

Appendix I

Site Audit Summary

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

Inspection date 6/2/2004 Time 2:30 pm Inspected By ET: Stanley Chen
Contractor: CHAN SING

Site LMA Site Formation

Weather

Condition Sunny Fine Overcast Hazy Drizzle Rain Storm

Temperature 15 °C Humidity High Moderate Low

Wind Calm Light Breeze Strong

GENERAL

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most 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 QUALITY

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?	✓				
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					
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?	✓				
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?		✓			
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?	✓				
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?	✓				
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?	✓				
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 scheduled to minimize noise nuisance?		✓			
EM&A: C1	Are construction works or equipment sited to minimize noise nuisance?		✓			
EM&A: C1	Are all plant and equipment maintained in good operating conditions?		✓			
EM&A: C1/GP	Is idle equipment turned off or throttled down?		✓			
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 noise source(s)	Traffic	✓ Construction activities inside the site			
		Construction activities outside the site	Others _____			

Abbreviation

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

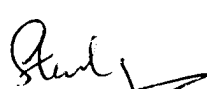
Remark

NIL


Signatures

ET Member

Contractor's Representative



(Name in Block letters:
Stanley Chan)



(Name in Block letters:
CHAN SING)

12th June 2001

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

Inspection date 15/2/2002 Time 10:00 Inspected By ET: Pakey Chan
 Contractor: Terran Leung
 Site LHX - Site Formation

Weather

Condition Sunny Fine Overcast Hazy Drizzle Rain Storm
 Temperature 18 °C Humidity High Moderate Low
 Wind Calm Light Breeze Strong

GENERAL

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most 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 QUALITY

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?	✓				
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					
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?	✓				
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?		✓			
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?	✓				
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?	✓				
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?	✓				
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 scheduled to minimize noise nuisance?		✓			
EM&A: C1	Are construction works or equipment sited to minimize noise nuisance?		✓			
EM&A: C1	Are all plant and equipment maintained in good operating conditions?		✓			
EM&A: C1/GP	Is idle equipment turned off or throttled down?		✓			
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 noise source(s)	Traffic	✓			Construction activities inside the site
		Construction activities outside the site				Others _____

Abbreviation

VEP:	Varied Environmental Permit	DNRP:	Dredging & Reclamation Plan
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Cap311R:	APC (Construction Dust) Regulation	NCO:	Noise Control Ordinance
Cap311O:	APC (Open Burning) Regulation	WDO:	Waste Disposal Ordinance
Cap311:	Air Pollution Control Ordinance	Unk:	Unknown

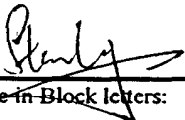
Remark

NIL

Signatures

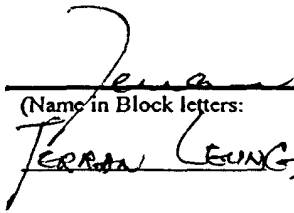
ET Member

Contractor's Representative



(Name in Block letters:

STANLEY CHAN)



(Name in Block letters:

TERRAN LEUNG)

12th June 2001

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

Inspection date 20/2/2007 Time 3:00 pm Inspected By ET: Stanley Chan
 Contractor: S.H. Wong
 Site LXR - Site Formation

Weather

Condition Sunny Fine Overcast Hazy Drizzle Rain Storm
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 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?		✓			

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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(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?	✓				
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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?	✓				
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?	✓				
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?	✓				
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?	✓				
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?	✓				
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?	✓				
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 scheduled to minimize noise nuisance?		<input checked="" type="checkbox"/>			
EM&A: C1	Are construction works or equipment sited to minimize noise nuisance?		<input checked="" type="checkbox"/>			
EM&A: C1	Are all plant and equipment maintained in good operating conditions?		<input checked="" type="checkbox"/>			
EM&A: C1/GP	Is idle equipment turned off or throttled down?		<input checked="" type="checkbox"/>			
EM&A: C1	Are methods of working devised and arranged to minimize noise nuisance?		<input checked="" type="checkbox"/>			
EM&A: C1)	Are construction works carried out in a manner to minimize noise nuisance?		<input checked="" type="checkbox"/>			
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?		<input checked="" type="checkbox"/>			
EM&A: C3	To mitigate night time construction noise, is dredging equipment equipped with silencers or mufflers?	<input checked="" type="checkbox"/>				
NCO	Are valid construction noise permits, if required, available for inspection?		<input checked="" type="checkbox"/>			
NCO	Are conditions of construction noise permits, if any, for the relevant part(s) of the works implemented accordingly?		<input checked="" type="checkbox"/>			
NCO	Are valid noise emission labels fixed at air compressors and hand held percussive breakers?	<input checked="" type="checkbox"/>				
	Major noise source(s)	Traffic	<input checked="" type="checkbox"/> Construction activities inside the site			
		Construction activities outside the site				

Abbreviation

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

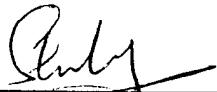
Remark

NIL

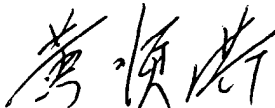
Signatures

ET Member

Contractor's Representative



(Name in Block letters:
STANLEY CHAN)



(Name in Block letters:
S.H. Wong)

12th June 2001

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

Inspection date 27/1/02 Time 3:00 pm Inspected By ET: STANLEY CHAN
 Contractor: TERRAC LEUNG
 Site LMX - Site Formation

Weather

Condition Sunny Fine Overcast Hazy Drizzle Rain Storm
 Temperature 27 °C Humidity High Moderate Low
 Wind Calm Light Breeze Strong

GENERAL

Ref.	Checklist Condition	N/A	Yes	No	Unk	Remarks
VEP 1.5	Has a copy of the most 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 QUALITY

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?	✓				
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					
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?	✓				
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?		✓			
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?	✓				
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?	✓				
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?	✓				
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 scheduled to minimize noise nuisance?		✓			
EM&A: C1	Are construction works or equipment sited to minimize noise nuisance?		✓			
EM&A: C1	Are all plant and equipment maintained in good operating conditions?		✓			
EM&A: C1/GP	Is idle equipment turned off or throttled down?		✓			
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 noise source(s)	Traffic	✓	Construction activities inside the site		
		Construction activities outside the site		Others _____		

Abbreviation

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

Remark

NIL.

Signatures

ET Member

Contractor's Representative



(Name in Block letters:

STANLEY CHAU,



(Name in Block letters:

TERRAX LEUNG,

12th June 2001