Appendix J

Site Audit Summary

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

Inspection d	late 25/4/2001 Time 10-00 cum Inspecto	ed By	ET:	-	dy Fe	k/Tony)
Site	LAHMA POWER STATION - EXTENSION		Cont.		<u> / 7 1</u>	and c
Veather						
Condition	Sunny Fine Overcast Hazy	\checkmark	Driz	zle [Ra	nin Stor
Temperatu	re ligh Moderat	.e	Lov	V		
Wind	Calm Light Breeze 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?		/			
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		<u> </u>	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, 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?	V				
	Construction Sites					
EM&A: A1	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?	V				
- ANT - ANT	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?	5							
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								
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?	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?	/				
Cap311O	Is open burning prohibited?		~			
Cap311	Is black smoke emission from plant/equipment avoided?		\checkmark			

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?		V						
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?		<u> </u>						
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?	V							
WMP5.3.1	Are the used formworks reused as far as possible before being disposed of in a landfill site?	5							
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								
WMP 5.5.4	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?	\checkmark							
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"?	/			-				
EM&A: E4	Is the chemical waste storage, if any, well maintained, kept closed and locked?	/							
7-7000	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;	V							
	(2) reusable / recyclable materials;	V							
	(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?	V							

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?		V						
EP 3.3 /EM&A: B1	Is the number of large dredgers in operation reduced to 1 during the flood phase of the tidal cycle?		/						
VEP 3.2 /EM&A: B2	Are silt curtains installed at appropriate locations?		V						
DNRP:4.5	Are silt curtains inspected on a monthly basis		\checkmark						
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?	/							

		Т		`	T	
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?		<u> </u>			
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?		V			
EM&A: B7	Are barges fitted with tight bottom seals to prevent leakage during loading and transportation?		1			
EM&A: B7	Are barges filled to a level, which ensures that materials do not spill over during loading and transportation?		\checkmark			
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?	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?		_/			
	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 schedu	aled to minimize noise nuisance?		./			
EM&A: C1	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 the	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?						
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 equipped with silencers or muffle			/			
NCO	Are valid construction noise pern inspection?	nits, if required, available for		✓			
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 fi held percussive breakers?	xed at air compressors and hand	/				
	Major noise source(s)	Traffic	/	Constr site	uction	activi	ties inside the
	major noise source(s)	Construction activities outside the site		Others			

Abbreviation

VEP:

Varied Environmental Permit

WMP:

Waste Management Plan

Cap311R: Cap3110: APC (Construction Dust) Regulation APC (Open Burning) Regulation

Cap311:

Air Pollution Control Ordinance

DNRP: Dredging & Reclamation Plan

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

NCO: WDO: Noise Control Ordinance Waste Disposal Ordinance

Unk:

Unknown

Remark			
<u> </u>			
	•		

Signatures

ET Member

Contractor's Representative

(Name in Block letters:

(Name in Block letters: wah Chui

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

Inspection of	late 16 4/2001 Time 15-cr au Inspect	ed By	ET:	An	dy Fo	rel chur
Site	LAMMA POWER STATION-ESTEWAY		Cont	racto	r:M.Zł	nel chur
Weather						
Condition	Sunny Fine Overcast Hazy		Driz	zle [Ra	in Storr
Temperatu	re 3 °C Humidity High Moderat	te	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?		1			
AIR QUALI 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?	/				
	Construction Sites				· · · · · · · · · · · · · · · · · · ·	
EM&A: A1	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?	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?	/									
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	ı	L	.1							
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?	/			<u> </u>						
	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?	V									
· · · · · · · · · · · · · · · · · · ·	Are all the receiving hoppers enclosed on three (3)sides up to 3m	,									
EM&A: A2	above unloading point?	$\sqrt{}$									

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?		1			
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: 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?		√			
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?		1			
	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?	1				
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	_J				
WMP 5.5.4	Has the Contractor maintained a disposal record for general refuse and made it available for inspection?	1				
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	ls 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?	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?	7							
	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	•				
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 to 1 during the flood phase of the tidal cycle?		/			
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?	1				
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?		1			
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	•		, ,	,	
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?	1				

NOISE

Ref	Checklist Condition		N/A	Yes	No	Unk	Remarks
EM&A: C1	Are working programmes schedu	lled to minimize noise nuisance?		1			
EM&A: C1	Are construction works or equipmuisance?	ment sited to minimize noise		/			
EM&A: C1	Are all plant and equipment mair conditions?	ntained in good operating		/			
EM&A: C1/GP	Is idle equipment turned off or th	rottled down?		/			
EM&A: CI	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		1			
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?	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		\checkmark			
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	/				
	Major noise source(s)	Traffic	1.7	Constr site	uction	activi	ties inside the
	major noise source(s)	Construction activities outside the site	(Others			

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: WDO: Noise Control Ordinance Waste Disposal Ordinance

Unk: Unknown

Remark			
NL			

Signatures

ET Member

Contractor's Representative

(Name in Block letters:

K.F.Far

(Name in Block letters:

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

	Weekly Site Inspection Checkli		וע טו	cug	mg	
Inspection	date 11/4/2001 Time 1000 Inspect	ed By	ET:	racto	in (1)	er Charel Gu
Site	LMX- SITE FEFTICATION				- Pas	Tree of
Weather	,					····
Condition	Sunny Fine Overcast Hazy High Modera		Driz		Ra	in Storm
Temperatu		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 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?		1	4		
AIR QUALI	TY					
Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements			4		
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?		/			

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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?	/				
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?	/				
	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?	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?	/				
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				1
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			•		·
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			-		}
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?	/				
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?	/	200 000			
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?	/			<u> </u>	
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		*			
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?		1						
	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;								
	(2) reusable / recyclable materials;	/							
. 1/1.11.11.	(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		e.			
VEP 3.3 /EM&A: B1	Is the configuration of dredging in accordance with the EP's requirements?	1				
EP 3.3 /EM&A: B1	ls the number of large dredgers in operation reduced to 1 during the flood phase of the tidal cycle?	/				
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?	1				
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?	/				
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				ıl	
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 schedu	uled to minimize noise nuisance?					
EM&A: C1	Are construction works or equip nuisance?	ment sited to minimize noise		/			
EM&A: Cl	Are all plant and equipment main conditions?	ntained in good operating		/			
EM&A: C1/GP	Is idle equipment turned off or the	prottled down?		/			
EM&A: Cl	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 du holidays, is either one of the folka) Mitigation by portable noise b) Rescheduling of some power sensitive time periods?						
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 fi held percussive breakers?	xed at air compressors and hand	1				
	Moloupoics	Traffic	1	Constr site	uction	activi	ties inside the
	Major noise source(s)	Construction activities outside the site					

Abbreviation

VEP: Varied Environmental Permit WMP: Waste Management Plan

Cap311R: Cap311O: APC (Construction Dust) Regulation APC (Open Burning) Regulation Air Pollution Control Ordinance

Cap311:

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:

FOR KAMETA)

(Name in Block letters: FAI WAH GHUI

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

Inspection	date A 2001 Time 12 = 00 and Inspect	led By	ET:	KI	10y	FOK CHI
Site	LMX-SITE FERMATION		Com		1. 1/(14	-MAEL CHT
Weather						
Condition	Sunny Fine Overcast Hazy		Driz	zle [Z R	ain Storm
Temperati	ure [2] °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?		/			
VEP 1.6	Is a copy of EIA report kept in Engineers' and Contractors' offices on site?		1			
AIR QUAL	Checklist Condition	N/A	Yes	No	Unk	Remarks
	General Requirements	<u> </u>	<u></u> _	i		
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	1		L		
EM&A: A1	Are haul roads paved with concrete or sprayed with water to keep the entire road wet?	/				
	Stockpiling of dusty materials			ئىىن		
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?	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	ll		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?	/				
	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	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?	/				
EM&A:	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?		/			

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?					
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					
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?	1				
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?	<u></u>				
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					
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?		/						
	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;	/							
	(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?	1				
EP 3.3 /EM&A: B1	Is the number of large dredgers in operation reduced to 1 during the flood phase of the tidal cycle?	/				
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?	1				
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?	1				
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?	1				
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?	/				
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"?		/			

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 schedu	aled to minimize noise nuisance?		1			
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?			/			
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?		/				
	Major rojes(a)	Traffic	Construction activities inside the site				
	Major noise source(s)	Construction activities outside the site	Others				

Abbreviation

VEP: Varied Environmental Permit DNRP: Dredging & Reclamation Plan Waste Management Plan APC (Construction Dust) Regulation EM&A: EM&A Manual (Construction Phase)
NCO: Noise Control Ordinance WMP: Cap311R: Cap311O: APC (Open Burning) Regulation Air Pollution Control Ordinance WDO: Waste Disposal Ordinance Cap311: Unk: Unknown Remark NIL Signatures ET Member Contractor's Representative

(Name in Block letters:

FOK KAM FAL

Name in Block letters:

V FAI WAH SCHUI