

表 2 REDUNDANT 定義說明

項目	名稱	說明
1	Redundant	Used to describe a <u>component</u> of a <u>computer</u> or <u>network</u> system that is used to guard the primary system from failure by acting as a back up system. Redundant components can include both <u>hardware</u> elements of a system -- such as <u>disk drives</u> , <u>peripherals</u> , <u>servers</u> , <u>switches</u> , <u>routers</u> -- and <u>software</u> elements -- such as <u>operating systems</u> , <u>applications</u> and <u>databases</u> .
2	hot standby	A method of <u>redundancy</u> in which the primary and secondary (i.e., backup) systems <u>run simultaneously</u> . The data is <u>mirrored</u> to the secondary server in real time so that both systems contain <u>identical</u> (完全相同) information.
3	warm standby	A method of <u>redundancy</u> in which the secondary (i.e., backup) system runs in the background of the primary system. <u>Data is mirrored to the secondary server at regular intervals</u> , which means that there are times when both servers do not contain the exact same data.
4	cold standby	A method of <u>redundancy</u> in which the secondary (i.e., backup) system is only called upon when the primary system fails. The system on cold standby receives scheduled data backups, but less frequently than a <u>warm standby</u> . Cold standby systems are used for non-critical applications or in cases where data is changed infrequently.

③三菱公司已完成了其最新之鍋爐飼水泵汽輪機 (BFPT) 控制系統設計，具有真正之 REDUNDANT 功能，其與中九、十機鍋爐飼水泵控制系統最大之不同在於採用雙 CPU (Dual CPU) 之設計，而達到真正之 Redundant 功能。中九、十機鍋爐飼水泵控制系統未來若打算升級改善，三菱公司建議正式提出採購案，才願意提供詳細之控制系統圖。

④有關未來中九、十機 BFPT 控制系統之升級改善研究，本組將持續監視及蒐集相關運轉資訊作研究，將待本廠專案會議討論決議後再作定奪，目前 BFPT 之控制系統在控制運轉上仍屬穩定。

## 2. EG3P 液壓驅動器：

電子液壓驅動器 EG3P (Electro-Hydraulic Actuator) 接收來自 BFPT 調速器之輸出信號，並將該信號轉變成驅動器的機械位置，油壓伺服馬達 (Hydraulic Servomotor) 會將此機械輸出信號予以放大，來帶動渦輪機之控制閥，以控制進入渦輪機之蒸汽量。