The Fund's significant management and future direction in management

Maintenance in 2020

In 2020, Electricity Generating Authority of Thailand (EGAT) has performed maintenance of the North Bangkok Power Plant Block 1 to be in readiness for seeking benefit. The detail of maintenance activities is set out as follows;

No.	Maintenance	Objective
1	Hot Gas Path Inspection (HGPI) for Gas	- Change spare parts by life of equipment which
	Turbine System	installed in path of hot natural gas
		- To inspect malfunction of Compressor,
		Combustion, Gas Turbine.
2	Minor Inspection (MI) for Steam Turbine	- Follow as recommendation of OEM after steam
	System by expanding the scope of work of	leakage problem in year 2018
	High Pressure and Intermediate Pressure	
	Steam Turbine to Overhaul	
3	Change reheat attemperator to new design and	- To resolve the circumference crack problem by
	check tube leakage and thickness of tube in	stress concentration.
	HRSG	
4	Upgrade Gas Turbine Control System	Upgrade
	(MkVIe)	
5	Change Load Commutated Inverter (LCI) and	Upgrade
	Exciter	
6	Overhaul both of Circulating Water Pump	Follow as recommendation of OEM
	:CWP	
7	Inspect Condenser by Eddy Current	Inspect leakage of Condenser Tube
8	Change GT11 Generator Rotor	Found cooling hole block during generator
		inspection which ever occurred in GT12 Generator
		Rotor in year 2016

Future direction in management of the fund

According to the maintenance schedule in 2021, EGAT will perform an annual yearly inspection for North Bangkok power plant block 1, but during the maintenance operation in a previous year, it was found that 1 of the IP steam turbine blade stage 21 was partially damaged. Therefore, EGAT has consulted with the manufacturer (OEM) about the partially damage, and the OEM has recommended to replace the entire blade stage 21 for the safety reason of the power plant.

In 2021, apart from the yearly inspection, EGAT plans to replace the blade stage 21 at the expense of EGAT, according to the RTA. the replacement of the blade stage 21 will reduce the risk of steam turbine break down. The detail of the maintenance work in this year is as follow.

No.	Maintenance	Objective
1	Replace IP Steam Turbine Blade Stage 21	OEM recommendation
2	Inspect Compressor, Combustion, Gas	To inspect malfunction of Compressor, Combustion,
	Turbine by Bore Scope Inspection	Gas Turbine yearly.
3	Realignment GT11	To rectify mass unbalance problem
4	Overhaul CTG (Combustion Turbine	Time based maintenance
	Generator) Power Transformer	
5	Assess remaining life of HRSG (Hear	To prepare maintenance activities for Major
	Recovery Steam Generator)	Overhaul in year 2024
6	Inspect Condenser Tube 100% by Eddy	To inspect leakage of tube in Condenser and to
	Current and Clean Condenser	prepare maintenance activities for Major Overhaul
		in year 2024