Appendix J

Site Audit Summary

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Site Formation and Dredging Weekly Site Inspection Checklist

Inspection of	late 4/7/2001 Time 945 am Inspecte	ed By				WAI KNOWIG
Site	LMX-SITE FORMATION	ι			KU	WALL CONTROL
Weather						
Condition	Sunny Fine Overcast Hazy		Driza	ele [Ra	in Storm
Temperatu	re 29 °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 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 Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements	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?		/			
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?	\checkmark				
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: Al	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?					
	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?					

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?					
	Transfer of dusty materials using a belt conveyor system	'	<u> </u>		'	
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?	\checkmark		-		
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?					
Cap311O	Is open burning prohibited?		/			
Cap311	Is black smoke emission from plant/equipment avoided?		$\sqrt{}$			

WASTE/CHEMICAL WASTE MANAGEMENT

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredged Materials					
WMP: 3.3/ EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mtid and have them available for inspection?					
WMP:5.2.5/ EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?		/	1		
WMP:5.2.3/ EM&A: E2	Are the bottom openings of marine vessels fitted with tight fitting seals to prevent leakage?		\checkmark			
WMP:5.2.3 /EM&A: E2	Are loading of barges and hoppers carried out in a controlled environment so that splashing of dredged material into surrounding water is prevented?		\checkmark			
WMP: 5.2.3	Are overfilling of barges and hoppers prevented?					//
EM&A: E3	Are wastes disposed of at licensed sites?					
	Construction Waste and Excavated Materials	•				•
WMP:3.3/ 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:5.3.3 & 5.4.2	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?	/				-
WMP 5.3.1 5.4.1	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?					
WMP5.3.1	Are the used formworks reused as far as possible before being disposed of in a landfill site?	/				
V MP 5.4.1	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	$\sqrt{}$				
EM&A: E3	Are wastes disposed of at licensed sites?					
	General refuse			•		
WMP 5.5.4	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?					
WMP 5.5.2	Is general refuse stored within receptacles and separated from chemical wastes?	1				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks				
WMP 5.5.2	Is the refuse disposed of regularly and properly?		,							
WMP 5.5.2 5.5.3	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)?		,							
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?	V								
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;									
	(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
	Dredging activities	·	l		1	
VEP 3.3 /EM&A: B1	Is the configuration of dredging in accordance with the EP's requirements?			/		
EP 3.3 /EM&A: B1	Is the number of large dredgers in operation reduced by 1 during the flood phase of the tidal cycle?		\checkmark			
VEP 3.2 /EM&A: B2	Are silt curtains installed at appropriate locations?		$\overline{\ }$			
DNRP:4.5	Are silt curtains inspected on a monthly basis					
VEP 3.4/ EM&A B3	Are dredging and sand filling for site formation prohibited to take place at the same time?	/	•			
DNRP 4.3/ EM&A B3	Is sand filling for site formation carried out behind constructed sea walls, which pierce the sea surface?	/				

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: B5	Has sand-fill at the seawall trench been placed by controlled pumping with discharge below original sea-bed level during seawall construction?	/	,			
EM&A: B7	Are fully-enclosed or watertight grabs used to minimize loss of sediment during dredging?		\			
EM&A: B7	Are the descent speed of grabs controlled to minimize the impact speed?		\checkmark	,		
EM&A: B7	Are the barges loaded carefully to avoid splashing of material?					
EM&A: B7	Are barges fitted with tight bottom seals to prevent leakage during loading and transportation?		<i></i>	•		
EM&A: B7	Are barges filled to a level, which ensures that materials do not spill over during loading and transportation?			,		
EM&A: B7	Is adequate freeboard maintained to ensure the decks are not washed by wave motion?		√.			
EM&A: B7	Is the speed of trailer dredgers under control to avoid stirring up of sea bed sediment?					
EM&A: B7	Is "rainbowing" sand fill from trailer dredgers prohibited?					
EM&A: B7	Is the water within and adjacent to the dredging site and along the route to the disposal site clear of visible foam, oil, grease or litter or other objectionable matter?	•				
	Routing of construction related marine vessels	<u> </u>			!	L
DNRP 3	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"?					

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"?		/	r		
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: Cl	Are working programmes schedu	led to minimize noise nuisance?		\checkmark			
EM&A: C1	Are construction works or equiprinuisance?	nent sited to minimize noise					
EM&A: C1	Are all plant and equipment main conditions?	tained 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 or nuisance?						
EM&A: C2	To mitigate construction noise du holidays, is either one of the folloa) Mitigation by portable noise b) Rescheduling of some power sensitive time periods?	wing measures adopted?		/			
EM&A: C3	To mitigate night time construction 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			/			
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?						
	Traffic			Const	ructio	n activ	ities inside the
	Major noise source(s)	Construction activities outside the site					

Abbreviation

VEP: WMP: Varied Environmental Permit

Waste Management Plan

Cap311R: Cap311O: Cap311: APC (Construction Dust) Regulation APC (Open Burning) Regulation Air Pollution Control Ordinance DNRP: Dredging & Reclamation Plan

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

NCO: Noise Control Ordinance WDO: Waste Disposal Ordinance

Unk: Unknown

Remark		
NIL	 	

Signatures

ET Member

Contractor's Representative

(Name in Block letters:

CTANIEY CHAN

HUI WAI KHONG

12th June 2001

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Site Formation and Dredging Weekly Site Inspection Checklist

Inspection of	late [11 / 1/200] Time 4:15 pm Inspect	ed By			C TEV	CHANI RAN LEUNG
Site	LMX-SITE FORMATION	1	Conc		154	HAN TENNE
Weather						
Condition	Sunny Fine Overcast Hazy		Driz	zle [Ra	in Storr
Temperatu	re 32 °C Humidity High Modera	e	Lov	,		
Wind	Calm Light Breeze Strong					
ĠENERAL					٠	
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?		\checkmark			
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?					
AIR QUALI	Checklist Condition	N/A	Yes	No	Unk	Remarks
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?	\checkmark				
	Construction Sites	ا———ا				
EM&A:	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?					
	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?					

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?	/				
	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?	\(\)				
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?		ľ			
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				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: 3.3/ EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?	: 4	/		,	
WMP:5.2.5/ EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?		/		_	
WMP:5.2.3/ EM&A: E2	Are the bottom openings of marine vessels fitted with tight fitting seals to prevent leakage?		\checkmark			
WMP:5.2.3 /EM&A: E2	Are loading of barges and hoppers carried out in a controlled environment so that splashing of dredged material into surrounding water is prevented?		/			
WMP: 5.2.3	Are overfilling of barges and hoppers prevented?					
EM&A: E3	Are wastes disposed of at licensed sites?	-	./			
	Construction Waste and Excavated Materials	1				
WMP:3.3/ 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:5.3.3 & 5.4.2	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?					
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WMP5.3.1	Are the used formworks reused as far as possible before being disposed of in a landfill site?					
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EM&A: E3	Are wastes disposed of at licensed sites?					
	General refuse	V		1		
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WMP 5.5.2	Is general refuse stored within receptacles and separated from chemical wastes?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks		
WMP 5.5.2	Is the refuse disposed of regularly and properly?							
WMP 5.5.2 5.5.3	Are burning of refuse at site and dumping at sea prohibited?		\checkmark					
	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)?	/						
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"?	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:	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;							
	(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
	Dredging activities					
VEP 3.3 /EM&A: B1	Is the configuration of dredging in accordance with the EP's requirements?		/			
EP 3.3 /EM&A: B1	Is the number of large dredgers in operation reduced by 1 during the flood phase of the tidal cycle?		\checkmark			
VEP 3.2 /EM&A: B2	Are silt curtains installed at appropriate locations?					
DNRP:4.5	Are silt curtains inspected on a monthly basis					
VEP 3.4/ EM&A B3	Are dredging and sand filling for site formation prohibited to take place at the same time?					
DNRP 4.3/ EM&A B3	Is sand filling for site formation carried out behind constructed sea walls, which pierce the sea surface?					-

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: B5	Has sand-fill at the seawall trench been placed by controlled pumping with discharge below original sea-bed level during seawall construction?	/	/			
EM&A: B7	Are fully-enclosed or watertight grabs used to minimize loss of sediment during dredging?		/			
EM&A: B7	Are the descent speed of grabs controlled to minimize the impact speed?		√			
EM&A: B7	Are the barges loaded carefully to avoid splashing of material?					
EM&A: B7	Are barges fitted with tight bottom seals to prevent leakage during loading and transportation?		/			
EM&A: B7	Are barges filled to a level, which ensures that materials do not spill over during loading and transportation?		/	,		
EM&A: B7	Is adequate freeboard maintained to ensure the decks are not washed by wave motion?		A			
EM&A: B7	Is the speed of trailer dredgers under control to avoid stirring up of sea bed sediment?					
EM&A: B7	Is "rainbowing" sand fill from trailer dredgers prohibited?					
EM&A: B7	Is the water within and adjacent to the dredging site and along the route to the disposal site clear of visible foam, oil, grease or litter or other objectionable matter?		/			
	Routing of construction related marine vessels					•
DNRP 3	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"?		\(\langle \)			

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"?		/			
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	led to minimize noise nuisance?					
EM&A: C1	Are construction works or equipmousance?	nent sited to minimize noise					
EM&A: C1	Are all plant and equipment main conditions?	tained in good operating		/			
EM&A: C1/GP	Is idle equipment turned off or th	rottled down?	,	V			
EM&A: C1	Are methods of working devised nuisance?	and arranged to minimize noise		/			
EM&A: C1)	Are construction works carried or nuisance?	ut 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 powe sensitive time periods?	owing measures adopted?		/			
EM&A: C3	To mitigate night time construction equipped with silencers or muffle						
NCO	Are valid construction noise perminspection?	nits, if required, available for		/	,		
NCO	Are conditions of construction no relevant part(s) of the works impl			/			
NCO	Are valid noise emission labels fi held percussive breakers?	xed at air compressors and hand	/				
		Traffic		Const site	ructio	n activ	ities inside the
	Major noise source(s)	Construction activities outside the site		Other	·s		

Abbreviation

VEP: WMP: Cap311R:

Cap311O:

Cap311:

Varied Environmental Permit Waste Management Plan

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

DNRP: Dredging & Reclamation Plan EM&A: EM&A Manual (Construction Phase)

NCO: Noise Control Ordinance
WDO: Waste Disposal Ordinance

Unk: Unknown

Remark

NIL

Signatures

(Name in Block letters:

ET Member

(Name in Block letters:

Contractor's Representative

JERRAN LEUN

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Site Formation and Dredging Weekly Site Inspection Checklist

Inspection	date [8/7/200] Time [0.00 am Inspect	ed By	ET:	Sta	ley	Chan
Site	LMX-Site Formation		Cont	racto	r: Te	van Leury.
Weather						
Condition	Sunny Fine Overcast Hazy		Driz	zle [Ra	nin Storm
Temperatu	re 26 °C Humidity High Moderal	te _	Lov	,		
Wind	Calm Light Breeze Strong					
 GENERAL						1
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		Γ	· · · · ·		
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?		\checkmark			
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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?	\checkmark				
	Construction Sites	-				*************
EM&A: Al	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?					
	Stockpiling of dusty materials	_		1		
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
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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?	$\sqrt{}$				
	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?					
	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?	/				
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			1		I
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: 3.3/ EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?					
WMP:5.2.5/ EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?		/			
WMP:5.2.3/ EM&A: E2	Are the bottom openings of marine vessels fitted with tight fitting seals to prevent leakage?		1/			
WMP:5.2.3 /EM&A: E2	Are loading of barges and hoppers carried out in a controlled environment so that splashing of dredged material into surrounding water is prevented?			,		
WMP: 5.2.3	Are overfilling of barges and hoppers prevented?					
EM&A: E3	Are wastes disposed of at licensed sites?	<u> </u>			L	
	Construction Waste and Excavated Materials	.L				
WMP:3.3/ 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:5.3.3 & 5.4.2	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?					
WMP 5.3.1 5.4.1	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?					
WMP5.3.1	Are the used formworks reused as far as possible before being disposed of in a landfill site?					
WMP 5.4.1	Are the remaining unsuitable excavated materials disposed of at the public filling areas?	$\sqrt{}$				
EM&A: E3	Are wastes disposed of at licensed sites?					
	General refuse			1		
WMP 5.5.4	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?					
WMP 5.5.2	Is general refuse stored within receptacles and separated from chemical wastes?					· · · · · · · · · · · · · · · · · · ·

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks		
WMP 5.5.2	Is the refuse disposed of regularly and properly?							
WMP 5.5.2 5.5.3	Are burning of refuse at site and dumping at sea prohibited?		$\sqrt{}$					
	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)?							
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;							
- 11 - 11	(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
	Dredging activities					
VEP 3.3 /EM&A: B1	Is the configuration of dredging in accordance with the EP's requirements?			,		
EP 3.3 /EM&A: B1	Is the number of large dredgers in operation reduced by 1 during the flood phase of the tidal cycle?	1				Not applicable according to latest EP
VEP 3.2 /EM&A: B2	Are silt curtains installed at appropriate locations?					
DNRP:4.5	Are silt curtains inspected on a monthly basis					
VEP 3.4/ EM&A B3	Are dredging and sand filling for site formation prohibited to take place at the same time?					
DNRP 4.3/ EM&A B3	Is sand filling for site formation carried out behind constructed sea walls, which pierce the sea surface?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: B5	Has sand-fill at the seawall trench been placed by controlled pumping with discharge below original sea-bed level during seawall construction?	/				
EM&A: B7	Are fully-enclosed or watertight grabs used to minimize loss of sediment during dredging?					
EM&A: B7	Are the descent speed of grabs controlled to minimize the impact speed?		\/			
EM&A: B7	Are the barges loaded carefully to avoid splashing of material?	<u> </u>	Ž			
EM&A: B7	Are barges fitted with tight bottom seals to prevent leakage during loading and transportation?		_/	,		
EM&A: B7	Are barges filled to a level, which ensures that materials do not spill over during loading and transportation?		1			
EM&A: B7	Is adequate freeboard maintained to ensure the decks are not washed by wave motion?		✓			<u>.</u> :
EM&A: B7	Is the speed of trailer dredgers under control to avoid stirring up of sea bed sediment?		,			
EM&A: B7	Is "rainbowing" sand fill from trailer dredgers prohibited?		<i>-</i>			
EM&A: B7	Is the water within and adjacent to the dredging site and along the route to the disposal site clear of visible foam, oil, grease or litter or other objectionable matter?		\checkmark	^		
	Routing of construction related marine vessels					
DNRP 3	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"?			/		

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"?		/	,		
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 schedul			\checkmark			
EM&A: C1	Are construction works or equipmousance?	nent sited to minimize noise					
EM&A: C1	Are all plant and equipment main conditions?	tained in good operating		\checkmark			
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			ł		
EM&A: C1)	Are construction works carried or nuisance?	it in a manner to minimize noise		· /		:	
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 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	oise permits, if any, for the emented accordingly?		/			
NCO	Are valid noise emission labels fi held percussive breakers?	xed at air compressors and hand	1				
		Traffic		Const	ructio	n activ	vities inside the
	Major noise source(s)	Construction activities outside the site		Other	rs		

Abbreviation

VEP: WMP: Varied Environmental Permit

Waste Management Plan

Cap311R: Cap311O: Cap311: APC (Construction Dust) Regulation APC (Open Burning) Regulation Air Pollution Control Ordinance DNRP: Dredging & Reclamation Plan

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

NCO: Noise Control Ordinance WDO: Waste Disposal Ordinance

Unk: Unknown

Remark		
NIL		
Signatures		
ET Member	Contractor's Representative	

(Name in Block letters:

(Name in Block letters:

TERRAN LEUNG

The Hongkong Electric Co. Ltd. Lamma Power Station Extension – Site Formation and Dredging Weekly Site Inspection Checklist

Inspection	date 26/7/2001 Time 1.00 pm Inspect	ted By	ET:		ley (Than Evvan Leuno
Site	LMX-Site Formation		Cont	racto	or: Je	wan leung
Weather						
Condition	Sunny Fine Overcast Hazy		Driz	zle [√ R	ain Storm
Temperat	ure 24 °C Humidity 1 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?					
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
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?		\checkmark			
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?	\checkmark				
	Construction Sites	<u>.</u> Ь			l	
EM&A: Al	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?	/				
	Stockpiling of dusty materials	<u>-</u> L			l	
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?					
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			<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?	\\ \land{1}				
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				
	Transfer of dusty materials using a belt conveyor system			·		<u> </u>
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?	V				
	Concrete batching plant	. <u></u>				·
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:	Are all the conveyor transfer points totally enclosed?	1 7		 		<u> </u>

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Miscellaneous	<u> </u>	<u> </u>	1		I
Cap311R: Sch 16	Are completed earthworks sealed and hydroseeded and planted as soon as possible?					
Cap311O	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	L
WMP: 3.3/ EM&A: E3	Does the appropriate contractor possess valid dumping permits for dredged marine mud and have them available for inspection?		1	;	· ,	
WMP:5.2.5/ EM&A: E3	Has the contractor kept a complete set of dumping records/ticketing system and made them available for inspection?		$\sqrt{}$			
WMP:5.2.3/ EM&A: E2	Are the bottom openings of marine vessels fitted with tight fitting seals to prevent leakage?		$\sqrt{}$			<u></u> ,
WMP:5.2.3 /EM&A: E2	Are loading of barges and hoppers carried out in a controlled environment so that splashing of dredged material into surrounding water is prevented?					
WMP: 5.2.3	Are overfilling of barges and hoppers prevented?		\/			
EM&A: E3	Are wastes disposed of at licensed sires?					
	Construction Waste and Excavated Materials					
WMP:3.3/ 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:5.3.3 & 5.4.2	Has the Contractor maintained disposal records for the construction waste and excavated materials, and made them available for inspection?	\checkmark				
WMP 5.3.1 5.4.1	Is suitable concrete waste/excavated material used for on-site reclamation/filling works?	/				
WMP5.3.1	Are the used formworks reused as far as possible before being disposed of in a landfill site?	/			,	
WMP 5.4.1	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				1_	
VMP 5.5.4	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?					
VMP 5.5.2	Is general refuse stored within receptacles and separated from chemical wastes?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
WMP 5.5.2	Is the refuse disposed of regularly and properly?					
WMP 5.5.2 5.5.3	Are burning of refuse at site and dumping at sea prohibited?		$\sqrt{}$			
	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)?	/				
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?		1			
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?		1			

WATER QUALITY

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
	Dredging activities	<u> </u>		<u> </u>		
VEP 3.3 /EM&A: B1	Is the configuration of dredging in accordance with the EP's requirements?		/			
EP 3.3 /EM&A: B1	Is the number of large dredgers in operation reduced by 1 during the flood phase of the tidal cycle?	/				Not applicable according to
VEP 3.2 /EM&A B2	Are silt curtains installed at appropriate locations?					
DNRP:4.5	Are silt curtains inspected on a monthly basis					
VEP 3.4/ EM&A B3	Are dredging and sand filling for site formation prohibited to take place at the same time?	\				
DNRP 4.3/ EM&A B3	Is sand filling for site formation carried out behind constructed sea walls, which pierce the sea surface?					

Ref	Checklist Condition	N/A	Yes	No	Unk	Remarks
EM&A: B5	Has sand-fill at the seawall trench been placed by controlled pumping with discharge below original sea-bed level during seawall construction?					
EM&A: B7	Are fully-enclosed or watertight grabs used to minimize loss of sediment during dredging?			1		
EM&A: B7	Are the descent speed of grabs controlled to minimize the impact speed?		$\sqrt{}$			
EM&A: B7	Are the barges loaded carefully to avoid splashing of material?		$\sqrt{}$			
EM&A: B7	Are barges fitted with tight bottom seals to prevent leakage during loading and transportation?					
EM&A: B7	Are barges filled to a level, which ensures that materials do not spill over during loading and transportation?					
EM&A: B7	Is adequate freeboard maintained to ensure the decks are not washed by wave motion?					
EM&A: B7	Is the speed of trailer dredgers under control to avoid stirring up of sea bed sediment?					
EM&A: B7	ls "rainbowing" sand fill from trailer dredgers prohibited?	V				
EM&A: B7	Is the water within and adjacent to the dredging site and along the route to the disposal site clear of visible foam, oil, grease or litter or other objectionable matter?		\checkmark	/		
	Routing of construction related marine vessels					
DNRP 3	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"?		/			

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"?		/	7		
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 scheduled to minimize noise nuisance?			$\sqrt{}$					
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?			/					
EM&A: C1	Are methods of working devised and arranged to minimize noise nuisance?			\checkmark					
EM&A: C1)	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 construction noise, is dredging equipment equipped with silencers or mufflers?								
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?		V						
	Maintenant	Traffic	/	Construction activities inside the					
	Major noise source(s)	Construction activities outside the site		Others					

Abbreviation

VEP: WMP: Varied Environmental Permit

Cap311R:

Waste Management Plan

Cap311O: Cap311:

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

DNRP:

Dredging & Reclamation Plan EM&A Manual (Construction Phase)

EM&A: NCO:

Noise Control Ordinance

WDO:

Waste Disposal Ordinance

Unknown Unk:

Remark	
NIL	
	T. P. S.
Signatures	

ET Member

Contractor's Representative

(Name in Block letters:

12th June 2001