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-OPERATION & MAINTENANCE SERVICE-

TOKYO KYUEI CO., LTD.



COMPANY HQ;

2-4-2 IWAMOTOCHO, CHIYODA-KU, TOKYO, JAPAN



TECHNICAL CENTER;

6906-10 SHIBA, KAWAGUCHI CITY, SAITAMA, JAPAN



JAKARTA OFFICE;

JI.R.A KARTINI NO.37, TB. SIMATUPANG, LEBAK BULUS, CILANDAK, JAKARTA SELATAN 12440 INDONESIA



1. O&M Service Contents







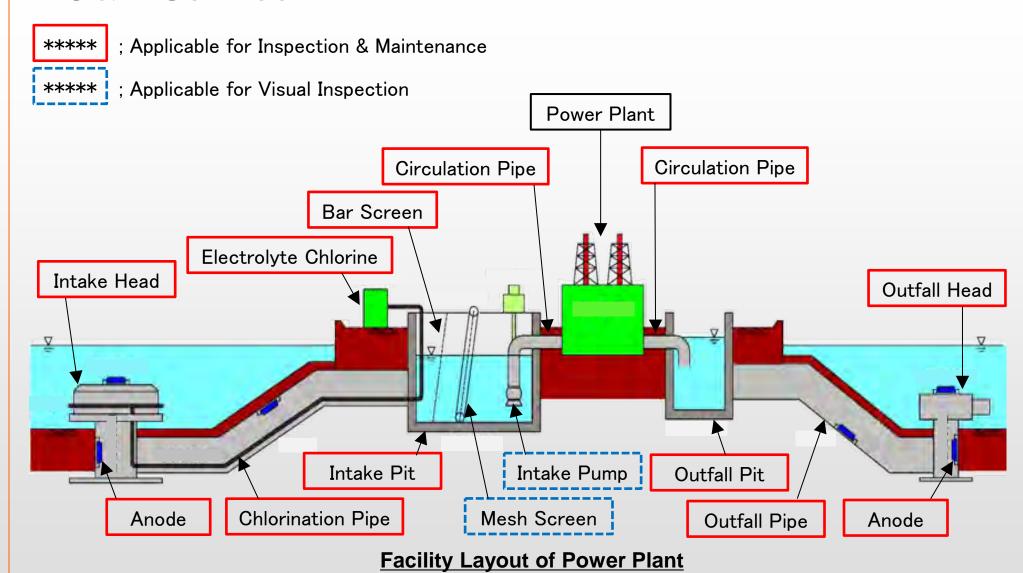




Applicable Facilities and Structures:

- Seawater Intake / Discharge Facility and Pipeline
 (For Thermal / Nuclear power plants, Energy facilities, Various plant such as Desalination, Chemical, Vaporization of liquid, etc., Fishery facilities)
- Various Plant / Piping
- Marine / Coastal Facility / Structure
- Water Treatment and Waste Treatment Facility
- Water Quality Improvement Device
- Fishery-related Facility
- Aquarium, Marine Leisure Facility

2. O&M Service



We provide the technology to keep your facility performing without trouble!

[Trouble/Defect Example]

Facility	Intake Head	Intake & Outfall Head	
	Blockage of Opening	Sedimentation	Damage/Deformation
Defect			
Cause	Jellyfish, Shellfish	Inflow of sediment	Rust
Solution	Jellyfish prevention fence	Removal by sand pump	Reinforcement material
	Scraping shellfish	Dredging around Intake Head	Anode replacement, UW welding
Facility	Intake Pipe		Intake & Outfall Pipe

Facility	Intake Pipe		Intake & Outfall Pipe
	Sedimentation		Blockage
Defect			
Cause	Inflow sediment via hole / crack	Inflow sediment via pipe joint	Shellfish
Solution	Plug the hole / Seal the crack	Close gap by putty or welding	Scraping shellfish
	Seabed improvement outside Intake pipe		Injection of Chlorination
	Removal sedimentation by sand pump		

[Trouble/Defect Example]

Facility	Intake Pit		
	Water Level Drop	Sedimentation	Stop log not insertable
Defect			
Cause	Defect of Intake Pipeline	Inflow sediment via Intake Pipe	Defect of guide rail
Solution	Investigation of Pipeline	Refer to Intake Pipe	Guide rail maintenance

Facility	Intake Pit	Intake / Outfall (Seal) Pit	Outfall (Seal) Pit
Defect	Bar screen damage	Leakage to ground	Foaming
Cause	Rust Reinforcement material Anode replacement	Crack on Concrete Filling by epoxy material Soil improvement	Low water level Structure modification Chemical defoamer
	Underwater welding	·	

[Trouble/Defect Example]

Facility	Circulation Pip	e / Outfall Pipe	Outfall Head
	Leakage to ground		Foaming
Defect			
Cause	Leakage via hole / crack	Leakage via joint	No air vent on Outfall pipeline
Solution	Plug the hole / Seal the crack	Close gap by putty or welding	Install air vent pipe
	Anode replace, UW welding	Install rubber wall inside joint	Chemical defoamer

Facility	Chlorination Diffuser		Chlorination Injection Pipe
	No dis	charge	Blockage inside Pipe
Defect			海明末行-但下校 B
Cause	Leakage via pipe joint	Damage on pipeline	Solidifed chloride
Solution	Fastening pipe joint	Repair of pipeline	Cleaning inside pipe
Solution		Pipe replacement	Pipe replacement

Terima Kasih!











