General noise mitigation measures employed at all work sites throughout the construction phase.	
		Waste Management - Waste Management Plan submitted and implemented.	

Item	Construction Activities	Environmental Mitigation Measures
11	LPS A&A Works	Air – Dust suppression measures implemented.
		Noise General noise mitigation measures employed at all work sites throughout the construction phase.
		Waste Management - Waste Management Plan submitted and implemented.
Constru	uction of Transmi	ssion System
12	Backfilling above portal structure for Cable Duct 2 and cable trench from N4 landing point to Cable Duct no.2 Entrance	Terrestrial Ecology - Special care and close monitoring to avoid disturbances to the rare plant species. - Temporary fire fighting equipment provided within the work area during construction.
13	Backfilling & Cable Protection	Noise General noise mitigation measures employed at all work sites throughout the construction phase.
Unit L9	Mechanical Erec	tion
14	GRS piping installation	Air – Dust suppression measures implemented.
		Noise General noise mitigation measures employed at all work sites throughout the construction phase.
		Waste Management - Waste Management Plan submitted and implemented.

Item	Construction Activities	Environmental Mitigation Measures			
Unit L9	Electrical, Instru	mentation & Control Erection			
15	Cable Tray Cover Installation	Air – Dust suppression measures implemented.			
		Noise General noise mitigation measures employed at all work sites throughout the construction phase.			
		Waste ManagementWaste Management Plan submitted and implemented.			
Miscella	Miscellaneous				
16	Slurry ash piping & filling	Noise General noise mitigation measures implemented and silent type equipment deployed.			

1.4 Summary of EM&A Requirements

The EM&A program requires environmental monitoring for air, noise and water quality. As the post-project marine water monitoring was successfully completed in September 2002, no further water quality monitoring for the reclamation works would be required. The detailed EM&A monitoring work for air quality and noise are described in Sections 2 and 3 respectively. Regular environmental site audits for air quality, noise, water quality and waste management were carried out.

The following environmental audits are summarized in Section 4 of this report:

- Environmental monitoring results;
- Waste Management Records;
- Weekly site audit results;
- The status of environmental licensing and permits for the Project;
- The implementation status of environmental protection and pollution control/mitigation measures.

Future key issues will be reported in Section 5 of this report.

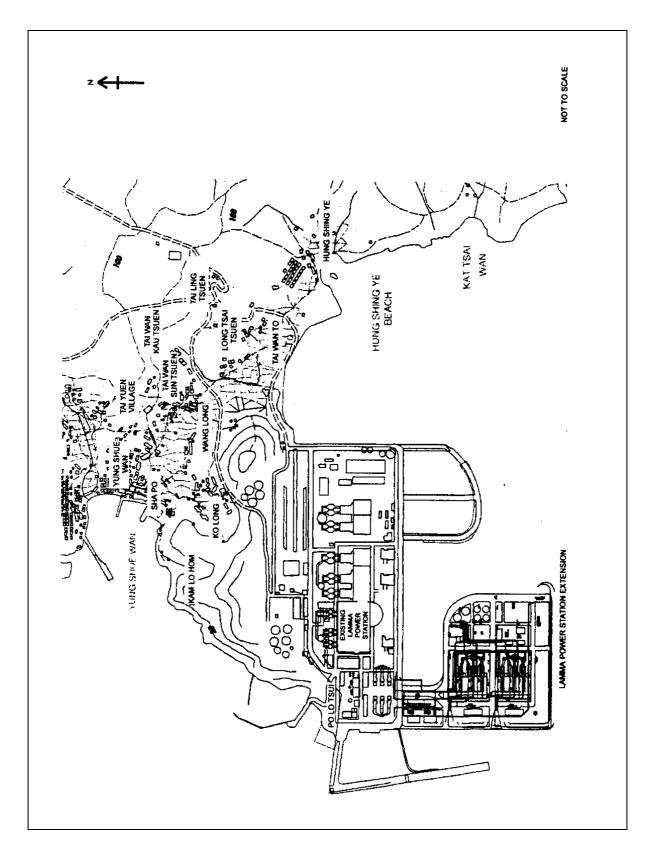


Figure 1.1 Layout of Work Site

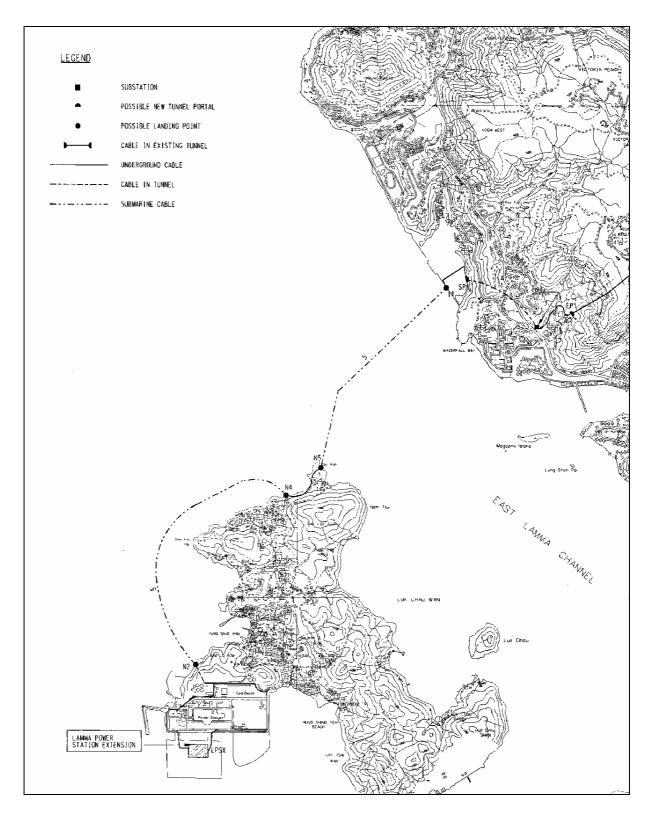


Figure 1.2 Cable Route of Transmission System

2. AIR QUALITY

2.1 Monitoring Requirements

1-hour and 24-hour TSP monitoring at agreed frequencies were conducted to monitor air quality. The impact monitoring data were checked against the Action/Limit Levels as determined in the Baseline Monitoring Report (Construction Phase). Appendix B shows the established Action/Limit Levels for Air Quality.

2.2 Monitoring Locations

Three dust monitoring locations were selected for 1-hour TSP sampling (AM1, AM2 & AM3) while four monitoring locations were selected for 24-hour TSP sampling (AM1, AM2, AM3 and AM4). Table 2.1 tabulates the monitoring stations. The locations of the monitoring stations are shown in Figure 2.1.

Table 2.1 Air Quality Monitoring Locations

Location I.D.	Description
AM1	Reservoir
AM2	East Gate
AM3	Ash Lagoon
AM4	Tai Yuen Village

2.3 Monitoring Equipment

Continuous 24-hour TSP air quality monitoring was performed using the GS2310 High Volume Air Samplers (HVAS), Partisol Model 2000 Sampler and the MINIVOL Portable Sampler at AM1&2, AM3 and AM4 respectively. TEOM Model 1400a continuous dust monitors were used to carry out 1-hour TSP monitoring at AM1, AM2 and AM3. Table 2.2 summarises the equipment used in dust monitoring.

Table 2.2 Air Quality Monitoring Equipment

Equipment	Model and Make
24-hour sampling:	
HVAS Sampler	Model GS2310
	Anderson Instruments Inc.
Partisol Air Sampler	Partisol Model 2000 Rupprecht & Patashnick
MINIVOL Portable Sampler	AIRMETRICS
1-hour sampling:	
Continuous TSP Dust Meter	TEOM Model 1400a
	Rupprecht & Patashnick

2.4 Monitoring Parameters, Frequency and Duration

Table 2.3 summarises the monitoring parameters, duration and frequency of air quality monitoring. The monitoring schedule for the reporting month is shown in Appendix C.

Table 2.3 Air Quality Monitoring Parameter, Duration and Frequency

Monitoring Stations	Parameter	Duration	Frequency
AM1	1-hour TSP	1	3 hourly samples every 6 days
AWII	24-hour TSP	24	Once every 6 days
AM2	1-hour TSP	1	3 hourly samples every 6 days
AIVIZ	24-hour TSP	24	Once every 6 days
AM3	1-hour TSP	1	3 hourly samples every 6 days
AIVIS	24-hour TSP	24	Once every 6 days
AM4	24-hour TSP	24	Once every 6 days

2.5 Monitoring Procedures and Calibration Details

24- hour TSP Monitor:

Preparation of Filter Papers

- Visual inspection of filter papers was carried out to ensure that there were no pinholes, tears and creases;
- The filter papers were then labeled before sampling.
- The filter papers were equilibrated at room temperature and relative humidity < 50% for at least 24 hours before weighing.

Field Monitoring

- During collection of the sampled filter paper, the information on the elapse timer
 was logged. Site observations around the monitoring stations, which might have
 affected the monitoring results, were also recorded. Major pollution sources, if any,
 would be identified and reported. The flow record chart for the previous sampling
 was checked to see if there was any abnormality.
- The post-sampling filter papers were removed carefully from the filter holder and folded to avoid loss of fibres or dust particles from the filter papers;
- The filter holder and its surrounding were cleaned;
- A pre-weighed blank filter paper for the next sampling was put in place and aligned carefully. The filter holder was then tightened firmly to avoid leakage;
- A new flow record chart was loaded into the flow recorder;
- The programmable timer was set for the next 24 hrs sampling period, $\pm 1/2$ hr;
- The post-sampling filter papers were equilibrated at room temperature and relative humidity < 50% for at least 24 hours before weighing.

1- hour TSP Monitor:

- The following parameters of the TEOM model dust meters are regularly checked to ensure proper functionality:
 - o Mass concentration;
 - o Total mass:
 - o Frequency of the tapered element;
 - o Electrical noise;
 - o Main flow;
 - Auxiliary flow.

Maintenance & Calibration

- The monitoring equipment and their accessories are maintained in good working conditions.
- Monitoring equipment is calibrated at monthly intervals. Calibration details are shown in Appendix F.

2.6 Results and Observations

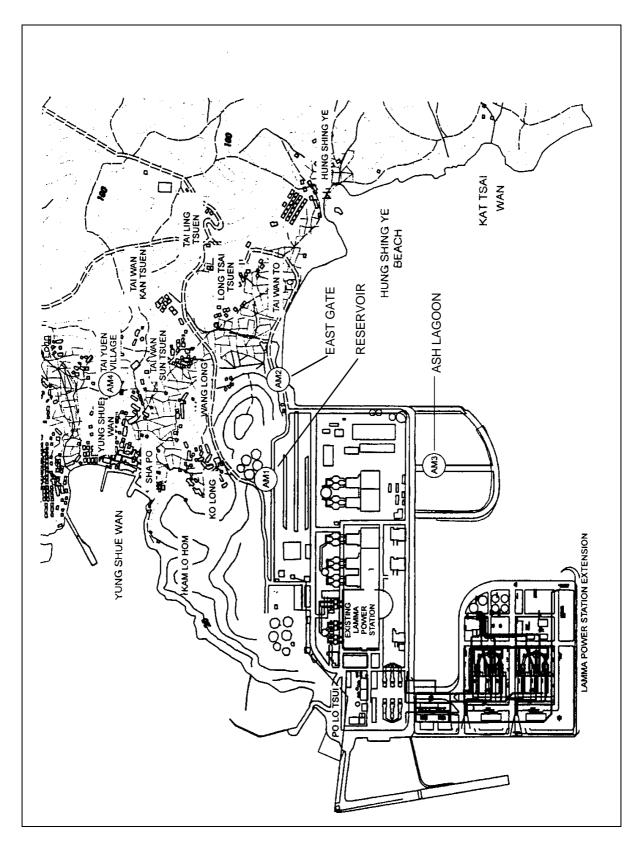
All dust monitoring works were conducted on schedule. All monitoring data and graphical presentation of the monitoring results are provided in Appendix D. Key findings and observations are provided below:

1-hour TSP

No exceedance of 1-hour TSP Action/Limit Level was recorded in the month.

24-hour TSP

No exceedance of 24-hour TSP Action/Limit Level was recorded in the month.



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Figure 2.1 Location of Air Quality Monitoring Stations

3. NOISE

3.1 Monitoring Requirements

Continuous noise alarm monitoring at Ash Lagoon/Ching Lam were carried out to calculate the noise contributed by the construction activities at the two critical NSR's, viz. Long Tsai Tsuen/Hung Shing Ye and the school within the village of Tai Wan San Tsuen. The impact monitoring data for construction noise were checked against the limit levels specified in the EM&A Manual. With the availability of the construction noise permits, impact monitoring for the construction work during the restricted hours was also carried out. Section 4 presents the details of the construction noise permits.

Manual noise measurements at Pak Kok Tsui residences were carried out for the construction work of Transmission System in this reporting month. The impact noise monitoring data were checked against the limit levels specified in the EM&A Manual. Appendix B shows the established Action/Limit Levels for noise.

3.2 Monitoring Locations

In accordance with the EM&A manual, the identified noise monitoring locations are listed in Table 3.1 and shown in Figure 3.1 and Figure 3.2.

Table 3.1 Noise Monitoring Locations

Purpose of noise monitoring	Monitoring Location
Lamma Extension	Ash Lagoon
Lamma Extension	Ching Lam
Transmission System	Pak Kok Tsui residences (No.2 and No.8)

3.3 Monitoring Equipment

The sound level meters used for noise monitoring complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). The noise monitoring equipment used is shown in Table 3.2.

Table 3.2 Noise Monitoring Equipment

Equipment	Model			
Equipment	Lamma Extension	Transmission System		
Sound level meter	Rion NA-27/ B&K 2238F	Rion NL-31		
Sound level calibrator	Rion NC-74	Rion NC-74		

3.4 Monitoring Parameters, Frequency and Duration

Continuous alarm monitoring of A-weighted Leq levels was carried out at Ash Lagoon and Ching Lam while manual noise monitoring was conducted at Pak Kok Tsui residences. The measurement duration and parameter of noise monitoring were presented in Table 3.3 as follows:

 Table 3.3
 Noise Monitoring Duration and Parameter

Location	Time Period	Frequency	Parameter
	Daytime: 0700-1900 hrs on normal weekdays	Daytime: 30 minutes	30-min L _{Aeq}
Ash Lagoon Ching Lam	Evening-time & holidays: 0700-2300 hrs on holidays; and 1900-2300 hrs on all other days	Evening-time & holidays: 5 minutes	5-min L _{Aeq}
	Night-time: 2300-0700 hrs of next day	Night-time: 5 minutes	5-min L _{Aeq}
Pak Kok Tsui residences	0700-1900 hrs on normal weekdays	Twice per week	30-min L _{Aeq}

3.5 Monitoring Procedures and Calibration Details

Monitoring Procedures

Continuous Noise Monitoring for Lamma Extension Construction

The measured noise levels (MNL's) were collected at the noise alarm monitoring stations at Ash Lagoon and Ching Lam. The notional background noise levels (viz. baseline noise data at Ash Lagoon and Ching Lam) were applied to correct the corresponding MNL's in 30-min/5-min L_{Aeq} .

A wind speed sensor was installed at Station Building Rooftop. The wind speed signal was used to determine whether the data from Ash Lagoon and Ching Lam noise alarm monitoring stations were affected. The instantaneous data was discarded in case the instantaneous wind speed exceeded 10 m/s. The 30-min/5-min L_{Aeq} was considered valid only if the amount of valid data was equal to or above 70%.

When calibrating the noise measuring equipment, all observations around the monitoring stations, which might have affected the monitoring results, were recorded.

Manual Noise Monitoring for Transmission System Construction

Manual noise measurements were carried out at the Pak Kok Tsui residences in accordance with standard acoustical principles and practices for checking the impact of noise related to construction of the Transmission System.

Hand-held anemometer was used to measure the wind speed while taking noise measurements. If the wind speed is excessive, noise data will be discarded and remeasured.

Equipment Calibration

The sound level meters and calibrators have been verified by the manufacturer or accredited laboratory. Equipment for continuous noise monitoring was calibrated at site on a monthly basis.

The sound level meters used for manual noise measurement were calibrated with a sound level calibrator immediately before and after noise measurement in accordance with the relevant Technical Memoranda under the Noise Control Ordinance. Calibration details are shown in Appendix F.

3.6 Results and Observations

Continuous noise monitoring was conducted at the two monitoring stations at Ash Lagoon and Ching Lam while manual noise monitoring was carried out at the Pak Kok Tsui residences.

All monitoring results and their graphical presentations are provided in Appendix E. No exceedance of noise Action/Limit Level was recorded in the month.

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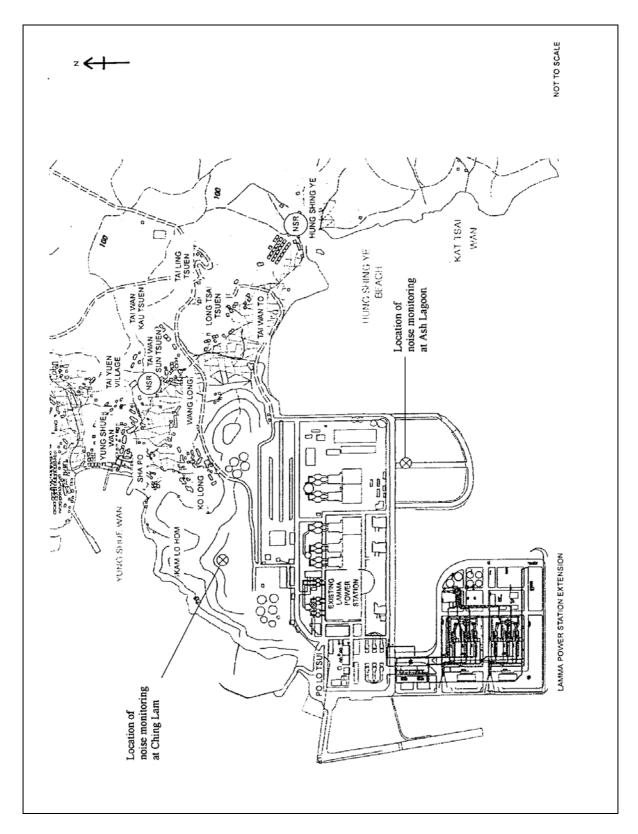


Figure 3.1 Location of Noise Monitoring Stations

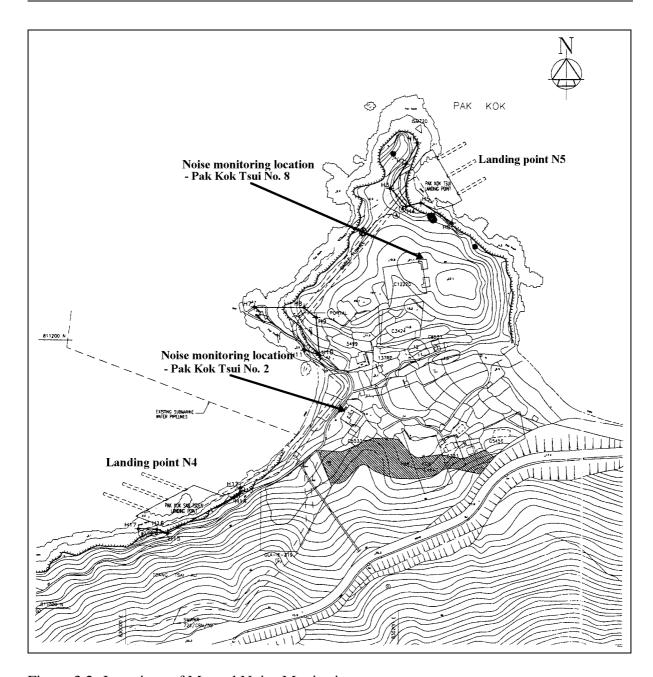


Figure 3.2 Locations of Manual Noise Monitoring

4. ENVIRONMENTAL AUDIT

4.1 Review of Environmental Monitoring Procedures

The environmental monitoring procedures were regularly reviewed by the Environmental Team. No modification to the existing monitoring procedures was recommended.

4.2 Assessment of Environmental Monitoring Results

Monitoring results for Air Quality and Noise

The environmental monitoring results for Air Quality and Noise in the reporting month presented in sections 2, 3 and 4 respectively are summarized in Table 4.1.

Table 4.1 Summary of AL Level Exceedances on Monitoring Parameters

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status
			Action Level	Limit Level	and Results
Air					
1	Ambient TSP (24-hour)	01/08/06- 31/08/06	0	0	
2	Ambient TSP (1-hour)	01/08/06- 31/08/06	0	0	
Noise					
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/08/06- 31/08/06	0	0	
2	Manual noise monitoring at the Pak Kok Tsui residences	01/08/06- 31/08/06	0	0	

Waste Management Records

The estimated amounts of different types of waste generated in August 2006 are shown in Table 4.2.

Table 4.2 Estimated Amounts of Waste Generated in August 2006

Waste Type	Examples	Estimated Amount
Construction Waste	Concrete Waste, Used	0.02 Tonne
	formwork, reinforcement	2
	and wooden waste	90 m ³
General Refuse	Domestic wastes collected	20 m^3
	on site	

4.3 Site Environmental Audit

IEC conducted a site inspection on 16/08/2006. The inspection result is attached in Appendix H.

Site audits were carried out by ET on a weekly basis to monitor environmental issues at the construction sites to ensure that all mitigation measures were implemented timely and properly. The site conditions were generally satisfactory. All required mitigation measures were implemented. The weekly site inspection results are attached in Appendix H.

4.4 Status of Environmental Licensing and Permitting

All permits/licenses obtained for the project are summarised in Table 4.3.

Table 4.3 Summary of Environmental Licensing and Permit Status

Description	Permit No.	Valid	Period	Highlights	ts Status
		From	To		
Varied Environmental Permit	EP-071/2000/C	18/05/05	-	The whole construction work site	Valid
Construction Noise Permit	GW-RS0032-06	11/02/06	10/08/06	Operation of PME's allowed during the restricted hours (general holidays including Sundays between 0700-0700 hrs on next day and any day not being a general holiday between 1900-0700 hrs on next day).	Valid

Description	Permit No.	Valid	Period	Highlights	Status
•		From	To	0 0	
Construction Noise Permit	GW-RS0138-06	24/03/06	21/09/06	Operation of PME's allowed during the restricted hours (general holidays including Sundays between 0700-0700 hrs on next day and any day not being a general holiday between 1900-0700 hrs on next day).	Valid
Construction Noise Permit	GW-RS0278-06	24/05/06	19/11/06	Operation of PME's allowed during the restricted hours (general holiday including Sundays between 0700-1900 hrs and any day not being a general holiday between 1900-2100 hrs).	Valid
Registration of Chemical Waste Producer	WPN5213-912-P2781-07	11/06/04	-	Major Chemical Waste Type: Spent lubrication oil, waste car battery, paint or thinner contaminated container	Valid
Registration of Chemical Waste Producer	WPN5213-912-K2801-03	15/09/04	-	Major Chemical Waste Type: Spent lubricating oil, spent battery, contaminated soil with spent flammable liquid	Valid
Registration of Chemical Waste Producer	WPN5517-912-T2007-02	17/03/05	-	Major Chemical Waste Type for the construction work: asbestos waste, spent lubricating lubrication oil	Valid

Description	Permit No.	Valid 1	Period	Highlights	Status
		From	To		
Registration of Chemical Waste Producer	WPN5213-912-W2852-09	25/01/05	-	Major Chemical Waste Type: spent mineral oil/ lubricating oil, spent solvents, spent batteries and surplus paint	Valid
Registration of Chemical Waste Producer	WPN4111-912-M2534-09	20/06/05	-	Major Chemical Waste Type: spent insulation oil for transformer	Valid
WPCO Discharge Licence	EP890/W2/XD020	22/11/04	30/11/09	Toilet for LMX construction site	Valid
WPCO Discharge Licence	EP890/W2/XD021	03/02/05	28/02/10	Toilet for LMX construction site	Valid
WPCO Discharge Licence	EP890/W2/XD008 (V.1)	29/06/06	30/11/09	Lamma Power Station and Extension	Valid
APCO Specified Process Licence	L-7-028	22/06/06	31/12/08	Lamma Power Station Extension	Valid

4.5 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the permits and the EM&A Manual (Construction Phase) are required to be implemented. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix I.

4.6 Implementation Status of Event/Action Plans

The Event/Action Plans extracted from the EM&A Manual (Construction Phase) are presented in Appendix G.

4.7 Implementation Status of Environmental Complaint Handling Procedures

In August 2006, no complaint against the construction activities was received.

Table 4.4 Environmental Complaints / Enquiries Received in August 2006

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions /Actions Taken	Conclusion / Status
Nil	N/A	N/A

Table 4.5 Outstanding Environmental Complaints / Enquiries Carried Over

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions /Actions Taken	Conclusion / Status
Nil	N/A	N/A

5. FUTURE KEY ISSUES

5.1 Status of Natural Gas supply

Natural gas supply has been delivered to Lamma Power Station Extension.

5.2 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

Unit L9 Civil and Building Works

Noise Impact

- To continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained.
- To continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the noise performance.

Air Impact

• To monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary.

Unit L9 Mechanical Erection

Noise Impact

- To continue monitoring the noise level during construction.
- To continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the noise performance.

Air Impact

• To monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary.

Unit L9 Electrical, Instrumentation & Control Erection

Noise Impact

- To continue monitoring the noise level during construction.
- To continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the noise performance.

Air Impact

• To monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary.

Transmission System

Noise Impact

- To continue monitoring the noise level during construction.
- To continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance.

Air Impact

• To monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary.

Terrestrial Ecology Impact

- To closely monitor the construction activities in order to avoid disturbance to the rare plants.
- To provide temporary fire fighting equipment for prevention of fire within the work sites.

5.3 Monitoring Schedules for the Next 3 Months

With the completion of post-project monitoring, no further marine water quality monitoring for the reclamation works is required.

The tentative environmental monitoring schedules for the next 3 months are shown in Appendix C.

5.4 Construction Program for the Next 3 Months

The period of construction activity of slurry ash piping & filling is tentatively from September 2006 to November 2006. The tentative construction programs for the next 3 months are shown in Appendix J.

6. CONCLUSION

All monitoring work at designated stations was performed as scheduled satisfactorily. The environmental monitoring works and site inspection were performed as scheduled in the reporting month. All monitoring results were checked and reviewed.

No Action/Limit level exceedance on 1-hour and 24-hour TSP level was recorded in the reporting month.

No Action/Limit level exceedance on noise was recorded in the reporting month.

Environmental mitigation measures recommended in the EM&A manual for the construction activities were implemented in the reporting month. No complaint against the construction activities was received in the reporting month. No prosecution was received for this Project in the reporting period.

The environmental performance of the Project was generally satisfactory.

Appendix A Organization Chart

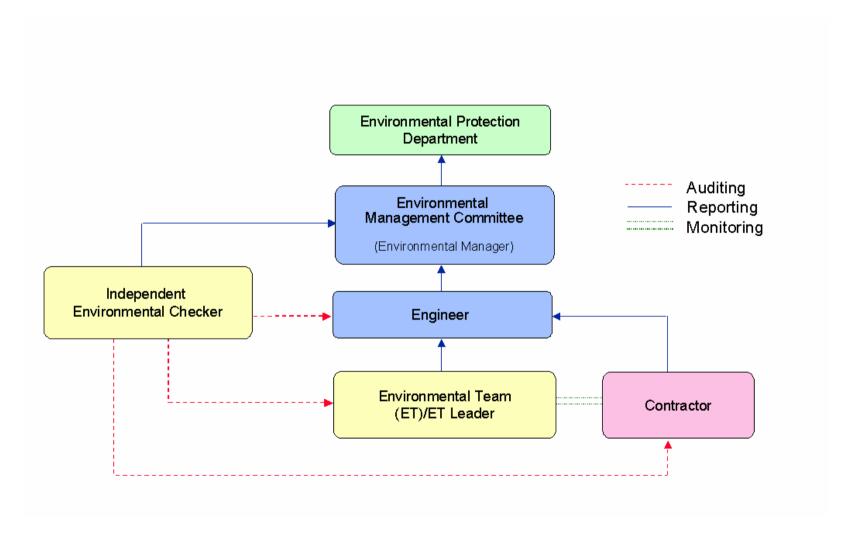


Figure A.1 Organisation of EM&A Programme at Construction Phase

Appendix B Action and Limit Levels for Air Quality and Noise Monitoring

B.1. Air

Table B.1 Action and Limit Levels for 1-hour and 24-hour TSP

	Action Level, μg/m ³	Limit Level, μg/m ³
1-hour TSP*	340	500
24-hour TSP	190	260

T No Action/Limit Level for 1-hour TSP is applied to AM4 where no real time dust monitor is installed.

B.2. Noise

Table B.2 presents the Action and Limit (AL) levels for construction noise other than percussive piling.

Table B.2 AL Levels for Construction Noise (Other than Percussive Piling)

Parameters	Action	Limit	ţ
Noise Levels at the NSR's at Long Tsai Tsuen/Hung Shing Ye and school within the village of Tai Wan San Tsuen predicted by the noise alarm monitoring system Manual noise monitoring at the nearest Pak Kok Tsui residences to cable landing points N4 and N5	When one or more documented complaints are received	a. 75 19 we b. su un On ho on dE c. su un on ne	dB(A) in L _{Aeq,30 min} (07:00-2:00 hrs on normal eekdays) (Note 1) abject to statutory control eder the Noise Control redinance (07:00-23:00 hrs on olidays and 19:00-23:00 hrs in all other days). Set to 60 B(A) in L _{Aeq,5 min} abject to statutory control eder the Noise Control redinance (23:00-07:00 hrs of ext day). Set to 45 dB(A) in L _{Aeq,5 min}

Note:

1. For educational institution, the limit level shall be 70 dB(A), reduced to 65 dB(A) during examination periods.

Appendix C Environmental Monitoring Schedule

Table C.1 Monitoring schedule for 24hr and 1hr TSP monitoring for Lamma Extension Construction (August 2006 to October 2006)

24hr TSP Monitoring	1hr TSP Monitoring
06/Aug/2006	06/Aug/2006 1500hr to 1800hr
12/Aug/2006	12/Aug/2006 1500hr to 1800hr
18/Aug/2006	18/Aug/2006 1500hr to 1800hr
24/Aug/2006	24/Aug/2006 1500hr to 1800hr
30/Aug/2006	30/Aug/2006 1500hr to 1800hr
05/Sep/2006	05/Sep/2006 1500hr to 1800hr
11/Sep/2006	11/Sep/2006 1500hr to 1800hr
17/Sep/2006	17/Sep/2006 1500hr to 1800hr
23/Sep/2006	23/Sep/2006 1500hr to 1800hr
29/Sep/2006	29/Sep/2006 1500hr to 1800hr
05/Oct/2006	05/Oct/2006 1500hr to 1800hr
11/Oct/2006	11/Oct/2006 1500hr to 1800hr
17/Oct/2006	17/Oct/2006 1500hr to 1800hr
23/Oct/2006	23/Oct/2006 1500hr to 1800hr
29/Oct/2006	29/Oct/2006 1500hr to 1800hr

Table C.2 Manual Noise Monitoring Schedule for Transmission System Construction (August 2006 to November 2006)

Date	Monitoring Start Time
01/Aug/2006	10:00
04/Aug/2006	14:00
08/Aug/2006	10:00
11/Aug/2006	14:00
15/Aug/2006	10:00
18/Aug/2006	14:00
22/Aug/2006	10:00
25/Aug/2006	14:00
29/Aug/2006	10:00
01/Sep/2006	14:00
05/Sep/2006	10:00
08/Sep/2006	14:00
12/Sep/2006	10:00
15/Sep/2006	14:00
19/Sep2006	10:00
22/Sep/2006	14:00
26/Sep/2006	10:00
29/Sep/2006	14:00
03/Oct/2006	10:00
06/Oct/2006	14:00
10/Oct/2006	10:00
13/Oct/2006	14:00
17/Oct/2006	10:00
20/Oct/2006	14:00
24/Oct/2006	10:00
27/Oct/2006	14:00
31/Oct/2006	10:00
03/Nov/2006	14:00
07/Nov/2006	10:00
10/Nov/2006	14:00
14/Nov/2006	10:00
17/Nov/2006	14:00
21/Nov/2006	10:00
24/Nov/2006	14:00
28/Nov/2006	10:00

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: August 2006

24 hour TSP Measurement:-

	TSP concentration (μg/m³)				Weather Information (From Hong Kong Observatory)		
Date	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	Tai Yuen Village (AM4)	Mean Wind Speed (km/hr)	Prevailing Wind Dir.	Mean R.H.
06/08/2006	27	28	44	22	16.7	100	91
12/08/2006	25	25	33	44	20.7	100	84
18/08/2006	32	41	39	35	21.8	260	78
24/08/2006	22	26	24	25	21.2	110	92
30/08/2006	22	26	26	24	17.2	240	77

1 hour TSP Measurement:-

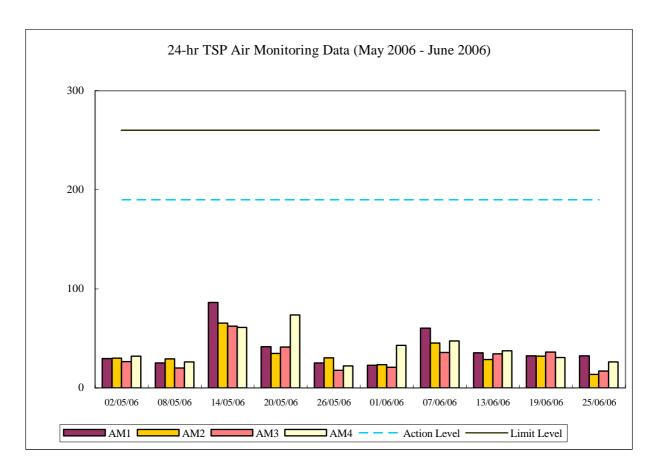
I Hour 151 W		TSP concentration (µg/m³)					
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)			
	15:00-15:59	18	21	23			
06/08/2006	16:00-16:59	13	19	17			
	17:00-17:59	20	26	20			
	15:00-15:59	2	11	13			
12/08/2006	16:00-16:59	9	14	12			
	17:00-17:59	13	19	17			
	15:00-15:59	41	52	43			
18/08/2006	16:00-16:59	53	82	61			
	17:00-17:59	29	54	35			
	15:00-15:59	26	31	32			
24/08/2006	16:00-16:59	9	23	5			
	17:00-17:59	22	28	33			
	15:00-15:59	15	28	8			
30/08/2006	16:00-16:59	17	21	16			
	17:00-17:59	23	23	15			

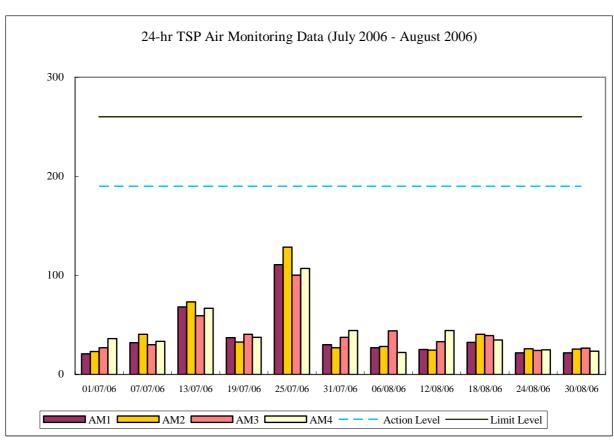
	1-hr TSP	24-hr TSP
	$(\mu g/m^3)$	$(\mu g/m^3)$
Action Level	340	190
Limit Level	500	260

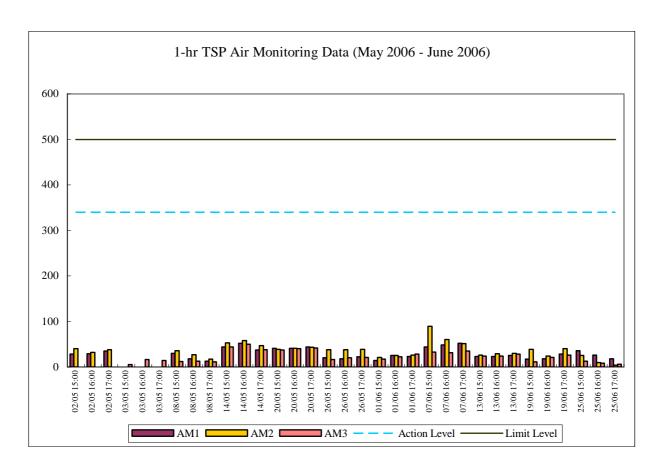
Calibration: Calibration details are shown in appendix F.

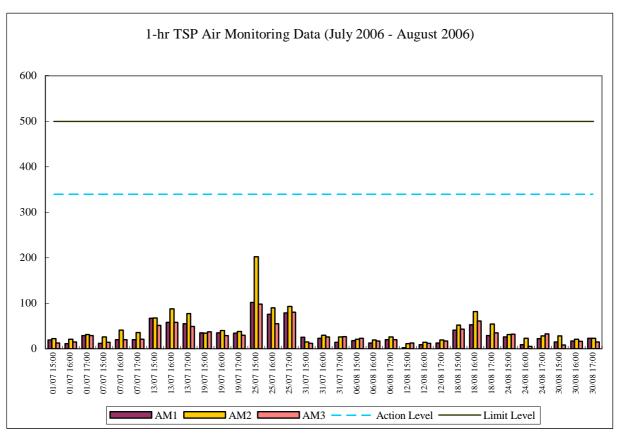
Equipment used:

Equipment asea.								
Location	1-hr TSP	24-hr TSP						
Reservoir and East Gate	TEOM 1400a	High Volume Air Sampler						
Ash Lagoon	TEOM 1400a	Partisol Model 2000 Sampler						
Tai Yuen Village	-	MINIVOL Portable Sampler						









Appendix E.1 Continuous Noise Monitoring Results for August 2006

Site: Lamma Power Station Extension - Superstructure

and E&M Works

Measurement Location: Ash Lagoon and Ching Lam

Measurement Parameter: 30-min Leq (07:00-19:00 hrs on normal weekdays)

5-min Leq (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days, and 23:00-

07:00 hrs of next day)

Noise Equipment Used: Rion NA-27 (Ash Lagoon) and B&K 2238F (Ching

Lam) sound level meters and Rion NC-74 sound

level calibrator

Last Calibration Date: Rion NA-27 sound level meter - 17/02/2005

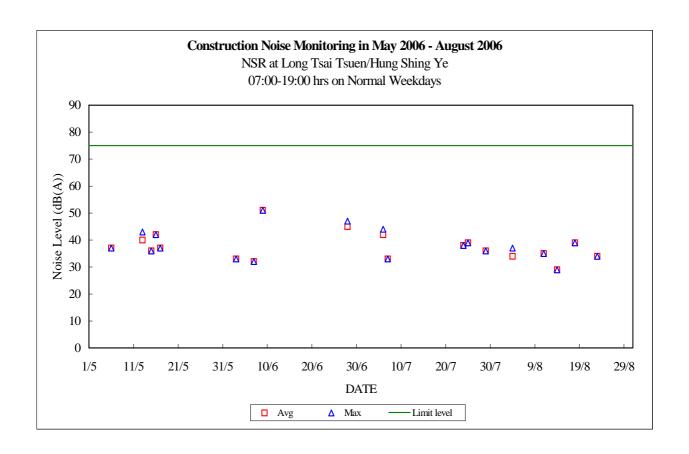
B&K 2238F sound level meter - 03/02/2006 Rion NC-74 calibrator - 13/03/2006

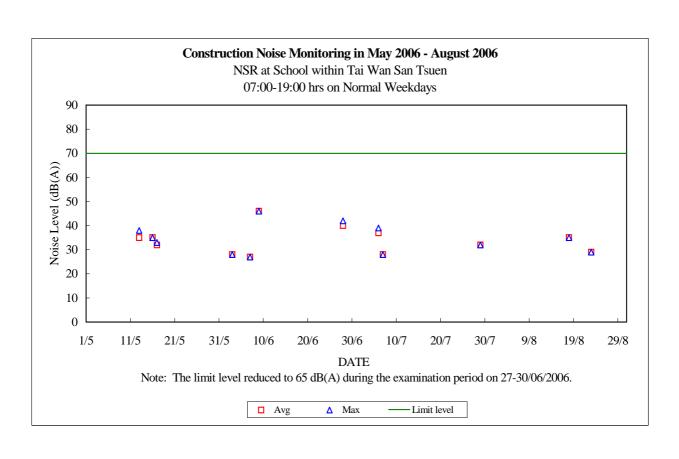
Date	Time	Calculated Noise Level at NSR at Long Tsai Tsuen/Hung Shing Ye (dB(A))		Limit Noise Level (dB(A))	Calculated Noise Level at NSR at the school within Tai Wan San Tsuen (dB(A))		Limit Noise Level (dB(A))
01/00/0006	07.00.10.00	Max	Avg		Max	Avg	
01/08/2006	07:00-19:00			75			70
01/08/2006	19:00-23:00			60			60
01/08/2006	23:00-07:00	37	32	45			45
02/08/2006	07:00-19:00			75			70
02/08/2006	19:00-23:00			60			60
02/08/2006	23:00-07:00			45			45
03/08/2006	07:00-19:00			75			70
03/08/2006	19:00-23:00			60			60
03/08/2006	23:00-07:00			45			45
04/08/2006	07:00-19:00	37	34	75			70
04/08/2006	19:00-23:00	42	38	60			60
04/08/2006	23:00-07:00	43	38	45	37	36	45
05/08/2006	07:00-19:00			75			70
05/08/2006	19:00-23:00	34	30	60			60
05/08/2006	23:00-07:00	41	35	45	37	33	45
06/08/2006	07:00-23:00	38	35	60			60
06/08/2006	23:00-07:00	40	32	45			45
07/08/2006	07:00-19:00			75			70
07/08/2006	19:00-23:00			60			60
07/08/2006	23:00-07:00	37	32	45			45
08/08/2006	07:00-19:00			75			70
08/08/2006	19:00-23:00			60			60

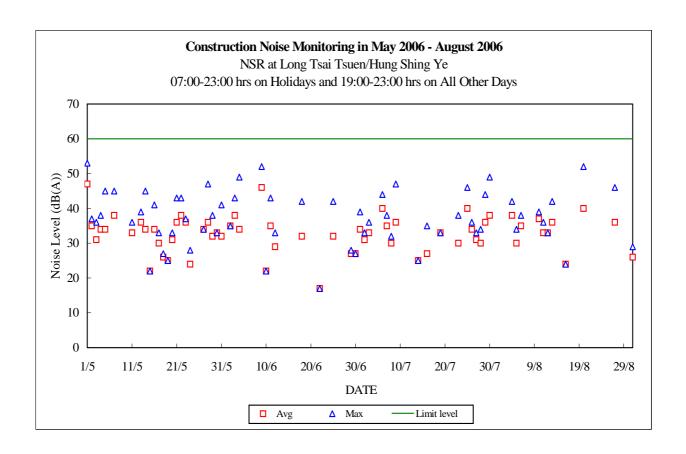
Date	Time	Calculated Noise Level at NSR at Long Tsai Tsuen/Hung Shing Ye (dB(A))		Limit Noise Level (dB(A))	Calculated Noise Level at NSR at the school within Tai Wan San Tsuen		Limit Noise Level (dB(A))
		Max	Avg		(dB(A)) Max	Avg	-
08/08/2006	23:00-07:00	45	38	45			45
09/08/2006	07:00-19:00			75			70
09/08/2006	19:00-23:00			60			60
09/08/2006	23:00-07:00	44	37	45	37	36	45
10/08/2006	07:00-19:00			75			70
10/08/2006	19:00-23:00	39	37	60			60
10/08/2006	23:00-07:00	36	33	45			45
11/08/2006	07:00-19:00	35	35	75			70
11/08/2006	19:00-23:00	36	33	60			60
11/08/2006	23:00-07:00	33	29	45			45
12/08/2006	07:00-19:00			75			70
12/08/2006	19:00-23:00	33	33	60			60
12/08/2006	23:00-07:00	34	30	45			45
13/08/2006	07:00-23:00	42	36	60			60
13/08/2006	23:00-07:00	43	39	45			45
14/08/2006	07:00-19:00	29	29	75			70
14/08/2006	19:00-23:00			60			60
14/08/2006	23:00-07:00	25	23	45			45
15/08/2006	07:00-19:00			75			70
15/08/2006	19:00-23:00			60			60
15/08/2006	23:00-07:00	31	29	45			45
16/08/2006	07:00-19:00			75			70
16/08/2006	19:00-23:00	24	24	60			60
16/08/2006	23:00-07:00	32	28	45			45
17/08/2006	07:00-19:00			75			70
17/08/2006	19:00-23:00			60			60
17/08/2006	23:00-07:00	36	36	45	31	31	45
18/08/2006	07:00-19:00	39	39	75	35	35	70
18/08/2006	19:00-23:00			60			60
18/08/2006	23:00-07:00	45	38	45	40	34	45
19/08/2006	07:00-19:00			75			70
19/08/2006	19:00-23:00			60			60
19/08/2006	23:00-07:00	39	35	45	35	30	45
20/08/2006	07:00-23:00	52	40	60	47	38	60
20/08/2006	23:00-07:00	42	38	45	37	33	45

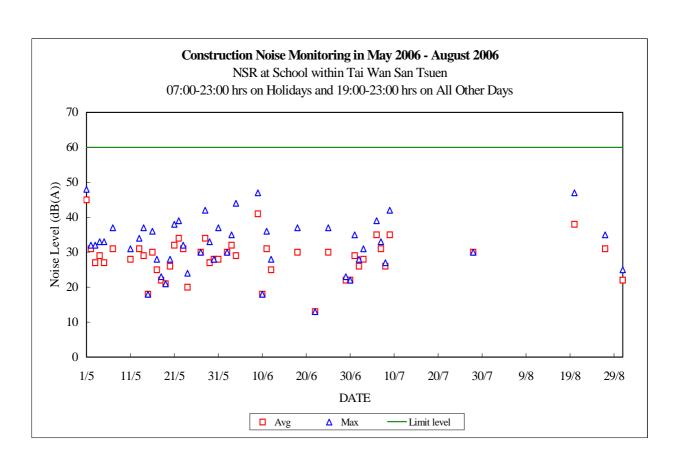
		Calcula	ated		Calcula	ated	
		Noise			Noise Level a	a t	
		Level		Limit	NSR at		Limit
Date	Time	NSR at Tsai	Long	Noise	school		Noise
2000	120	Tsuen/H	lung	Level	within Wan Sar		Level
		Shing N		(dB(A))	Tsuen	1	(dB(A))
		(dB(A)))		(dB(A))	
21/08/2006	07:00-19:00	Max 	Avg 	75	Max 	Avg	70
21/08/2006	19:00-23:00			60			60
21/08/2006	23:00-07:00	36	32	45	32	28	45
22/08/2006	07:00-19:00			75			70
22/08/2006	19:00-23:00			60			60
22/08/2006	23:00-07:00	31	28	45	26	23	45
23/08/2006	07:00-19:00	34	34	75	29	29	70
23/08/2006	19:00-23:00			60			60
23/08/2006	23:00-07:00	33	32	45	28	27	45
24/08/2006	07:00-19:00			75			70
24/08/2006	19:00-23:00			60			60
24/08/2006	23:00-07:00	33	30	45	28	26	45
25/08/2006	07:00-19:00			75			70
25/08/2006	19:00-23:00			60			60
25/08/2006	23:00-07:00	41	37	45	36	32	45
26/08/2006	07:00-19:00			75			70
26/08/2006	19:00-23:00			60			60
26/08/2006	23:00-07:00	32	29	45	27	24	45
27/08/2006	07:00-23:00	46	36	60	35	31	60
27/08/2006	23:00-07:00	35	30	45	31	26	45
28/08/2006	07:00-19:00			75			70
28/08/2006	19:00-23:00			60			60
28/08/2006	23:00-07:00	33	32	45	29	28	45
29/08/2006	07:00-19:00			75			70
29/08/2006	19:00-23:00			60			60
29/08/2006	23:00-07:00	45	38	45	39	33	45
30/08/2006	07:00-19:00			75			70
30/08/2006	19:00-23:00			60			60
30/08/2006	23:00-07:00	36	30	45	32	25	45
31/08/2006	07:00-19:00			75			70
31/08/2006	19:00-23:00	29	26	60	25	22	60
31/08/2006	23:00-07:00			45			45

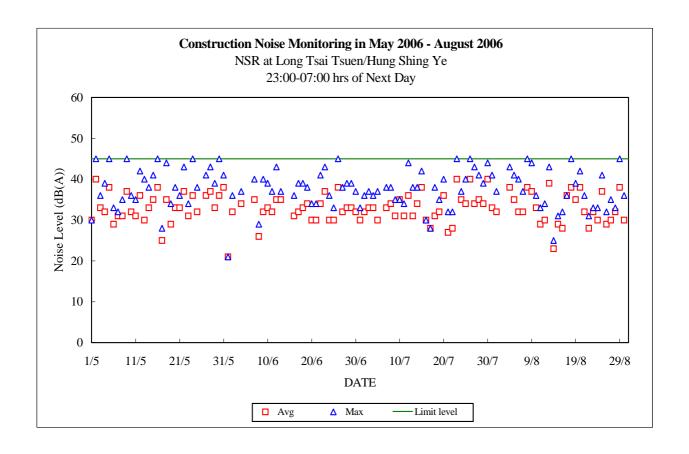
Note: "--" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.

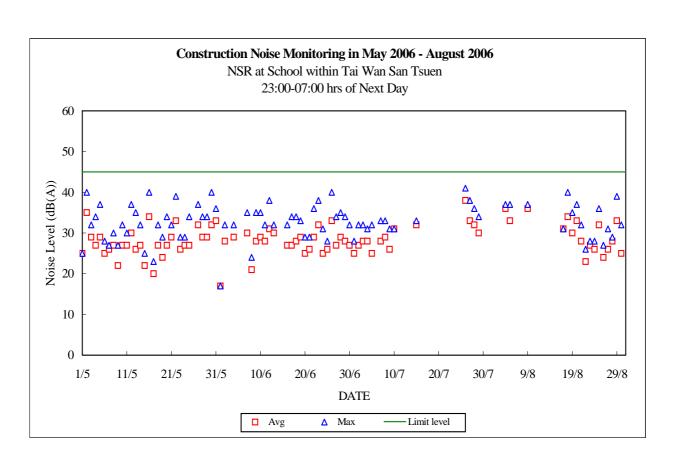












Appendix E.2 Manual Noise Monitoring Results for August 2006

Site: Lamma Power Station Extension - Transmission System

Measurement Parameter: 30-min Leq (07:00-19:00 hrs on normal weekdays)
Noise Equipment Used: Rion NL-31 sound level meter and Rion NC-74 sound

level calibrator

Wind Speed Equipment: Extech Instruments 45118

Last Calibration Date: Rion NL-31 sound level meter $-\ 08/08/2005$

Rion NC-74 sound level calibrator - 04/10/2005

Measurement Location: N4 - Pak Kok Tsui No.2

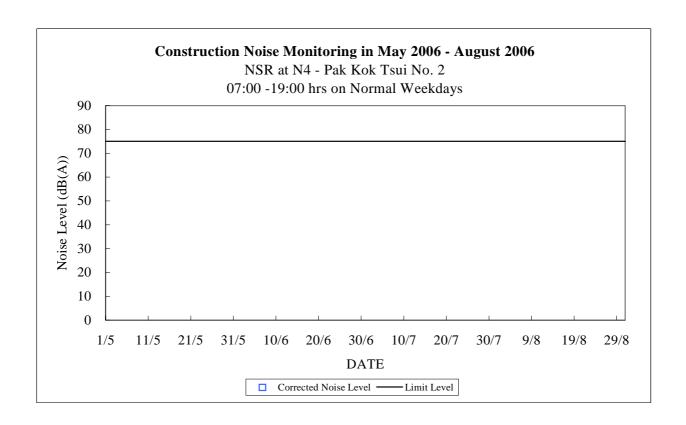
Date	Time	Measured Noise Level (dB(A))	Notional Background Noise Level (dB(A))	Corrected Noise Level (dB(A))	Limit Noise Level (dB(A))	Wind Speed (m/s)
01/08/2006	10:00-10:30	52.3	54.9		75	<5
04/08/2006	14:00-14:30	52.7	54.9		75	<5
08/08/2006	10:15-10:45	53.0	54.9		75	<5
11/08/2006	14:05-14:35	52.0	54.9		75	<5
15/08/2006	10:00-10:30	52.4	54.9		75	<5
18/08/2006	14:00-14:30	49.6	54.9		75	<5
22/08/2006	10:15-10:45	51.0	54.9		75	<5
25/08/2006	14:00-14:30	51.0	54.9		75	<5
29/08/2006	10:00-10:30	50.0	54.9		75	<5

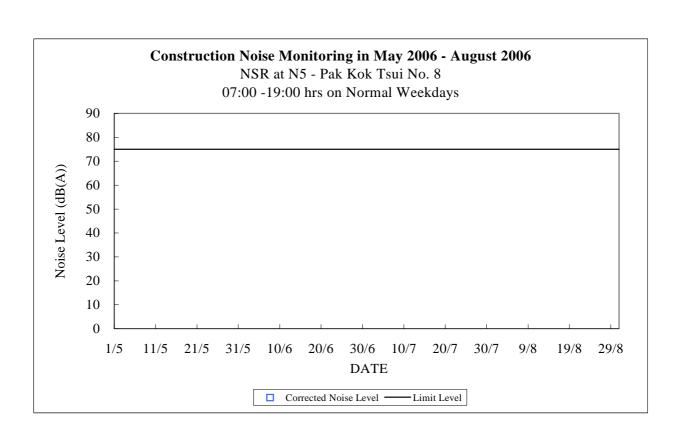
Measurement Location: N5 - Pak Kok Tsui No.8

Date	Time	Measured Noise Level (dB(A))	Notional Background Noise Level (dB(A))	Corrected Noise Level (dB(A))	Limit Noise Level (dB(A))	Wind Speed (m/s)
01/08/2006	10:40-11:10	51.7	54.9		75	<5
04/08/2006	14:40-15:10	51.2	54.9		75	<5
08/08/2006	10:50-11:20	50.1	54.9		75	<5
11/08/2006	14:45-15:15	52.2	54.9		75	<5
15/08/2006	10:40-11:10	49.2	54.9		75	<5
18/08/2006	14:35-15:05	51.3	54.9		75	<5
22/08/2006	10:55-11:25	50.0	54.9		75	<5
25/08/2006	14:45-15:15	50.5	54.9		75	<5
29/08/2006	10:40-11:10	51.0	54.9		75	<5

Note:

- 1. The noise generated from local noisy events (e.g. dog barking, passingby pedestrians, motor vehicle, aeroplane, helicopter, etc.) was manually removed during measurement as far as practicable.
- 2. "--" represents the measured noise monitoring data lower than the established notional background level.





Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER SITE VISIT LOG SHEET

Site Na	ame:	R	5	Site No.:	Am 1			
Date of	f visit:	14.	8-2006	Hour of Visit:	1035			
Staff n	ame:	W	L MAK	HVAS S/N:	2198			
Used f	ilter paper no.:	L`	7 7 8	New filter paper no.:	LT80			
Type o	of filter:	Glass-fil	ore	•				
Ι. Π.	Ambient Conditions $Temperature, T_a = $ $Correction of manor$	273+ 301		ressure, $P_a = \frac{9}{2}$	797 <u>m</u> b			
	Calibration orifice	No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min.}$ (inch H_2O)					
	1535(09/200	5)	$\triangle H_a = 19.29(T_a/P_a) = \underline{5 \cdot 9/I}$					
	Manometer reading Adjustment of flow Manometer reading Note: Tolerance Limit o	after cal	libration:	5.70 Y 5.90 min. Corresponding limits for	manometer: \pm 0.2 inch H ₂ O			
III.	General Conditions	of HVA	.S					
IV.	Remarks							

HIGH VOLUME AIR SAMPLER SITE VISIT LOG SHEET

Site Na	ame:	<u>E4</u>	Site No.:	AN2					
Date of	f visit:	14-8-2006	Hour of Visit:	1115					
Staff na	ame:	W LMAK	HVAS S/N:	2195					
Used fi	ilter paper no.:	LT 79	New filter paper no.:	LT81					
Type o	f filter:	Glass-fibre							
	Ambient Condition Temperature, $T_a =$		Pressure, $P_a = $	<u>199</u> mb					
П.	Correction of mano	meter reading							
	Calibration orifice	rifice No. Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min.}$ (inch H_2O)							
	1535(09/200	5)	$\triangle H_a = 19.29(T_a/P_a) =$	= 5.91					
	Manometer reading before calibration: 5.70 Adjustment of flow controller (Y/N): Y Manometer reading after calibration: 5.90 Note: Tolerance Limit of HVAS flow: ± 1.0 ft ³ /min. Corresponding limits for manometer: ± 0.2 inch H ₂ O								
III.	General Conditions	of HVAS							
IV.	Remarks								

File Name: C:\monitor\ambient\hvprical\HVASCAL05.doc

PARTISOL TSP SAMPLER SITE VISIT LOG SHEET

Site Name: _	ASH LAGOON	Site Number: $\pm M 3$
Date of Visit:	14-8-2006	Hour of Visit: 0945
Staff Name: _	W. L MAK /HKTSONG	Partisol S/N: 1400 B 20755 C4
Used Filter N	o.: PD 36	New Filter No.: PD 37
Ambient temp	perature: 32.0°	Ambient pressure: 499
I. <u>G</u> e	eneral Services	
1.		arge In-line Filter
2.	Clean the sample inle	head
3.	Clean sample tube	✓
4.	Clean / Replace pump	head
5.	Clean / Replace pistor	X
1.	Temperature Check (Ambie °C Cal Before	
2.	Pressure Check (Ambient pre	ssure ± 20 mbar)(factor = 0.000987)
	Before Ca	ibration: Y/Nmbar
3.	Flow Check (16.7± 1.1 litre/mi)
	Before Vmin Ca	ibration: Y/N1/min After
III. Rema	r <u>ks</u>	

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name:	TYV	Site No.:	<u>AM4</u>			
Date of visit:	11-10.					
Staff name:	338					
Used filter paper no.:	MI 20	New filter paper no.:	MI21			
Type of filter:	Cellulose / Glass (Delete as appropri	riate)				
I. Calibration is perfo	rmed by using Dryc	cal DC-2 Flow Calibrator	-			
5 Sl/min set point i						
4.174	Before	<u>χοδο</u> Aft	er			
	•					
2. Clean / repl	lace Pump Valves:	X	······································			
3. Clean / rep	l ace Pump Diaphrag	gms:				
4. Clean Impa	action Inlet:	ΧΧ				
5. Replace Ti	mer Battery Every 6	months: X				
6. Replace In	let Filter:	$\sqrt{}$				
III. Remarks						

THE HONGKONG ELECTRIC CO., LTD. LAMMA POWER STATION EXTENSION TEOM 1400A CONTINUOUS DUST MONITOR DATA QUALITY ASSURANCE LOG SHEET

Month: August Year: 2006

	Reservoir (AM1)					
Date	Frequency (Hz) (230 – 260)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (I/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)	
6/8/2006	239.36	0-038	4	1.00	15-67	
12/8/2006	239.17	0.041	4	1.00	15-67	
18/8/2006	7 38 91	0.029	4	1.00	15-67	
24/8/2006	238.72	0.031	4	1.00	15-67	
30/8/2006	238 63	0.041	4	1.00	15-67	

			East Gate (AM2)		
Date	Frequency (Hz) (230 – 250)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (1/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
6/8/2006	245.18	0.492	4	0-49	15.62
12/8/2006	244.95	0.47	4	0-99	15.62
18/8/2006	244.72	0.052	4	0-49	15-61
24/8/2006	232-35	0.43	4	0-99	1543
30/8/2006	232.24	0.045	4	0.49	15.62

			Ash Lagoon (AM3)		
Date	Frequency (Hz) (240 – 270)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (1/min) (14.67 – 16.67)
6/8/2006	247.91	0.030	4	1.00	15-67
12/8/2006	232.35	0.047	4	1.00	15-67
18/8/2006	272.18	0.028	4	1.00	15.66
24/8/2006	232-06	0.025	4	1.00	15-67
30/8/2006	231.99	0.034	4	1001	15-67

	Maintenance	e Record					
Reservoir East Gate Ash Lagoon							
TEOM Filter Exchange	✓	✓ ·	/				
Clean TSP Inlet	~	/	7				
Replace flow in-line filter							
Pump Repair							
Leak Check							
Flow Audit							
Flow Controller Calibration							
A/C filter cleaning	\checkmark	V	<u> </u>				

Remarks:		
	<u> </u>	
	1	
Prepared by:	2x	
Checked by:	Zo	

THE HONGKONG ELECTRIC CO., LTD. LAMMA POWER STATION EXTENSION NOISE MONITORING STATION SITE VISIT LOG SHEET

Loc	ocation Ash Lagoon/ Ching Lam*							
Dat	e <u>14-8-06</u> Time	10:00						
Equ	ipmentRion_NA-27/B&K_2238F*_Sound_Le	evel Meter						
Ser	Gerial Number 00111465/00111466 /00111467/ 2343838/2356907* _							
	Staff Attended W.L.MAK . H.k.TSANG							
1.	Calibration							
	Acoustic calibrator used	Rion NC-74						
	Calibration level before adjustment (dB(A))	<u> </u>						
	Calibration level after adjustment (dB(A))	94						
2.	Weather Conditions							
	a. Sunny/fine/cloudy/showery/heavy rain*							
	b. Strong wind/breeze/calm*							
3.	Remark/Observation							

Note: * - Please delete where inappropriate

THE HONGKONG ELECTRIC CO., LTD. LAMMA POWER STATION EXTENSION NOISE MONITORING STATION SITE VISIT LOG SHEET

Loc	ocation Ash Lagoon/Ching Lam*							
Dat	e <u> </u>	1-8-0	6	Time _		> : 30		
Equ	ipment	Rion 1	NA-27 /B&K	2238F*	Sound Lev	rel Meter		
Ser	Serial Number 00111465/00111466/00111467/234383 8/2356907*							
Sta	Staff Attended W.L.MAK HK. TSANG							
					,	,		
1.	Calibration							
	Acoustic ca	librator	r used			Rion NC-74		
	Calibration	level h	pefore ad	justment	(dB(A))	P4.0		
	Calibration	level a	after adju	ıstment	(dB(A))	94		
2.	Weather Con	ditions						
	a. Sunny /f	ine/ clou	ıdy/showeı	y/heavy	rain*			
	b. Strong	wind/bre	eeze /calm [,]	+				
3.	Remark/Obse	rvation						
		······································						

Note: * - Please delete where inappropriate

Equipment Calibration Record for August 2006

Site: Civil works for 275kV Cable Route from Lamma Island to Cyberport

Noise Equipment Used: RION NL -31Calibrator Used: RION NC -74

Measurement Location: N4 - Pak Kok Tsui No. 2

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
01/08/2006	94.0	94.0	C K Law
04/08/2006	94.0	94.0	C K Law
08/08/2006	94.0	94.0	C K Siu
11/08/2006	94.0	94.0	C K Siu
15/08/2006	94.0	94.0	C K Siu
18/08/2006	94.0	94.0	C K Siu
22/08/2006	94.0	94.0	C K Siu
25/08/2006	94.0	94.0	C K Siu
29/08/2006	94.0	94.0	C K Siu

Measurement Location: N5 - Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
01/08/2006	94.0	94.0	C K Law
04/08/2006	94.0	94.0	C K Law
8/08/2006	94.0	94.0	C K Siu
11/08/2006	94.0	94.0	C K Siu
15/08/2006	94.0	94.0	C K Siu
18/08/2006	94.0	94.0	C K Siu
22/08/2006	94.0	94.0	C K Siu
25/08/2006	94.0	94.0	C K Siu
29/08/2006	94.0	94.0	Ç K Siu

Note: Measurement accepted as valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.

Appendix G Event/Action Plans

Table G.1 Event and Action Plans for Air Quality

Event	Monitoring		Actio	on
	ET Leader	IEC	Engineer	Contractor
Action Level				
Exceedance of one sample	Identify source Inform Engineer and IEC verbally Repeat measurement to confirm finding	Check monitoring data submitted by ET and advise Engineer.	Notify Contractor Checking monitoring data and contractor's working methods	Rectify any unacceptable practice amend any working methods if appropriate
Exceedance of two or more consecutive samples	Identify source Inform Engineer and IEC verbally Repeat measurement to confirm finding Increase monitoring frequency Discuss with Engineer and Contractor on remedial actions required If exceedance continues, arrange meeting with Engineer If exceedance stops, discontinue additional monitoring	Check monitoring data submitted by ET and advise Engineer. Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Confirm receipt of notification of failure in writing Notify contractor Checking monitoring data and contractor's working methods Discuss proposed remedial actions with the ET and Contractor Ensure remedial actions properly implemented	Submit proposals for remedial actions to Engineer within 3 working days of notifications Implement the agreed proposals Amend proposal if appropriate
Limit level				
Exceedance of one sample	Repeat measurement to confirm finding. Identify the source(s) of the impact. If the exceedance is found to be valid and due to the Construction works, verbally advise the Contractor, Engineer and IEC, and inform the EPD of the exceedance, as soon as practicable. Increase monitoring frequency to daily Assess the effectiveness of the contractor's remedial actions and keep Engineer, IEC and EPD informed of the results	Check monitoring data submitted by ET and advise Engineer Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Confirm receipt of notification of failure in writing Notify Contractor Checking monitoring data and Contractor's working method Discuss with ET and Contractor on remedial actions to be provided Ensure remedial measures properly implemented	Take immediate action to avoid further exceedance Submit proposals for remedial actions to Engineer within 3 working days of notifications Implement the agreed proposals Amend proposal if appropriate

Event	Monitoring		Action	1
	ET Leader	IEC	Engineer	Contractor
Exceedance of two or more	Identify source If the exceedance is found to be valid	Provide feedback to the Engineer on the remedial actions proposed by the	Confirm receipt of notification of failure in writing	Take immediate action to avoid further exceedance
consecutive samples	and due to the construction works, verbally advise the Contractor, Engineer and IEC, and inform the EPD of the	ET / Contractor Checking monitoring data and neer Advise Engineer on the effectiveness Contractor's working methods		Submit proposals for remedial actions to Engineer within 3 working days of notifications
	exceedance as soon as practicable. Repeat measurement to confirm finding	Verify the implementation of the remedial measures	Discuss proposed remedial actions with ET and Contractor	Implement the agreed proposals
	Increase monitoring frequency to daily Carry out analysis of Contractor's		Ensure remedial measures properly implemented	Resubmit proposals if problem still not under control
	working procedures to determine possible mitigation to be implemented		If exceedance continues, consider what portion of the work is	Stop the relevant portion of works as determined by the
	Arrange meeting with Engineer and Contractor to discuss the remedial actions to be taken		responsible and instruct the Contractor to stop the portion of work until the exceedance is abated	Engineer until the exceedance is abated
	If exceedance stops, discontinue additional monitoring			_

Table G.2 Event and Action Plans for Construction Noise

Exceedance	ET Leader	IEC	Engineer	Contractor
Action Level	Undertake noise measurement/check monitoring data to establish validity of complaint.	Review the analysed results submitted by the ET.	Notify Contractor of the complaint if proven.	Submit proposals for remedial actions to Engineer.
	If the complaint is valid, inform Engineer and IEC verbally.	Review the remedial measures proposed by the Contractor and advise the Engineer and ET accordingly.	Check Contractor's working methods and advise IEC and ET accordingly.	Amend proposals if required by the Engineer.
	Identify the source(s) of the noise.	Verify the implementation of the remedial measures.	Remind the Contractor of his contractual obligations and discuss remedial actions.	Implement the remedial actions immediately upon instruction from the Engineer.
	Discuss remedial actions required with Contractor and Engineer.		Keep the Contractor informed of the efficacy of remedial actions.	Liaise with the Engineer to optimise the effectiveness of the agreed mitigation.
	Increase manual monitoring frequency to assess efficacy of remedial measures.			
	If exceedance continues, review implementation of appropriate mitigation measures.			
Limit Level	Repeat manual measurement/check monitoring data to confirm findings.	Agree potential remedial actions with Engineer, ET and Contractor.	Notify Contractor of exceedance.	Take immediate action to avoid further exceedance.
	Identify the source(s) of the impact. If the exceedance is found to be valid and due to	Review Contractor's remedial actions / measures to ensure their effectiveness	Check Contractor's working methods and advise IEC and ET accordingly.	Submit proposals for remedial actions to Engineer.
	the Construction works, verbally advise the Contractor, Engineer and IEC, and inform the EPD of the exceedance, as soon as practicable.	and advise the Engineer and ET accordingly.	Discuss with Contractor the remedial actions to be implemented.	Amend proposals if required by the Engineer.
	•	Verify the implementation of the remedial measures	Keep the Contractor informed of the efficacy of remedial actions.	Implement remedial actions immediately
	Discuss remedial actions required with Engineer.		If the exceedance continues, consider what portion of the work is	upon instruction from the Engineer. If the exceedance continues, consider
	Increase manual monitoring frequency to assess efficacy of remedial measures.		responsible and instruct the Contractor to stop the portion of work until the exceedance is abated	what portion of the work is responsible and, as instructed by the Engineer, stop the portion of work until the exceedance is abated

Table G.3 Event and Action Plans for Water Quality

Exceedance	ET Leader	IEC	Engineer	Contractor
Action level exceeded on one sampling day	Verbally inform the Contractor, and IEC. Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with Engineer and Contractor; Repeat measurement on next day of exceedance.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with Contractor the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose and discuss mitigation measures with Engineer; Implement the agreed mitigation measures.
Action level exceeded on more than one consecutive sampling day	Repeat in-situ measurements to confirm findings; Identify source(s) of impact; Inform Contractor and IEC; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measure with Engineer and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next day of exceedance.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with ET and Contractor on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose mitigation measures to Engineer within 3 working days and discuss with ET and Engineer; Implement the agreed mitigation measures.

Exceedance	ET Leader	IEC	Engineer	Contractor
Limit level exceeded on one sampling day	Verbally inform the Contractor, IEC and the EPD of the exceedance; Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measure with Engineer and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose mitigation measures to Engineer within 3 working days and discuss with Engineer; Implement the agreed mitigation measures.
Limit level exceeded by more than one consecutive sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform Contractor, IEC and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measure with Engineer and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine works until no exceedance of the Limit Level.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose mitigation measures to Engineer within 3 working days and discuss with Engineer; Implement the agreed mitigation measures As directed by the Engineer, to slow down or to stop all or part of the marine work

Appendix H

Site Audit Summary

(In order to save paper, the weekly inspection checklists are provided only in electronic format in the CD-ROM enclosed.)

C/N : 64 / 9012 The Hongkong Electric Co. Ltd. Lamma Power Station Extension – E&M Works Weekly Site Inspection Checklist

Inspection	date 2 Aug Jobb Time 09:30 Inspects	ea By		W-		
Site	LMX-19 Mech. Evertler Ana		Cont	racto	<u></u>	Kwak
Veather						
Condition	Sunny Fine Overcast Hazy		Driz	zle [✓ Ra	in St
Temperatu	re	te _	Lov	V		
Wind	Calm Light Strong					
ENERAL						
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		✓			10.41
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		1			
IR QUAL	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements	14/74	103	110		Remarks
Cap311R: 3	Has the contractors notified EPD of the construction site which is			T		
Cap311R:	classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change?	✓				
		✓	J			
Sch 12(3)	change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this	<i>V</i>	J			
Sch 12(3)	change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever		J			
Cap311 EM&A:	change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?		<i>J</i>			Smoy Ay Ax,

Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?

Cap311R: Sch 18

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Cement and dry pulverized fuel ash (PFA)					
Cap311R: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?	/				
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	1			-	
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	~				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	V				
	Loading, unloading or transfer of dusty materials					
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	V				
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	~				
	Use of vehicles					
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	~				
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		~			Cluny By R.Y.
	Transfer of dusty materials using a belt conveyor system	•				
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	V				
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	✓				
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	~				
Cap311R: Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?	✓				
	Concrete batching plant					
EM&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?	V				
EM&A: A2	Are dusty materials, except cement and dry PFA, wetted by water spray system?	_				
EM&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?	~				
EM&A: A2	Are all the conveyor transfer points totally enclosed?	J				

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Miscellaneous					
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	1			:	
Cap3110	Is open burning prohibited?		/			
Cap311	Is black smoke emission from plant/equipment avoided?		/			

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials	·				
WMP EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	/				
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?	1				
EM&A: E3	Are wastes disposed of at licensed sites?					
	Construction Waste and Excavated Materials					
WMP EM&A: E3	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	/				
WMP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?	/				
WMP	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?					
WMP	Are the used formworks reused as far as possible before being disposed of in a landfill site?					
WMP	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	1				
EM&A: E3	Are wastes disposed of at licensed sites?	/				
	General refuse					
WMP	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?		1			
WMP	Is general refuse stored within receptacles and separated from chemical wastes?		/			
WMP	Is the refuse disposed of regularly and properly?		1			
WMP	Are burning of refuse at site and dumping at sea prohibited?					
	Chemical Waste					
EM&A: E3	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
WDO	Has the Contractor been registered as a chemical waste producer?		1			
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?		/			
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?		/			
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?		/			
	Storage, collection and transportation of waste	-t				
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?					
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?				-	
	(1) public fill materials for on-site reuse, or disposal at public filling area;	1				
	(2) reusable / recyclable materials;	7				
	(3) un-reusable / non-recyclable waste for landfill disposal.		/			
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?					

WATER QUALITY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off	1			· · · · · · · · · · · · · · · · · · ·	
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	1				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	/				
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?					
PN1/94	Are open stockpiles of construction materials (e,g, aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?					
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?					
	Groundwater					
PN1/94	Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Boring and Drilling Water					
PN1/94	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?	/				
	Wheel Washing Water					
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?					

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	/				
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	1				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	1				

NOISE

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks	
EM&A: C1	Are working programmes scheduled to minimize noise nuisance?			/				
EM&A: C1	Are construction works or equipment sited to minimize noise nuisance?			/				
EM&A: C1	Are all plant and equipment maintained in good operating conditions?			/				
EM&A: C1/GP	Is idle equipment turned off or throttled down?			1				
EM&A: C1	Are methods of working devised and arranged to minimize noise nuisance?			/				
EM&A: C1)	Are construction works carried out in a manner to minimize noise nuisance?			7				
EM&A: C2	To mitigate construction noise during Sunday's and public holidays, is either one of the following measures adopted? a) Mitigation by portable noise barriers at noise sources or b) Rescheduling of some powered mechanical equipment to less sensitive time periods?			/				
EM&A: C3	To mitigate night time construction noise, is dredging equipment equipped with silencers or mufflers?		1					
NCO	Are valid construction noise permits, if required, available for inspection?			/				
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?			1				
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?			1				
	Major noise source(s)	☐ Traffic		Construction activities inside the site				
		☐ Construction activities outside the site	Others					

VEP: Varied Environmental Permit WMP: Waste Management Plan EM&A: EM&A Manual (Construction Phase) Cap311R: APC (Construction Dust) Regulation NCO: Noise Control Ordinance Cap3110: APC (Open Burning) Regulation WDO: Waste Disposal Ordinance Cap311: Air Pollution Control Ordinance PN1/94: Practice Note for Professional Persons (Construction Site Drainage) Unknown Remark Signatures ET Member Contractor's Representative

(Name in Block letters:

(Name in Block letters:

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – E&M Works Weekly Site Inspection Checklist

Inspection of	Inspector Inspec	ed By	ET:	W) racto	. Sw r: W.7	Kwok
Weather						
Condition	Sunny Fine Overcast Hazy		Driz	zle [✓ Ra	in Storm
Temperatu	re	e	Lov	v		
Wind	Calm Light Strong					
GENERAL						
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		1			
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		1			
		*. *				
AIR QUALI	TY					
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements					
Cap311R: 3	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change?	✓				
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed?		√			
Cap311	Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?	✓			-	

Are haul roads paved with concrete or sprayed with water to keep

Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?

Construction Sites

the entire road wet?

Stockpiling of dusty materials

EM&A:

Cap311R: Sch 18

A1

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks		
	Cement and dry pulverized fuel ash (PFA)		· · · · · · · · · · · · · · · · · · ·					
Cap311R: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?	/						
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	V						
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	1						
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	1						
	Loading, unloading or transfer of dusty materials							
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	J						
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	J						
	Use of vehicles							
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	V						
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		V			Chury By RY.		
	Transfer of dusty materials using a belt conveyor system		•	•		•		
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	~						
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	1						
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	1						
Cap311R: Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?	/						
	Concrete batching plant							
EM&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?							
EM&A: A2	Are dusty materials, except cement and dry PFA, wetted by water spray system?							
EM&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?							
EM&A: A2	Are all the conveyor transfer points totally enclosed?							

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Miscellaneous					
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?		-			
Cap3110	Is open burning prohibited?		/			,
Cap311	Is black smoke emission from plant/equipment avoided?					

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
***************************************	Dredged Materials	-l			I	
WMP EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	(
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?					
EM&A: E3	Are wastes disposed of at licensed sites?	/				
	Construction Waste and Excavated Materials					
WMP EM&A: E3	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	/			-	
WMP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?	/				
WMP	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?					
WMP	Are the used formworks reused as far as possible before being disposed of in a landfill site?					
WMP	Are the remaining unsuitable excavated materials disposed of at the public filling areas?					
EM&A: E3	Are wastes disposed of at licensed sites?	7				
	General refuse					
WMP	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?		/			
WMP	Is general refuse stored within receptacles and separated from chemical wastes?					
WMP	Is the refuse disposed of regularly and properly?		1	,		
WMP	Are burning of refuse at site and dumping at sea prohibited?					
	Chemical Waste					
EM&A: E3	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?		/			

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks		
WDO	Has the Contractor been registered as a chemical waste producer?		-					
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?		1					
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?		1					
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?		/					
	Storage, collection and transportation of waste							
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?		/					
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?							
	(1) public fill materials for on-site reuse, or disposal at public filling area;	1						
	(2) reusable / recyclable materials;							
	(3) un-reusable / non-recyclable waste for landfill disposal.							
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?		/					

WATER QUALITY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off	•				
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	1				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	/				
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?	1				
PN1/94	Are open stockpiles of construction materials (e,g, aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?					
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	1				
	Groundwater	<u> </u>				
PN1/94	Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Boring and Drilling Water	1.				
PN1/94	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?	(
	Wheel Washing Water					
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?	1				

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	/				
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	1				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	/				

NOISE

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: C1	Are working programmes sched	uled to minimize noise nuisance?		/			
EM&A: C1	Are construction works or equip nuisance?	ment sited to minimize noise		1			
EM&A: C1	Are all plant and equipment mai conditions?	ntained in good operating		/			
EM&A: C1/GP	Is idle equipment turned off or the	nrottled down?		/			
EM&A: C1	Are methods of working devised nuisance?	and arranged to minimize noise		1			-
EM&A: C1)	Are construction works carried on nuisance?						
EM&A: C2	To mitigate construction noise d holidays, is either one of the foll a) Mitigation by portable nois b) Rescheduling of some power sensitive time periods?						
EM&A: C3	To mitigate night time construct equipped with silencers or muffl	ion noise, is dredging equipment ers?	/				
NCO	Are valid construction noise per inspection?	mits, if required, available for		(
NCO	Are conditions of construction n relevant part(s) of the works imp		/				
NCO	Are valid noise emission labels held percussive breakers?	fixed at air compressors and hand		/			
	Major noise source(s)	☐ Traffic ☐ Construction activities outside the site		Constr site Others		activi	ties inside the

VEP: Varied Environmental Permit WMP: Waste Management Plan EM&A: EM&A Manual (Construction Phase) Cap311R: APC (Construction Dust) Regulation NCO: Noise Control Ordinance Cap3111: Air Pollution Control Ordinance PN1/94: Practice Note for Professional Persons (Construction Site Drainage) Unk: Unknown Remark Signatures ET Member Contractor's Representative

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The Hongkong Electric Co. Ltd. Lamma Power Station Extension – E&M Works Weekly Site Inspection Checklist

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	date [16-0f-1006] Time [10:30 Am] Inspected	l Ву 🔲	ET:	41	r Chr	m HEC
G*:			Contra	ctor:		m NEC C.D.K CT Chm
Site	LMX – Mech. Erection Area					ct Chm
Weather						
Condition	Sunny Fine Overcast Hazy		Driz	zle [Ra	ain Storm
Temperati	rre 32 °C Humidity High Modera	te	Lov	v		
Wind	Calm Light Breeze Strong					
GENERAL				,	-	
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		V			
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?					
Ref.	Charles Carrier	N/A	Yes	No	Tinto	
	Checklist Condition	1	l	l .	Unk	Remarks
Cap311R: 3	General Requirements	··········			Unk	Remarks
			h		Unk	Remarks
Cap311R: Sch 12(3)	General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any				Unk	Remarks
-	General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this				Unk	Remarks
Sch 12(3)	General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever				UIIK	Remarks
Sch 12(3)	General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?				Unk	Spray by
Sch 12(3) Cap311 EM&A	General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection? Construction Sites Are haul roads paved with concrete or sprayed with water to keep				UIIK	Spray by

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Page 1 of 7

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Cement and dry pulverized fuel ash (PFA)					
Cap311R: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?					
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?					
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	/				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?		,	-		
	Loading, unloading or transfer of dusty materials	·				
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?					
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?					
	Use of vehicles			············		
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?					
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?					Clearing provided by
	Transfer of dusty materials using a belt conveyor system	J		L		
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?					
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?					
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?					
Cap311R: Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?	/				
	Concrete batching plant					
EM&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?					
EM&A: A2	Are dusty materials, except cement and dry PFA, wetted by water spray system?					
EM&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?	1				
EM&A: A2	Are all the conveyor transfer points totally enclosed?					

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Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Miscellaneous				L	
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?		,			·
Cap3110	Is open burning prohibited?		/			
Cap311	Is black smoke emission from plant/equipment avoided?					

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks				
	Dredged Materials									
WMP EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?									
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?	/	,							
EM&A: E3	Are wastes disposed of at licensed sites?									
	Construction Waste and Excavated Materials									
WMP EM&A: E3	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?									
WMP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?									
WMP	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?		/							
WMP	Are the used formworks reused as far as possible before being disposed of in a landfill site?	1								
WMP =	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	/								
EM&A: E3	Are wastes disposed of at licensed sites?									
	General refuse									
WMP	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?			1						
WMP	Is general refuse stored within receptacles and separated from chemical wastes?									
WMP	Is the refuse disposed of regularly and properly?		1	,						
WMP	Are burning of refuse at site and dumping at sea prohibited?									
	Chemical Waste									
EM&A: E3	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?									

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Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
WDO	Has the Contractor been registered as a chemical waste producer?					
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?					
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?					
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?					
. ,,,,,,,	Storage, collection and transportation of waste					
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?					
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?					
	(1) public fill materials for on-site reuse, or disposal at public filling area;	1				
	(2) reusable / recyclable materials;					
	(3) un-reusable / non-recyclable waste for landfill disposal.					A-1-1-1
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?					

WATER QUALITY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off		,	L-,	L	
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	1				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	/				
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?	/				
PN1/94	Are open stockpiles of construction materials (e,g, aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?					
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	1				
	Groundwater					
PN1/94	Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?					

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Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Boring and Drilling Water	-				
PN1/94	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?					
	Wheel Washing Water					
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?		٠.			

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	V	/			
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?		1			
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	1				

NOISE

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: C1	Are working programmes schedu	uled to minimize noise nuisance?			}		
EM&A: C1	Are construction works or equiponuisance?	ment sited to minimize noise		0			
EM&A: C1	Are all plant and equipment main conditions?	ntained in good operating		/			
EM&A: C1/GP	Is idle equipment turned off or the	rottled down?		7			1944
EM&A: C1	Are methods of working devised nuisance?	and arranged to minimize noise		V			
EM&A: C1)	Are construction works carried o nuisance?	ut in a manner to minimize noise		/			
EM&A: C2	To mitigate construction noise di holidays, is either one of the folla a) Mitigation by portable noise b) Rescheduling of some power sensitive time periods?	owing measures adopted?			/		
EM&A: C3	To mitigate night time constructi equipped with silencers or muffle		/				
NCO	Are valid construction noise perminspection?	nits, if required, available for		/			1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
NCO	Are conditions of construction no relevant part(s) of the works imp			1			
NCO	Are valid noise emission labels fi held percussive breakers?	ixed at air compressors and hand			/		
_	Major noise source(s)	☐ Traffic☐ Construction activities		site	uction	activi	ties inside the
7		outside the site	<u> </u>	Others			

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Abbreviation			÷.
VEP: WMP: Cap311R: Cap311O: Cap311: PN1/94: Unk:	Varied Environmental Permit Waste Management Plan APC (Construction Dust) Regulation APC (Open Burning) Regulation Air Pollution Control Ordinance Practice Note for Professional Persons (Construction) Unknown	NCO: WDO:	EM&A Manual (Construction Phase) Noise Control Ordinance Waste Disposal Ordinance Orainage)
Remark			
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Signatures			
ET Member	Contractor's Represen	itative	IEC's Representative This site inspection was carried out in the presence of IEC's representative
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(Name in Block letters:

Chiu Chiu THE) RSO.

Chim you Ming)

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The Hongkong Electric Co. Ltd. Lamma Power Station Extension – E&M Works **Weekly Site Inspection Checklist**

Inspection	date 23_b8-2006 Time (0:30 A.m. Inspect	ed By	ET:		Ju	the state of
Site	LMX - Mech. Erection Area		Cont	racto	or.	J. Chi
Weather						
Condition	Sunny Fine Overcast Hazy	Г	Driz	zle [R	nin Storm
Temperatu	re 3.3 °C Humidity High Moderat	c	Lov	,		•.
Wind	Calm Light Breeze Strong					
GENERAL			•			
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		V	<i>'</i>		
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		/	r		
AIR QUALI	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements	<u> </u>		l	l	
Cap311R: 3	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change?	0				
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed?				-	
Cap311	Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?	0	/			
	Construction Sites	1	<u> </u>			
EM&A: A1	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?		/			Shran pi
	Stockpiling of dusty materials		/			
Cap311R: Sch 18	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?					

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Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Cement and dry pulverized fuel ash (PFA)					
Cap311R: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?					
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	/	7			
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?					
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?					
	Loading, unloading or transfer of dusty materials	<u> </u>				
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?					
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?					
	Use of vehicles					
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?		•			
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		\checkmark			cleaning provided by
	Transfer of dusty materials using a belt conveyor system					,
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?					
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?					
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	0				•
Cap311R: Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?		,			
	Concrete batching plant		***************************************	1		
EM&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?	/				
EM&A: A2	Are dusty materials, except cement and dry PFA, wetted by water spray system?	1				
EM&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?	1				
EM&A: A2	Are all the conveyor transfer points totally enclosed?	1	-			

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Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Miscellaneous					
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?		/			
Cap3110	Is open burning prohibited?		7			
Cap311	Is black smoke emission from plant/equipment avoided?					

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials					
WMP EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?					
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?	V				•
EM&A: E3	Are wastes disposed of at licensed sites?					
	Construction Waste and Excavated Materials					
WMP EM&A: E3	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?					
WMP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?					
WMP	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?	1				
WMP	Are the used formworks reused as far as possible before being disposed of in a landfill site?	/				
WMP	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	1				
EM&A: E3	Are wastes disposed of at licensed sites?					
	General refuse					
WMP	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?		ン	/		
WMP	Is general refuse stored within receptacles and separated from chemical wastes?					
WMP	Is the refuse disposed of regularly and properly?					
WMP	Are burning of refuse at site and dumping at sea prohibited?		/			
	Chemical Waste					
EM&A: E3	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?					

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Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
WDO	Has the Contractor been registered as a chemical waste producer?		1			
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?		1			
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?		/		-	-
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?					
	Storage, collection and transportation of waste			L		
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?				4,000,000	
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?					
	(1) public fill materials for on-site reuse, or disposal at public filling area;	/				
	(2) reusable / recyclable materials;	/			-	,
	(3) un-reusable / non-recyclable waste for landfill disposal.		/			
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?					

WATER QUALITY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off					
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	1	1			
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent crosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?					
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?	1	,			
PN1/94	Are open stockpiles of construction materials (e,g, aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?					
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	/				
	Groundwater		/			
PN1/94	ls groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?	/				

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Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Boring and Drilling Water					
PN1/94	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?	/				
	Weel Washing Water		/			
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?					

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?					
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	1				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?					

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NOISE

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: C1	Are working programmes schedu	uled to minimize noise nuisance?		1			
EM&A: CI	Are construction works or equiponuisance?	ment sited to minimize noise					
EM&A: C1	Are all plant and equipment main conditions?	ntained in good operating			/		
EM&A: C1/GP	Is idle equipment turned off or the	rottled down?		/			
EM&A: C1	Are methods of working devised nuisance?	and arranged to minimize noise			•		
EM&A: C1)	Are construction works carried on uisance?	out in a manner to minimize noise					
EM&A: C2	To mitigate construction noise during Sunday's and public holidays, is either one of the following measures adopted? a) Mitigation by portable noise barriers at noise sources or b) Rescheduling of some powered mechanical equipment to less sensitive time periods?)		
EM&A: C3	To mitigate night time constructi equipped with silencers or muffle			n			
NCO	Are valid construction noise perminspection?			/			
NCO	Are conditions of construction no relevant part(s) of the works imp			0			
NCO	Are valid noise emission labels find held percussive breakers?						
	Major noise source(s)	□ Traffic	Ø (Constr site	uction	activi	ties inside the
	major noise source(s)	☐ Construction activities	0 (

Abbreviation VEP: Varied Environmental Permit WMP: Waste Management Plan EM&A: EM&A Manual (Construction Phase) Cap311R: APC (Construction Dust) Regulation NCO: Noise Control Ordinance Cap3111: Air Pollution Control Ordinance PN1/94: Practice Note for Professional Persons (Construction Site Drainage) Unk: Unknown Remark Signatures ET Member Contractor's Representative

(Name in Block letters:

5.0.

(Name in Block letters:

C/N 04/9012 1

Inspected By ET: YnChin

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – E&M Works Weekly Site Inspection Checklist

Time 10:30 an

31-8-2006

Inspection date

Site	CMX - Mech. Eresten Area		Com	acto	·· C	(Mu
Weather						
Condition	Sunny Fine Overcast Hazy		Driza	zle [Ra	nin Storr
Temperatu	re 33 °C Humidity High Moderat	.c	Low	i		•,
Wind	Calm Light Breeze Strong					
GENERAL	•					
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		/			
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		/			
AIR QUALI		T.,,,				
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
0.0445	General Requirements					
Cap311R: 3	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change?					
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed?		/			
Cap311	Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?	/				
	Construction Sites					
EM&A: A1	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?		/			Spray by
	Stockpiling of dusty materials					
Cap311R: Sch 18	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?					

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Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Cement and dry pulverized fuel ash (PFA)					
Cap311R: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?	0				
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	1				
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	1				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	/				
	Loading, unloading or transfer of dusty materials		• • • • • • • • • • • • • • • • • • • •			
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	1				
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	0				
	Use of vehicles	·				
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	V	/			
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?					Cleaning provided by Py
	Transfer of dusty materials using a belt conveyor system	I		1,		
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	1				
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	/				
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	/				•,
Cap311R: Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?	1				
	Concrete batching plant					
EM&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?		1			
EM&A: A2	Are dusty materials, except cement and dry PFA, wetted by water spray system?	/				
EM&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?	/				
EM&A: A2	Are all the conveyor transfer points totally enclosed?	1				

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Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Miscellaneous					
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?		1			
Cap3110	Is open burning prohibited?		1			
Сар311	Is black smoke emission from plant/equipment avoided?					

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
, , , , , , , , , , , , , , , , , , , ,	Dredged Materials					
WMP EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	/				
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?	1				
EM&A: E3	Are wastes disposed of at licensed sites?		,			
	Construction Waste and Excavated Materials					
WMP EM&A: E3	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	0				
WMP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?	/				
WMP	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?	1				
WMP	Are the used formworks reused as far as possible before being disposed of in a landfill site?					
WMP	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	/	,			
EM&A: E3	Are wastes disposed of at licensed sites?		/			
	General refuse					
WMP	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?					
WMP	Is general refuse stored within receptacles and separated from chemical wastes?		/			
WMP	Is the refuse disposed of regularly and properly?		1			
WMP	Are burning of refuse at site and dumping at sea prohibited?		\mathcal{I}			
	Chemical Waste					
EM&A: E3	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	/				

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Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
WDO	Has the Contractor been registered as a chemical waste producer?		/		· · · · · · · · · · · · · · · · · · ·	
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?					
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?		/			
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?					
	Storage, collection and transportation of waste	<u> </u>				
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?		/			
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?	Hr.				
	(1) public fill materials for on-site reuse, or disposal at public filling area;	/				
	(2) reusable / recyclable materials;	/				
	(3) un-reusable / non-recyclable waste for landfill disposal.		1			
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?					

WATER QUALITY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off	•	I	L		
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	/				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent crosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	/				
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?	1				
PN1/94	Are open stockpiles of construction materials (e,g, aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?	1				
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	0	n			
D 14 10 1	Groundwater		/			
PN1/94	Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?					

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Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Boring and Drilling Water					
PN1/94	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?					
	Weel Washing Water					
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?	/				

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	-				• • • • • • • • • • • • • • • • • • • •
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	1				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?					

NOISE

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: C1	Are working programmes schedu	uled to minimize noise nuisance?					
EM&A: C1	Are construction works or equip nuisance?	ment sited to minimize noise		/			
EM&A: C1	Are all plant and equipment main conditions?	ntained in good operating		_			
EM&A: C1/GP	Is idle equipment turned off or th	rottled down?		/			
EM&A: C1	Are methods of working devised nuisance?	and arranged to minimize noise		/			
EM&A: C1)	Are construction works carried o nuisance?	ut in a manner to minimize noise		/			
EM&A: C2	To mitigate construction noise during Sunday's and public holidays, is either one of the following measures adopted? a) Mitigation by portable noise barriers at noise sources or b) Rescheduling of some powered mechanical equipment to less sensitive time periods?			/	/		
EM&A: C3	To mitigate night time constructi equipped with silencers or muffle						
NCO	Are valid construction noise pern inspection?	nits, if required, available for		/			
NCO	Are conditions of construction no relevant part(s) of the works impl			/	İ		
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?				,		i
	Maiarrain	☐ Traffic	Construction activities inside site Others				ties inside the
	Major noise source(s)	☐ Construction activities outside the site					

Abbreviation VEP: Varied Environmental Permit WMP: Waste Management Plan EM&A: EM&A Manual (Construction Phase) Cap311R: APC (Construction Dust) Regulation NCO: Noise Control Ordinance Cap3110: APC (Open Burning) Regulation WDO: Waste Disposal Ordinance PN1/94: Practice Note for Professional Persons (Construction Site Drainage) Unk: Unknown Remark Signatures ET Member Contractor's Representative

(Name in Block letters:

TOK

(Name in Block letters:

The Hongkong Electric Co. Ltd. Lamma Power Station Extension - Site Formation, Piling Works and Superstructure Works

Weekly Site Inspection Checklist

	ion date 2 8 06 Time 10230 this	rected		i: W	<u>c Y</u>	ip, PDC
Site	LMX - Super structure		[(0	ontrac	tor: K	ingo Wond
Weathe	Г					
Conditi	on Sunny Fine Overcast Hazy		Dr	izzle		Rain S
Temper	rature 2 8 °C Humidity High	crate	<u> </u>		<u> </u>	
Wind	Calm Light Breeze Stron		")W		
GENERA	AL .					
Ref.	Checklist Condition		η	, 	τ	
VEP 1.5	Has a copy of the most undate Environment ID	N/A	4 Yes	No	Unk	Remarks
	displayed at all vehicular site entrances/exits for public information?					
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?				- -	-
	- 	<u> </u>		1		
Ref.	Checklist Condition	N/A	Yes	No	Unk	
	General Requirements	L			Unk	Remarks
[aμ311R:	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change?					·
ap311R: ch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed?					
ap311	Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?					
	Construction Sites				<u> </u>	
1.6V:	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?			-		
	Stockpiling of dusty materials			_ĺ		
μ311R; +18	Are stockpiles of disty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wer to prevent dust emission?			- [
!	7		•			1

Ret.	Checklist Condition	NIA	Yes	No	Unk	Remarks
	Cement and dry pulverized fuct ash (PFA)					
Cap314R; Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?	V				
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	V			_	-
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	V				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	V				
	Loading, unloading or transfer of dusty materials			•		
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	V				
EM&A:	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	V				
	Use of vehicles					
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	V				
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		/			
·	Transfer of dusty materials using a belt conveyor system	1	<u> </u>	<u></u>	L	L
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	V			-	
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	V				
Cap311R; Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	V				
Cap311R; Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?	V				
	Concrete batching plant	·	ı	.	' <u> </u>	·
EMI&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?	V				
ENI&A: A2	Are dusty materials, except cement and dry PFA, wetted by water spray system?	V				
ENI&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?	V				
	1	I	İ	1 3	i	i

-	N/A Yes No Unk Remarks
Ha	Checklist Condition
	Aliscellaneous Are completed earthworks scaled and hydroseeded and planted as
Catt UR:	Are completed earningsoon as possible?
1 Cap3110	Leaving prohibited?
Cap311	Is open building p

TE/CH	EMI	CAL	WAS	TE M	ANA								N	A	Yes	No		Unk	R	emar	rks 	-
	Che	ecklis	Con	lition															1-			-
	Dr	edged	Mate	rials priate (ontrac	lor p	ossess	valio	d dum	ping	perm	its for	T	_	l		1					_
лр 1&А: ЕЗ	dr	edged	mann	Cilias									_ }	_	-	+			1			
MP 4&A: E3	1 50	cords	/ticker	ctor ke					ailabl	e for	inspe		+		-	+			1			\exists
M&A: E3	A	Are wa	stes d	sposed	of at l	icens	CO 2111															
VMP CM&A: E	,	Does	the Co	n Was ntracto waste	and ex	(cavat	ed ma	ateria	is and	mal		nse for vailabl	ė	V			-	+				
WMP		Has t	he Co	ntracto n waste	ction)	}						em n-site		1	-			+		-		
WMP				concre on/fillin										+		V	7			+		
WMP		Are	the u posed	of in a	nwork landfil 	is reus	? Ie exc	avate	ed mat	ierial	ls disp	osed o	fal	-		-				+		
VMP		l th	ո ույել	ic Illian	5 4										V	-						
EM&	l: E3	l l		ies dis										1				Τ_	Τ-	1		
			Cenera Has the and ma	Contrade it a	e actor r vailabl	nainta e for	ined :	a disp ction	posal ?	rccoi	rd for	genera	l refi		\ \		ノーレ		+			
-WNI	·	i 1	1	eral ref	102:										-		\ \	1	<u>-</u> }			
IVA	īP		Is the	reluse	of ref	use at	site a	and d	umpir	ายูลเ	sca po	ohibit	cd?			1	V	!_	\		1	
I NV				ical \	Vaste			_					iis fr	om sal								
E.	180	Λ:	the	the correlevan	i anthe Waste	ority. 1 (Ge	if requ actal	ured. Regu	ianor	vi!							Ì		! .		_1.	<u> </u>

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
77.DO	Has the Contractor been registered as a chemical waste producer?	/				
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?	\checkmark		1 1 :		
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waster?					
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	V				
	Storage, collection and transportation of waste		<u>,</u>	<u>, </u>		
EM&A:	Are wastes transported by enclosed containers or covered trucks?	$\sqrt{}$				
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?					
	(1) public fill materials for on-site reuse, or disposal at public filling area;					
	(2) reusable / recyclable materials;	/				
	(3) un-reusable / non-recyclable waste for landfill disposal.	V				
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?	V				

WATER QUALITY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off			, -	1	
PN 1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	√				
PN 1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	/				
PN 1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?	1				
PN 1794	Are open stockpiles of construction materials (e.g., aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?	V				
PN 1794	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	V				
PN1/94	Groundwater Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?	1				

Ref	Checklist Candition	NIA	Yes	No	Unk	Remarks
- ·	Boring and Drilling Water					
1.81/81	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?					
	Wheel Washing Water					
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?		/			

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: GI	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	\				
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and installation of Silt Curtain"?	\checkmark				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?					

NOISE

Ref	Checklist Condition		N/A	Yes	Νn	Unk	Remarks
EM&A:	Are working programmes sched	duled to minimize noise misance?		V			-
EM&A: CI	Are construction works or equipouisance?	oment sited to minimize noise		\checkmark			
EM&A: CI	Are all plant and equipment ma conditions?	intained in good operating		\checkmark			
EM&A: CI/GP	Is idle equipment turned off or t	throttled down?		√			
EM&A: CI	Are methods of working devised nuisance?	d and arranged to minimize noise		V			
EM&A: CI)	Are construction works carried nuisance?	out in a manner to minimize noise		\checkmark			
EM&A: C2				√	-		
EM&A: C3	To mitigate night time construc equipped with silencers or muff	tion noise, is dredging equipment lers?	/				
NCO	Are valid construction noise per inspection?	mits, if required, available for		V			
NCO	Are conditions of construction a relevant part(s) of the works im			1			
NCO	Are valid noise emission labels held percussive breakers?	fixed at air compressors and hand		/			
	Major noise source(s)	Construction activities		Consti site Other		n activ	ities inside the

Abbreviation

VEP:

Varied Environmental Permit

WAR

Waste Management Plan APC (Construction Dust) Regulation EM&A: EM&A Manual (Construction Phase)

Cap3EIR: Cap314O.

APC (Open Burning) Regulation

NCO:

Noise Control Ordinance

Cap311; PN1/94;

Air Pollution Control Ordinance

WDO:

Waste Disposal Ordinance

Unk:

Practice Note for Professional Persons (Construction Site Drainage)

Unknown

Remark

Signatures

ET Member

Contractor's Representative

(Name in Blow Eteryip Resident Engineer

(Name in Block letters:

NONG HO HONG)

11th November 2002

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2012 PACHANIA DIBAR RESIDENCE CONTRA

The Hongkong Electric Co. Ltd. Lamma Power Station Extension - Site Formation, Piling Works and Superstructure Works Weekly Site Inspection Checklist

• • •	cert's one turbection	Checklist	
9/8/06	10:40	Inspected By ET WC Yip, PDC	
LMX - SIND	exstruction	Contractor Ringo Vany	f

5.114	LMX - Superstructure		Со	ntraci	or R	igo Wong	, ρ
Weather					<u> </u>		
Wind	ture Calm Light Breeze Strong	ate [∑Dri Lo		R	ain St	ΟΓΙ ΙΙ
ENERAI							
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks	7
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		√			Kemat K2	
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?						-

AIR QUALITY

Service Commission

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements	<u></u>	L	1		
Cap311R:	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the hotice, do the contractors notify EPD of the change?					
Cap314R: Seh 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed?		√			
`ap314	Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?	1				<u>-</u>
	Construction Sites				<u>_</u>]_	
M&A :	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?				··	
99311R: 448	Stockpiling of dusty materials Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and J sides or sprayed with water to maintain the constant of the prevent dust consistent.			_ i.	. !	

4	Checklist Condition	WW	Yes	No	Unk	Remarks
	Competence and any pulserized fuel ash (PFA)			11		
(031 (R) (1563)	A rest the storage sites for economic or day PFA prevented from a storage	V			 	
	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the year of the system?	V	-			
Cap311R: Sch 15(2)	Is bulk coment or dry PFA stored in a closed silo fitted with a high-level alarm?	V				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	√				<u>.</u>
	Loading, unloading or transfer of dusty materials	I		1	L	
Cap311R; Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	V	,			
EM&A: Al	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	V				
	Use of vehicles	•	•		· <u> </u>	
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	V				·
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		/			
	Transfer of dusty materials using a belt conveyor system		<u> </u>	<u>. </u>	<u>!</u>	
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	V				
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	V			-	-
`ap311R; Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	V				
lap341R; ch/20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?	V	 			
	Concrete batching plant	·	·	<u> </u>	·—	L
The second second	Are the loading, unloading, handling, transfer or storage of any distry materials carried out in a totally enclosed system?					
NIX A:		1 *	l .	1 :	f	
(2 [M&A:	Are dusty materials, except cement and dry PFA, welled by water Living extension	V				

(

N/A Yes No Unk Remarks
· Joseph Condition
La Factor CS
Obsertlaneous recommittee gartingers's sealed and hydrosected and planted as
or grannetee out
i open naming prolubited'
Lample emission from plant/equipment avoices
18 black smoke smoke

LE/CHE	MICAL WASTE MANAGEMENT	N/A	Yes	No	Unk	Remarks
	Checklist Condition					
	Dredged Materials Does the appropriate contractor possess valid dumping permits for possess the appropriate contractor possess valid dumping permits for possess valid dumping permits permits dumping permits dumpin	TV				
Р %A: Е.З	dredged manne mad	T .	-	+	-	+
IP &A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?	TV	-	+	+	
&A: E3	Are wastes disposed of at licensed sites?					
	Construction Waste and Excavated Materials Construction Waste and Excavated Materials	-		$\neg \top$	_	Ì
MP M&A: E3	Does the Contractor possess a value construction waste and excavated materials and make it available construction waste and excavated materials and make it available.	le L	1		_	
	for inspection? Has the Contractor maintained disposal records for the					
VMP	construction waste			<u> </u>	-	
	Is suitable concrete waste/excavated material used for on-site	}	}	•		
VMP	reclamation/filling works? Are the used formworks reused as far as possible before bein			V	1	
WMP	disposed of in a landfill site?	of al			+-+	
WNIP	Are the remaining unsuitable excavated materials disposed of the public filling areas?		V	-		
EMI&A	E3 Are wastes disposed of at licensed sites?				l	·
	General refuse Has the Contractor maintained a disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal record for general state of the contractor maintained and disposal state of the contractor maintained and disp	il refuse		Tu	/	
' wMP			_		7	
T WNIP	15 general refuse stored within receptacles and separated for themself wastes?				+	
i isani	Is the refuse disposed of regularly and properly?	cd'?				
1.35	Chamical Waste	its from		7		
4.51	The contractor obtained the necessary to Waste U) i Shoz aj	l		\ ! !	

		1		<u> </u>		
. 1	Checkers Candition	NIV	1,02	No	Unk	Remarks
, i - i	(1) by anticion been registered as a chemical waste producer?	V				
Mille	the constructor kept all the transfers for the (asposal of the period and make them mailable for inspection?	V				
FNIA Fa	In charment waste handled according to the Code of Practice on the Packaging. Handling and Storage of Chemical Waste'?	V				
EAR&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	V				
	Storage, collection and transportation of waste					
EM & A: E3	Are wastes transported by enclosed containers or covered trucks?	V				
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?					
	(1) public fill materials for on-site reuse, or disposal at public filling area;	V				
	(2) reusable / recyclable materials;					
	(3) un-reusable / non-recyclable waste for landfill disposal.	1/				
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?	V				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off					
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	/				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out munediately after the final surfaces are formed to prevent crosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	~				
PN1694	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?					
PNIME	Are open stockpiles of construction materials (e.g., aggregates, cand and fill material) on site covered with tarpaulin or similar tabust pating rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?	1				
#NE #	Are manuoles (including newly constructed ones) adequately covered and temporarily scaled so as to prevent silt, construction materials or deoris from getting into the drainage system, and to prevent storm inn-off from getting into foul sewers?	V				
prot of	taroundwater 's aroundwater that pumped out of wells discharged into storm arous, arer the removal of silt in silt removal facilities?	V	!			

· · · ·	bęvkiis: Conditur	NIA	Yes	Nn	Unk	Remarks
	Baring and Drilling Water					
* * .	severier man used in ground boring and drifting for site increasingment or rock/soil anchoring recirculated as for as so so so their redimentation. If there is a need for final increasily is the wastesvaler discharged into storm drains via site removal facilities?					
	Wheel Washing Water					
(N17):	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into sterm grains?		~			

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	V	-			
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	~				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	V				_

i-vf	Checklist Condition		גאא	Yes	Nn	Unk	Remarks
ÉM&A : CI	Are working programmes schedul	ed to minimize noise nuisance?		V			
EM&A: C1	Are construction works or equipm nuisance?	ient sited to minimize noise		V			
EM&A: CI	Are all plant and equipment mainle conditions?	lained in good operating		V			
EM&A: CI/GP	Is idle equipment turned off or the	ottled down?		\checkmark			
EM&A: C1	Are methods of working devised nuisance?	and arranged to minimize noise		V			
EM&A: C1)	Are construction works carried or nuisance? ,	it in a manner to minimize noise		V			
EM&A: C2	To mitigate construction noise du holidays, is either one of the follo a) Mitigation by portable noise b) Rescheduling of some power sensitive time periods?	wing measures adopted?		V			
EM&A: C3	To mitigate night time construction coupped with silencers or muffle		V				
NCO	Are valid construction noise perminspection?	nits, if required, available for		V			
NCO	Are conditions of construction no relevant part(s) of the works impl			V			
NCO	Are valid noise emission labels fi held percussive breakers?	xed at air compressors and hand		V	1		
		☐ Traffic	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Const site	tructio	n acti	vities inside the
	Major noise source(s)	Construction activities outside the site		Other	rs		

Cape **6** of **7**

Abbreviation

VEPt

Varied Environmental Permit

TAME

Waste Management Plan

EM&A: EM&A Manual (Construction Phase)

Cap311R:

APC (Construction Dust) Regulation APC (Open Burning) Regulation

NCO: WDO: Noise Control Ordinance Waste Disposal Ordinance

Cap314O. Cap311; PN1/94;

Air Pollution Control Ordinance

Practice Note for Professional Persons (Construction Site Drainage)

Unknown

Remark

Unk:

Signatures

ET Member

Contractor's Representative

(Name in Blow Eteryip Resident Engineer

(Name in Block letters:

NONG HO HONG)

11th November 2002

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The Hongkong Electric Co. Ltd. Lamma Power Station Extension - Site Formation, Piling Works and Superstructure Works Weekly Site Inspection Checklist

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Sile	LMX-Superstructure		[Ontra	actor:	Ringe W
Weathe	r					
Conditi	on Sunny Fine Overcast Hazy			nizzlo	· [-	Rain [
Temper	ature[29]°C Humidity High	erate		.ow	L]
Wind	Calm Light Breeze Stron		L '	.ow		
GENERA	L					
Reſ.	Checklist Condition		-			
VEP 1.5	Has a copy of the most update Environmental Permit been	N/A	Ye:	s N	o Un	k Remarks
	displayed at all vehicular site entrances/exits for public information?					1
VEP 1,6			1			
AEL 1.0	Is a copy of EIA report kept in Engineers' and Control				- F	
	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?			/	 	
R QUAL			\/			
	.ITY Checklist Condition	N/A	Yes	No	Unk	Remarks
ef.	Checklist Condition General Requirements Has the contractors notified EPD of the second		Yes	No	Unk	Remarks
ap311R:	.ITY Checklist Condition		Yes	No	Unk	Remarks
ef. ap311R:	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? More		Yes	No	Unk	Remarks
ap311R: ap311R: ap311R: b 12(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this		Yes	No	Unk	Remarks
ap311R: ap311R: ap311R: b 12(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete hatching clean when		Yes	No	Unk	Remarks
ef. ap311R: ap311R: b 12(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?		Yes	No	Unk	Remarks
IR QUAL Ref. ap311R: ap311R: b 12(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection? Construction Sites Are haul roads paved with concrete or sprayed with research.		Yes	No	Unk	Remarks

Rel.	Checklist Condition .	N\Y	Yes	No	Unk	Remarks
	Cement and dry pulverized fuel ash (PFA)			-		···
CapMTR: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?	\checkmark		ļ Ļ.—		
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	\checkmark				
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	\checkmark				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?					
	Loading, unloading or transfer of dusty materials					·
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	\bigvee				
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?				:	
	Use of vehicles					
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	\checkmark				
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?					
	Transfer of dusty materials using a belt conveyor system					
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	V		-		
Cap311R: Sch 20(2)	is every transfer point between any two-belt conveyors totally enclosed?	V				
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	\/				
Cap311R: Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 in?	V				
	Concrete batching plant				_,	
EM&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?					
ENI&A: A2	Are dusty materials, except cement and dry PFA, wetted by water spray system?					
EM&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?	V				
EM&A:	Are all the conveyor transfer points totally enclosed?	17		-1	Ī	

N/A Yes No Unk Rema	rks
Re Checklist Condition Miscellaneous CarNTR: Are completed earthworks sealed and hydroseeded and planted as	
Son 16 Soon as possible?	
Cip3110 Is open burning pro-	

ASTE/CHE	MICAL WASTE MANAGEMENT	N/A	Yes	No	Unk	Remarks	
Ref	Checklist Condition		·				
	Dredged Materials Does the appropriate contractor possess valid dumping permits for the appropriate contractor possess valid dumping permits for the appropriate contractor possess valid dumping permits for the appropriate mud and have them available for inspection?	7			i		
YMP EM&A: E3	dredged martine	1 /		-	 		
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection. Are wastes disposed of at licensed sites?	1		1			
EM&A: EJ							
WMP EM&A: E	for inspection.	r le	1		_		
WMP	available for inspection?	_	+	/	+		-
VMP	Is suitable contents reclamation/filling works? Are the used formworks reused as far as possible before being a landfill site?	g			1		
WMP	Are the used tomworks disposed of in a landfill site? Are the remaining unsuitable excavated materials disposed of the remaining areas?	ofat			1		
WMIP	the public titing and disposed of at licensed sites?		V				
ENI&/	·	d refuse	<u> </u>	T	7		
WAIF	General refuse Has the Contractor maintained a disposal record for general and made it available for inspection? Is general refuse stored within receptacles and separated in the stores?	ram			/		
WAI	chemical wastes			- -	7		
IVA.	P Is the refuse disposed of regular and dumping at sea prohibite. Are burning of refuse at site and dumping at sea prohibite.	<u>ed?</u>	l				
WA EN	Chemical Waste Use the contractor obtained the accessary disposal periods the according to Waste I	ire Immil	Ti				
\ F	the relevant authority. If required the relevant authority. If required (Chemical Waste) (General Regulation)?		. ا.)			

Ref	Checklist Condition	N/A	Yes	Νn	Unk	Remarks
WDO	Has the Contractor been registered as a chemical waste producer?		·			
EMRA: F3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?	V				
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	V				
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	/				
	Storage, collection and transportation of waste	·			· 	
EM&Λ: E3	Are wastes transported by enclosed containers or covered trucks?	V				
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?					
	(1) public fill materials for on-site reuse, or disposal at public filling area;	V				
	(2) reusable / recyclable materials;					
	(3) un-reusable / non-recyclable waste for landfill disposal.	1				
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off					
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	V				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	V				
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?					
PN1/94	Are open stockpiles of construction materials (e.g., aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?	~				
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	V				
PN1/94	Groundwater Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?	V				

l Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
:	Boring and Drilling Water	1				
BZ101	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storin drains via silt removal facilities?					
	Wheel Washing Water	1				
16/11/Jul	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?		/			

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: GI	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	V				
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	~				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	V				

NOISE

: 4

7

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks		
EM&A:	Are working programmes schedu	iled to minimize noise nuisance?		V					
EM&A:	Are construction works or equipt nuisance?	ment sited to minimize noise		V	,				
EM&A:	Are all plant and equipment mair conditions?	ntained in good operating		V					
EM&A: CI/GP	Is idle equipment turned off or th	rottled down?		V					
EM&A: CI	Are methods of working devised nuisance?		V						
EM&A: CI)	Are construction works carried o nuisance?		V			<u> </u>			
EM&A: C2	To mitigate construction noise the holidays, is either one of the followard Mitigation by portable noise by Rescheduling of some power sensitive time periods?		V						
EM&A: C3	To mitigate night time constructi equipped with silencers or muffle		V						
NCO	Are valid construction noise pen inspection?	nits, if required, available for		√					
NCO	Are conditions of construction no relevant part(s) of the works imp			V					
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?								
	☐ Traffic			Construction activities inside the					
	Major noise source(s) Construction activities outside the site				s				

Abbreviation

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٠	L	٠.		•

Varied Unvironmental Permit

WAR

Waste Management Plan

EM&A: EM&A Manual (Construction Phase)

Cap341R:

APC (Construction Dust) Regulation APC (Open Burning) Regulation

NCO:

Noise Control Ordinance

Cap311O. Cap311:

Air Pollution Control Ordinance

WDO:

Waste Disposal Ordinance

PN1794; Unk:

Practice Note for Professional Persons (Construction Site Drainage)

Unknown

Remark

Signatures

ET Member

Contractor's Representative

(Name in Blow Gler Vip Resident Engineer (Name in Block letters:

NONG HO HONG)

11th November 2002

 \mathbb{R}^{n+1} . LACE TABLE 1 in $X_{\mathcal{F}}$ by Checkber (1911), $\gamma_{\mathcal{F}}$ ($\gamma_{\mathcal{F}}$

Page 7 of 7

The Hongkong Electric Co. Ltd. Lamma Power Station Extension - Site Formation, Piling Works and Superstructure Works

Weekly Site Inspection Checklist

5° . (.		celed {	3y 15 C	ontra	<u>C Y</u> 7	p, PD(Ringo Wo
Sile	1MX-Superstructure					King o Wo
Weathe	г					<u> </u>
Conditi	on Sunny Finc Overcast Hazy	ſ		واحجام	:]
Temper	ature of Humidity High Moder			.ow	· L	Rain
Wind	Calm Light Breeze Strong	L.	`	.ow		
ENERA	L					
Ref.	Checklist Condition	N/A	T.,	J.,	Τ.	 -
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?	INIA	Yes	N	O Un	k Remark
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?	ļ	V			
	on site:	ı	1 .			
R QUAL	JTY		V	<u></u>		
R QUAL	JTY Checklist Condition	N/A				
ef.		N/A	Yes	No	Unk	Remarks
ef.	Checklist Condition	N/A	Yes	No	Unk	Remarks
ef. np311R:	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? I felt which is	N/A	Yes	No	Unk	Remarks
p311R: p311R: + 12(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this	N/A	Yes	No	Unk	Remarks
p311R: p311R: +12(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?	N/A	Yes	No	Unk	Remarks
p311R: p311R: +12(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?	N/A	Yes	No	Unk	Remarks
ef. ap311R: ap311R: h 12(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection? Construction Sites Are haul roads paved with concrete or sprayed with	N/A	Yes	No	Unk	Remarks

H	Checkbst Londition	NIA	Yes	Na	Unk	Remarks
	Composition of the person of the set (PFA)		·	<u> </u>		<u> </u>
	Very the storage siles for coment or dry PFA prevented from	V				
5 (m314R) Sch 45(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	V				
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	V				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	V			 -	
	Loading, unloading or transfer of dusty materials			L,		
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	V				
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	V				
	Use of vehicles					
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	✓				
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		/			
	Transfer of dusty materials using a belt conveyor system			ĻЩ.	1	
Cap311R; Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	V				
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	V	 .			
Tap314R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	\checkmark	<u>-</u>			_
ap311R: ch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?	V				
151 - 3	Concrete batching plant	····	!			
M&A	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?	V				
M& A: 7 }	Are dusty materials, except cement and dry PFA, wetted by water spears system?	V				
Nid Vi	Are addition receiving hoppers enclosed on three (3)sides up to 3m photon indicating point!	V	- :			
years .	New John Control Conster points totally enclosed?	V				
-	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s				:	

			NIA	Yes Nu Unk	Remarks
	Packlist Canditian				
. P	Miscellanemis	gared and hydroseeded	and planted as	<u> </u>	
	Surrent prohibited			14.1-	
[ap 11]	ls black smoke emission fi	om plant/equipment ave	oided.;	1/1	
					

EICHE	MICAL WASTE MANAGEMENT	N/A	Yes	N	o Un	ık	Remarks
	Checklist Condition						
	Dredged Materials Does the appropriate contractor possess valid dumping permits mud and have them available for inspection?	for	<u> </u>	1			
Α: E3	dredged marine made		-	-+			
P & A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection	on? V	+				
& A: E3	Are wastes disposed of at licensed sites?		l				
	Construction Waste and Excavated Materials Construction Waste and Excavated Public Dumping License	for			\top		
4P 1&A: E3	Does the Contractor possess a value of t	lable (
i&A Εν	for inspection:		1				
MP		· \				1	
	available for inspection? Is suitable concrete waste/excavated material used for on-s			~			
AMP				V	1	+	
VMP	Are the used formworks reused as far as possible before be disposed of in a landfill site?	d of at		+	+	+	
WMP -	Are the remaining unsuitable excavated materials dispose the public filling areas?		1	+		-	
ENIKA	E3 Are wastes disposed of at licensed sites?		1~_		لـ		
i	General refuse	ieral refuse				· ·	
. 27 AB	Has the Contractor mathematical and made it available for inspection?	d from					
wwi							
····ovAl	ts the refuse disposed of regularly and properly?	bited!			V		
) XM	Chamical Waste	emits fron			Ţ		
	Chemical Waste Has the contractor oblamed the necessary disposal particles and authority of required, according to Waste (Trientral Regulation).	e Disposal		V		1	

						
1 - 1	Uneckiist Condition	N/Y	1'05	Nα	Unk	Remarks
, 1.00	Has a recontractor been reepstered as a chemical waste producer?					
118	The continuous kept aid the trap nekets for the disposal of the continuous and made them available for inspection?	V		!	- 	
र्शकार हव	It chemical waste handled according to the Code of Practice on the Packaging. Handling and Storage of Chemical Waste'?	V				
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	V				
	Storage, collection and transportation of waste				•	' -
EM&Λ: E3	Are wastes transported by enclosed containers or covered trucks?	V				
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?					
	(1) public fill materials for on-site reuse, or disposal at public filling area;	V				
	(2) reusable / recyclable materials;	1/				
	(3) un-reusable / non-recyclable waste for landfill disposal.	V				
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?	V				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
*	Surface Run-off					· , , ,
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	V				
PN 179-1	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	V				
PN 1794	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into stonn drains via silt removal facilities?	/				
PN1-91	Are open stockpiles of construction materials (e.g., aggregates, sand and fill material) on site covered with tarpaulin or similar tabust turing rainstorms? Are measures taken to prevent the massing away of construction materials, soil, silt or debris into securamage system?	I/				
97 4 () (4)	eare immunies fineliating newly constructed ones) adequately covered and temporarily scaled so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	~				
254.4	Groundwater Lagrange water that pumped out of wells discharged into stoom and a partition removal of salt in salt removal facilities?	V				1

	eckis Condition	NIA	Yes	No	Unk	Remarks
	Boring and Drilling Water		i	<u></u>		
	enter that used in ground boring and drilling for site empetication or rock/soil anchoring recirculated as far as use since after recommendation? If there is a need for final fictorsal, is the wastewater discharged into storm drains via silt removal facilities?	~		} -		
f N1724	Wheel Washing Water Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?		V			

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	V				
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?					
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	V				

			T			1	 ,	
hef.	Cirecklist Condition		אא	Yes	No	Unk	Remarks	
EM&a : Ci	Are working programmes schedu	iled to minimize noise nuisance?		V				
	Are construction works or equiponulsance?	ment sited to minimize noise		V				
EM&A: C1	Are all plant and equipment mail conditions?	ntained in good operating		V				
EM&A: CI/GP	Is idle equipment turned off or th	rottled down?		V				
EM&A: CI	Are methods of working devised nuisance?		V					
EM&A: CI)	Are construction works carried out in a manner to minimize noise nuisance?							
EM&A: C2	To mitigate construction noise during Sunday's and public holidays, is either one of the following measures adopted? a) Mitigation by portable noise barriers at noise sources or b) Rescheduling of some powered mechanical equipment to less sensitive time periods?							
EM&A: C3	To mitigate night time construct equipped with silencers or muffl	ion noise, is dredging equipment ers?	V					
NCO	Are valid construction noise per inspection?	mits, if required, available for		V				
NCO	Are conditions of construction n relevant part(s) of the works imp		~					
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?							
	Major noise source(s)	☐ Traffic	Ū∕	Const site	ructio	n activ	villes inside the	
	,	Others						

631514

Abbreviation

 $V \{ P \}$

Varied Environmental Permit

SAME Cap3HR: Waste Minnagement Plan-

Cap3110

APC (Construction Dust) Regulation APC (Open Burning) Regulation

Cap311:

Air Pollution Control Ordinance

PN1/94: Unk:

Practice Note for Professional Persons (Construction Site Drainage)

FM&A: EM&A Manual (Construction Phase)

Noise Control Ordinance

Waste Disposal Ordinance

NCO:

MDO:

Unknown

Remark

Signatures ET Member

Contractor's Representative

(Name in Blow Steryip Resident Engineer

(Name in Block letters:

11th November 2002

The Hongkong Electric Co. Ltd. Lamma Power Station Extension - Site Formation, Piling Works and Superstructure Works

Weekly Site Inspection Checklist

o ific	30/8/06 ins 10:30 inst		C	ontra	ictor:	P. P.D.
	2MX - Superstructure					THE W
Weathe:					<u> </u>	
Condition	Sonny Fine Overcast Hazy			nizzle	: [Rain
Temper	ature 🗷 🖰 °C Humidity 📿 High 🦳 Mode	l			<u>ا</u>	
Wind	Calm Light Breeze Stron	ı	\	.0W		
ENERA	I.			···		
Ref.	Checklist Condition	N/A	7,	Т.		
EP 1.5	Has a copy of the most update Environmental Permit been	N/A	Yes	s Ne	Unl	Remark
	displayed at all vehicular site entrances/exits for public information?		Ι,			
EP 1.6	Is a conv of EIA coord		V			
	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		+-			
	,	1	1. /		1 .	
R QUAL	JTY		V	<u> </u>		
	.ITY Checklist Condition					
-	Checklist Condition	N/A	Yes	No	Unk	Remarks
ef.	Checklist Condition General Requirements Has the contractors notified EPD of the second sec		Yes	No	Unk	Remarks
f.	Checklist Condition		Yes	No	Unk	Remarks
p311R;	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed at jet shall not be used for election.		Yes	No	Unk	Remarks
p311R; p311R; p311R; p312(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed?		Yes	No	Unk	
p311R; p311R; p311R; p312(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other nativities.		Yes	No	Unk	
p311R; p311R; p311R; p312(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the contract hatching effects to		Yes	No	Unk	
p311R: p311R: p311R: p311R: p311	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?		Yes	No	Unk	
p311R: p311R: (12(3)	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection? Construction Sites Are haul roads paved with concrete or sprayed with water to keep the entire road wet?		Yes	No	Unk	
HIR T	Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection? Construction Sites Are haul roads payed with concrete as sprayed with		Yes	No	Unk	

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	Comklist Candiline	NIV	Yes	Nα	Unk	Remarks
	Concept and any polyenized lack (PFA)	ł	i	L		<u> </u>
(93FIR)	. Are the storage allow for coment or dry PFA prevented from	· · ·	ļ			
1. 1573)	rkting	V.				
Cap3HR:	Are the handlings of coment or dry PFA through a totally enclosed			-		
Sch 15(4)	system equipped with air pollution control equipment at the vent	V				
· · · · · · · · · · · · · · · · · · ·						
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	V				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	V		-		
	Loading, unloading or transfer of dusty materials	d		ليسبا		
Cap311R:	Are dusty materials, except cement and dry PFA, sprayed with					
Sch 19	water immediately prior to any loading, unloading or transfer operation?	V				
ЕМ&Л:	Are the dropping heights of the fill materials controlled to a	1				
A1	practical level to minimize fugitive dust emission?	V				
	Use of vehicles			لــــا		
Cap311R:	ls every load of dusty material on the vehicles leaving the					
Sch 21(2) EM&A:	construction site covered entirely by clean impervious sheeting?	1				
AI		.				
Cap311R: Sch 21(I)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		✓			
	Transfer of dusty materials using a belt conveyor system	<u> </u>		لـــا		
Cap311R:	Are belt conveyors used for transfer of dusty materials covered on					
Sch 20(1)	the top and 2 sides?	$ \sqrt{ }$				
				. 1		
	is every transfer point between any two-belt conveyors totally					
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	V				, 44
Sch 20(2) Cap311R:	enclosed? Is a belt scraper or equivalent device installed at the head pulley of	V				
Sch 20(2) Cap311R:	enclosed? Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates	V				
Sch 20(2) Cap311R:	enclosed? Is a belt scraper or equivalent device installed at the head pulley of	✓				
Sch 20(2)	enclosed? Is a belt scraper or equivalent device installed at the head pulley of every conveyor?—Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	✓				
ap314R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return	✓				
Sch 20(2) Cap311R: Sch 20(3) Cap311R:	enclosed? Is a belt scraper or equivalent device installed at the head pulley of every conveyor?—Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts? Are stockpiling conveyors equipped with level adjusting					
ap311R: Sch 20(3) ap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts? Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m? Concrete hatching plant Are the loading, unloading, handling, transfer or storage of any	✓				
ap311R: Sch 20(3) ap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts? Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m? Concrete hatching plant	V V				
(ap314R; Sch 20(3) (ap314R; ch 20(4) (b) 20(4)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts? Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m? Concrete hatching plant Are the loading, unloading, handling, transfer or storage of any	V V V				
Sch 20(2) [ap314R: Sch 20(3) [ap314R:	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts? Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m? Concrete hatching plant Are the leading, unloading, handling, transfer or storage of any down materials carried out in a totally enclosed system?	V V V V				
ap314R: Sch 20(3) ap314R: ch 20(4) ALWA:	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts? Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m? Concrete hatching plant And the loading, unloading, handling, transfer or storage of any draw materials carried out in a totally enclosed system? Are dusty materials, except cement and dry PFA, wetted by water a, say system?	V V V V				
(ap314R; Sch 20(3) (ap314R; ch 20(4) (Ap314R; ch 20(4)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts? Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m? Concrete hatching plant Are the leading, unloading, handling, transfer or storage of any draw materials carried out in a totally enclosed system? Are dusty materials, except cement and dry PFA, wetted by water	V V V V V				

	· · · · · · · · · · · · · · · · · · ·	N/A Yes Nu Unk Remarks
	Lycklist Condition	
:'	Hiscottaneous The committee partitions a squard and hydroscoded and planted	as V
	annun prohibued?	
i_{npni}	-mission from plantequipment	

EICHE	MICAL WASTE MANAGEMENT	NIA	1	Yes	No	Unk	Remarks
	Checklist Condition		سلي				
	Dredged Materials Does the appropriate contractor possess valid dumping permanent and have them available for inspection	its for V					
kA: E3	dredged marine mod			 	+-	+	
Р &A: ЕЗ	records/ticketting system			-	+		
&A: E3	Are wastes disposed of at licensed sites?						
ИР 1&А: ЕЗ		nse for vailable	✓ ✓			-	
MP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made the available for inspection?	n-site	V	-			
YMP	ls suitable concrete waste/excavated material used for o reclamation/filling works? Are the used formworks reused as far as possible before the used formworks reused as far as possible before the used formworks reused as far as possible before the used formworks reused as far as possible before the used formworks reused as far as possible before the used formworks reused as far as possible before the used for the used formworks reused as far as possible before the used for the use		-	_	$\frac{}{}$	-	
VMP	Are the used formworks reused as to disposed of in a landfill site? Are the remaining unsuitable excavated materials disposed of the remaining unsuitable excavated materials disposed to the control of	osed of al	+	_	<u> </u>	+-1	
WMP	the public itting a.v.		-	, /			
ENTEA	Are wastes disposed of at licensed sites?						
o Novar	General refuse	פֿנעכנשן נפנחה	sc		V	1	
to ME	Regeneral refuse stored within receptacles and sepa					1	
VVI	Is the refuse disposed of regularly and properly? Are burning of refuse at site and dumping at sea pr	rohibited?		<u></u>			
. N. M	Chemical Waste	Sarmine fro		- [
	Chemical Waste that the contractor obtained the necessary disposations of the contractor obtained the necessary disposation of the contractor of the necessary disposation of the contractor of the necessary disposation	asic Dishoe	ıl	1		\ ! 	

F 2 1	Cher-ext Condition	אא	1.62	No	Unk	Remarks
, t	The regression free registered as a chemical waste producer?	V				
1.1371	The contractor kept all the ten tickets for the disposal of the engineer make them at adultic for inspection?	V		<u> </u>		
РМЗ Р4	Decimination waste handled accurding to the Code of Practice on the Packaging, Handling and Storage of Chemical Waster?	V				
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	1				
	Storage, collection and transportation of waste	٠			·	<u> </u>
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?	V				
EM&л: ЕЗ	Are waste materials segregated and sorted into 3 categories as follows?					
	(1) public fill materials for on-site reuse, or disposal at public filling area;	V	-			
	(2) reusable / recyclable materials;					
	(3) un-reusable / non-recyclable waste for landfill disposal.	V				-
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off					<u> </u>
PN 179-4	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	V_				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent crossion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	~				
PN194	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into stonn drains via silt removal facilities?					
2004/094	Are open stockpiles of construction materials (e.g., aggregates, sand and fill material) on site covered with tarpaulin or similar faoric forming rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debus into the training away of construction materials, soil.					
31.41 A.	even manifeles fineluding newly constructed ones) adequately overest and temporarily scaled so as to prevent sill, construction materials or debris from petting into the drainage system, and to prevent sterm runs off from getting into foul sewers?	V				
nest in	Groundwater 's groundwater tool pumped out of wells discharged into storm groups after the removal of silt in silt removal facilities?	V	-	-		

	Neckits: Condition	NIA	Yes	Nn	Unk	Remarks
	Soring and Drilling Water	1	i			
· .	caper that used in ground boring and driffing for site inconstigation or speck/soil anchoring recirculated as far as so since after redimentation. If there is a need for final disposal, is the wastesvaler discharged into storm drains via silicenoval facilities?					
	Wheel Washing Water	ī				
PN100;	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into sterm drains?		~			

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	V		-		•
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?					
EM&A: G3	Is rubble mound scawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	V				

N/A Yes Unk Remarks is of Checklist Condition Are working programmes scheduled to minimize noise musance? EM&A: V EM&A: Are construction works or equipment sited to minimize noise (| EM&A: Are all plant and equipment maintained in good operating CIEM&ለ: Is idle equipment turned off or throttled down? CI/GP EM&A: Are methods of working devised and arranged to minimize noise C1 EM&A: Are construction works carried out in a manner to minimize noise C1) nuisance? EM&A: To mitigate construction noise during Sunday's and public holidays, is either one of the following measures adopted? C2a) Mitigation by portable noise barriers at noise sources or b) Rescheduling of some powered mechanical equipment to less sensitive time periods? To mitigate night time construction noise, is dredging equipment EM&A: C3equipped with silencers or mufflers? NCO Are valid construction noise permits, if required, available for inspection? Are conditions of construction noise permits, if any, for the NCO relevant part(s) of the works implemented accordingly? NCO Are valid noise emission labels fixed at air compressors and hand held percussive breakers? Construction activities inside the Traffic site Major noise source(s) Others _ Construction activities outside the site

- Japa **6** - 17

Abbreviation

VEP:

Varied Environmental Permit

SMP Cap311R:

Waste Minnagement Plan

APC (Construction Dust) Regulation

NCO:

FM&A: EM&A Manual (Construction Phase)

Cap3110

APC (Open Burning) Regulation

WDO:

Noise Control Ordinance Waste Disposal Ordinance

Cap311: PN1/94:

Air Pollution Control Ordinance

Practice Note for Professional Persons (Construction Site Drainage)

Unk:

Unknown

Remark

Signatures

ET Member

Contractor's Representative

(Name in Blow Cher Yip Resident Engineer

(Name in Block letters:

11th November 2002

Page For a

TO FACE AND A SHOP OF CHARLEST AND A COLOR

The Hongkong Electric Co. Ltd. Lamma Power Station Extension - E&M Works Weekly Site Inspection Checklist

Inspection	date 2406 Time 09:15/68 Inspect	ted By	ET:		T. CHI		
Site	LMX-19 Electrical Freeton Agen		Com	Hack	л. <i>үе</i>	THR CHENG/ SA.	NKO,
Weather	,						
Condition	Sunny Fine Overcast Hazy		Driz	zle	R	ain Storm	
Temperatu	re 🔐 °C Humidity ☑ High ☐ Modera	te	Lov	v			
Wind	Calm Light . Breeze Strong						
GENERAL							
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks	
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		S				
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		/				
AIR QUALI	TY Checklist Condition	NI/A	Vac	NI	TT1-	Describe	
Act.	General Requirements	N/A	Yes	No	Unk	Remarks	
Cap311R: 3	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change?	/					
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed?		/				
Cap311	Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?	1					
	Construction Sites	•		1			
EM&A: A1	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?		/			Water Spray in Faul	Y.
	Stockpiling of dusty materials					-0	
Cap311R: Sch 18	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?	/					

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Cement and dry pulverized fuel ash (PFA)					·
Cap311R: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?	V:				
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	J				
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	/				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	1				
	Loading, unloading or transfer of dusty materials	•	<u> </u>			
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	V				
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	/				
	Use of vehicles				l l	
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	~				
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		/			Wheel Wader Services Prod By Paul Y.
	Transfer of dusty materials using a belt conveyor system	•				Jan 1.
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	V				
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	/				
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	1				
Cap311R: Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?	/				
	Concrete batching plant	1	1	1		
EM&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?	V				
EM&A:	Are dusty materials, except cement and dry PFA, wetted by water spray system?	V				
A2						
A2 EM&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?	V: ,				

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Miscellaneous					
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	1				
Cap311O	Is open burning prohibited?		V			· · · · · · · · · · · · · · · · · · ·
Cap311	Is black smoke emission from plant/equipment avoided?		1		***************************************	

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials	•				
WMP EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	1				
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?	1				
EM&A: E3	Are wastes disposed of at licensed sites?	1				
	Construction Waste and Excavated Materials					
WMP EM&A: E3	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	/				
WMP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?	1				
WMP	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?	1				
WMP	Are the used formworks reused as far as possible before being disposed of in a landfill site?	J				
WMP	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	V				
EM&A: E3	Are wastes disposed of at licensed sites?					***************************************
	General refuse					
WMP	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?		V			
WMP	Is general refuse stored within receptacles and separated from chemical wastes?		V			
WMP	Is the refuse disposed of regularly and properly?		<i>y</i>			
WMP	Are burning of refuse at site and dumping at sea prohibited?	<u> </u>		L		
	Chemical Waste					
EM&A: E3	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
WDO	Has the Contractor been registered as a chemical waste producer?	1				
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?	V ;				
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	V				
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	/				
	Storage, collection and transportation of waste	4				
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?		V			
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?	1				
	(1) public fill materials for on-site reuse, or disposal at public filling area;					<u></u>
	(2) reusable / recyclable materials;					
	(3) un-reusable / non-recyclable waste for landfill disposal.					
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?	1				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off					
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	1				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	1				
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?	V				
PN1/94	Are open stockpiles of construction materials (e.g., aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?	V				
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers? Groundwater	J				
PN1/94	Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?	V				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Boring and Drilling Water					
PN1/94	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?		;			
	Wheel Washing Water					
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?	1				

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	V				
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	1				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	/				





NOISE

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: C1	Are working programmes schedu	uled to minimize noise nuisance?		<i>J</i>			
EM&A: C1	Are construction works or equipmuisance?	ment sited to minimize noise		/			
EM&A: C1	Are all plant and equipment main conditions?	ntained in good operating		1			
EM&A: C1/GP	Is idle equipment turned off or th	rottled down?		V			
EM&A: C1	Are methods of working devised nuisance?		J				
EM&A: C1)	Are construction works carried o nuisance?		V				
EM&A: C2	To mitigate construction noise de holidays, is either one of the folle a) Mitigation by portable noise b) Rescheduling of some power sensitive time periods?	owing measures adopted?	/				
EM&A: C3	To mitigate night time constructi equipped with silencers or muffle		1				
NCO	Are valid construction noise perminspection?	nits, if required, available for	1				
NCO	Are conditions of construction no relevant part(s) of the works imp		V				
NCO	Are valid noise emission labels for held percussive breakers?	1					
	Major noise source(a)	☐ Traffic	ত	Constr site	uction	ı activi	ties inside the
	Major noise source(s) Construction activities Others outside the site						



Abbreviation

VEP:

Varied Environmental Permit

WMP:

Waste Management Plan

Cap311R: Cap311O:

APC (Construction Dust) Regulation APC (Open Burning) Regulation

Cap311: PN1/94:

Air Pollution Control Ordinance

Practice Note for Professional Persons (Construction Site Drainage)

Unk: Unknown

Remark

NCO:

WDO:

EM&A: EM&A Manual (Construction Phase)

Waste Disposal Ordinance

Noise Control Ordinance

Signatures

ET Member

Contractor's Representative

T.F. CHU /PDE)

12th January 2005

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – E&M Works Weekly Site Inspection Checklist

Inspection	date Aug 2006 Time 6:50 hr Inspec	ted By		troot.	F Ch	"IU / POE
Site	LIN -19 Electrical Freeting Area		Con	uace	01: <i>PE</i>	TER CHENG
Weather						
Condition	Sunny Fine Overcast Hazy		Driz	zle	R	ain Storm
Temperati	re C Humidity High Modera	ate	Lov	W		•
Wind	Calm Light Breeze Strong					
GENERAL				•		
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		/			
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?					
AIR QUALI	TY					
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements			·		
Cap311R: 3	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change?	1				
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed?		/			-
Cap311	Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?					
	Construction Sites	[1			
EM&A : A1	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?		/			Note Spraying Provided By Pa
	Stockpiling of dusty materials	I,	 !	l,		Towns of the
Cap311R: Sch 18	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?	/				

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Cement and dry pulverized fuel ash (PFA)	•				
Cap311R: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?	1				
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	S				
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	J				
Cap311R: * Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	J				
	Loading, unloading or transfer of dusty materials	•	· .		· · ·	
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	V				
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	1				
	Use of vehicles					
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	<i>S</i> .	_		-	
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		J	·		Wheel Wash Services Pr
•	Transfer of dusty materials using a belt conveyor system					
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	/				
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	1				
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	V				
Cap311R:	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?	1				
Sch 20(4)						f
	Concrete batching plant					"
	Concrete batching plant Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?	1				
Sch 20(4) EM&A:	Are the loading, unloading, handling, transfer or storage of any	<i>J</i>				
EM&A: A2 EM&A:	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system? Are dusty materials, except cement and dry PFA, wetted by water					

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
W. Karanga	Miscellaneous		į, ti			
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	V				***
Cap3110	Is open burning prohibited?		1			
Cap311	Is black smoke emission from plant/equipment avoided?		$\sqrt{}$			·

WASTE/CF	IEMICAL WASTE MANAGEMENT		•			•
Ref	Checklist Condition	N/A	Yes	No	Unk	Rema
144	Dredged Materials		I	.1	!	<u> </u>
WMP EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	V				
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?	~				
EM&A: E3	Are wastes disposed of at licensed sites?	1				
	Construction Waste and Excavated Materials				-	
WMP EM&A: E3	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	1				
WMP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?	~.				
WMP	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?	/		,		
WMP	Are the used formworks reused as far as possible before being disposed of in a landfill site?	v				
WMP	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	1			,,	
EM&A: E3	Are wastes disposed of at licensed sites?					
· · · · · ·	General refuse	J				
WMP	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?		·			
WMP	Is general refuse stored within receptacles and separated from chemical wastes?		V			
WMP	Is the refuse disposed of regularly and properly?					·
WMP	Are burning of refuse at site and dumping at sea prohibited?		f			
	Chemical Waste					
EM&A: E3	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
WDO	Has the Contractor been registered as a chemical waste producer?	V				. 28.2
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?	V				
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	V				
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	√ v				
	Storage, collection and transportation of waste					
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?		V			
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?	1				
	(1) public fill materials for on-site reuse, or disposal at public filling area;					
	(2) reusable / recyclable materials;					
	(3) un-reusable / non-recyclable waste for landfill disposal.				9	
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?	J				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off	· · · · · · · · · · · · · · · · · · ·			·	
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	V				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	V				
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?	V				
PN1/94	Are open stockpiles of construction materials (e,g, aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?	V				
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	V				
PN1/94	Groundwater Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?	1				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
\$ 8 X 16 1 1 1 1 1	Boring and Drilling Water				,	
PNU94	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?	V				
	Wheel Washing Water					
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?	1				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	1				
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	~				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	1				

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks	
EM&A: C1	Are working programmes schedu	uled to minimize noise nuisance?		1			<u> </u>	
EM&A: C1	Are construction works or equiponuisance?	ment sited to minimize noise		V				
EM&A: CI	Are all plant and equipment main conditions?	ntained in good operating		V 2				
EM&A: C1/GP	Is idle equipment turned off or the	rottled down?		V				
EM&A: C1	Are methods of working devised nuisance?	and arranged to minimize noise	-					
EM&A: C1)	Are construction works carried o nuisance?	ruction works carried out in a manner to minimize noise te construction noise during Sunday's and public is either one of the following measures adopted?						
EM&A: C2		1						
EM&A: C3	To mitigate night time construction equipped with silencers or muffle		V					
NCO	Are valid construction noise perminspection?	nits, if required, available for	/					
NCO	Are conditions of construction no relevant part(s) of the works impl		1					
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?							
	Major pairs serves(s)	ত্র	Constr site	uction	activi	ties inside the		
	Major noise source(s)	Others						

Abbreviation

VEP:

Varied Environmental Permit

WMP:

Waste Management Plan APC (Construction Dust) Regulation

EM&A Manual (Construction Phase) EM&A:

Cap311R: Cap3110: Cap311: PN1/94:

APC (Open Burning) Regulation

Noise Control Ordinance NCO: WDO: Waste Disposal Ordinance

Air Pollution Control Ordinance

Practice Note for Professional Persons (Construction Site Drainage)

Unk:

Unknown

Remark

Signatures

ET Member

Contractor's Representative

(Name in Block letters:

12th January 2005

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – E&M Works Weekly Site Inspection Checklist

inspection	date 16 kur 300 11me 10:40 hrs Inspec	tea By	Con			MIR /PDE M.Lo /SAN
Site	LMX -19 Electrical Erection Avea				<u></u>	<u>M. Lo. / 3</u> 4N
Weather			—	· · ·		
Condition	Sunny V Fine Overcast Hazy	L_	Driz	zzle	R	ain Storm
Temperati	ure 30°C Humidity V High Modera	ite	Lo	w		
Wind	Calm Light Breeze Strong					
GENERAL						
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		V			
VEP 1.6	Is a copy of EIA report kept'in Engineers' and Contractors' offices on site?		1			
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements	1		1		
Cap311R: 3	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change?	V				
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed?		J			
Cap311	Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?		7			
•	Construction Sites			,		
EM&A: A1	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?		/		(Water Spray; y Provided By Pa
	Stockpiling of dusty materials					\mathcal{J}
Cap311R:	Are stockpiles of dusty materials entirely covered with impervious					

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Cement and dry pulverized fuel ash (PFA)	<u>l</u>	.1	1	L	
Cap311R: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?	1				
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	1				
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	/				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	1				
	Loading, unloading or transfer of dusty materials			1		
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	/				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	1				
	Use of vehicles	······································				
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	V.				
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		/			Wheel Was Services P. By Paly
	Transfer of dusty materials using a belt conveyor system					13-12-11
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?					
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?					
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	/				
Cap311R: Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?					
	Concrete batching plant	L	1,			
EM&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?	V				
EM&A: \2	Are dusty materials, except cement and dry PFA, wetted by water spray system?					
[→ ∠ .		_		
EM&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?				1	

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Miscellaneous	·····				
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	5				
Cap311O	Is open burning prohibited?		V			
Cap311	Is black smoke emission from plant/equipment avoided?		/			

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials	1		1	1	
WMP EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	1				
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?	J				
EM&A: E3	Are wastes disposed of at licensed sites?	1				
	Construction Waste and Excavated Materials	•				
WMP EM&A: E3	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	1				
WMP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?	1				
WMP	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?	1				
WMP	Are the used formworks reused as far as possible before being disposed of in a landfill site?	J				
WMP	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	/				mas
EM&A: E3	Are wastes disposed of at licensed sites?	/				
	General refuse					
WMP	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?		1			· · · · · · · · · · · · · · · · · · ·
WMP	Is general refuse stored within receptacles and separated from chemical wastes?		/			
WMP	Is the refuse disposed of regularly and properly?		1			
WMP	Are burning of refuse at site and dumping at sea prohibited?					
	Chemical Waste					
EM&A: E3	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	/				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks			
WDO	Has the Contractor been registered as a chemical waste producer?	/							
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?	1							
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	V							
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	/							
	Storage, collection and transportation of waste								
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?		J						
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?	1							
	(1) public fill materials for on-site reuse, or disposal at public filling area;								
	(2) reusable / recyclable materials;								
	(3) un-reusable / non-recyclable waste for landfill disposal.								
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?					·-· · · · · · · · · · · · · · · · · · ·			

WATER QUALITY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
10 11 10 11	Surface Run-off	<u> </u>	1	1	·	L
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	~				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	1				
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?	V				 -
PN1/94	Are open stockpiles of construction materials (e.g., aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?	1				
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	J				
PN1/94	Groundwater Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Boring and Drilling Water	<u> </u>				
PN1/94	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?	1				
	Wheel Washing Water					
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?	1				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	J				
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	V				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	/				

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: Cl	Are working programmes sched	uled to minimize noise nuisance?		J			
EM&A: CI	Are construction works or equip nuisance?	ment sited to minimize noise		1			
EM&A: Ci	Are all plant and equipment mai conditions?	ntained in good operating		1			
EM&A: C1/GP	Is idle equipment turned off or the	nrottled down?		~			
EM&A: C1	Are methods of working devised nuisance?	and arranged to minimize noise		J			
EM&A: Ci)	Are construction works carried on nuisance?	out in a manner to minimize noise		V			
EM&A: C2	To mitigate construction noise di holidays, is either one of the folia) Mitigation by portable noise b) Rescheduling of some power sensitive time periods?	J					
EM&A: C3	To mitigate night time constructi equipped with silencers or muffle		1				
NCO	Are valid construction noise perr inspection?	nits, if required, available for	1				• •
NCO	Are conditions of construction no relevant part(s) of the works imp		V				
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?						
	Major noise source(s)	☐ Traffic	i	Constr site	uction	activi	ties inside the
	major noise source(s)		Others				

Cap311R: Cap311O: Cap311: PN1/94: Unk:	APC (Construction Dust) Regulation APC (Open Burning) Regulation Air Pollution Control Ordinance Practice Note for Professional Persons (Constru Unknown	WDO: Waste	e Control Ordinance e Disposal Ordinance ge)
Remark			
•			
	•		
	·		
	•		
	-		
· · · · · · · · · · · · · · · · · · ·			
Signatures			
ET Member	Contractor's Representat	ve	IEC's Representative This site inspection was carried in the presence of IEC's representation.

(Name in Block letters:

<u>)</u> Sankod.

12th January 2005

(Name in Block letters:

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The Hongkong Electric Co. Ltd. Lamma Power Station Extension – E&M Works Weekly Site Inspection Checklist

date 3 hug 2006 Time 09:10 hrs Inspec	ted By	ET:	7	F. Cx	TOR CHONG SANK
LHX -L9 Electrical Gertion Area		Con	tract	ог: <i>Р</i> г	TOR CHONG ISANK
Sunny Fine Overcast Hazy		Driz	zzle	R	ain Storm
re 29° ℃ Humidity High Moder	ate _	Lo	w		
Calm Light . Breeze Strong					
Checklist Condition	N/A	Yes	No	Unk	Remarks
Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information?		V			
Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		1			
Checklist Condition	N/A	Yes	No	Unk	Remarks
Checklist Condition	N/A	Yes	No	Unk	Remarks
	N/A	Yes	No	Unk	Remarks
Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any		Yes	No	Unk	Remarks
Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this			No	Unk	Remarks
Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever			No	Unk	Remarks
Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection?			No		
Checklist Condition General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice, do the contractors notify EPD of the change? A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Is this observed? Do the contractors possess valid Air Pollution Control Specified Processes Licenses for the concrete batching plant wherever applicable and have it available for inspection? Construction Sites Are haul roads paved with concrete or sprayed with water to keep			No		Remarks Vater Spraying Provided By Paul Y
	Sunny Fine Overcast Hazy High Modera Calm Light Breeze Strong Checklist Condition Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information? Is a copy of EIA report kept in Engineers' and Contractors' offices on site?	Sunny Fine Overcast Hazy Tre 29 °C Humidity High Moderate Calm Light Breeze Strong Checklist Condition N/A Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information? Is a copy of EIA report kept in Engineers' and Contractors' offices	Sunny Fine Overcast Hazy Drizer Calm Light High Moderate Low Calm Light Breeze Strong Checklist Condition N/A Yes Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information? Is a copy of EIA report kept in Engineers' and Contractors' offices on site?	Sunny Fine Overcast Hazy Drizzle Pre 9 C Humidity High Moderate Low Calm Light Breeze Strong Checklist Condition N/A Yes No Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information? Is a copy of EIA report kept in Engineers' and Contractors' offices on site?	Sunny Fine Overcast Hazy Drizzle R ITHE OVERTIFIED A APRA Overcast Hazy Drizzle R Hazy Drizzle R Hazy Drizzle R Hazy Drizzle R Hazy Drizzle R Checklist Condition Low Light Breeze Strong Checklist Condition N/A Yes No Unk Has a copy of the most update Environmental Permit been displayed at all vehicular site entrances/exits for public information? Is a copy of EIA report kept in Engineers' and Contractors' offices on site?

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Cement and dry pulverized fuel ash (PFA)	•		.1	·	·
Cap311R: Sch 15(3)	Are the storage silos for cement or dry PFA prevented from overfilling?	V				
Cap311R: Sch 15(4)	Are the handlings of cement or dry PFA through a totally enclosed system equipped with air pollution control equipment at the vent of the system?	1				
Cap311R: Sch 15(2)	Is bulk cement or dry PFA stored in a closed silo fitted with a high-level alarm?	J.				
Cap311R: Sch 17	Are the cement, dry PFA or other dusty materials collected by the air pollution control equipment disposed of in totally enclosed containers?	1				
	Loading, unloading or transfer of dusty materials	· · · · · · · · · · · · · · · · · · ·		1		
Cap311R: Sch 19	Are dusty materials, except cement and dry PFA, sprayed with water immediately prior to any loading, unloading or transfer operation?	J				
EM&A: A1	Are the dropping heights of the fill materials controlled to a practical level to minimize fugitive dust emission?	1				
	Use of vehicles	.1		I		
Cap311R: Sch 21(2) EM&A: A1	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	1				
Cap311R: Sch 21(1)	Is every vehicle wheel-washed by the wheel washing facilities to remove any dusty materials from its body and wheels before leaving the construction site?		v			Wheel Was Servies 700 By Paul Y
	Transfer of dusty materials using a belt conveyor system	.11			l	by raut 1
Cap311R: Sch 20(1)	Are belt conveyors used for transfer of dusty materials covered on the top and 2 sides?	V				
Cap311R: Sch 20(2)	Is every transfer point between any two-belt conveyors totally enclosed?	1				
Cap311R: Sch 20(3)	Is a belt scraper or equivalent device installed at the head pulley of every conveyor? Is the belt scraper equipped with bottom plates or similar means to prevent falling of materials from the return belts?	V				
Cap311R: Sch 20(4)	Are stockpiling conveyors equipped with level adjusting mechanism to maintain the dropping height within 1 m?					
	Concrete batching plant	<u> 1</u>				
EM&A: A2	Are the loading, unloading, handling, transfer or storage of any dusty materials carried out in a totally enclosed system?	V				
EM&A: A2	Are dusty materials, except cement and dry PFA, wetted by water spray system?	1				
EM&A: A2	Are all the receiving hoppers enclosed on three (3)sides up to 3m above unloading point?	1		-		
EM&A: A2	Are all the conveyor transfer points totally enclosed?	V				

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Miscellaneous					
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	1				
Cap311O	Is open burning prohibited?		1			,,,
Cap311	Is black smoke emission from plant/equipment avoided?		1			

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials					
WMP EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	J				
WMP EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?	1				
EM&A: E3	Are wastes disposed of at licensed sites?	1				
	Construction Waste and Excavated Materials					, <u>, , , , , , , , , , , , , , , , , , </u>
WMP EM&A: E3	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	✓				
WMP	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?	√				
WMP	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?	1				•••
WMP	Are the used formworks reused as far as possible before being disposed of in a landfill site?	V				
WMP	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	J				
EM&A: E3	Are wastes disposed of at licensed sites?	/				
	General refuse					
WMP	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?		1			
WMP	Is general refuse stored within receptacles and separated from chemical wastes?		~	`		
WMP	Is the refuse disposed of regularly and properly?		√			
WMP	Are burning of refuse at site and dumping at sea prohibited?		J	/		,
	Chemical Waste					
EM&A: E3	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	1				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks			
WDO	Has the Contractor been registered as a chemical waste producer?	N							
EM&A: E3	Has the Contractor kept all the trip tickets for the disposal of chemical waste and made them available for inspection?	1							
EM&A: E4	Is chemical waste handled according to the Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	V							
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	/							
	Storage, collection and transportation of waste								
EM&A: E3	Are wastes transported by enclosed containers or covered trucks?		V						
EM&A: E3	Are waste materials segregated and sorted into 3 categories as follows?	/							
	(1) public fill materials for on-site reuse, or disposal at public filling area;								
	(2) reusable / recyclable materials;								
	(3) un-reusable / non-recyclable waste for landfill disposal.								
EM&A: E3	Are the records of the quantities of wastes generated and disposed off-site for the 3 categories of waste properly maintained?	/							

WATER QUALITY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Surface Run-off				1	
PN1/94	Are the silt removal facilities, channels and manholes maintained and the deposited silt and grit removed regularly?	V				
PN1/94	Are earthworks final surfaces well compacted and the subsequent permanent work or surface protection carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms? Is appropriate drainage like intercepting channels provided where necessary?	V				
PN1/94	Are measures taken to minimize the ingress of rainwater into trenches? Is rainwater pumped out from trenches or foundation excavations discharged into storm drains via silt removal facilities?	V				
PN1/94	Are open stockpiles of construction materials (e,g. aggregates, sand and fill material) on site covered with tarpaulin or similar fabric during rainstorms? Are measures taken to prevent the washing away of construction materials, soil, silt or debris into the drainage system?	V				
PN1/94	Are manholes (including newly constructed ones) adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers?	/				
13311.001	Groundwater	1 ,			ļļ	
PN1/94	Is groundwater that pumped out of wells discharged into storm drains after the removal of silt in silt removal facilities?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Boring and Drilling Water	†				
PN1/94	Is water that used in ground boring and drilling for site investigation or rock/soil anchoring recirculated as far as possible after sedimentation? If there is a need for final disposal, is the wastewater discharged into storm drains via silt removal facilities?	~				
	Wheel Washing Water	1				
PN1/94	Is a wheel-washing bay provided at every exit if practicable and is the silt removed from wash-water before discharging into storm drains?	J				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: G1	Are all percussive piling works conducted on reclaimed land to avoid noise impact to marine mammals?	√				
EM&A: G2	Do the marine vessels moving to and from the construction site strictly follow the routes stated in the "Plan for Dredging & Reclamation, Routing of Construction Related Marine Vessels, and Installation of Silt Curtain"?	V				
EM&A: G3	Is rubble mound seawall constructed to the south and west edges of the reclamation to enhance recolonisation of marine organisms?	1				

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: C1	Are working programmes schedu	lled to minimize noise nuisance?		/			
EM&A: Cl	Are construction works or equipmuisance?	ment sited to minimize noise		V			
EM&A: C1	Are all plant and equipment main conditions?	ntained in good operating		~			
EM&A: C1/GP	Is idle equipment turned off or th	idle equipment turned off or throttled down?		1			
EM&A: C1	Are methods of working devised nuisance?	•					
EM&A: C1)	Are construction works carried o nuisance?		1				
EM&A: C2	holidays, is either one of the follo a) Mitigation by portable noise	b) Rescheduling of some powered mechanical equipment to less					
EM&A: C3	To mitigate night time construction equipped with silencers or muffle		1				
NCO	Are valid construction noise perminspection?	nits, if required, available for	0				
NCO	Are conditions of construction no relevant part(s) of the works impli		✓				
NCO	Are valid noise emission labels fi held percussive breakers?	1					
	Major noice cource(c)	☐ Traffic	ष	Constr site	uction	activi	ties inside the
	Major noise source(s) Construction activities Others outside the site						

Abbreviation

VEP: Varied Environmental Permit WMP: Waste Management Plan EM&A: EM&A Manual (Construction Phase) Cap311R: Cap3110: Cap311: PN1/94: APC (Construction Dust) Regulation NCO: Noise Control Ordinance APC (Open Burning) Regulation Air Pollution Control Ordinance WDO: Waste Disposal Ordinance Practice Note for Professional Persons (Construction Site Drainage) Unk: Unknown Remark Signatures ET Member Contractor's Representative

12th January 2005

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Construction of Transmission System Weekly Site Inspection Checklist

Inspection of	date 02/08/06 Time 09:30 Inspected by ET: Eric Dai Contractor: Kaden							
Site	Transmission Route (Civil Work)		Cont	racto	r. Nau	CII		
Weather								
Condition	Sunny Fine Overcast Hazy	✓	Drizzl	e [Rair	Storm		
Temperatu	re 28 °C Humidity High Moderat	e	Low					
Wind	Calm Light Breeze Strong							
GENERAL								
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks		
VEP 1.5	Has a copy of the most updated Environmental Permit been displayed at all vehicular site entrances/exits for public information?		✓					
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		√					
AIR QUALI Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks		
Kei.		IVA.		1,40	Cirk	Remarks		
Cap311R:	General Requirements Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice? If yes, did the contractors notify EPD of the change?							
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Has this been observed?	*						
	Stockpiling of dusty materials							
Cap311R: Sch 18 EM&A:J1	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?		1					
	Use of vehicles							
Cap311R: Sch 21(2)	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	1						
	Miscellaneous							
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	/						

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
Cap3110	Is open burning prohibited?		1			
Cap311	Is black smoke emission from plant/equipment avoided?		1			

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks			
	Dredged Materials		<u>'</u>			·			
Сар466	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	1							
Cap466	Are wastes disposed of at licensed sites?	~							
	Construction Waste and Excavated Materials								
Cap354	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	1							
Cap354	Are wastes disposed of at licensed sited?	1							
	Chemical Waste								
Cap354C	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	1							
Cap354C	Has the Contractor registered as a chemical waste producer?		1						
Cap354C	Is chemical waste handled according to the "Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	/							

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: M1	Are rubble mound seawalls constructed for the landing and launching points at Lamma Island?	*				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: L1	Are quiet PMEs or standard PMEs with modest source noise controls used at the cable route from N4 to N5?	/				
EM&A: L2 ~ L5	Are quiet PMEs (particularly the barge-mounted crane) or PMEs with comparably effective source noise controls used at landing point N5?	1				
NCO	Are valid construction noise permits, if required, available for inspection?					
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?	/				
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	✓				

TERRESTRIAL ECOLOGY

Ref	Checklist Condition	•	N/A	Yes	No	Unk	Remarks
EM&A: O1	Are the construction activities at la monitored to avoid impact on the u species Celtis biondii, Pteris disparrestricted plants Vitis balansaeana, and Rhapis excellsa?		'				
EM&A: O2	Are fences erected in accordance win good condition along the bounds prevent tipping, vehicle movement personnel into adjacent wooded are uncommon and restricted plant spe		1				
EM&A: Q3	Has regular checking been perform boundaries are not exceeded and the surrounding areas?	Has regular checking been performed to ensure that the work site boundaries are not exceeded and that no damage occurs to surrounding areas?					
EM&A: Q4	ls open fire prohibited and prevent boundary during construction? Is to equipment provided in the work ar		*				
		Traffic	/			ion act	tivities inside
	Major noise source(s)	Construction activities outside the site		Oth	Construction activities inside ne site		

Abbreviation

VEP: Varied Environmental Permit Cap311R: APC (Construction Dust) Regulation Cap311O: Cap311; APC (Open Burning) Regulation Air Pollution Control Ordinance

Cap466: Dumping at Sea Ordinance EM&A: EM&A Manual (Construction Phase)

NCO: Noise Control Ordinance Cap354: Waste Disposal Ordinance

Cap354c: WDO (Chemical Waste) (General) Regulation

Unk: Unknown

Remark Signatures ET Member Contractor's Representative

(Mame in Block letters:

20th December 2001

(Name in Block letters:

Eric, K. Y Dai Assistant Resident Engineer

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Construction of Transmission System Weekly Site Inspection Checklist

Inspection date 09/08/06 Time 09:30 Inspected by ET: Eric Dai Contractor: Kaden						en
Site						
Veather					-	
Condition	Sunny Fine Overcast Hazy		Drizzl	e [Rair	1 Storn
Temperatu	re 30 °C Humidity High Moderat	e _	Low			
Wind	Calm Light Breeze Strong					
GENERAL						
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most updated Environmental Permit been displayed at all vehicular site entrances/exits for public information?		1			
VEP 1.6	EP 1.6 Is a copy of EIA report kept in Engineers' and Contractors' offices on site?					
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements	,J		-1		
Cap311R:	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice? If yes, did the contractors notify EPD of the change?	1				
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Has this been observed?	1				
	Stockpiling of dusty materials			1		
Cap311R: Sch 18 EM&A:J1	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?	:	1			
	Use of vehicles					
Cap311R: Sch 21(2)	ls every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	V				
	Miscellaneous					·
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	1				

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
Cap3110	Is open burning prohibited?		✓			
Cap311	Is black smoke emission from plant/equipment avoided?		✓			

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks		
	Dredged Materials			,	1			
Cap466	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	/						
Cap466	Are wastes disposed of at licensed sites?	1						
	Construction Waste and Excavated Materials	•				''''		
Cap354	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	1						
Cap354	Are wastes disposed of at licensed sited?	1						
	Chemical Waste							
Cap354C	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	/						
Cap354C	Has the Contractor registered as a chemical waste producer?	.,	1					
Cap354C	Is chemical waste handled according to the "Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	1						

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: M1	Are rubble mound seawalls constructed for the landing and launching points at Lamma Island?	~				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: L1	Are quiet PMEs or standard PMEs with modest source noise controls used at the cable route from N4 to N5?	/				
EM&A: L2 ~ L5	Are quiet PMEs (particularly the barge-mounted crane) or PMEs with comparably effective source noise controls used at landing point N5?	/				
NCO	Are valid construction noise permits, if required, available for inspection?	V				
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?	1				
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	/				

TERRESTRIAL ECOLOGY

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: O1	Are the construction activities at landing points N4 & N5 closely monitored to avoid impact on the uncommon and rare plant species Celtis biondii, Pteris dispar and Ardicia pusilla, and the restricted plants Vitis balansaeana, Pterospermum heterophyllum and Rhapis excellsa?			√			
EM&A: O2	Are fences erected in accordance with the Hoarding Plan and kept in good condition along the boundary of construction sites to prevent tipping, vehicle movements, and encroachment of personnel into adjacent wooded areas, particularly where the rare, uncommon and restricted plant species are located?			V			
EM&A: Q3	Has regular checking been perform boundaries are not exceeded and the surrounding areas?	ned to ensure that the work site nat no damage occurs to		~			
EM&A: Q4	Is open fire prohibited and prevented within the work site boundary during construction? Is temporary fire fighting equipment provided in the work area during construction?			1			
		Traffic	· /	Con		tion ac	tivities inside
	Major noise source(s)	Construction activities outside the site	-	Oth			

Abbreviation

VEP: Varied Environmental Permit Cap311R: Cap311O: Cap311: Cap466: APC (Construction Dust) Regulation APC (Open Burning) Regulation Air Pollution Control Ordinance Dumping at Sea Ordinance

EM&A: EM&A Manual (Construction Phase)

NCO: Noise Control Ordinance Cap354: Waste Disposal Ordinance

Cap354c: WDO (Chemical Waste) (General) Regulation Unk: Unknown

nark			
		rtu T	
	··		

Signatures

ET Member

Contractor's Representative

(Name in Block letters:

Eric, K. Y Dai

(Name in Block letters: Sin Chun Knew

Assistant Resident Engineer

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Construction of Transmission System Weekly Site Inspection Checklist

Inspection date	16/08/06 Time 09:30	Inspected by	ET: Eric Dai
			Contractor: Kaden
Site	Transmission Route (Civil Work)		
Weather	•		
Condition	Sunny Fine Overcast	Hazy	Drizzle Rain Storm
Temperature	31 °C Humidity High	✓ Moderate	Low
Wind	Calm Light Breeze	Strong	
GENERAL			

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most updated Environmental Permit been displayed at all vehicular site entrances/exits for public information?		√			
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		✓			

AIR QUALITY

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements					
Cap311R:	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice? If yes, did the contractors notify EPD of the change?	✓				
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Has this been observed?	1				
******	Stockpiling of dusty materials			~		
Cap311R: Sch 18 EM&A:J1	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?		√			
********	Use of vehicles	•				
Cap311R: Sch 21(2)	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	✓				
	Miscellaneous	•				
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	1			-	1917-

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
Cap3110	Is open burning prohibited?		1			
Cap311	Is black smoke emission from plant/equipment avoided?		✓			

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials					
Cap466	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	1				
Cap466	Are wastes disposed of at licensed sites?	1				
	Construction Waste and Excavated Materials	•	1			
Cap354	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	1				-
Cap354	Are wastes disposed of at licensed sited?	1				
	Chemical Waste					
Cap354C	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	1				
Cap354C	Has the Contractor registered as a chemical waste producer?		√			
Cap354C	Is chemical waste handled according to the "Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	1				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: M1	Are rubble mound seawalls constructed for the landing and launching points at Lamma Island?	*				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: L1	Are quiet PMEs or standard PMEs with modest source noise controls used at the cable route from N4 to N5?	√				
EM&A: L2 ~ L5	Are quiet PMEs (particularly the barge-mounted crane) or PMEs with comparably effective source noise controls used at landing point N5?	√				
NCO	Are valid construction noise permits, if required, available for inspection?	1				
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?	✓				
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	✓				

TERRESTRIAL ECOLOGY

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: O1	Are the construction activities at la monitored to avoid impact on the uspecies Celtis biondii, Pteris disparestricted plants Vitis balansaeana, and Rhapis excellsa?	ncommon and rare plant rand Ardicia pusilla, and the		~			
EM&A: O2	Are fences erected in accordance with the Hoarding Plan and kept in good condition along the boundary of construction sites to prevent tipping, vehicle movements, and encroachment of personnel into adjacent wooded areas, particularly where the rare, uncommon and restricted plant species are located?			✓,			
EM&A: Q3	Has regular checking been perform boundaries are not exceeded and the surrounding areas?			✓			
EM&A: Q4	boundary during construction? Is to	Is open fire prohibited and prevented within the work site boundary during construction? Is temporary fire fighting equipment provided in the work area during construction?		✓			
		Traffic	✓	Con the s		ion act	ivities inside
	Major noise source(s)	Major noise source(s) Construction activities outside the site		Oth			

Abbreviation

VEP:

Varied Environmental Permit

Cap311R:

APC (Construction Dust) Regulation APC (Open Burning) Regulation

Cap311O: Cap311: Cap466:

Air Pollution Control Ordinance Dumping at Sea Ordinance

EM&A: EM&A Manual (Construction Phase)

NCO: Noise Control Ordinance

Cap354: Waste Disposal Ordinance

Cap354c: WDO (Chemical Waste) (General) Regulation

Unk: Unknown

Remark	•	 	

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<u></u>			

Signatures

ET Membe

Contractor's Representative

(Name in Block letters:

Eric, K. Y Dai

Assistant Resident Engineer

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Construction of Transmission System Weekly Site Inspection Checklist

Inspection da	te 23/08/06 Time 09:30 In	Inspected by ET: Eric Dai
Site	Transmission Route (Civil Work)	Contractor: Kaden
Weather		
Condition	Sunny Fine Overcast Ha	azy Drizzle Rain Storm
Temperature	e 30 °C Humidity High	Moderate Low
Wind	Calm Light Breeze S	Strong
GENERAL		
Def	Charleigt Condition	N/A Ves No link Remarks

Has a copy of the most updated Environmental Permit been

Is a copy of EIA report kept in Engineers' and Contractors' offices

displayed at all vehicular site entrances/exits for public

AIR QUALITY

information?

on site?

VEP 1.5

VEP 1.6

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements	<u></u>				
Cap311R:	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice? If yes, did the contractors notify EPD of the change?	/				
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Has this been observed?	✓				
···	Stockpiling of dusty materials					
Cap311R: Sch 18 EM&A:J1	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?		1			
	Use of vehicles	· -	•	•		
Cap311R: Sch 21(2)	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	~				
	Miscellaneous	<u> </u>				
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	1				

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
Cap311O	Is open burning prohibited?		1			
Cap311	Is black smoke emission from plant/equipment avoided?		~			

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks	
	Dredged Materials						
Cap466	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	1					
Cap466	Are wastes disposed of at licensed sites?	1			*		
	Construction Waste and Excavated Materials						
Cap354	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	1					
Cap354	Are wastes disposed of at licensed sited?	1					
	Chemical Waste						
Cap354C	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	1					
Cap354C	Has the Contractor registered as a chemical waste producer?		✓.		<u>-</u>		
Cap354C	Is chemical waste handled according to the "Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	1					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: M1	Are rubble mound seawalls constructed for the landing and launching points at Lamma Island?	1				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: L1	Are quiet PMEs or standard PMEs with modest source noise controls used at the cable route from N4 to N5?	1				
EM&A: L2~L5	Are quiet PMEs (particularly the barge-mounted crane) or PMEs with comparably effective source noise controls used at landing point N5?	/	-,-		·	
NCO	Are valid construction noise permits, if required, available for inspection?	1				
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?	✓				
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	√				

TERRESTRIAL ECOLOGY

Ref	Checklist Condition		N/A	Yes	Remarks		
EM&A: O1	monitored to avoid impact on the u species Celtis biondii, Pteris dispar	onstruction activities at landing points N4 & N5 closely d to avoid impact on the uncommon and rare plant leltis biondii, Pteris dispar and Ardicia pusilla, and the plants Vitis balansaeana, Pterospermum heterophyllum is excellsa?					
EM&A: O2	Are fences erected in accordance win good condition along the boundar prevent tipping, vehicle movements personnel into adjacent wooded are uncommon and restricted plant specific process.		1				
EM&A: Q3		Has regular checking been performed to ensure that the work site boundaries are not exceeded and that no damage occurs to surrounding areas?					
EM&A: Q4	Is open fire prohibited and prevente boundary during construction? Is to equipment provided in the work are	emporary fire fighting		~			
1111		Traffic	√	Con the		ion act	ivities inside
	Major noise source(s) Construction activities outside the site			Oth	ers:		

Abbreviation

VEP: Varied Environmental Permit Cap311R: APC (Construction Dust) Regulation APC (Open Burning) Regulation Cap311O: Cap311: Air Pollution Control Ordinance

Cap466:

Dumping at Sea Ordinance

EM&A: EM&A Manual (Construction Phase)

Noise Control Ordinance NCO: Cap354: Waste Disposal Ordinance

Cap354c: WDO (Chemical Waste) (General) Regulation

Unk: Unknown

Remark			
	· · · · · · · · · · · · · · · · · · ·		
	1.000		

Signatures ET Member (Name in Block letters: Eric, K. Y Dai

Contractor's Representative

Assistant Resident Engineer

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Construction of Transmission System Weekly Site Inspection Checklist

nspection da	te 30/08/06 Time 09:30 Inspecte	d by	ЕТ: E		ai : Kade	n
ite	Transmission Route (Civil Work)					
eather				-		
Condition	Sunny Fine Overcast Hazy		Drizzle	: [Rain	Storr
emperatur	e 31 °C Humidity High Moderate	: [Low			
Vind	Calm Light Breeze Strong					
ENERAL						
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most updated Environmental Permit been displayed at all vehicular site entrances/exits for public information?		√			
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		✓			
.IR QUALI Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements					
Cap311R:	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice? If yes, did the contractors notify EPD of the change?	\				
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Has this been observed?	/				
	Stockpiling of dusty materials					
Cap311R: Sch 18 EM&A:J1	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?					
	Use of vehicles			_		
Cap311R: Sch 21(2)	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?					7
	Miscellaneous					
Cap311R:	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	/				

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
Cap311O	Is open burning prohibited?		1			
Cap311	Is black smoke emission from plant/equipment avoided?		1			

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks			
	Dredged Materials					,			
Cap466	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	/							
Cap466	Are wastes disposed of at licensed sites?	1							
	Construction Waste and Excavated Materials								
Cap354	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	~							
Сар354	Are wastes disposed of at licensed sited?	1							
., .	Chemical Waste								
Cap354C	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	1							
Cap354C	Has the Contractor registered as a chemical waste producer?		1						
Cap354C	Is chemical waste handled according to the "Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	1							

		N/A	Yes	No	Unk	Remarks
Ref	Checklist Condition			<u>_</u>		<u> </u>
EM&A: M1	Are rubble mound seawalls constructed for the landing and launching points at Lamma Island?	/				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: L1	Are quiet PMEs or standard PMEs with modest source noise controls used at the cable route from N4 to N5?	~				
EM&A: L2 ~ L5	Are quiet PMEs (particularly the barge-mounted crane) or PMEs with comparably effective source noise controls used at landing point N5?	1				
NCO	Are valid construction noise permits, if required, available for inspection?	~				
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?	1				
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	√				

TERRESTRIAL ECOLOGY

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: O1	Are the construction activities at lan monitored to avoid impact on the ur species Celtis biondii, Pteris dispar restricted plants Vitis balansaeana, and Rhapis excellsa?		\				
EM&A: O2	Are fences erected in accordance w in good condition along the bounda prevent tipping, vehicle movements personnel into adjacent wooded are uncommon and restricted plant spec		V				
EM&A: Q3	Has regular checking been perform boundaries are not exceeded and th surrounding areas?	Has regular checking been performed to ensure that the work site boundaries are not exceeded and that no damage occurs to					
EM&A: Q4	Is open fire prohibited and prevent boundary during construction? Is to equipment provided in the work ar	emporary fire fighting		~			
	Major noise source(s) Traffic Construction activities outside the site		/		nstrue e site	ction a	ctivities inside
				01	hers:		

Abbreviation

VEP:

Cap311R:

Cap311O: Cap311: Cap466:

Varied Environmental Permit APC (Construction Dust) Regulation APC (Open Burning) Regulation Air Pollution Control Ordinance

Dumping at Sea Ordinance

EM&A: EM&A Manual (Construction Phase)

Noise Control Ordinance

NCO: Noise Control Ordinance
Cap354: Waste Disposal Ordinance
Cap354c: WDO (Chemical Waste) (General) Regulation
Unk: Unknown

Remark			
		 <u> </u>	

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Signatures

ET Mem

Contractor's Representative

(Name in Block letters:

(Name in Block letters:

20th December 2001

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Construction of Transmission System Weekly Site Inspection Checklist

Inspection	late 4/8/06 Time /0:32 Inspec	ted by	ET:		LU		
Site	OUTSIDE LANDING PT. I, N. 2 M	Ç	Cont	racto	r: 丁-	-POWERS	Y57825
Weather							•
Condition	Sunny Fine Overcast Hazy		Driz	zle [Z R	ain Stor	n
Temperatu	re 28°C Humidity High Moderat	ie	Lov	v			
Wind	Calm Light Breeze Strong						_
GENERAL			-	-			
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks	
VEP 1.5	Has a copy of the most updated Environmental Permit been displayed at all vehicular site entrances/exits for public information?		/				
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		/				
AIR QUALI Ref.	TY Checklist Condition	N/A	Yes	No	Unk	Remarks	
	General Requirements						
Cap311R:	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice? If yes, did the contractors notify EPD of the change?	/					
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Has this been observed?	/					
	Stockpiling of dusty materials						
Cap311R: Sch 18 EM&A:JI	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?	/					
	Use of vehicles						
Cap311R: Sch 21(2)	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?						ı
	Miscellaneous						
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	/					

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
Cap3110	Is open burning prohibited?	/				
Cap311	Is black smoke emission from plant/equipment avoided?	/				

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials	•		<u> </u>	l <u></u>	1.
Cap466	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?		/			
Cap466	Are wastes disposed of at licensed sites?		/			
	Construction Waste and Excavated Materials					
Cap354	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	/				
Сар354	Are wastes disposed of at licensed sited?	1				-
	Chemical Waste					
Cap354C	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	/				
Cap354C	Has the Contractor registered as a chemical waste producer?	/				
Cap354C	Is chemical waste handled according to the "Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	/				

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: M1	Are rubble mound seawalls constructed for the landing and launching points at Lamma Island?	1				

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13	V .		Ľ

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: Li	Are quiet PMEs or standard PMEs with modest source noise controls used at the cable route from N4 to N5?	1				
EM&A: L2~L5	Are quiet PMEs (particularly the barge-mounted crane) or PMEs with comparably effective source noise controls used at landing point N5?	/				
NCO	Are valid construction noise permits, if required, available for inspection?	/				
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?	/				
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	/				

TERRESTRIAL ECOLOGY

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: O1	monitored to avoid impact on the species Celtis biondii, Pteris di.	at landing points N4 & N5 closely the uncommon and rare plant spar and Ardicia pusilla, and the una, Pterospermum heterophyllum	/				
EM&A: O2	Are fences erected in accordance in good condition along the bour prevent tipping, vehicle movem personnel into adjacent wooded uncommon and restricted plant	/					
EM&A: Q3	Has regular checking been performed boundaries are not exceeded and surrounding areas?	ormed to ensure that the work site d that no damage occurs to	/				
EM&A: Q4	Is open fire prohibited and previoundary during construction? I equipment provided in the work	s temporary fire fighting	/				
		☐ Traffic	Construction activitie			ities inside the	
	Major noise source(s)	Construction activities outside the site	site Others				

Abbreviation

VEP: Varied Environmental Permit EM&A: EM&A Manual (Construction Phase) APC (Construction Dust) Regulation Cap311R: NCO: Noise Control Ordinance Cap3110: Cap311: APC (Open Burning) Regulation Cap354: Waste Disposal Ordinance Air Pollution Control Ordinance Cap354c: WDO (Chemical Waste) (General) Regulation Cap466: Dumping at Sea Ordinance Unk: Unknown Remark Signatures ET Member Contractor's Representative

(Name in Block letters:

KLLAN,

(Name in Block letters:

BERRY YUEN

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Construction of Transmission System Weekly Site Inspection Checklist

Inspection	date 11/8/06 Time (5:30 Inspec	ted by	_		LU		
Site	OUTSIDE / MOUNT DT. I, N. 8 Ny		Com	1400	"·J~	power sys	1045
Weather							
Condition	Sunny Fine Overcast Hazy		Driz	zle [R	ain Storm	1
Temperatu	ure Wordera Humidity High Modera	ite	Lov	v			
Wind	Calm Light Breeze Strong				_		
GENERAL							_
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks	
VEP 1.5	Has a copy of the most updated Environmental Permit been displayed at all vehicular site entrances/exits for public information?		/				
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		/				
AIR QUAL	Checklist Condition	N/A	Yes	No	Unk	Remarks	
		IN/A	163	140	Unk	Kemarks	
C. 211D.	General Requirements Has the contractors notified EPD of the construction site which is	т —					
Cap311R:	classified as a notifiable work in a specified form? If there is any change in the notice? If yes, did the contractors notify EPD of the change?						
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Has this been observed?	/					
	Stockpiling of dusty materials						
Cap311R: Sch 18 EM&A:J1	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?	/					
	Use of vehicles						
Cap311R: Sch 21(2)	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?						
	Miscellaneous						
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	/					

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
Cap3110	Is open burning prohibited?	/				
Cap311	Is black smoke emission from plant/equipment avoided?	/				

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials					•
Cap466	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?		/			
Cap466	Are wastes disposed of at licensed sites?		/			
	Construction Waste and Excavated Materials					
Cap354	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	/	-			
Cap354	Are wastes disposed of at licensed sited?	/				
	Chemical Waste					
Cap354C	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	/				
Cap354C	Has the Contractor registered as a chemical waste producer?	/				
Cap354C	Is chemical waste handled according to the "Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	/				

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: M1	Are rubble mound seawalls constructed for the landing and launching points at Lamma Island?	1				-

NA	ISF	
110		

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: L1	Are quiet PMEs or standard PMEs with modest source noise controls used at the cable route from N4 to N5?	1				
EM&A: L2 ~ L5	Are quiet PMEs (particularly the barge-mounted crane) or PMEs with comparably effective source noise controls used at landing point N5?	/				
NCO	Are valid construction noise permits, if required, available for inspection?	/				
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?					
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	/				

TERRESTRIAL ECOLOGY

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: O1	monitored to avoid impact on the species Celtis biondii, Pteris di	at landing points N4 & N5 closely the uncommon and rare plant spar and Ardicia pusilla, and the ana, Pterospermum heterophyllum	/				
EM&A: O2	in good condition along the bou prevent tipping, vehicle movem	ents, and encroachment of lareas, particularly where the rare,					
EM&A: Q3	Has regular checking been performed boundaries are not exceeded and surrounding areas?	ormed to ensure that the work site d that no damage occurs to	/				
EM&A: Q4	Is open fire prohibited and prev boundary during construction? equipment provided in the work	Is temporary fire fighting	/				
		☐ Traffic			ruction	a activ	ities inside the
	Major noise source(s)	Construction activities outside the site	site Others				

Abbreviation

VEP: Varied Environmental Permit
Cap311R: APC (Construction Dust) Regulation
Cap3110: APC (Open Burning) Regulation
Cap311: Air Pollution Control Ordinance
Dumping at Sea Ordinance

EM&A: EM&A Manual (Construction Phase)

NCO: Noise Control Ordinance Cap354: Waste Disposal Ordinance

Cap354c: WDO (Chemical Waste) (General) Regulation

Unk: Unknown

Remark		
N/A		
-		
Signatures		
ET Member	Contractor's Representative	
	4.	
	<u> </u>	
(Name in Block letters:	(Name in Block letters:	
KLLAN,	BERRY YUZN	

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Construction of Transmission System Weekly Site Inspection Checklist

Inspection	date \[\langle \langl	ted by	ET:	Ki	UA	POWER SISTER
Site	ONTSIDE LANDING PT. I, NZ ENG		Con	a acto		POWER JOH
Weather						
Condition	Sunny Fine Overcast Hazy		Driz	zle [Ra	in Storm
Temperatu	re 2 °C Humidity High Modera	te	Lov	×		
Wind	Calm Light Breeze Strong			·		
GENERAL			· <u>-</u>			
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most updated Environmental Permit been displayed at all vehicular site entrances/exits for public information?		/		,	
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		/			
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements	·	L	ــــــــــــــــــــــــــــــــــــــ		
Cap311R:	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice? If yes, did the contractors notify EPD of the change?	/				
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Has this been observed?	/				
	Stockpiling of dusty materials					
Cap311R: Sch 18 EM&A:J1	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?	/				
	Use of vehicles					
Cap311R: Sch 21(2)	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?					
	Miscellaneous					
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as					

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
Cap3110	Is open burning prohibited?	/				
Cap311	Is black smoke emission from plant/equipment avoided?					

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials					
Cap466	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?		/			
Cap466	Are wastes disposed of at licensed sites?		/			
	Construction Waste and Excavated Materials					
Сар354	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	/				
Cap354	Are wastes disposed of at licensed sited?	1		-		
	Chemical Waste	•		•		
Cap354C	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	/				
Cap354C	Has the Contractor registered as a chemical waste producer?	/	<u> </u>			
Сар354С	Is chemical waste handled according to the "Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	/	<u> </u>			

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: M1	Are rubble mound seawalls constructed for the landing and launching points at Lamma Island?	1				

NOISE

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: L1	Are quiet PMEs or standard PMEs with modest source noise controls used at the cable route from N4 to N5?	1				
EM&A: L2 ~ L5	Are quiet PMEs (particularly the barge-mounted crane) or PMEs with comparably effective source noise controls used at landing point N5?	/				
NCO	Are valid construction noise permits, if required, available for inspection?	/				
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?	/		·		
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	/				

TERRESTRIAL ECOLOGY

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks	
EM&A: O1	monitored to avoid impact on the species Celtis biondii, Pteris dis	at landing points N4 & N5 closely the uncommon and rare plant spar and Ardicia pusilla, and the una, Pterospermum heterophyllum	/					
EM&A: O2	in good condition along the bou prevent tipping, vehicle movem	ents, and encroachment of areas, particularly where the rare,	/					
EM&A: Q3	Has regular checking been performed boundaries are not exceeded and surrounding areas?	ormed to ensure that the work site d that no damage occurs to	/					
EM&A: Q4	Is open fire prohibited and previous during construction? I equipment provided in the work	Is temporary fire fighting	/					
• •		☐ Traffic	Ø	2 Constitution activities inside th				
	Major noise source(s)	Construction activities outside the site	site Others					

Abbreviation

VEP: Varied Environmental Permit EM&A: EM&A Manual (Construction Phase) Cap311R: APC (Construction Dust) Regulation NCO: Noise Control Ordinance Cap3110: Cap354: Waste Disposal Ordinance APC (Open Burning) Regulation Cap311: Air Pollution Control Ordinance Cap354c: WDO (Chemical Waste) (General) Regulation Cap466: Dumping at Sea Ordinance Unk: Unknown Remark Signatures ET Member Contractor's Representative

(Name in Block letters:

KLLAN,

(Name in Block letters:

BZRRY YUZAN

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Construction of Transmission System Weekly Site Inspection Checklist

Inspection	date 25/8/06 Time 11:05 Inspec	ted by					_]
Site	OUTGOT DOWNIG PT. I, N2 & N4		Cont	racto	r: J ~	POWTR S	y ji Trus
Weather							
Condition	Sunny Fine Overcast Hazy		Driz	zle [Ra	uin Sto	rm
Temperatu	re 💯 °C Humidity High Modera	te	Lov	V			
Wind	Calm Light Breeze Strong	_		_			
GENERAL							
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks	
VEP 1.5	Has a copy of the most updated Environmental Permit been displayed at all vehicular site entrances/exits for public information?		/				
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		1				
AIR QUALI Ref.	TY Checklist Condition	N/A	Yes	No	Unk	Remarks	
	General Requirements		l	i			
Cap311R:	Has the contractors notified EPD of the construction site which is classified as a notifiable work in a specified form? If there is any change in the notice? If yes, did the contractors notify EPD of the change?	/					
Cap311R: Sch 12(3)	A compressed air jet shall not be used for cleaning or clearing dust from any vehicle, equipment, other materials or person. Has this been observed?	/					
	Stockpiling of dusty materials]
Cap311R: Sch 18 EM&A:JI	Are stockpiles of dusty materials entirely covered with impervious sheets or sheltered on the top and 3 sides or sprayed with water to maintain the entire surface wet to prevent dust emission?	/					
	Use of vehicles						
Cap311R: Sch 21(2)	Is every load of dusty material on the vehicles leaving the construction site covered entirely by clean impervious sheeting?	/					
	Miscellaneous						_
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?	/					

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
Cap3110	Is open burning prohibited?	/				
Сар311	Is black smoke emission from plant/equipment avoided?	/				

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials	·				•
Cap466	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?		/			
Cap466	Are wastes disposed of at licensed sites?		/			
	Construction Waste and Excavated Materials					
Cap354	Does the Contractor possess a valid Public Dumping License for construction waste and excavated materials and make it available for inspection?	/			:	
Cap354	Are wastes disposed of at licensed sited?	1				
	Chemical Waste	•				· · · · · · · · · · · · · · · · · · ·
Cap354C	Has the contractor obtained the necessary disposal permits from the relevant authority, if required, according to Waste Disposal (Chemical Waste) (General Regulation)?	/				
Cap354C	Has the Contractor registered as a chemical waste producer?	/				
Cap354C	Is chemical waste handled according to the "Code of Practice on the Packaging, Handling and Storage of Chemical Waste"?	/			-	

MARINE ECOLOGY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: M1	Are rubble mound seawalls constructed for the landing and launching points at Lamma Island?	/				

N		IC	
N	٠,		r,

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: Li	Are quiet PMEs or standard PMEs with modest source noise controls used at the cable route from N4 to N5?	1				
EM&A: L2 ~ L5	Are quiet PMEs (particularly the barge-mounted crane) or PMEs with comparably effective source noise controls used at landing point N5?	/				-
NCO	Are valid construction noise permits, if required, available for inspection?	/				
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?	/				
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	/				

TERRESTRIAL ECOLOGY

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: O1	monitored to avoid impact on the species Celtis biondii, Pteris dis	t landing points N4 & N5 closely the uncommon and rare plant the par and Ardicia pusilla, and the the na, Pterospermum heterophyllum	/				
EM&A: O2	in good condition along the bour prevent tipping, vehicle movement	ents, and encroachment of areas, particularly where the rare,	/				
EM&A: Q3	Has regular checking been perfo boundaries are not exceeded and surrounding areas?	rmed to ensure that the work site I that no damage occurs to	/				
EM&A: Q4	Is open fire prohibited and preve boundary during construction? I equipment provided in the work	s temporary fire fighting	/				
		☐ Traffic	0	Consti	uction	a activi	ities inside the
	Major noise source(s)	Construction activities outside the site		Others			

Abbreviation

VEP: Varied Environmental Permit
Cap311R: APC (Construction Dust) Regulation
Cap3110: APC (Open Burning) Regulation
Cap311: Air Pollution Control Ordinance
Cap466: Dumping at Sea Ordinance

EM&A: EM&A Manual (Construction Phase)

NCO: Noise Control Ordinance Cap354: Waste Disposal Ordinance

Cap354c: WDO (Chemical Waste) (General) Regulation

Unk: Unknown

Remark		-
N/A		
		random dell'element
Signatures		
ET Member	Contractor's Representative	

(Name in Block letters:

KLLAN

(Name in Block letters:

Appendix I: Summary of EMIS

I.1. Power Station – Unit L9 Civil and Building Works (Part B of EIA Report)

Table I.1 Construction Phase Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	AIR QUALITY	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	the haul roads shall be sprayed with water to keep the entire road surface wet.	С
	• the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.	С
	the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	С
A2	For the concrete batching plant, the following control measures are recommended:	
	• loading, unloading, handling, transfer or storage or any dusty materials shall be carried out in a totally enclosed system.	N/A
	The materials which may generate airborne dust emissions shall be wetted by water spray system.	N/A
	All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.	N/A
	All conveyor transfer points shall be totally enclosed.	N/A
	WATER QUALITY	
B1	The following configurations and maximum rates of dredging shall be allowed:	
	3 large grab dredgers and 1 small grab dredger operating concurrently, each with rates of working of 12,000 m³ day⁻¹ and 8,000 m³ day⁻¹ respectively. During the flood phase of the tidal cycle the total number of large dredgers working shall be reduced by one, while during the ebb phase of the tidal cycle no reductions in the total number of dredgers shall be required.	N/A
	• 1 trailer dredger with a rate of working of 8,000 m ³ day ⁻¹ , and 2 large grab dredgers, each with rates of working of 12,000 m ³ day ⁻¹	N/A
B2	Silt curtains shall be installed on the eastern, southern and north western sides of the reclamation site during dredging for the reclamation construction. This is a required mitigation measure for the construction works and shall be implemented prior to the commencement of bulk dredging.	N/A
В3	As a necessary operational constraint combined bulk dredging and sand filling for site formation shall not be permitted at any time. In addition, sand filling for site platform shall take place behind constructed sea walls which pierce the water surface.	N/A
B4	HEC shall ensure design to divert all storm drains away from Hung Shing Ye Bay.	С

EM&A Log Ref.	Mitigation Measures	Implementation Status
B5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm.	N/A
B6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented:	N/A
	 reducing the number of dredgers working at any one time; reducing the rate of working of the dredgers; temporary suspension of operations; phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle. 	
В7	In addition to the above specific measures the following general working procedures shall be adopted.	
	fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;	N/A
	the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A
	barges shall be loaded carefully to avoid splashing of material;	N/A
	all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;	N/A
	all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;	N/A
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A
	"rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A
	the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.	N/A
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels.	N/A
	NOISE	
C1	General noise mitigation measures shall be employed at all work sites throughout the construction phase.	С
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PMEs to less sensitive time periods.	С
C3	Mitigate against night time noise from dredging equipment, with silencers or mufflers.	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
	LANDSCAPE & VISUAL IMPACTS	
D1	The following mitigation measures shall be allowed for landscape and visual improvement:	
	Use rubble mound seawall along south and west edges of the reclamation to provide a more natural look.	С
	Break the mass of main buildings by varying the height/division into smaller units.	С
	Plant trees and vegetation for screening.	С
	Adopt colour scheme to blend the buildings into the scenery.	С
	VVA GENERAL AND GENERAL GENERA	
	WASTE MANAGEMENT	
E1	HEC to submit a Waste Management Plan for the construction phase to EPD. The Plan shall be verified by the IEC and shall describe the arrangements for avoidance, reuse, recovery and recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities and shall take into account the recommendations of the EIA report.	С
	Dredging Waste	
E2	All vessels for marine transportation of dredged sediment shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials. In addition, loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water, and barges or hoppers should under no circumstances be filled to a level which shall cause the overflowing of materials or polluted water during loading or transportation	N/A
	Storage, Collection and Transport of Waste	
E3	Minimise windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.	С
	Obtain the necessary waste disposal permits from the appropriate authorities, if they are required, in accordance with the Waste Disposal Ordinance (Cap.354), Waste Disposal (Chemical Waste) (General) Regulation (Cap.354), the Crown Land Ordinance (Cap 28), Dumping at Sea Ordinance (Cap 466) and Work Branch Technical Circular No. 22/92, Marine Disposal of Dredged Mud.	С
	Disposal of waste at Licensed sites;	С
	Develop procedures such as a ticketing system to facilitate tracking of marine mud and chemical waste, and to ensure that illegal disposal does not occur;	N/A
	 Segregate and sort the waste materials into 3 categories: public fill (e.g. concrete and rubble) for re-use on-site or disposal at a public filling area; re-use and/or recycling waste (e.g. steel and other metals); waste which cannot be re-used and/or recycled (e.g. wood, glass and plastic) for landfill disposal. The sorting process shall be carefully monitored to avoid missing of the 3 categories. Different types of wastes shall be stockpiled and stored in different containers or skips to enhance re-use or recycling of materials and their proper disposal. 	N/A
	Maintain records of the quantities of wastes generated and disposed off-site for each category of waste.	С

EM&A Log Ref.	Mitigation Measures	Implementation Status
E4	Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes	N/A
	LAND CONTAMINATION	
F1	No land Contamination mitigation measures are required during the construction phase.	N/A
	MARINE ECOLOGY	
G1	All percussive piling works shall be conducted on reclaimed land to avoid noise impact to marine mammals	N/A
G2	All construction related vessels shall approach the extension site from the north and via the East Lamma Channel to avoid disturbance to the finless porpoise	С
G3	Rubble mound seawall to the south and west edges of the reclamation to enhance recolonisation of marine organisms	С
G4	Artificial Reefs of a volume not less than 400 m ³ shall be deployed in a location to be decided upon consultation with the Director of Agriculture and Fisheries to serve the purpose of an Additional Habitat Enhancement Measure.	С
	FISHERIES	
H1	No Fisheries-specific mitigation measures are required during the construction phase.	N/A
	RISK ASSESSMENT	
I1	No risk mitigation measures are required during the construction phase.	N/A

I.2. Power Station – Unit L9 Mechanical Erection (Part B of EIA Report)

 Table I.2
 Construction Phase Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	AIR QUALITY	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	• the haul roads shall be sprayed with water to keep the entire road surface wet.	С
	the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.	N/A
	the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	N/A
A2	For the concrete batching plant, the following control measures are recommended:	
	• loading, unloading, handling, transfer or storage or any dusty materials shall be carried out in a totally enclosed system.	N/A
	The materials which may generate airborne dust emissions shall be wetted by water spray system.	N/A
	All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.	N/A
	All conveyor transfer points shall be totally enclosed.	N/A
	WATER QUALITY	
B1	The following configurations and maximum rates of dredging shall be allowed:	
	3 large grab dredgers and 1 small grab dredger operating concurrently, each with rates of working of 12,000 m³ day⁻¹ and 8,000 m³ day⁻¹ respectively. During the flood phase of the tidal cycle the total number of large dredgers working shall be reduced by one, while during the ebb phase of the tidal cycle no reductions in the total number of dredgers shall be required.	N/A
	• 1 trailer dredger with a rate of working of 8,000 m ³ day ⁻¹ , and 2 large grab dredgers, each with rates of working of 12,000 m ³ day ⁻¹	N/A
B2	Silt curtains shall be installed on the eastern, southern and north western sides of the reclamation site during dredging for the reclamation construction. This is a required mitigation measure for the construction works and shall be implemented prior to the commencement of bulk dredging.	N/A
В3	As a necessary operational constraint combined bulk dredging and sand filling for site formation shall not be permitted at any time. In addition, sand filling for site platform shall take place behind constructed sea walls which pierce the water surface.	N/A
B4	HEC shall ensure design to divert all storm drains away from Hung Shing Ye Bay.	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
В5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm.	N/A
В6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented:	N/A
	 reducing the number of dredgers working at any one time; reducing the rate of working of the dredgers; temporary suspension of operations; phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle. 	
В7	In addition to the above specific measures the following general working procedures shall be adopted.	
	fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;	N/A
	the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A
	barges shall be loaded carefully to avoid splashing of material;	N/A
	all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;	N/A
	all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;	N/A
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A
	"rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A
	the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.	С
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels.	N/A
		T
	NOISE	
C1	General noise mitigation measures shall be employed at all work sites throughout the construction phase.	С
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PMEs to less sensitive time periods.	С
C3	Mitigate against night time noise from dredging equipment, with silencers or mufflers.	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
	LANDSCAPE & VISUAL IMPACTS	
D1	The following mitigation measures shall be allowed for landscape and visual improvement:	
	Use rubble mound seawall along south and west edges of the reclamation to provide a more natural look.	N/A
	Break the mass of main buildings by varying the height/division into smaller units.	N/A
	Plant trees and vegetation for screening.	N/A
	Adopt colour scheme to blend the buildings into the scenery.	N/A
	WASTE MANAGEMENT	
E1	HEC to submit a Waste Management Plan for the construction phase to EPD. The Plan shall be verified by the IEC and shall describe the arrangements for avoidance, reuse, recovery and recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities and shall take into account the recommendations of the EIA report.	С
	Dredging Waste	
E2	All vessels for marine transportation of dredged sediment shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials. In addition, loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water, and barges or hoppers should under no circumstances be filled to a level which shall cause the overflowing of materials or polluted water during loading or transportation	N/A
	Storage, Collection and Transport of Waste	
E3	Minimise windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.	С
	Obtain the necessary waste disposal permits from the appropriate authorities, if they are required, in accordance with the Waste Disposal Ordinance (Cap.354), Waste Disposal (Chemical Waste) (General) Regulation (Cap.354), the Crown Land Ordinance (Cap 28), Dumping at Sea Ordinance (Cap 466) and Work Branch Technical Circular No. 22/92, Marine Disposal of Dredged Mud.	С
	Disposal of waste at Licensed sites;	С
	Develop procedures such as a ticketing system to facilitate tracking of marine mud and chemical waste, and to ensure that illegal disposal does not occur;	С
	 Segregate and sort the waste materials into 3 categories: public fill (e.g. concrete and rubble) for re-use on-site or disposal at a public filling area; re-use and/or recycling waste (e.g. steel and other metals); waste which cannot be re-used and/or recycled (e.g. wood, glass and plastic) for landfill disposal. The sorting process shall be carefully monitored to avoid missing of the 3 categories. Different types of wastes shall be stockpiled and stored in different containers or skips to enhance re-use or recycling of materials and their proper disposal. 	С
	Maintain records of the quantities of wastes generated and disposed off-site for each category of waste.	С

EM&A Log Ref.	Mitigation Measures	Implementation Status
E4	Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes	С
	LAND CONTAMINATION	
F1	No land Contamination mitigation measures are required during the construction phase.	N/A
	MARINE ECOLOGY	
G1	All percussive piling works shall be conducted on reclaimed land to avoid noise impact to marine mammals	N/A
G2	All construction related vessels shall approach the extension site from the north and via the East Lamma Channel to avoid disturbance to the finless porpoise	N/A
G3	Rubble mound seawall to the south and west edges of the reclamation to enhance recolonisation of marine organisms	N/A
G4	Artificial Reefs of a volume not less than 400 m ³ shall be deployed in a location to be decided upon consultation with the Director of Agriculture and Fisheries to serve the purpose of an Additional Habitat Enhancement Measure.	N/A
	FISHERIES	
H1	No Fisheries-specific mitigation measures are required during the construction phase.	N/A
	RISK ASSESSMENT	
I1	No risk mitigation measures are required during the construction phase.	N/A

I.3. Power Station – Unit L9 Electrical Erection (Part B of EIA Report)

Table I.3 Construction Phase Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	AIR QUALITY	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	• the haul roads shall be sprayed with water to keep the entire road surface wet.	С
	the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.	N/A
	the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	N/A
A2	For the concrete batching plant, the following control measures are recommended:	
	• loading, unloading, handling, transfer or storage or any dusty materials shall be carried out in a totally enclosed system.	N/A
	The materials which may generate airborne dust emissions shall be wetted by water spray system.	N/A
	All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.	N/A
	All conveyor transfer points shall be totally enclosed.	N/A
	WATER QUALITY	
B1	The following configurations and maximum rates of dredging shall be allowed:	
	3 large grab dredgers and 1 small grab dredger operating concurrently, each with rates of working of 12,000 m³ day⁻¹ and 8,000 m³ day⁻¹ respectively. During the flood phase of the tidal cycle the total number of large dredgers working shall be reduced by one, while during the ebb phase of the tidal cycle no reductions in the total number of dredgers shall be required.	N/A
	• 1 trailer dredger with a rate of working of 8,000 m ³ day ⁻¹ , and 2 large grab dredgers, each with rates of working of 12,000 m ³ day ⁻¹	N/A
B2	Silt curtains shall be installed on the eastern, southern and north western sides of the reclamation site during dredging for the reclamation construction. This is a required mitigation measure for the construction works and shall be implemented prior to the commencement of bulk dredging.	N/A
В3	As a necessary operational constraint combined bulk dredging and sand filling for site formation shall not be permitted at any time. In addition, sand filling for site platform shall take place behind constructed sea walls which pierce the water surface.	N/A
B4	HEC shall ensure design to divert all storm drains away from Hung Shing Ye Bay.	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
B5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm.	N/A
B6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented:	N/A
	 reducing the number of dredgers working at any one time; reducing the rate of working of the dredgers; temporary suspension of operations; phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle. 	
В7	In addition to the above specific measures the following general working procedures shall be adopted.	
	fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;	N/A
	the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A
	barges shall be loaded carefully to avoid splashing of material;	N/A
	all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;	N/A
	all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;	N/A
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A
	"rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A
	the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.	N/A
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels.	N/A
	NOISE	
C1	General noise mitigation measures shall be employed at all work sites throughout the construction phase.	С
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PMEs to less sensitive time periods.	С
C3	Mitigate against night time noise from dredging equipment, with silencers or mufflers.	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
	LANDSCAPE & VISUAL IMPACTS	
D1	The following mitigation measures shall be allowed for landscape and visual improvement:	
	Use rubble mound seawall along south and west edges of the reclamation to provide a more natural look.	N/A
	Break the mass of main buildings by varying the height/division into smaller units.	N/A
	Plant trees and vegetation for screening.	N/A
	Adopt colour scheme to blend the buildings into the scenery.	N/A
	WASTE MANAGEMENT	
E1	HEC to submit a Waste Management Plan for the construction phase to EPD. The Plan shall be verified by the IEC and shall describe the arrangements for avoidance, reuse, recovery and recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities and shall take into account the recommendations of the EIA report.	С
	Dredging Waste	
E2	All vessels for marine transportation of dredged sediment shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials. In addition, loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water, and barges or hoppers should under no circumstances be filled to a level which shall cause the overflowing of materials or polluted water during loading or transportation	N/A
	Storage, Collection and Transport of Waste	
E3	Minimise windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.	С
	Obtain the necessary waste disposal permits from the appropriate authorities, if they are required, in accordance with the Waste Disposal Ordinance (Cap.354), Waste Disposal (Chemical Waste) (General) Regulation (Cap.354), the Crown Land Ordinance (Cap 28), Dumping at Sea Ordinance (Cap 466) and Work Branch Technical Circular No. 22/92, Marine Disposal of Dredged Mud.	С
	Disposal of waste at Licensed sites;	С
	Develop procedures such as a ticketing system to facilitate tracking of marine mud and chemical waste, and to ensure that illegal disposal does not occur;	С
	 Segregate and sort the waste materials into 3 categories: public fill (e.g. concrete and rubble) for re-use on-site or disposal at a public filling area; re-use and/or recycling waste (e.g. steel and other metals); waste which cannot be re-used and/or recycled (e.g. wood, glass and plastic) for landfill disposal. The sorting process shall be carefully monitored to avoid missing of the 3 categories. Different types of wastes shall be stockpiled and stored in different containers or skips to enhance re-use or recycling of materials and their proper disposal. 	С
	Maintain records of the quantities of wastes generated and disposed off-site for each category of waste.	С

EM&A Log Ref.	Mitigation Measures	Implementation Status
E4	Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes	С
	LAND CONTAMINATION	
F1	No land Contamination mitigation measures are required during the construction phase.	N/A
	MARINE ECOLOGY	
G1	All percussive piling works shall be conducted on reclaimed land to avoid noise impact to marine mammals	N/A
G2	All construction related vessels shall approach the extension site from the north and via the East Lamma Channel to avoid disturbance to the finless porpoise	N/A
G3	Rubble mound seawall to the south and west edges of the reclamation to enhance recolonisation of marine organisms	N/A
G4	Artificial Reefs of a volume not less than 400 m ³ shall be deployed in a location to be decided upon consultation with the Director of Agriculture and Fisheries to serve the purpose of an Additional Habitat Enhancement Measure.	N/A
	FISHERIES	
H1	No Fisheries-specific mitigation measures are required during the construction phase.	N/A
	RISK ASSESSMENT	
I1	No risk mitigation measures are required during the construction phase.	N/A

I.4. Transmission System – Civil Works (Part C of EIA Report)

Table I.4 Construction Phase Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	AIR QUALITY	
J1	To mitigate potential construction related dust impacts, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	all debris or materials shall be either covered or stored in a debris sheltered collection area;	С
	• prior to any material handling, all dusty material shall be sprayed with water.	С
	WATER QUALITY	
K1	No mitigation measures are considered necessary.	N/A
	NOISE	
L1	N4-N5 Cable Route Selection and use of quiet PMEs, or use of modest source noise controls with standard PMEs	С
L2	N5 Landing Point Selection and use of quiet PMEs (particularly the barge-mounted crane), or use of comparably effective source noise controls with the PMEs;	С
L3	For non-percussive piling – use of equipment with a SWL of 113 dB(A) or less if there is no programme overlap of the piling with the site formation works, otherwise offsetting source noise controls shall be required.	N/A
L4	For percussive piling – use of equipment with a SWL of 115 dB(A) or less, otherwise, offsetting source noise controls shall be required.	N/A
L5	If non-percussive piling and site formation activities are to be carried out simultaneously then careful equipment selection and source controls shall be required for both activities to reduce each by approximately 3 dB(A).	N/A
	MARINE ECOLOGY	
M1	Construction of rubble mound seawalls for the landing and launching points at Lamma Island.	С
	FISHERIES	
N1	No fisheries-specific mitigation measures are required during the construction phase	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
	TERRESTRIAL ECOLOGY	
	The following mitigation measures shall be implemented to protect the important plant species and minimizing disturbance to the surrounding environment through good construction practice, as recommended below:	
O1	Avoidance of impact on the uncommon and rare plant species <i>Celtis biondii</i> , <i>Pteris dispar</i> and <i>Ardicia pusilla</i> , and the restricted plants <i>Vitis balansaeana</i> , <i>Pterospermum heterophyllum</i> and <i>Rhapis excelsa</i> , by locating the landing points N4 & N5 and the connecting cable trough in areas outside where these plant species are located (Figures 9.4b & 9.4c, Part C, Volume 2), as well as close monitoring of the construction activity.	С
O2	The erection of fences along the boundary of construction sites before the commencement of works to prevent tipping, vehicle movements, and encroachment of personnel into adjacent wooded areas, particularly where the rare, uncommon and restricted plant species are located.	С
О3	Regular checking to ensue that the work site boundaries are not exceeded and that no damage occurs to surrounding areas.	С
O4	The prohibition and prevention of open fires within the work site boundary during construction and provision of temporary fire fighting equipment in the work area during construction.	С
	LANDSCAPE AND VISUAL IMPACT	
P1	The visual impact of the Cable Landing Point I1 is considered negligible as it would have similar appearance as the existing sea wall and therefore no mitigation is required.	N/A
P2	The proposed landing points N2, N4 and N5, the following landscaping mitigation measures are recommended to minimize the potential impacts:	
	• Although the size of the landing points varies (N2 is 26x70m, N4 is 27x65m and N5 is 33x56m), each has a finished platform level at +6.00mPD. With the Low Water Level at +1.00mPD, the platforms shall be a maximum of some 5m above the water level at low tide. In order to minimize the visual impact of the landing points, the exposed sides of the platforms and the cable slipways shall be screened with irregularly arranged boulders of varying sizes to mimic the natural coastline features. The horizontal platform surface shall be finished with natural materials such as stone pavings or tiles.	С
	• The cable trough in between Landing Points N4 and N5 is 5.5m wide and 260m long. The walkway that is formed above the cable trough shall be shielded by boulders (or, where practicable, shrub planting) from potential viewers from the sea and horizontal surfaces be finished with natural materials such as stone paving.	N/A
	Appropriate compensatory landscaping shall be provided for any disruption to existing vegetation to blend in with the surrounding setting.	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
	 As a planning gain, parts of the landing points N4 and N5 and the cable trough between the landing points can be used for amenity and recreational purposes. Some low maintenance fixtures, matching with the natural environment, shall be built or placed on the landing points for public use. HEC shall resolve any management and maintenance requirements of the proposed mitigation measures during the processing stage of wayleave agreements. If required by Government, HEC commit to bear the management and maintenance responsibilities of these facilities. 	N/A

Remarks:

Compliance with mitigation measure Non-compliance with mitigation measure Not Applicable C -NC -N/A -C

I.5. Transmission System – Cable Laying (Part C of EIA Report)

 Table I.5
 Construction Phase Mitigation Measures and their Implementation

J1	AID OUALITY	
	AIR QUALITY	
	To mitigate potential construction related dust impacts, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	• all debris or materials shall be either covered or stored in a debris sheltered collection area;	N/A
	• prior to any material handling, all dusty material shall be sprayed with water.	N/A
	WATER OUALITY	1
	WATER QUALITY	NT/A
K1	No mitigation measures are considered necessary.	N/A
		T
	NOISE	
	N4-N5 Cable Route Selection and use of quiet PMEs, or use of modest source noise controls with standard PMEs	N/A
	N5 Landing Point Selection and use of quiet PMEs (particularly the barge-mounted crane), or use of comparably effective source noise controls with the PMEs;	N/A
	For non-percussive piling – use of equipment with a SWL of 113 dB(A) or less if there is no programme overlap of the piling with the site formation works, otherwise offsetting source noise controls shall be required.	N/A
	For percussive piling – use of equipment with a SWL of 115 dB(A) or less, otherwise, offsetting source noise controls shall be required.	N/A
	If non-percussive piling and site formation activities are to be carried out simultaneously then careful equipment selection and source controls shall be required for both activities to reduce each by approximately 3 dB(A).	N/A
	MARINE ECOLOGY	
	Construction of rubble mound seawalls for the landing and launching points at Lamma Island.	N/A
	FISHERIES	
	No fisheries-specific mitigation measures are required during the construction phase	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
	TERRESTRIAL ECOLOGY	
	The following mitigation measures shall be implemented to protect the important plant species and minimizing disturbance to the surrounding environment through good construction practice, as recommended below:	
O1	Avoidance of impact on the uncommon and rare plant species <i>Celtis biondii</i> , <i>Pteris dispar</i> and <i>Ardicia pusilla</i> , and the restricted plants <i>Vitis balansaeana</i> , <i>Pterospermum heterophyllum</i> and <i>Rhapis excelsa</i> , by locating the landing points N4 & N5 and the connecting cable trough in areas outside where these plant species are located (Figures 9.4b & 9.4c, Part C, Volume 2), as well as close monitoring of the construction activity.	N/A
O2	The erection of fences along the boundary of construction sites before the commencement of works to prevent tipping, vehicle movements, and encroachment of personnel into adjacent wooded areas, particularly where the rare, uncommon and restricted plant species are located.	N/A
О3	Regular checking to ensue that the work site boundaries are not exceeded and that no damage occurs to surrounding areas.	N/A
O4	The prohibition and prevention of open fires within the work site boundary during construction and provision of temporary fire fighting equipment in the work area during construction.	N/A
	LANDSCAPE AND VISUAL IMPACT	
P1	The visual impact of the Cable Landing Point I1 is considered negligible as it would have similar appearance as the existing sea wall and therefore no mitigation is required.	N/A
P2	The proposed landing points N2, N4 and N5, the following landscaping mitigation measures are recommended to minimize the potential impacts:	
	• Although the size of the landing points varies (N2 is 26x70m, N4 is 27x65m and N5 is 33x56m), each has a finished platform level at +6.00mPD. With the Low Water Level at +1.00mPD, the platforms shall be a maximum of some 5m above the water level at low tide. In order to minimize the visual impact of the landing points, the exposed sides of the platforms and the cable slipways shall be screened with irregularly arranged boulders of varying sizes to mimic the natural coastline features. The horizontal platform surface shall be finished with natural materials such as stone pavings or tiles.	N/A
	• The cable trough in between Landing Points N4 and N5 is 5.5m wide and 260m long. The walkway that is formed above the cable trough shall be shielded by boulders (or, where practicable, shrub planting) from potential viewers from the sea and horizontal surfaces be finished with natural materials such as stone paving.	N/A
	 Appropriate compensatory landscaping shall be provided for any disruption to existing vegetation to blend in with the surrounding setting. 	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
	 As a planning gain, parts of the landing points N4 and N5 and the cable trough between the landing points can be used for amenity and recreational purposes. Some low maintenance fixtures, matching with the natural environment, shall be built or placed on the landing points for public use. HEC shall resolve any management and maintenance requirements of the proposed mitigation measures during the processing stage of wayleave agreements. If required by Government, HEC commit to bear the management and maintenance responsibilities of these facilities. 	N/A

Remarks:

Compliance with mitigation measure Non-compliance with mitigation measure Not Applicable C -NC -N/A -C

Appendix J

Tentative Construction Programme

						Sep '0				Oct '			,	Nov		_
ID 1	Activities	Duration	Start	Finish	27	03	10	17	24	01	08	15	22	29 (5 12	
1	Main Station Bldg. and HRSG	914 days	02 Apr '04	02 Oct '06												
2	Pile head treatment	29 days	02 Apr '04	30 Apr '04												
3	Earthing system	30 days	11 May '04	09 Jun '04												
4	Pile cap and tie beam	110 days	16 May '04	02 Sep '04												
5	1/F construction	60 days	26 Dec '04	23 Feb '05												
6	2/F Construction	90 days	01 Dec '04	28 Feb '05												
7	3/F Construction	45 days	15 Jan '05	28 Feb '05												
8	4/F Construction	45 days	01 Feb '05	17 Mar '05												
9	5/F Construction	45 days	02 Mar '05	15 Apr '05												
10	R/F Construction	45 days	17 Mar '05	30 Apr '05												
11	Deferred works - East	50 days	21 Apr '05	09 Jun '05												
12	Deferred works - West	76 days	17 May '05	31 Jul '05												
13	Deferred works - South	45 days	15 Oct '05	28 Nov '05												
14	Deferred works - Air Inlet	50 days	01 Jan '06	19 Feb '06												
15	Deferred works - North	25 days	10 Feb '06	06 Mar '06												
16	Deferred works - Tiling at +16.15	60 days	04 Aug '06	02 Oct '06												
17	Deferred works - Firewall at Transformer Bay	46 days	20 Jul '05	03 Sep '05												
18	Deferred works - Metal Fence at Transformer Bay	45 days	01 Mar '06	14 Apr '06												
19																

3-Month Programme

Page 1

Revision: -

_	A		24	
D	Activities	Duration	Start	Finish
20	275kV Bldg.	651 days	03 May '04	12 Feb '06
21	Pile head treatment	22 days	03 May '04	24 May '04
22	Earthing system	30 days	11 May '04	09 Jun '04
23	Pile cap and tie beam	45 days	16 May '04	29 Jun '04
24	1/F construction	90 days	01 Jun '04	29 Aug '04
25	2/f construction	90 days	30 Aug '04	27 Nov '04
26	3/f construction	45 days	28 Nov '04	11 Jan '05
27	Roof construction	45 days	12 Jan '05	25 Feb '05
28	Surrounding Cable Trench	120 days	15 Apr '05	12 Aug '05
29	Surrounding External works	60 days	15 Dec '05	12 Feb '06
30				
31	No. 4 Chimney	664 days	30 Jun '04	24 Apr '06
32	Pile head treatment	30 days	30 Jun '04	29 Jul '04
33	Pile cap construction	63 days	30 Aug '04	31 Oct '04
34	Superstructure construction	300 days	01 Nov '04	27 Aug '05
35	Steel and Internal Works	180 days	28 Aug '05	23 Feb '06
36	Remaining Works	60 days	24 Feb '06	24 Apr '06
37				
38	Road & Drainage Works	793 days	05 Jul '04	05 Sep '06

Lamma Power Station Extension - Unit 9 Civil and Building Work 3-Month Programme

Scheduled Activity

			_			Sep				Oct				Nov '		
ID	Activities	Duration	Start	Finish	27	03	3 10	0 17	7 24	01	08	15	22	29 (5 12	1
39	Along Loading and Unloading Area	88 days	05 Jul '04	30 Sep '04												
44	North Seafront Road	630 days	09 Jul '04	30 Mar '06												
50	East Bridge Road	579 days	28 Oct '04	29 May '06												
56	Chimney Road	513 days	08 Nov '04	04 Apr '06												
62	Other Areas	99 days	30 May '06	05 Sep '06												
63																
64	C W Culvert System	1112 days	15 Aug '04	31 Aug '07												
65	Outlet Section	392 days	15 Aug '04	10 Sep '05												
78	Inlet Section	152 days	13 Oct '04	13 Mar '05												
85																
86	C W Pump Equipment Room	115 days	15 Jul '05	06 Nov '05												
91																
92	Pipe & Cable Rack	296 days	23 May '05	14 Mar '06												
97																
98	Gas Receiving Station	236 days	15 Jul '05	07 Mar '06												
103																
104	Work in DLP including rectification work	360 days	06 Sep '06	31 Aug '07												

Lamma Power Station Extension - Unit 9 Civil and Building Work 3-Month Programme

Scheduled Activity

3 month work schedule for Lamma power station extension Unit-9

Item	Description	Start	Finish		Sep			Oct			Nov	
	•			1 1	0 2	0 3	0 1	0 2	0 3	0 1	0 2	0 31
1	HRSG erection	28 Mar,05	Finish									
_												
2	Steam turbine erection	01 Mar,05	Finish									
	Gas turbine erection	45 Mar 05	Finish									
3	Gas turbine erection	15 Mar,05	FINISN									
4	Generator erection	15 Mar,05	Finish									
	Contract crossor	10 Mar,00	1 1111011									
5	Condenser erection	15 Feb,05	Finish									
6	Aux equipment erection	01 Apr,05	Finish									
7	Air duct / Inlet filter	25 Apr,05	Finish									
	HRSG inlet duct	04 May 05	Finials									
8	HRSG Inlet duct	21 May, 05	Finish									
a	Piping support / Piping erection	01 Jun,05	Finish									
	Tiping support? Tiping election	01 0011,00	1 1111311									
10	Insulation work	23 Feb,05	Finish									
		,										
11	Platform installation	11 Apr, 05	Finish									
12	Pipe rack installation	26 Aug, 05	Finish									
40	Total and the Control of Control	00.4 . 05	Et . t . t									
13	Intake aux equipment installation	08 Aug, 05	Finish									
1/	Bop piping installation	08 Aug, 05	Finish									
14	Dop piping installation	00 Aug, 03	1 1111311									
15	GRS piping installation	20 Dec, 05	15 Nov,06									
	1 1 3		- 700									

CONTRACT NO. 04/9013 LAMMA POWER STATION EXTENSION UNIT 9 COMPLETE ERECTION, INSPECTION, TESTING & COMMISSIONING OF POWER BLOCK ELECTRICAL, INSTRUMENTATION AND CONTROL FACITILITIES

3 MONTH PROGRAMME (SEPTEMBER 2006 TO NOVEMBER 2006)

						Septer	nber			Oc	tober			No	ovembei	•
ID	Task Name	Start	Finish	1/9	8/9	15/9	22/9	28/9	5/10	12/10	19/10	26/10	3/11	10/11	17/11	24/11
1																
2	L9 Electrical Erection	Fri 1/9/06	Fri 15/9/06													
3	Cable Tray Cover Installation	Fri 1/9/06	Fri 15/9/06													

SANKO SETSUBI CO., LTD.

78.5	Les CBW CBW	WASHING	5/5/1/2/2/3		Septen			October	certa cue consen		ovembe		
ID	Task Name	Start	Finish	27/8	3/9	10/9 17/9	24/9	1/10 8/1	0 15/10 2	22/10 29/10	5/11	12/11	19/11 26/
1	Civil Works												
2													
3	Site Procession & Preparation Work	Tue 25/5/04	Mon 12/7/04										
4													
5	Within Lamma Power Station												
6	Construction of Cable Duct	Mon 4/10/04	Thu 29/9/05										
7	Construction of Cable Duct North Portal	Mon 12/7/04	Tue 31/1/06										
8	Backfilling Work inside Cable Duct after Cable Laying	Mon 1/5/06	Wed 31/5/06										
9													
10	Yung Shue Wan South (N2)												
11	Construction of Cable Landing Point	Mon 12/7/04	Sat 31/12/05										
12	Construction of Cable Duct South Portal	Mon 12/7/04	Sat 31/12/05										-
13	Backfilling Work at Landing Point after Cable Laying	Thu 1/6/06	Wed 15/11/06	ZZZ	777	777777	7777	77777	77777	777777	7777	77	
14													
15	Pak Kok San Tsuen (N4)												
16	Construction of Cable Landing Point	Tue 24/8/04	Fri 14/10/05										
17	Construction of Cable Trenches	Sat 30/7/05	Sat 31/12/05										
18	Construction of Cable Duct	Thu 25/11/04	Fri 30/9/05										
19	Construction of Cable Duct South Portal	Wed 25/8/04	Mon 16/1/06	1									
20	Backfilling Work inside Cable Duct after Cable Laying	Sat 1/4/06	Sun 30/4/06										
21	Backfilling Work at Cable Trenches after Cable Laying	Thu 1/6/06	Sat 30/9/06	ZZZ	777	TTTTT	TIT						
22	Backfilling Work at Landing Point after Cable Laying	Thu 1/6/06	Thu 30/11/06	ZZZZ	777	777777	777	22222		77777	7777	777	77777
23		1000.3600002	32/4/2009/2012/2013										
24	Pak Kok Tsui (N5)												
25	Construction of Cable Landing Point	Mon 12/7/04	Wed 14/9/05										
26	Construction of Cable Duct North Portal	Mon 12/7/04	Sat 31/12/05	+									
27	Backfilling Work at Landing Point after Cable Laying	Mon 15/5/06	Sun 31/12/06	1111	1111	7777777	1111	177777	11111	77777	LLLL	1111	11111

Additional Transmission System for Lamma Power Station 275kV Cable Route from Lamma Island to Cyberport 3-Month Programme (Rev. N)

Task
Split
Progress
Project Summary
Project Summary
Page 1

J-Power Systems Corp.

Contract No.: 01/9046

Project: Installation of 275kV/Communication Submarine and Land Cables with Accessories for Lamma - Cyberport Circuits

CONSTRUCTION SCHEDULE (FORECAST FOR 3 MONTHS)

Issue: 27 Date: 31-Aug-06

Dete	I					80	ntom	ber, 2	2006														0	ctobe	or 20	006							1						NI	oven	nhor	. 200	26						_
Date Item	1 2 3	141	5 6 7	8 0	10 11		•	16 17 1		0 21 2	22 23 '	24 25	26 27	7 28 2	0 30 3	21 1	2 3	1 5	6 7	7 Ω	9 10	11 13					20 21	22 23	24 25	26 2	7 28 29	30 31	1 2	3 /	1 5	6 7	8 0	10 11				•		20 21	22 23	24 25	26 27	7 28 29	03
Dredging/Excavation of Submarine		9 4 3	5 6 7	0 9	10 11	12 13	14 15	16 17	10 19 2	0 21 2	22 23 4	24 25	20 21	20 2	9 30 3	0111	2 3	4 3	0 /	/ 0	9 10	11 12	2 13 1	14 15	16 17	10 19	20 21	22 23	24 20	20 21	20 28	30 3	1 2	3 2	5	0 /	0 9	10 11	1 12 1	13 14	15 16	0 17 10	5 19 2	20 21	22 23	24 25	20 21	20 29	930
1 Cable Trench outside N2 Landing Point (Completed)																																																	
Dredging/Excavation of Submarine 2 Cable Trench outside N4 Landing Point																																																	
(Completed) Dredging/Excavation of Submarine										+																																						+	\downarrow
3 Cable Trench outside N5 Landing Point (Completed)																																																	
Dredging/Excavation of Submarine 4 Cable Trench outside I1 Landing Point (Completed)																																																	
Removing Seabed Obstructions and subsequently backfilling between N2 & N4 Landing Points (Completed)																																																	
Sweeping on the seabed between N5 & I1 Landing Points (Completed)																																																	
Sweeping on the seabed between N2 & N4 Landing Points (Completed)																																																	
Preparation & Installation of Submarine 8 Cables between N5 & I1 (Completed)																																																	
Preparation & Installation of Submarine Cables between N2 & N4 (Completed)																																																	
Backfilling & Cable Protection outside National Landing Point (Completed)	2																																																
Backfilling & Cable Protection outside Notice National Point (Completed)	4																																																
Backfilling & Cable Protection outside National Point (Completed)	5																																																
Backfilling & Cable Protection outside I1 Landing Point (Completed)																																																	
lf necessary, additional Backfilling for the underwater trench at I1, N2, N4 and N5	Э																																																<u></u>
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